TULSEQUAH CHIEF MINE, NORTHWESTERN B.C.

1992 EXPLORATION PROGRAM:
DIAMOND DRILLING, GEOLOGY
and
RESERVE ESTIMATION

**Marcie 3 (203388), Ross (203796), River Fr. (L5669),
Tulsequah Bonanza (L5668), Tulsequah Chief (L5670),
Tulsequah Elva Fr. (L5679), Birds (203794),
Tulsequah Bald Eagle (L5675)
Pat (203795)**

ATLIN Mining Division

**NTS 104K/12
Latitude: 58°43' N, Longitude: 133°35' W**

Owner and Operator:

REDFERN RESOURCES LTD.
**205-10711 Cambie Road
Richmond, British Columbia
V6X 3G5**

Consultants:

CAMBRIA GEOLOGICAL LTD.
**1531 West Pender Street
Vancouver, British Columbia
V6G 2T1**

By

**P.J. McGuigan
G.L. Dawson
W.D. Melnyk**

PART 4 OF 6

June 2, 1993

VOLUME 3

APPENDIX 7

DIAMOND DRILLING RE-LOGS, ASSAYS and GEOCHEMICAL DETERMINATIONS (1990-1991)

Hole No: TCU90-22
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.51
(metres) E: 10597.45

Azimuth: 172.0
Dip: -69.5
Length (m): 786.10
Elevation: 113.25
(metres)
Purpose:

Core Size: BQ-2
Drill Name: Underground
Contractor: Coates
Started: July 12, 1990
Completed: August 5, 1990
Recovery: Good

Date Logged: October 2, 1990
Logged By: R.J. Aulis & M.J. Casselmen
Date Re-logged: July 27, 1992
Re-logged By: G.L. Dawson
Report Printed: 9 Feb, 1993
4:22am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	172.0	-69.5															
3.0	171.9	-69.6	134.1	174.2	-70.7	265.2	177.3	-72.3	396.2	177.9	-72.2	527.3	180.4	-74.0	658.4	181.7	-74.2
9.1	171.8	-69.5	140.2	174.2	-70.9	271.3	177.5	-72.1	402.3	177.9	-72.2	533.4	180.5	-74.0	664.5	181.8	-74.3
12.2	171.8	-69.7	143.3	174.2	-71.0	274.3	177.5	-71.9	405.4	178.0	-72.2	536.5	180.6	-74.1	667.5	181.9	-74.4
15.2	171.9	-69.8	146.3	174.3	-71.2	277.4	177.4	-72.0	408.4	178.1	-72.2	539.5	180.7	-74.0	670.6	181.9	-74.3
18.3	172.0	-69.9	149.4	174.3	-71.4	280.4	177.3	-72.1	411.5	178.2	-72.3	542.5	180.7	-74.0	673.6	181.9	-74.3
21.3	171.9	-70.1	152.4	174.3	-71.4	283.5	177.1	-72.3	414.5	178.2	-72.3	545.6	180.8	-74.1	676.7	181.9	-74.3
24.4	171.9	-70.1	155.4	174.3	-71.3	286.5	177.2	-72.2	417.6	178.3	-72.4	548.6	180.8	-74.1	679.7	181.9	-74.4
27.4	171.9	-70.3	158.5	174.4	-71.4	289.6	177.3	-72.0	420.6	178.3	-72.4	551.7	180.8	-74.1	682.8	181.9	-74.5
30.5	171.8	-70.4	161.5	174.4	-71.5	292.6	177.2	-71.8	423.7	178.4	-72.4	554.7	180.8	-74.1	685.8	181.8	-74.4
33.5	171.9	-70.3	164.6	174.6	-71.4	295.7	177.2	-71.6	426.7	178.5	-72.4	557.8	180.8	-74.2	688.8	181.6	-74.2
36.6	171.8	-70.4	167.6	174.6	-71.6	298.7	177.2	-71.6	429.8	178.6	-72.5	560.8	180.8	-74.2	691.9	181.5	-74.1
39.6	171.9	-70.5	170.7	174.7	-71.4	301.8	177.3	-71.6	432.8	178.7	-72.6	563.9	180.8	-74.2	694.9	181.5	-74.1
42.7	172.1	-70.6	173.7	174.8	-71.5	304.8	177.4	-71.5	435.9	178.7	-72.5	566.9	180.8	-74.2	698.0	181.4	-74.0
45.7	172.2	-70.6	176.8	174.9	-71.4	307.9	177.3	-71.5	438.9	178.7	-72.7	570.0	180.8	-74.2	701.0	181.3	-74.0
48.8	172.2	-70.6	179.8	175.0	-71.5	310.9	177.3	-71.3	442.0	178.7	-72.7	573.0	180.8	-74.2	704.1	181.1	-74.0
51.8	172.3	-70.7	182.9	174.9	-71.6	313.9	177.2	-71.3	445.0	178.8	-72.7	576.1	180.9	-74.1	707.1	180.9	-74.0
54.9	172.5	-70.6	185.9	175.0	-71.5	317.0	177.3	-71.2	448.1	178.8	-72.7	579.1	181.0	-74.1	710.2	180.9	-74.0
57.9	172.4	-70.7	189.0	175.1	-71.4	320.0	177.4	-71.1	451.1	178.9	-72.7	582.2	181.0	-74.1	713.2	180.9	-74.0
61.0	172.5	-70.9	192.0	175.2	-71.3	323.1	177.5	-71.0	454.1	178.9	-72.8	585.2	181.0	-74.1	716.3	180.9	-74.0
64.0	172.5	-70.9	195.1	175.3	-71.4	326.1	177.5	-71.2	457.2	179.0	-72.8	588.3	181.0	-74.1	719.3	180.9	-74.0
67.1	172.6	-71.0	198.1	175.4	-71.3	329.2	177.6	-71.1	460.3	179.1	-72.9	591.3	181.0	-74.2	722.4	180.8	-74.0
70.1	172.7	-70.9	201.2	175.5	-71.4	332.2	177.7	-71.2	463.3	179.2	-72.9	594.4	181.0	-74.3	725.4	180.8	-74.0
73.2	172.7	-70.9	204.2	175.5	-71.5	335.3	177.8	-71.3	466.3	179.3	-73.0	597.4	181.0	-74.3	728.5	180.7	-74.1
76.2	172.8	-70.7	207.3	175.7	-71.5	338.3	177.8	-71.3	469.4	179.4	-73.1	600.5	181.1	-74.2	731.5	180.6	-74.0
79.3	172.9	-70.8	210.3	175.8	-71.4	341.4	177.9	-71.1	472.4	179.5	-73.2	603.5	181.2	-74.1	734.6	180.6	-74.0
82.3	173.1	-70.7	213.4	176.0	-71.6	344.4	177.9	-71.0	475.5	179.6	-73.3	606.5	181.3	-74.0	737.6	180.5	-74.0
85.3	173.0	-70.6	216.4	176.1	-71.5	347.5	178.0	-71.0	478.5	179.6	-73.3	609.6	181.3	-74.0	740.7	180.5	-74.0
88.4	173.0	-70.6	219.5	176.2	-71.4	350.5	177.9	-71.1	481.6	179.6	-73.3	612.7	181.3	-74.0	743.7	180.4	-74.1
91.4	173.0	-70.4	222.5	176.4	-71.6	353.6	177.8	-71.0	484.6	179.7	-73.4	615.7	181.3	-74.0	746.8	180.3	-74.1
94.5	173.2	-70.4	225.6	176.4	-71.5	356.6	177.8	-71.0	487.7	179.7	-73.4	618.7	181.3	-74.0	749.8	180.1	-74.0
97.5	173.2	-70.4	228.6	176.5	-71.5	359.7	177.8	-71.2	490.7	179.8	-73.5	621.8	181.3	-74.0	752.9	179.7	-74.1

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
100.6	173.3	-70.5	231.6	176.5	-71.5	362.7	177.8	-71.4	493.8	179.9	-73.6	624.8	181.3	-74.0	755.9	179.4	-74.2
103.6	173.4	-70.4	234.7	176.6	-71.7	365.8	177.9	-71.6	496.8	180.0	-73.7	627.9	181.3	-74.0	759.0	179.4	-74.4
106.7	173.4	-70.4	237.7	176.9	-71.9	368.8	177.9	-71.8	499.9	180.1	-73.8	630.9	181.3	-74.0	762.0	179.4	-74.5
109.7	173.4	-70.5	240.8	177.0	-71.8	371.9	177.9	-71.8	502.9	180.2	-73.9	634.0	181.3	-74.1	765.0	179.4	-74.5
112.8	173.4	-70.5	243.8	177.1	-71.6	374.9	178.0	-71.9	506.0	180.2	-73.9	637.0	181.5	-74.2	768.1	179.4	-74.5
115.8	173.6	-70.4	246.9	177.1	-71.6	378.0	178.0	-72.0	509.0	180.2	-73.9	640.1	181.6	-74.1	771.1	179.4	-74.5
118.9	173.8	-70.4	249.9	177.2	-71.8	381.0	178.2	-72.1	512.1	180.3	-74.0	643.1	181.6	-74.1	774.2	179.3	-74.6
121.9	173.8	-70.4	253.0	177.2	-71.9	384.0	178.2	-72.2	515.1	180.3	-74.0	646.2	181.6	-74.1	777.2	179.2	-74.7
125.0	173.8	-70.4	256.0	177.2	-72.0	387.1	178.1	-72.1	518.2	180.3	-74.0	649.2	181.6	-74.1			
128.0	174.0	-70.3	259.1	177.2	-72.2	390.1	178.0	-72.2	521.2	180.3	-74.0	652.3	181.7	-74.2			
131.1	174.1	-70.5	262.1	177.3	-72.3	393.2	178.0	-72.2	524.3	180.3	-74.0	655.3	181.7	-74.2			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	1.80	CASING										
1.80	265.50	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, medium green, propylitically altered, fine grained basalt and minor ash tuff. Unit cut by chorite + epidote + quartz veinlets with envelopes of albite. 8.60 19.70 BASALT ASH TUFF: Weakly laminated, dark to medium green basalt dust and ash tuff. 10.80 12.60 Bleached and broken core; chlorite + albite + clay altered. 20.30 21.50 Bleached and broken core; calcite + chlorite altered. 28.10 43.10 Similar to 10.8 to 12.6 metres; some chlorite veins (1-2 cm) with albite selvages. 75.50 130.20 Feldspar phyric basalt; feldspar cry als are euhedral and 1-2 mm diameter. 110.10 111.30 Bleached and broken core; calcite veined chlorite + calcite + clay altered section. 153.50 155.00 Amphibole phyric basalt; amphibole crystals (1-3 mm) are euhedral and in part altered to chlorite.										
265.50	300.50	VOLCANIC SEDIMENTS: BIOTITIC Faintly laminated, greenish brown, biotite +/- cordierite altered basalt ash tuff and tuffaceous argillite. Chlorite + epidote + quartz + magnetite + hematite veinlets with envelopes of albite and silica.										
300.50	360.00	BASALT FLOW: Dark green, fine grained to aphanitic basalt flow. 304.80 307.90 Quartz + calcite + chlorite + albite altered zone. 313.8[illegible] 324.60 Similar to 304.8 to 307.9 metres with some sections of disseminated hematite. 328.50 331.90 Quartz + calcite + chlorite shear zone @ 15 to 40 degrees to C.A. 331.90 339.80 FAULT Quartz + carbonate healed fault zone; breccia clasts (1-2 cm) of quartz + carbonate + fuchite altered basalt flow.	R9008071 R9008072 R9008073 R9008074 R9008075 R9008076	331.62 332.84 334.37 335.89 337.41 338.94	332.84 334.37 335.89 337.41 338.94 339.85	1.22 1.52 1.52 1.52 1.52 .91						
360.00	383.00	BASALT FLOW BRECCIA: White and green, fine grained basalt flow breccia (?); section is feldspar (1-3 mm) phyric in part; Alteration consists of chlorite + calcite + epidote + silica.										
383.00	537.67	BASALT FLOW: SILICIFIED Medium to dark green, fine grained basalt flow; some feldspar (1-2 mm) phyric sections. Unit is propylitically altered; minor quartz + calcite + chlorite + epidote veinlets. Bluish green silica envelopes to fractures and pervasive zones. Lower contact @ 60° to CA. 505.70 537.67 SILICIFIED Silicified basalt flow; silica forms 1-2 cm										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		envelopes along fractures to pervasive zones.										
537.67	540.41	DACITE LAPILLI TUFF: Grey and white, feldspar (1-2mm) phyric dacite lapilli tuff and flow breccia. Numerous quartz + chlorite ± epidote ± albite veinlets.										
540.41	543.60	DACITE ASH TUFF: CHLORITIC Weakly foliated, dark greenish grey, chlorite altered dacite ash tuff; rare lapilli size clasts. Upper and lower contacts sharp @ 50-60° to CA.	R9007270	542.24	543.92	1.68						
543.60	559.00	ZINC FACIES: Banded sphalerite, sericite altered tuff, chert, pyrite and minor barite ± galena ± chalcopyrite ± tetrahedrite. Numerous small scale folds throughout section. Approximately 30% total sulphides.	R9007271	543.92	544.22	.30	.03	.26	.21	.29	1.94	
			R9007272	544.22	545.29	1.07	.11	1.65	.59	2.10	9.95	
			ZAX	544.22	593.90	49.68						
			R9007273	545.29	546.81	1.52	.22	7.65	.70	3.35	15.71	
			R9007274	546.81	547.73	.92	.07	5.64	.41	3.40	9.88	
			R9007275	547.73	549.25	1.52	.13	15.95	1.52	10.74	18.52	
			R9007276	549.25	550.77	1.52	.18	5.25	.85	1.95	8.73	
			R9007277	550.77	551.84	1.07	.09	2.66	.48	1.75	8.28	
			R9007278	551.84	553.21	1.37	.09	6.16	.93	4.50	15.49	
			R9007279	553.21	554.74	1.52	.09	5.29	.77	3.30	24.15	
			R9007280	554.74	556.26	1.52	.07	4.92	1.43	2.75	17.90	
			R9007281	556.26	556.57	.30	.04	2.39	1.33	2.15	4.65	
			R9007282	556.57	557.17	.61	.05	5.42	1.01	4.00	9.24	
			R9007283	557.17	558.09	.91	.05	4.49	1.52	.84	5.30	
			R9007284	558.09	559.00	.91	.01	.33	.29	.06	.17	
559.00	575.92	COPPER FACIES: Faintly banded, fine grained pyrite with lesser chalcopyrite (11%) and minor sphalerite and galena; approximately 90% total sulphides. 569.20 569.70, With BANDED PYRITE Banded pyrite, sericite altered tuff, chert, barite and minor chalcopyrite; unit contains some small scale folds. 570.20 570.80, With BANDED PYRITE Similar to 569.2 to 569.7 metres. 572.70 574.40, With BANDED PYRITE Similar to 569.2 to 569.7 metres.	R9007285	559.00	560.53	1.52	.04	1.26	1.62	.04	.21	
			R9007286	560.53	562.05	1.52	.09	3.17	3.49	.07	1.00	
			R9007287	562.05	563.27	1.22	.11	9.30	3.70	.29	.78	
			R9007288	563.27	564.49	1.22	.39	11.20	5.20	.46	2.44	
			R9007289	564.49	566.01	1.52	.51	5.59	5.60	.32	.41	
			R9007290	566.01	567.54	1.52	.05	4.41	6.25	.08	.29	
			R9007291	567.54	569.21	1.68	.09	5.77	5.25	.20	.55	
			R9007292	569.21	569.67	.46	.12	9.57	2.56	2.75	11.26	
			R9007293	569.67	571.20	1.52	.10	7.02	1.83	2.50	11.16	
			R9007294	571.20	571.96	.76	.21	8.49	4.10	.71	4.40	
			R9007295	571.96	572.41	.46	.18	6.17	3.64	2.00	10.17	
			R9007296	572.41	573.33	.91	.02	2.62	2.42	1.07	7.89	
			R9007297	573.33	574.55	1.22	.08	4.03	3.15	.14	8.48	
			R9007298	574.55	575.92	1.37	.17	10.26	4.65	.43	2.90	
575.92	588.87	ZINC FACIES: Banded section comprised mainly of yellow sphalerite with lesser sericite altered tuff, chert and barite. Section cut by a network of chalcopyrite + specularite veinlets; visible gold associated with these later veinlets.	R9007299	575.92	577.29	1.37	.11	8.52	3.80	.58	16.17	
			R9007300	577.29	577.75	.46	.02	5.52	1.90	1.25	11.57	
			R9007301	577.75	578.97	1.22	.06	12.11	3.15	1.50	14.38	

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
			R9007302	578.97	580.49	1.52	.04	7.02	3.54	1.35	11.08	
			R9007303	580.49	582.17	1.68	.12	5.24	4.55	1.26	11.56	
			R9007304	582.17	582.47	.30	.03	2.10	1.27	3.50	21.51	
			R9007305	582.47	583.08	.61	.04	3.90	1.19	1.28	14.51	
			R9007306	583.08	584.30	1.22	.06	3.82	1.57	1.68	15.91	
			R9007307	584.30	585.06	.76	.33	3.88	3.09	.26	3.60	
			R9007308	585.06	586.59	1.52	.19	3.97	2.77	1.35	24.48	
			R9007309	586.59	587.96	1.37	.18	3.09	3.14	.05	.67	
			R9007310	587.96	588.87	.92	.10	3.08	2.42	.21	2.38	
588.87	593.90	ZINC FACIES: Thinly banded section of sphalerite, pyrite, chalcopyrite, and minor chert and tuff; banding @ 10-40° to CA.	R9007311	588.87	589.33	.46	.09	2.45	1.45	1.10	9.40	
			R9007312	589.33	590.40	1.07	.29	5.26	7.45	.43	9.35	
			R9007313	590.40	590.70	.30	.10	3.34	1.04	1.75	11.67	
			R9007314	590.70	591.31	.61	.04	.65	.49	.88	2.38	
			R9007315	591.31	591.92	.61	.18	5.09	8.80	.79	10.10	
			R9007316	591.92	593.45	1.52	.09	2.53	6.65	.45	10.08	
			R9007317	593.45	593.90	.46	.11	5.86	4.55	.96	6.30	
593.90	595.58	EXHALITIC TUFF: , WITH BANDED SPHALERITE Grey chert with lesser disseminations and bands of sphalerite + pyrite and sericite altered ash tuff.	R9007318	593.90	595.43	1.52	.04	.45	.05	.33	.80	
595.58	632.61	BASALT LAPILLI TUFF: SILICIFIED , WITH DISSEMINATED PYRITE White to grey, silica + pyrite altered basalt ash and minor lapilli tuff. Quartz microveinlets, disseminated and stringer pyrite (2-5%), minor sphalerite, trace galena, hematite. Alteration decrease towards bottom of section. Bedding (?) @ 45° to CA.										
632.61	676.40	BASALT FLOW: Blackish green, fine grained to aphanitic basalt flow. Quartz + calcite veins @ top of interval. 662.94 669.34 Blackish green, fine grained to aphanitic, basalt flow. Quartz + epidote + garnet + calcite veinlets. Lower contact is brecciated over 0.5 metres.										
676.40	786.10	BASALT FLOW: CORDIERITE Dark green to black, fine grained to aphanitic, basalt flow; some sections feldspar phyric (1-2 mm). Grey cordierite (<0.5 mm) porphyroblasts throughout interval. Some quartz + chlorite + epidote + garnet + albite veinlets. 676.40 678.20 BASALT FLOW BRECCIA:. 726.20 728.80 BASALTIC TUFF: Silicified interflow basalt ash tuff. 747.10 754.10 Foliated, pale green and black, basalt flow; section is silicified with aligned brecciated clasts--shear zone (?). 762.60 767.40 FAULT Albite + chlorite + pyrite altered brecciated basalt ash tuff.	R9008398	749.81	751.03	1.22						
			R9008399	751.03	751.94	.92						
			R9008400	751.94	752.55	.61						
			R9008401	752.55	753.31	.76						
			R9008402	753.31	754.08	.76						
			R9008403	754.08	755.29	1.22						
			R9008404	761.39	762.61	1.22						
			R9008405	762.61	763.52	.91						
			R9008406	763.52	764.74	1.22						
			R9008407	764.74	765.66	.92						

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
			R9008408	765.66	766.88	1.22	.03					
			R9008409	766.88	767.79	.91						
			R9008410	767.79	769.32	1.52						
786.10		EOH										

Hole No: TCU90-22
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.51
(metres) E: 10597.45

Azimuth: 172.0
Dip: -69.5
Length (m): 786.10
Elevation: 113.25
(metres)
Purpose:

Core Size: BQ-2
Drill Name: Underground
Contractor: Coates
Started: July 12, 1990
Completed: August 5, 1990
Recovery: Good

Date Logged: October 2, 1990
Logged By: R.J. Aulis & M.J. Casselman
Date Re-logged: July 27, 1992
Re-logged By: G.L. Dawson
Report Printed: 19 Feb, 1993
10:04pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9008071	331.62	332.84	1.22		.00						<10	<.4	8	<4	105						
R9008072	332.84	334.37	1.52		.00						<10	<.4	12	6	88						
R9008073	334.37	335.89	1.52		.00						<10	<.4	7	<4	86						
R9008074	335.89	337.41	1.52		.00						<10	<.4	5	<4	121						
R9008075	337.41	338.94	1.52		.00						<10	<.4	4	<4	88						
R9008076	338.94	339.85	.91		.00						<10	<.4	8	<4	60						
R9007270	542.24	543.92	1.68		.00						<10	7.5	60	30	410						
R9007271	543.92	544.22	.30	2.94	25.39	.02	.24	.21	.29	1.94	404	11.5	2025	2860	>17900						
R9007272	544.22	545.29	1.07	3.47	118.44	.10	1.48	.59	2.10	9.95	1360	50.5	5150	>20800	>84500						0
R9007273	545.29	546.81	1.52	3.47	215.71	.20	6.83	.70	3.35	15.71	4660	>223.0	6200	>37100	>31500						0
R9007274	546.81	547.73	.92	3.64	119.04	.06	5.04	.41	3.40	9.88	1962	>165.0	3600	>30850	>76500						0
R9007275	547.73	549.25	1.52	3.90	262.55	.12	14.24	1.52	10.74	18.52	3200	>497.5	>15050	>08500	>81500						
R9007276	549.25	550.77	1.52	3.33	148.34	.16	4.69	.85	1.95	8.73	3840	>159.0	8500	>18800	>74500						
R9007277	550.77	551.84	1.07	3.20	103.07	.08	2.38	.48	1.75	8.28	2100	89.0	5100	>19350	>70000						
R9007278	551.84	553.21	1.37	3.92	174.49	.08	5.50	.93	4.50	15.49	1420	>201.0	8650	>43200	>41500						
R9007279	553.21	554.74	1.52	4.25	220.21	.08	4.73	.77	3.30	24.15	7840	>174.5	7350	>35150	>23000						
R9007280	554.74	556.26	1.52	4.20	177.14	.06	4.40	1.43	2.75	17.90	1532	>157.0	>13400	>26400	>64000						
R9007281	556.26	556.57	.30	4.20	75.10	.04	2.13	1.33	2.15	4.65	812	81.5	>13400	>22050	>43000						
R9007282	556.57	557.17	.61	3.96	118.11	.05	4.84	1.01	4.00	9.24	1612	>166.0	9600	>40100	>79000						
R9007283	557.17	558.09	.91	3.70	85.25	.05	4.01	1.52	.84	5.30	1366	>131.5	>16250	9800	>52000						
R9007284	558.09	559.00	.91	2.80	8.78	.01	.29	.29	.06	.17	274	13.5	3005	605	1765						
R9007285	559.00	560.53	1.52	4.69	37.40	.03	1.13	1.62	.04	.21	824	39.0	>16300	430	2065						
R9007286	560.53	562.05	1.52	4.69	87.86	.08	2.83	3.49	.07	1.00	1056	99.0	34500	955	11200						
R9007287	562.05	563.27	1.22	4.76	114.84	.10	8.30	3.70	.29	.78	1492	>287.0	36400	3370	9150						
R9007288	563.27	564.49	1.22	4.60	242.61	.35	10.00	5.20	.46	2.44	>13800	>351.0	49000	4940	25000						
R9007289	564.49	566.01	1.52	4.67	259.64	.46	4.99	5.60	.32	.41	>22000	>174.0	51000	3510	4650						
R9007290	566.01	567.54	1.52	4.75	109.67	.05	3.94	6.25	.08	.29	1150	>143.0	>53000	885	3350						
R9007291	567.54	569.21	1.68	4.33	115.09	.08	5.15	5.25	.20	.55	2760	>171.0	>48950	2150	6150						
R9007292	569.21	569.67	.46	3.88	180.76	.11	8.55	2.56	2.75	11.26	3300	>309.5	>24900	>28100	>07500						
R9007293	569.67	571.20	1.52	4.01	156.88	.09	6.27	1.83	2.50	11.16	2580	>219.5	>19500	>25500	>08000						
R9007294	571.20	571.96	.76	4.24	174.89	.19	7.58	4.10	.71	4.40	3780	>274.0	>38500	7750	>42000						

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9007295	571.96	572.41	.46	4.13	195.71	.16	5.51	3.64	2.00	10.17	>16200	>200.5	>36350	>22000	>83000						
R9007296	572.41	573.33	.91	4.19	98.93	.02	2.34	2.42	1.07	7.89	572	80.5	>23650	>11800	>70000						
R9007297	573.33	574.55	1.22	4.43	132.01	.07	3.60	3.15	.14	8.48	2420	>140.5	>32100	1685	>78000						
R9007298	574.55	575.92	1.37	4.47	163.97	.16	9.16	4.65	.43	2.90	4400	>344.5	>45200	4800	>30150						
R9007299	575.92	577.29	1.37	3.39	211.48	.09	7.61	3.80	.58	16.17	1712	>270.5	>36600	6850	>59000						
R9007300	577.29	577.75	.46	3.35	123.89	.02	4.93	1.90	1.25	11.57	530	>165.5	>18600	>13350	>16000						
R9007301	577.75	578.97	1.22	4.21	190.19	.06	10.81	3.15	1.50	14.38	1636	>374.5	>29600	>16200	>38000						
R9007302	578.97	580.49	1.52	4.12	153.02	.04	6.27	3.54	1.35	11.08	1050	>247.0	>34450	>15550	>01500						
R9007303	580.49	582.17	1.68	3.41	188.22	.10	4.68	4.55	1.26	11.56	2220	>152.5	>45450	>13550	>04000						
R9007304	582.17	582.47	.30	4.02	181.10	.03	1.88	1.27	3.50	21.51	212	69.0	>13000	>38200	>86500						
R9007305	582.47	583.08	.61	4.10	135.39	.03	3.48	1.19	1.28	14.51	3760	>122.5	>11750	>15550	>51500		3291		680		
R9007306	583.08	584.30	1.22	4.17	156.46	.05	3.41	1.57	1.68	15.91	1840	>115.0	>15500	>19200	>37000						
R9007307	584.30	585.06	.76	4.36	184.28	.30	3.46	3.09	.26	3.60	3180	>125.0	>28850	3150	>36400						
R9007308	585.06	586.59	1.52	4.23	271.86	.17	3.55	2.77	1.35	24.48	4440	>141.0	>26100	>16400	>03500						
R9007309	586.59	587.96	1.37	4.34	111.90	.16	2.76	3.14	.05	.67	7000	>110.0	>30800	775	7750						
R9007310	587.96	588.87	.92	4.48	88.94	.09	2.75	2.42	.21	2.38	3200	99.0	>23200	2710	>23500						
R9007311	588.87	589.33	.46	4.05	117.25	.08	2.19	1.45	1.10	9.40	2240	79.5	>13650	>13000	>00000						
R9007312	589.33	590.40	1.07	4.42	264.69	.26	4.70	7.45	.43	9.35	5900	>164.0	>63500	4970	>78500		1639		260		
R9007313	590.40	590.70	.30	3.92	135.12	.09	2.98	1.04	1.75	11.67	2200	>107.0	>10550	>22350	>24000						
R9007314	590.70	591.31	.61	2.80	39.59	.04	.58	.49	.88	2.38	1136	27.0	4400	>10600	>22550						
R9007315	591.31	591.92	.61	3.46	250.55	.16	4.55	8.80	.79	10.10	5300	>162.0	>73500	9200	>86000						
R9007316	591.92	593.45	1.52	4.18	185.58	.08	2.26	6.65	.45	10.08	2380	87.5	>56000	5700	>84000						
R9007317	593.45	593.90	.46	3.55	152.15	.10	5.23	4.55	.96	6.30	3800	>184.0	>40200	>11800	>64500						
R9007318	593.90	595.43	1.52	2.82	21.62	.04	.40	.05	.33	.80	1152	18.5	380	4100	8500						
R9008398	749.81	751.03	1.22		.00						<10	<.4	34	5	95						
R9008399	751.03	751.94	.92		.00						<10	7	46	14	69						
R9008400	751.94	752.55	.61		.00						60	1.8	266	12	97						
R9008401	752.55	753.31	.76		.00						<10	.7	43	12	50						
R9008402	753.31	754.08	.76		.00						46	1.2	214	8	155						
R9008403	754.08	755.29	1.22		.00						<10	<.4	59	<4	139						
R9008404	761.39	762.61	1.22		.00						<10	<.4	61	<4	123						
R9008405	762.61	763.52	.91		.00						<10	<.4	10	<4	91						
R9008406	763.52	764.74	1.22		.00						36	.6	69	10	91						
R9008407	764.74	765.66	.92		.00						212	2.2	460	49	401						
R9008408	765.66	766.88	1.22		11.27	.03					1140	20.4	4760	433	7040						
R9008409	766.88	767.79	.91		.00						110	2.0	264	32	318						
R9008410	767.79	769.32	1.52		.00						32	.6	94	80	184						

Hole No: TCU90-23
Azimuth: 171.9
Core Size: BQ
Drill Name: Underground
Date Logged: October 5, 1990
Logged By: M.J. Casselmen & R.J. Aulis

Client: REDFERN RESOURCES LTD.
Dip: -80.6
Contractor: Coates

Property: Tulsequah Chief
Length (m): 822.66
Started: August 8, 1990
Completed: September 5, 1990
Date Re-logged: July 28, 1992
Re-logged By: G.L. Dawson

Claim:
Elevation: (metres) 113.52
Recovery: Good
Report Printed: 9 Feb, 1993 4:22am

Co-ords: N: 15544.86
(metres) E: 10597.40
Purpose: To test the downdip extent of new 'H' lens.

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	171.9	-80.6															
3.0	171.9	-80.6	143.3	174.8	-79.7	283.5	177.2	-82.5	423.7	179.0	-83.6	563.9	180.3	-83.8	704.1	180.8	-84.3
9.1	172.0	-80.5	149.4	174.8	-79.7	289.6	177.3	-82.7	429.8	179.1	-83.8	570.0	180.4	-84.2	710.2	180.9	-84.3
12.2	172.1	-80.6	152.4	174.8	-79.7	292.6	177.4	-82.7	432.8	179.3	-83.7	573.0	180.5	-84.3	713.2	180.9	-84.3
15.2	172.2	-80.5	155.4	174.9	-79.8	295.7	177.3	-82.8	435.9	179.3	-83.8	576.1	180.5	-84.3	716.3	180.8	-84.3
18.3	172.2	-80.5	158.5	174.8	-79.9	298.7	177.4	-82.9	438.9	179.4	-83.9	579.1	180.5	-84.3	719.3	180.8	-84.3
21.3	172.2	-80.5	161.5	174.9	-80.0	301.8	177.4	-82.9	442.0	179.5	-83.9	582.2	180.5	-84.3	722.4	180.8	-84.3
24.4	172.3	-80.5	164.6	174.8	-80.1	304.8	177.5	-82.8	445.0	179.3	-84.2	585.2	180.6	-84.4	725.4	180.8	-84.3
27.4	172.5	-80.3	167.6	174.8	-80.1	307.9	177.5	-82.8	448.1	179.3	-84.5	588.3	180.8	-84.5	728.5	180.6	-84.2
30.5	172.6	-80.5	170.7	174.6	-80.2	310.9	177.5	-82.8	451.1	179.0	-84.4	591.3	180.6	-84.4	731.5	180.6	-84.2
33.5	172.7	-80.2	173.7	174.5	-80.3	313.9	177.5	-82.8	454.1	179.1	-84.2	594.4	180.5	-84.3	734.6	180.5	-84.3
36.6	172.8	-80.2	176.8	174.6	-80.5	317.0	177.6	-82.9	457.2	179.1	-84.3	597.4	180.5	-84.3	737.6	180.6	-84.3
39.6	172.9	-80.1	179.8	174.8	-80.6	320.0	177.6	-82.9	460.3	179.0	-84.3	600.5	180.6	-84.2	740.7	180.8	-84.3
42.7	173.0	-80.0	182.9	174.9	-80.7	323.1	177.6	-83.0	463.3	179.0	-84.2	603.5	180.8	-84.0	743.7	180.6	-84.2
45.7	173.1	-79.9	185.9	174.8	-80.9	326.1	177.6	-83.1	466.3	179.0	-84.2	606.5	180.8	-84.2	746.8	180.5	-84.2
48.8	173.1	-79.9	189.0	174.9	-81.0	329.2	177.6	-83.0	469.4	179.0	-84.0	609.6	180.8	-84.3	749.8	180.6	-84.3
51.8	173.3	-79.8	192.0	175.0	-81.2	332.2	177.6	-83.0	472.4	179.1	-83.9	612.7	180.8	-84.2	752.9	180.5	-84.4
54.9	173.4	-79.7	195.1	175.0	-81.2	335.3	177.8	-83.1	475.5	179.3	-83.8	615.7	180.6	-84.0	755.9	180.5	-84.4
57.9	173.4	-79.7	198.1	175.1	-81.4	338.3	177.8	-83.3	478.5	179.3	-83.8	618.7	180.5	-83.8	759.0	180.6	-84.5
61.0	173.5	-79.8	201.2	175.2	-81.5	341.4	177.9	-83.5	481.6	179.1	-83.9	621.8	180.4	-83.7	762.0	180.5	-84.4
64.0	173.5	-79.9	204.2	175.3	-81.6	344.4	177.8	-83.5	484.6	179.0	-83.9	624.8	180.4	-83.6	765.0	180.6	-84.3
67.1	173.6	-79.9	207.3	175.5	-81.7	347.5	177.9	-83.3	487.7	178.9	-83.9	627.9	180.5	-83.5	768.1	180.8	-84.3
70.1	173.6	-79.9	210.3	175.6	-81.8	350.5	177.8	-83.2	490.7	179.0	-83.8	630.9	180.5	-83.5	771.1	180.9	-84.3
73.2	173.6	-80.0	213.4	175.7	-82.0	353.6	177.6	-83.1	493.8	179.1	-83.8	634.0	180.5	-83.7	774.2	180.9	-84.3
76.2	173.6	-80.0	216.4	175.9	-82.1	356.6	177.6	-83.1	496.8	179.3	-83.7	637.0	180.6	-83.8	777.2	180.9	-84.3
79.3	173.6	-80.0	219.5	176.0	-82.0	359.7	177.8	-83.0	499.9	179.4	-83.8	640.1	180.8	-83.9	780.3	180.9	-84.3
82.3	173.6	-80.0	222.5	176.1	-82.1	362.7	177.8	-83.0	502.9	179.5	-83.9	643.1	180.6	-83.8	783.3	180.8	-84.0
85.3	173.5	-80.1	225.6	176.3	-82.1	365.8	177.9	-82.9	506.0	179.6	-83.8	646.2	180.5	-83.7	786.4	180.8	-84.2
88.4	173.5	-80.1	228.6	176.4	-82.2	368.8	177.9	-82.8	509.0	179.6	-83.9	649.2	180.4	-83.9	789.4	180.8	-84.2
91.4	173.6	-80.2	231.6	176.4	-82.2	371.9	178.0	-82.8	512.1	179.8	-83.7	652.3	180.4	-84.2	792.5	181.0	-84.4
94.5	173.6	-80.2	234.7	176.4	-82.2	374.9	178.0	-82.8	515.1	179.8	-83.7	655.3	180.5	-84.3	795.5	181.1	-84.5
97.5	173.7	-80.1	237.7	176.4	-82.1	378.0	178.1	-82.7	518.2	179.8	-83.5	658.4	180.4	-84.4	798.6	181.1	-84.6

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
100.6	173.8	-80.0	240.8	176.5	-82.2	381.0	178.2	-82.5	521.2	180.0	-83.5	661.4	180.4	-84.4	801.6	181.1	-84.6
103.6	174.0	-80.0	243.8	176.6	-82.3	384.0	178.3	-82.4	524.3	180.0	-83.5	664.5	180.4	-84.3	804.7	181.2	-84.7
106.7	174.0	-80.0	246.9	176.6	-82.3	387.1	178.5	-82.3	527.3	180.0	-83.5	667.5	180.4	-84.2	807.7	181.1	-84.7
109.7	174.1	-80.0	249.9	176.7	-82.3	390.1	178.6	-82.4	530.3	180.1	-83.5	670.6	180.4	-84.2	810.8	181.1	-84.6
112.8	174.2	-79.9	253.0	176.7	-82.3	393.2	178.7	-82.5	533.4	180.0	-83.5	673.6	180.4	-84.2	813.8	181.0	-84.7
115.8	174.3	-79.8	256.0	176.7	-82.3	396.2	178.8	-82.7	536.5	180.0	-83.3	676.7	180.4	-84.3	816.9	181.0	-84.7
118.9	174.4	-79.7	259.1	176.8	-82.3	399.3	178.8	-82.8	539.5	180.1	-83.2	679.7	180.5	-84.2	819.9	181.0	-84.7
121.9	174.4	-79.7	262.1	176.8	-82.3	402.3	178.8	-82.9	542.5	180.2	-83.3	682.8	180.5	-84.2	823.0	180.9	-84.8
125.0	174.4	-79.8	265.2	176.8	-82.3	405.4	178.9	-83.0	545.6	180.3	-83.5	685.8	180.5	-84.2	826.0	181.0	-85.0
128.0	174.5	-79.8	268.2	177.0	-82.3	408.4	179.0	-83.1	548.6	180.3	-83.5	688.8	180.5	-84.2	829.1	181.0	-85.0
131.1	174.6	-79.8	271.3	177.1	-82.3	411.5	179.0	-83.2	551.7	180.2	-83.3	691.9	180.5	-84.3	832.1	181.0	-84.8
134.1	174.6	-79.8	274.3	177.1	-82.3	414.5	179.1	-83.3	554.7	180.1	-83.5	694.9	180.6	-84.2	835.2	181.0	-85.0
137.2	174.6	-79.8	277.4	177.1	-82.5	417.6	179.0	-83.3	557.8	180.1	-83.6	698.0	180.6	-84.2	838.2	181.2	-85.2
140.2	174.8	-79.7	280.4	177.1	-82.4	420.6	179.1	-83.5	560.8	180.2	-83.7	701.0	180.6	-84.2	841.3	181.2	-85.1

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	1.83	CASING										
1.83	68.40	BASALT UNDIFFERENTIATED: Dark green, fine grained to aphanitic, undifferentiated basalt; some feldspar phyric sections. Feldspar crystals subhedral to euhedral, 1-2 mm diameter, and in part altered to epidote and chlorite. Chlorite + epidote + pyrite veinlets with albite + quartz envelopes. 33.80 41.12 Pervasive albite + quartz altered zone with fracture controlled chlorite + epidote + pyrite + hematite veinlets. Section is brecciated with chlorite slips and re-cemented by albite + quartz. 51.12 Pale green fracture controlled silica envelopes cutting dark brown biotite hornfelsed basalt flow. 58.60 68.40 Massive, dark green feldspar phyric basalt flow; feldspar phenocrysts 1-4 mm long, subhedral-euhedral and partly altered to chlorite + epidote.	R9011312 R9011313 R9011314 R9011315 R9011316	33.83 35.05 36.58 38.10 39.62	35.05 36.58 38.10 39.62 41.15	1.22 1.52 1.52 1.52 1.52						
68.40	92.70	VOLCANIC SEDIMENTS: Faintly laminated, brownish green, biotite altered ash tuff and tuffaceous argillite. Chlorite veinlets with silica envelopes. Bedding @ 35 degrees to C.A.										
92.70	141.71	BASALT UNDIFFERENTIATED: Dark green, fine grained undifferentiated basalt, in part feldspar phyric. Unit is hard throughout section -- silicified (?). Rare chlorite + epidote veinlets. 98.00 100.65 Brown biotite altered basalt ash tuff; some chlorite + epidote + albite fracture envelopes.										
141.71	154.00	BASALT UNDIFFERENTIATED: Medium green, fine to medium grained, amphibole (1-4mm) + feldspar (<1mm) phyric, undifferentiated basalt. Pervasive chlorite + epidote + sericite alteration.										
154.00	168.20	BASALT FLOW: Dark brownish green, aphanitic to fine grained, basalt flow. Weak biotite hornfels cut by veinlets of pale green silica.										
168.20	186.75	BASALT UNDIFFERENTIATED: Similar to 141.71 - 154.00, some amphibole +/- feldspar phyric sections.										
186.75	237.00	BASALT UNDIFFERENTIATED: Dark green and brownish green, aphanitic to fine grained, undifferentiated basalt; some feldspar (1-2mm) phyric sections. Variable biotite altered sections cut by pale green silica. Numerous quartz + chlorite + epidote + hematite veinlets.	R9011317	236.98	238.66	1.68						

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
237.00	249.00	FAULT Brecciated quartz + albite + epidote + chlorite + brown carbonate + fuchite altered basalt flow; some sections of clay gouge.	R9011318	238.66	240.18	1.52						
			R9011319	240.18	241.71	1.52						
			R9011320	241.71	243.23	1.52						
			R9011321	243.23	244.15	.92						
			R9011322	244.15	245.36	1.22						
			R9011323	245.36	246.89	1.52						
			R9011324	246.89	248.11	1.22						
			R9011325	248.11	249.48	1.37						
249.00	386.00	BASALT FLOW: Similar to 186.75 to 237.00 metres. 279.90 294.30 VOLCANIC SEDIMENTS: Purplish brown, fine grained to aphanitic, biotite altered basalt tuff and tuffaceous argillite cut by fracture controlled veinlets of chlorite + epidote + pyrite with envelopes of albite and quartz.										
386.00	391.80	VOLCANIC SEDIMENTS: BIOTITIC Laminated to bedded, purplish brown, biotite altered ash tuff and tuffaceous argillite. Chlorite + epidote + calcite ± garnet veinlets with albite + quartz envelopes. Bedding @ 40 degrees to C.A.										
391.80	398.25	BASALT LAPILLI TUFF: Faintly layered, medium green, propylitically altered, heterolithic basalt lapilli tuff.										
398.25	409.00	VOLCANIC SEDIMENTS: Similar to 386.00 - 391.80 metres. Bedding @ 30 degrees to C.A.										
409.00	470.20	DACITE ASH TUFF: Faintly laminated, greenish grey and maroon, feldspar ± quartz dacite ash and lapilli. Chlorite + epidote veinlets with envelopes of albite and quartz. 409.00 412.00 Sheared and brecciated sericite + chlorite + quartz + carbonate altered dacite ash tuff. 412.00 419.30 Weakly laminated greenish maroon dacite ash tuff containing abundant parallel aligned hematitic (red) glass shards up to 1 cm long. 419.30 423.67 Massive, dark green aphanitic basalt dyke; unit cut by fracture controlled pale green epidote.										
470.20	558.65	BASALT UNDIFFERENTIATED: BIOTITIC CORDIERITE Dark green, fine grained to aphanitic, undifferentiated basalt. Some sections of weak biotite and cordierite (1-2mm) alteration. Pale coloured silicified or albitized sections.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
558.65	635.50	DACITE ASH TUFF: Massive, greenish grey and maroon, feldspar (1-3mm) +/- quartz (<1mm) phyric ash, crystal and lapilli tuff. Chlorite + epidote veinlets with envelopes of albite + quartz that grades into zones of pervasive albite + quartz. 560.63 565.70 BASALTIC DYKE: Very massive, dark green to black aphanitic basalt dyke; these units look similar to basalt flow above. 572.70 595.27 BASALTIC DYKE: Similar to 560.63 to 562.33 m. 595.70 595.80 BASALTIC DYKE: Similar to 560.63 to 562.33 m.	R9009949	630.33	631.70	1.37			.02	<.01	.02	66601
			R9009950	631.70	634.08	2.38			<.01	<.01	<.01	66602
			R9009951	634.08	635.51	1.43			<.01	<.01	.07	66603
635.50	645.70	ZINC FACIES: SERICITIC , WITH DISSEMINATED SPHALERITE Weakly aligned, white and buff, pebble size clasts (0.5-3cm) of feldspar phyric dacite, sulphides and chert in a fine grained sericite altered ash tuff matrix (debris flow ?); matrix also includes chert, barite and sulphides. Sulphides include sphalerite (10%), galena (1-2%), chalcopyrite (<1%), pyrite and trace tetrahedrite. 638.25 642.10 0.	R9009952	635.51	637.03	1.52	.07	2.45	.40	1.78	4.85	66604
			ZAY	635.51	662.79	27.28						
			R9009953	637.03	638.25	1.22	.07	2.49	.63	1.27	8.35	66605
			R9009954	638.25	639.78	1.52	.02	.43	.10	.21	.89	66606
			R9009955	639.78	640.99	1.22	.33	3.76	.11	.65	.69	66607
			R9009956	640.99	642.06	1.07	.11	1.77	.05	.19	.16	66608
			R9009957	642.06	643.74	1.68	.13	3.52	.56	1.14	4.39	66609
			R9009959	643.74	644.65	.91	.16	9.83	.93	4.53	14.29	66610
			R9009960	644.65	645.72	1.07	.19	10.78	1.37	4.45	12.44	66611
645.70	662.79	ZINC FACIES: Thinly banded sphalerite, pyrite, chalcopyrite and sericite altered tuff; disseminations and clots of galena, tetrahedrite, quartz and barite. Some breccia zones (debris flow) and small scale folds observed.	R9009961	645.72	647.09	1.37	.14	6.09	1.07	1.08	5.40	66612
			R9009962	647.09	648.01	.91	.02	.44	.13	.09	.86	66613
			R9009963	648.01	648.61	.61	.00	.11	.03	.02	.03	66614
			R9009964	648.61	649.99	1.37	.09	6.25	.97	.93	3.65	66615
			R9009965	649.99	651.51	1.52	.34	12.82	3.43	.34	1.38	66616
			R9009966	651.51	652.27	.76	.26	13.99	5.98	.10	.83	66617
			R9009967	652.27	653.80	1.52	.07	5.62	2.24	1.08	7.92	66618
			R9009968	653.80	655.32	1.52	.09	2.91	1.64	.47	3.95	66619
			R9009969	655.32	656.84	1.52	.06	3.27	1.36	1.00	6.07	66620
			R9009970	656.84	658.37	1.52	.09	3.32	1.11	1.15	7.21	66621
			R9009971	658.37	659.28	.91	.09	3.89	1.13	.78	5.30	66622
			R9009972	659.28	660.20	.92	.13	3.38	.19	3.61	16.80	66623
			R9009973	660.20	661.11	.91	.10	5.21	.77	.70	8.51	66624
			R9009974	661.11	662.03	.91	.06	1.98	.67	.59	4.80	66625
			R9009975	662.03	662.79	.76	.09	4.20	3.38	.88	9.85	66626
			R9009976	662.79	663.85	1.07			.15	<.01	.08	66277
662.79	822.66	BASALT FLOW: Dark green to black, fine grained to aphanitic basalt flow; some amphibole phyric sections. Minor flow breccia and interflow ash tuff. Foliated zones (10-30 cm) where amphibole is stretched into 'wispy' grains. Chlorite + epidote ± garnet veinlets with envelopes of albite and quartz; sections of pervasive silica and/or albite alteration. Upper contact is hematitic over 1.0 metre. 713.00 714.46 Quartz + albite altered basalt fault breccia healed by	R9011809	663.85	665.23	1.37						66628
			R9011810	665.23	666.60	1.37						66629

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		chlorite + epidote; altered clasts are angular, <1cm diameter and clast supported.										
	786.38 822.66	FAULT Numerous(10-50 cm) fault zones consisting of ground unaltered basalt.										
822.66		EOH										

Hole No: TCU90-23
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.86
(metres) E: 10597.40

Azimuth: 171.9
Dip: -80.6
Length (m): 822.66
Elevation: 113.52 (metres)
Purpose: To test the downdip extent of new 'H' lens.

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: August 8, 1990
Completed: September 5, 1990
Recovery: Good

Date Logged: October 5, 1990
Logged By: M.J. Casselmen & R.J. Aultis
Date Re-logged: July 28, 1992
Re-logged By: G.L. Dawson
Report Printed: 19 Feb, 1993 10:04pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9011312	33.83	35.05	1.22		.00						<10	.6	64	165	154						
R9011313	35.05	36.58	1.52		.00						<10	<.4	47	95	438						
R9011314	36.58	38.10	1.52		.00						<10	<.4	19	163	433						
R9011315	38.10	39.62	1.52		.00						<10	<.4	32	50	137						
R9011316	39.62	41.15	1.52		.00						<10	<.4	86	22	262						
R9011317	236.98	238.66	1.68		.00						<10	<.4	22	14	115						
R9011318	238.66	240.18	1.52		.00						<10	<.4	51	21	115						
R9011319	240.18	241.71	1.52		.00						<10	1.8	93	21	89						
R9011320	241.71	243.23	1.52		.00						<10	1.2	63	9	83						
R9011321	243.23	244.15	.92		.00						<10	.7	94	26	66						
R9011322	244.15	245.36	1.22		.00						<10	<.4	39	11	112						
R9011323	245.36	246.89	1.52		.00						<10	1.4	97	180	145						
R9011324	246.89	248.11	1.22		.00						<10	<.4	40	47	74						
R9011325	248.11	249.48	1.37		.00						<10	<.4	21	11	80						
R9009949	630.33	631.70	1.37		.38			.02	<.01	.02	<10	<.4	15	4	97						
R9009950	631.70	634.08	2.38		.00			<.01	<.01	<.01	<10	<.4	3	6	46						
R9009951	634.08	635.51	1.43		.45			<.01	<.01	.07	<10	<.4	37	27	358						
R9009952	635.51	637.03	1.52	3.01	71.30	.06	2.19	.40	1.78	4.85	1164	66.8	3680	>17100	>44400						
R9009953	637.03	638.25	1.22	3.25	97.28	.07	2.22	.63	1.27	8.35	1912	66.4	6420	>11600	>73100						
R9009954	638.25	639.78	1.52	3.04	15.59	.02	.38	.10	.21	.89	680	12.8	741	1860	9070						
R9009955	639.78	640.99	1.22	2.81	129.67	.30	3.36	.11	.65	.69	>10973	>110.0	967	6400	7110						
R9009956	640.99	642.06	1.07	2.83	42.42	.09	1.58	.05	.19	.16	4263	47.3	471	2020	1160						
R9009957	642.06	643.74	1.68	3.04	90.63	.11	3.14	.56	1.14	4.39	3520	98.3	5750	9500	>42300						
R9009959	643.74	644.65	.91	4.06	199.47	.14	8.78	.93	4.53	14.29	4320	>303.5	9410	>52500	>48000						
R9009960	644.65	645.72	1.07	3.90	204.03	.17	9.63	1.37	4.45	12.44	5820	>402.5	>13500	>46400	>19000		2292		1010		
R9009961	645.72	647.09	1.37	3.60	114.04	.12	5.44	1.07	1.08	5.40	4260	>158.0	9820	>9300	>48300						
R9009962	647.09	648.01	.91	3.11	15.40	.02	.39	.13	.09	.86	300	10.3	978	913	8480						
R9009963	648.01	648.61	.61	3.26	.94	.00	.10	.03	.02	.03	180	3.0	105	208	171						
R9009964	648.61	649.99	1.37	3.38	85.48	.08	5.58	.97	.93	3.65	2510	>166.0	9080	9590	>35800						
R9009965	649.99	651.51	1.52	3.11	202.12	.31	11.44	3.43	.34	1.38	>16640	>367.0	>31300	3810	>13300						
R9009966	651.51	652.27	.76	3.90	204.18	.23	12.49	5.98	.10	.83	9560	>377.0	>65800	>1300	9700						

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9009967	652.27	653.80	1.52	3.59	121.67	.06	5.02	2.24	1.08	7.92	1684	>162.0	>23000	>12600	>59000						
R9009968	653.80	655.32	1.52	3.85	83.76	.08	2.60	1.64	.47	3.95	1668	72.3	>17200	5430	>42200						
R9009969	655.32	656.84	1.52	3.24	88.80	.06	2.92	1.36	1.00	6.07	2000	82.9	>15900	>10500	>56600						
R9009970	656.84	658.37	1.52	3.48	104.52	.08	2.96	1.11	.15	7.21	1582	82.1	9900	>10600	>54100						
R9009971	658.37	659.28	.91	3.37	90.20	.08	3.47	1.13	.78	5.30	2440	>100.0	9400	7500	>48200						
R9009972	659.28	660.20	.92	3.29	176.65	.12	3.02	.19	3.61	16.80	1692	98.8	1650	>44050	>54000						
R9009973	660.20	661.11	.91	3.76	113.85	.09	4.66	.77	.70	8.51	2020	>145.0	7360	7890	>60900		3075		620		
R9009974	661.11	662.03	.91	3.46	65.30	.05	1.77	.67	.59	4.80	1400	49.4	7040	5070	>45800						
R9009975	662.03	662.79	.76	3.56	148.70	.08	3.75	3.38	.88	9.85	2200	>100.3	>34000	8510	>95000						
R9009976	662.79	663.85	1.07		2.37			.15	<.01	.08	86	7.1	1200	97	532						
R9011809	663.85	665.23	1.37		.00						<10	.4	12	29	104						
R9011810	665.23	666.60	1.37		.00						<10	<.4	51	24	76						

Hole No: TCU90-24
Client: REDFERN RESOURCES L...
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.61
(metres) E: 10596.64

Azimuth: 196.9
Dip: -76.4
Length (m): 892.45
Elevation: 113.77
(metres)

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: September 6, 1990
Completed: September 26, 1990
Recovery: Good

Purpose: To test the downdip extension of the H + AB lens.

Date Logged: September 8, 1990
Logged By: S.W.S.
Date Re-logged: July 30, 1992
Re-logged By: G.L. Dawson
Report Printed: 9 Feb, 1993 4:22am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	196.9	-76.4															
3.0	196.9	-76.4	152.3	198.5	-76.8	301.5	204.9	-77.6	450.8	204.2	-79.1	600.1	203.5	-79.4	749.3	206.7	-80.1
9.1	196.6	-76.4	158.4	199.1	-76.8	307.6	204.9	-77.7	456.9	204.6	-79.2	606.2	203.5	-79.5	755.4	207.1	-80.2
12.2	196.6	-76.4	161.4	199.4	-76.8	310.7	205.3	-77.8	460.0	205.0	-79.2	609.2	203.5	-79.5	758.5	207.1	-80.2
15.2	196.6	-76.4	164.5	199.7	-76.8	313.7	205.3	-77.8	463.0	205.0	-79.3	612.3	203.5	-79.5	761.5	207.5	-80.3
18.3	196.6	-76.4	167.5	199.7	-76.8	316.8	205.6	-77.9	466.0	205.4	-79.3	615.3	203.5	-79.5	764.5	207.1	-80.4
21.3	196.6	-76.4	170.6	200.0	-76.8	319.8	205.6	-77.9	469.1	205.4	-79.2	618.3	203.5	-79.5	767.6	207.5	-80.4
24.4	196.6	-76.4	173.6	200.3	-76.7	322.9	205.6	-77.9	472.1	205.8	-79.2	621.4	203.5	-79.5	770.6	207.5	-80.5
27.4	196.9	-76.4	176.7	200.3	-76.7	325.9	205.6	-77.9	475.2	205.4	-79.2	624.4	203.5	-79.6	773.7	207.1	-80.5
30.5	196.9	-76.4	179.7	200.6	-76.7	329.0	205.6	-77.9	478.2	205.4	-79.2	627.5	203.5	-79.6	776.7	207.1	-80.5
33.5	196.6	-76.4	182.8	200.9	-76.7	332.0	205.3	-78.0	481.3	205.4	-79.1	630.5	203.5	-79.6	779.8	207.5	-80.5
36.5	196.6	-76.4	185.8	200.9	-76.7	335.1	205.3	-77.9	484.3	205.4	-79.1	633.6	203.5	-79.6	782.8	207.5	-80.5
39.6	196.6	-76.4	188.9	201.2	-76.6	338.1	205.3	-78.0	487.4	205.4	-79.1	636.6	203.5	-79.6	785.9	207.5	-80.5
42.6	196.9	-76.4	191.9	201.2	-76.7	341.1	205.3	-78.2	490.4	205.0	-79.1	639.7	203.5	-79.6	788.9	207.5	-80.5
45.7	197.2	-76.4	194.9	201.5	-76.7	344.2	205.3	-78.2	493.5	204.6	-79.1	642.7	203.5	-79.6	792.0	207.5	-80.6
48.7	197.5	-76.3	198.0	201.5	-76.7	347.2	205.3	-78.3	496.5	204.6	-79.1	645.8	203.5	-79.6	795.0	208.0	-80.5
51.8	197.5	-76.3	201.0	201.5	-76.8	350.3	204.9	-78.3	499.5	204.6	-79.1	648.8	203.5	-79.6	798.0	208.0	-80.6
54.8	197.5	-76.3	204.1	201.8	-76.8	353.3	204.6	-78.2	502.6	204.6	-79.1	651.8	203.5	-79.6	801.1	208.0	-80.6
57.9	197.5	-76.3	207.1	201.8	-76.8	356.4	204.6	-78.2	505.6	204.6	-79.1	654.9	203.5	-79.6	804.1	208.0	-80.6
60.9	197.5	-76.3	210.2	202.1	-76.8	359.4	204.6	-78.3	508.7	204.6	-79.1	657.9	203.5	-79.6	807.2	208.0	-80.6
64.0	197.5	-76.3	213.2	202.5	-76.8	362.5	204.6	-78.3	511.7	204.6	-79.1	661.0	203.5	-79.6	810.2	208.0	-80.7
67.0	197.5	-76.3	216.3	202.8	-76.8	365.5	204.2	-78.3	514.8	204.6	-79.1	664.0	203.5	-79.6	813.3	207.5	-80.9
70.1	197.5	-76.3	219.3	203.1	-76.7	368.6	203.9	-78.4	517.8	204.6	-79.1	667.1	203.5	-79.7	816.3	208.0	-81.0
73.1	197.5	-76.4	222.4	203.4	-76.6	371.6	203.9	-78.5	520.9	205.0	-79.1	670.1	203.9	-79.7	819.4	208.0	-81.0
76.2	197.2	-76.4	225.4	203.7	-76.6	374.7	203.9	-78.6	523.9	205.0	-79.1	673.2	203.9	-79.6	822.4	208.0	-81.2
79.2	197.2	-76.4	228.4	204.0	-76.6	377.7	203.9	-78.6	527.0	205.0	-79.1	676.2	204.3	-79.6	825.5	208.4	-81.3
82.2	196.9	-76.4	231.5	204.0	-76.8	380.8	203.9	-78.7	530.0	205.0	-79.1	679.3	204.3	-79.5	828.5	208.9	-81.3
85.3	196.9	-76.4	234.5	204.0	-76.8	383.8	203.9	-78.7	533.0	205.0	-79.2	682.3	204.3	-79.4	831.6	208.9	-81.3
88.3	196.9	-76.4	237.6	204.3	-76.8	386.8	203.9	-78.7	536.1	204.6	-79.3	685.3	204.3	-79.4	834.6	208.9	-81.4
91.4	197.2	-76.4	240.6	204.6	-76.9	389.9	203.5	-78.8	539.1	204.6	-79.3	688.4	204.3	-79.4	837.7	209.4	-81.5
94.4	197.2	-76.4	243.7	204.6	-77.0	392.9	203.9	-78.7	542.2	204.6	-79.4	691.4	204.3	-79.5	840.7	209.4	-81.6
97.5	197.5	-76.4	246.7	204.9	-76.9	396.0	203.9	-78.7	545.2	204.6	-79.4	694.5	204.3	-79.5	843.7	209.4	-81.6

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	196.9	-76.4															
100.5	197.5	-76.4	249.8	204.9	-77.0	399.0	203.9	-78.7	548.3	204.6	-79.4	697.5	204.3	-79.6	846.8	209.4	-81.6
103.6	197.5	-76.4	252.8	204.9	-77.1	402.1	203.5	-78.8	551.3	204.6	-79.4	700.6	204.3	-79.6	849.8	209.4	-81.7
106.6	197.5	-76.4	255.9	204.9	-77.2	405.1	203.5	-78.9	554.4	204.6	-79.4	703.6	204.3	-79.7	852.9	209.4	-81.7
109.7	197.5	-76.4	258.9	204.6	-77.2	408.2	203.5	-79.0	557.4	204.2	-79.4	706.7	204.3	-79.7	855.9	209.4	-81.8
112.7	197.5	-76.5	262.0	204.6	-77.3	411.2	203.5	-79.0	560.5	204.2	-79.4	709.7	204.3	-79.7	859.0	209.4	-81.9
115.8	197.8	-76.5	265.0	204.6	-77.4	414.3	203.5	-79.1	563.5	204.2	-79.4	712.8	204.3	-79.7	862.0	209.4	-81.9
118.8	197.8	-76.5	268.0	204.6	-77.5	417.3	203.5	-79.1	566.6	204.2	-79.4	715.8	204.3	-79.7	865.1	209.4	-81.9
121.8	197.8	-76.6	271.1	204.6	-77.5	420.4	203.9	-79.1	569.6	203.9	-79.4	718.9	204.3	-79.7	868.1	209.4	-81.9
124.9	197.8	-76.6	274.1	204.3	-77.5	423.4	203.9	-79.1	572.7	203.9	-79.4	721.9	204.3	-79.8	871.2	209.4	-81.9
127.9	197.8	-76.6	277.2	204.3	-77.4	426.4	204.2	-79.1	575.7	203.9	-79.4	725.0	204.7	-79.9	874.2	209.4	-81.9
131.0	198.1	-76.7	280.2	204.6	-77.4	429.5	204.2	-79.1	578.7	203.9	-79.4	728.0	205.1	-80.0	877.3	209.4	-81.9
134.0	197.8	-76.7	283.3	204.9	-77.3	432.5	204.2	-79.1	581.8	203.9	-79.4	731.0	205.5	-80.0	880.3	209.4	-81.9
137.1	197.8	-76.7	286.3	204.9	-77.3	435.6	204.2	-79.1	584.8	203.9	-79.4	734.1	205.5	-80.0	883.3	209.4	-81.9
140.1	197.8	-76.8	289.4	204.9	-77.3	438.6	203.9	-79.1	587.9	203.9	-79.4	737.1	205.9	-80.0	886.4	209.4	-81.9
143.2	198.1	-76.8	292.4	204.9	-77.4	441.7	203.9	-79.2	590.9	203.9	-79.4	740.2	205.9	-80.1	889.4	209.4	-81.9
146.2	198.1	-76.8	295.5	204.9	-77.5	444.7	204.2	-79.1	594.0	203.9	-79.4	743.2	206.3	-80.1	892.5	209.4	-81.9
149.3	198.5	-76.8	298.5	204.9	-77.5	447.8	204.2	-79.2	597.0	203.9	-79.4	746.3	206.3	-80.0			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	.76	CASING										
.76	14.32	BASALT FLOW: Medium green, fine grained basalt flow. Minor chlorite + epidote + quartz + calcite veinlets with albite envelopes.										
14.32	19.51	VOLCANIC SEDIMENTS: Faintly laminated, dark green, basalt ash and lapilli tuff; lapilli are heterolithic, <1 cm diameter and matrix supported.										
19.51	26.06	BASALT FLOW: Similar to 0.76 - 14.32 metres.										
26.06	47.24	FAULT Broken core; brecciated chlorite + epidote + quartz + albite altered, fine grained basalt flow cemented by quartz + calcite. Numerous chlorite slips with slickensides.										
47.24	85.94	BASALT FLOW: Medium to dark green, fine grained basalt flow and minor interflow ash tuff; some feldspar +/- amphibole phyric sections. Rare chlorite + epidote + quartz veinlets with albite envelopes; some pervasive silica alteration. 72.24 74.07 Vesicules (<5mm) occur over 30 cm from upper contact.										
85.94	89.92	VOLCANIC SEDIMENTS: BIOTITIC Faintly laminated, biotite altered basalt ash tuff and tuffaceous argillite.										
89.92	251.16	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, dark green, propylitically altered, feldspar (<3mm) +/- amphibole phyric, fine grained basalt. Rare quartz + chlorite + epidote veinlets; zones of pervasive silica alteration. 181.05 189.28 Pale green pervasive epidote + sericite + chlorite + silica altered zone. Some quartz + chlorite + epidote + albite +/- magnetite veinlets.										
251.16	255.42	VOLCANIC SEDIMENTS: BIOTITIC Massive to weakly laminated, brown, biotite altered andesite ash tuff and tuffaceous argillite. Some folded quartz + chlorite + albite veins (1-5cm).										
255.42	260.60	BASALT UNDIFFERENTIATED: Similar to 89.92 - 251.16 metres.										
260.60	273.41	VOLCANIC SEDIMENTS: BIOTITIC										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Similar to 251.62 - 255.42 metres.										
273.41	363.63	BASALT FLOW: Medium to dark green, fine grained basalt flow. Rare quartz + chlorite veinlets.										
363.63	418.40	DACITE LAPILLI TUFF: HEMATITIC Layered, dark green and maroon dacite lapilli tuff. Lapilli consist of: (i) flattened pumaceous clasts (1-3cm)--fiamme, (ii) black glass shards (<1-3cm) and (iii) rare feldspar phyric dacite clasts (1-2cm). Layering @ 50 degrees to core axis. 370.79 371.40 DACITE ASH TUFF: Weakly laminated brick red dacite ash tuff. 396.24 399.44 Faintly laminated, dark green and white, feldspar phyric dacite crystal tuff, rare 1-3 cm long white fiammi. 399.44 401.88 BASALTIC DYKE: Medium green, fine grained, hornblende phyric basalt dyke. 402.34 404.10 BASALTIC DYKE: Similar to 399.44 - 401.88 metres. 415.75 417.27 BASALTIC DYKE: Similar to 399.44 - 401.88 metres.										
418.40	442.36	DACITE TUFF: Green and grey, feldspar crystal (1-3mm) dacite ash and lapilli tuff; minor quartz eyes (<1mm). Lapilli are homolithic, 1 - 4 cm diameter, subangular to subrounded and matrix supported. Chlorite ± epidote fractures with envelopes and irregular zones of pale pink feldspar alteration. 422.76 423.24 BASALTIC DYKE: Similar to 399.44 - 401.88 metres.										
442.36	467.28	VOLCANIC SEDIMENTS: BIOTITIC Faintly laminated, brown, biotite ± cordierite altered basalt ash tuff and tuffaceous argillite. Bedding @ 40° to CA. Chlorite + epidote + pyrite veinlets with albite envelopes cross-cutting biotite alteration.										
467.28	595.94	BASALT UNDIFFERENTIATED: Undifferentiated, medium green to dark green, feldspar (<2mm) phyric, fine grained basalt; in part biotite ± cordierite altered. Chlorite + epidote + quartz ± magnetite veinlets with envelopes of albite and silica. 478.54 487.68 BASALT ASH TUFF: Biotite ± cordierite altered basalt and lapilli tuff; some bluish green siliceous sections. 514.28 522.12 FAULT Broken core with numerous chlorite coated fractures. Bleached greyish green clay altered basalt flow. Chlorite + quartz + calcite ± epidote ± pyrite veinlets. 545.59 548.03 FAULT Similar to 514.28 - 522.12 metres. 563.58 570.28 FAULT Brecciated andesite flow; calcite + quartz + fuchite ± chlorite ± pyrite infilling.	R9012762 R9012763 R9012764 R9012765 R9012766	563.58 564.49 566.01 567.54 569.06	564.49 566.01 567.54 569.06 570.28	.91 1.52 1.52 1.52 1.22						
595.94	608.50	DACITE TUFF: Green and grey, feldspar (1-2mm) crystal dacite tuff and lapilli tuff.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Chlorite + epidote veinlets with envelopes of quartz and albite.										
608.50	623.28	BASALTIC DYKE: Dark green, aphanitic, basalt dyke.										
623.28	675.59	CHERT: SERICITIC , WITH DISSEMINATED PYRITE Weakly laminated to brecciated chert with lesser sericite altered ash tuff, and disseminated and stringer pyrite (15-25%). Disseminated honey coloured sphalerite (5-10%) and galena (2-5%) occurs mainly in the top of the interval (625.45 - 628.50 metres and 630.94 - 631.85 metres). Brecciated sections are interpretted as debris flows. Bedding @ 0-10° to CA. Lower contact gradational. 653.19 655.38 BASALTIC DYKE: Biotite + cordierite (<1cm, altered to biotite + chlorite) altered basalt dyke.	R9012303	624.53	626.06	1.52	.03	3.10	<.01	.18	.42	
			R9012304	626.06	627.28	1.22	.09	11.04	.19	.93	2.49	
			ZAZ	626.06	631.85	5.79						
			R9012305	627.28	628.34	1.07	.21	10.20	.32	2.68	5.09	
			R9012306	628.34	629.72	1.37	.02	.73	<.01	.02	.08	
			R9012307	629.72	630.94	1.22	.04	1.05	.01	.04	.07	
			R9012308	630.94	631.85	.91	.03	2.55	.10	1.70	4.65	
			R9012309	631.85	632.46	.61						
			R9012310	632.46	635.51	3.05						
			R9012311	635.51	637.03	1.52						
			R9012312	637.03	638.25	1.22	.01	.47	.67	.90	2.66	
			R9012313	638.25	639.78	1.52						
			R9012314	639.78	641.30	1.52						
			R9012315	641.30	642.82	1.52						
			R9012316	642.82	644.35	1.52						
			R9012317	644.35	644.65	.30						
			R9012318	644.65	645.87	1.22						
			R9012319	645.87	646.18	.31						
			R9012320	646.18	647.40	1.22						
			R9012321	647.40	648.61	1.22						
			R9012322	648.61	649.99	1.37						
			R9012323	649.99	651.66	1.68						
			R9012324	651.66	653.19	1.52						
			R9012325	653.19	656.08	2.90						
			R9012326	656.08	657.76	1.68						
			R9012327	657.76	659.28	1.52						
			R9012328	659.28	661.72	2.44						
			R9012767	661.72	663.24	1.52						
			R9012768	663.24	664.77	1.52						
			R9012769	664.77	665.38	.61						
			R9012770	665.38	666.90	1.52						
			R9012771	666.90	668.43	1.52						
			R9012772	668.43	669.65	1.22					1.36	
			R9012773	669.65	671.17	1.52						
			R9012774	671.17	672.69	1.52						
			R9012775	672.69	674.22	1.52						
			R9012776	674.22	675.74	1.52						
675.59	680.13	BASALT FLOW: BIOTITIC , WITH DISSEMINATED PYRITE Brown, biotite ± cordierite altered, basalt flow; quartz amygdaloidal in part. Disseminated pyrite (5-10%). Lower contact gradational.	R9012657	675.74	676.66	.91						
			R9012658	676.66	677.57	.91						

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
			R9012659	677.57	678.18	.61						
			R9012660	678.18	680.31	2.13						
680.13	810.77	BASALT FLOW: SILICIFIED , WITH DISSEMINATED PYRITE Grey, silica + sericite altered quartz amygdaloidal (<1cm) basalt flow and minor chert laminae. Disseminated, stringers and clasts of fine grained pyrite (5%) and sphalerite (<1%). 738.84 750.11 BASALT ASH TUFF: Brown, biotite altered, basalt (?) ash tuff section; gradational upper contact. 750.11 752.67 BASALTIC DYKE: Dark green, chloritic, aphanitic to fine grained, basalt dyke. 762.00 765.38 BASALT ASH TUFF: Massive, brown, biotite altered ash tuff. 765.38 767.49 BASALT LAPILLI TUFF: Interlocking breccia of dark green, aphanitic to fine grained, basalt (cuspate oulines <2 cm in diameter) in a grey matrix of sericite altered dacite ash tuff and chert (aquigene tuff ?). 779.74 780.36 BASALTIC DYKE: Dark green, amphibole (<1cm) phyric, aphanitic basalt dyke. 785.16 808.33 Chlorite + sericite altered interval.	R9012661	680.31	681.84	1.52						
			R9012662	681.84	683.36	1.52						
			R9012663	683.36	684.89	1.52						
			R9012664	684.89	686.41	1.52						
			R9012665	686.41	687.93	1.52						
			R9012666	687.93	688.85	.91						
			R9012667	688.85	690.37	1.52						
			R9012668	690.37	691.90	1.52						
			R9012669	691.90	693.42	1.52						
			R9012670	693.42	694.94	1.52						
			R9012671	694.94	696.47	1.52						
			R9012672	696.47	697.99	1.52						
			R9012673	697.99	699.21	1.22						
			R9012674	738.84	740.36	1.52						
			R9012675	740.36	741.88	1.52						
			R9012676	741.88	743.41	1.52						
			R9012677	743.41	744.93	1.52						
			R9012678	744.93	746.46	1.52						
			R9012679	746.46	747.98	1.52						
			R9012680	747.98	749.50	1.52						
			R9012681	749.50	750.27	.76						
			R9012682	762.00	763.52	1.52						
			R9012683	763.52	765.35	1.83						
810.77	822.96	BASALTIC DYKE: Dark green, amphibole ± feldspar phyric, fine grained basalt dyke; pervasive chlorite ± epidote ± sericite alteration.										
822.96	824.60	BASALT FLOW: PROPYLITIC Dark green to black, propylitically altered, fine grained to aphanitic basalt flow. Minor quartz + chlorite veins @ low angle (30°) to CA.										
824.60	827.40	FAULT Brecciated quartz + carbonate vein infilled by chlorite @ 10-30° to CA.										
827.40	830.35	BASALT FLOW: PROPYLITIC Similar to 822.96-824.60 metres. Minor bluish green chlorite + silica veinlets. Lower contact sharp @ 50° to CA.										
830.35	838.33	BASALT FLOW: SILICIFIED Dark grey to black, silica altered, fine grained basalt flow and flow breccia; rare feldspar (<2mm) phyric sections. Quartz ± chlorite ± trace garnet veins (<15cm) @ 60° to CA. Lower contact sharp @ 30° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
838.33	839.55	BASALT ASH TUFF: Weakly foliated (40° to CA), medium green, propylitically altered, basalt ash tuff. Lower contact sharp @ 40° to CA.										
839.55	843.60	BASALT ASH TUFF: SILICIFIED , WITH DISSEMINATED PYRITE Grey, quartz veined, silica + sericite altered basalt ash tuff. Disseminated and stringer pyrite (5%), pyrrhotite (1%), sphalerite (1-2%), and chalcopyrite (<1%). Lower contact sharp @ 50° to CA.										
843.60	872.42	BASALT FLOW: SILICIFIED , WITH DISSEMINATED PYRITE Dark green to black, aphanitic basalt flow and aquigene tuff; breccia clasts (<1cm) are angular and cuspate. Grey chert ± pyrite (1%) infilling breccia; some breccia sections are silicified. White quartz + calcite veins (<15cm) @ 40° to CA. Lower contact irregular. 870.50 872.42 Quartz veined grey silicified section; disseminated and stringer pyrite (2-3%) and trace sphalerite.											
872.42	885.22	BASALT FLOW: Dark green to greyish black, amygdaloidal, fine grained to aphanitic basalt flow. Amygdules (<1cm) are round to oblate and infilled with quartz ± pyrite (<1%). Quartz + calcite ± chlorite veins (<6cm) @ 40° to CA. Lower contact sharp @ 60° to CA. 873.50 873.80 Grey, quartz veined silicified zone with minor disseminated pyrite and sphalerite.										
885.22	887.40	BASALT FLOW: SILICIFIED , WITH STRINGER PYRITE Brownish grey silica + biotite altered basalt flow. Disseminated and stringers of fine grained pyrite (5%). Lower contact sharp @ 30° to CA.										
887.40	892.45	BASALT FLOW: SILICIFIED Greyish black, feldspar (<1mm) phyric, aphanitic, basalt flow; silicified in part. Crenulation cleavage from 890.60-892.45 metres @ 90° to CA.										
892.45		EOH										

Hole No: TCU90-24
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.61
(metres) E: 10596.64

Azimuth: 196.9
Dip: -76.4
Length (m): 892.45
Elevation: 113.77
(metres)
Purpose: To test the downdip extension of the H + AB lens.

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: September 6, 1990
Completed: September 26, 1990
Recovery: Good

Date Logged: September 8, 1990
Logged By: S.W.S.
Date Re-logged: July 30, 1992
Re-logged By: G.L. Dawson
Report Printed: 19 Feb, 1993 10:04pm

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9012762	563.58	564.49	.91		.00						<10	<.4	21	<4	71						
R9012763	564.49	566.01	1.52		.00						<10	<.4	13	<4	101						
R9012764	566.01	567.54	1.52		.00						<10	<.4	47	4	103						
R9012765	567.54	569.06	1.52		.00						<10	<.4	9	4	101						
R9012766	569.06	570.28	1.22		.00						<10	<.4	45	6	85						
R9012303	624.53	626.06	1.52		22.31	.03	2.77	<.01	.18	.42	792	74.2	143	1740	4010						
R9012304	626.06	627.28	1.22	2.81	80.97	.08	9.86	.19	.93	2.49	2640	>329.0	1600	9150	>20300						
R9012305	627.28	628.34	1.07	2.76	144.91	.19	9.11	.32	2.68	5.09	6390	>296.0	2840	>24000	>48400						
R9012306	628.34	629.72	1.37	2.78	9.15	.02	.65	<.01	.02	.08	658	21.2	51	346	774						
R9012307	629.72	630.94	1.22	2.78	16.34	.03	.93	.01	.04	.07	1090	29.2	111	608	861						
R9012308	630.94	631.85	.91	2.83	52.80	.02	2.28	.10	1.70	4.65	784	70.2	898	>17550	>38500						
R9012309	631.85	632.46	.61		.00						250	3.0	55	990	1290						
R9012310	632.46	635.51	3.05		.00						106	2.2	67	399	616						
R9012311	635.51	637.03	1.52		.00						178	1.7	116	555	867						
R9012312	637.03	638.25	1.22	2.94	34.20	.01	.42	.67	.90	2.66	318	13.2	5780	999	>22100						
R9012313	638.25	639.78	1.52		.00						184	4.2	1170	120	229						
R9012314	639.78	641.30	1.52		.00						100	2.4	1190	40	66						
R9012315	641.30	642.82	1.52		.00						192	10.4	2170	98	350						
R9012316	642.82	644.35	1.52		.00						90	1.1	36	139	331						
R9012317	644.35	644.65	.30		.00						580	6.9	8370	65	220						
R9012318	644.65	645.87	1.22		.00						216	2.0	821	62	126						
R9012319	645.87	646.18	.31		.00						86	2.3	1410	20	1200						
R9012320	646.18	647.40	1.22		.00						140	.6	335	36	37						
R9012321	647.40	648.61	1.22		.00						232	1.4	55	40	61						
R9012322	648.61	649.99	1.37		.00						256	2.2	169	39	146						
R9012323	649.99	651.66	1.68		.00						112	1.2	301	11	2400						
R9012324	651.66	653.19	1.52		.00						138	2.2	1760	15	169						
R9012325	653.19	656.08	2.90		.00						40	<.4	84	6	220						
R9012326	656.08	657.76	1.68		.00						174	3.1	417	88	3050						
R9012327	657.76	659.28	1.52		.00						142	3.7	31	30	326						
R9012328	659.28	661.72	2.44		.00						198	3.7	28	138	700						

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9012767	661.72	663.24	1.52		.00						156	4.9	29	78	430						
R9012768	663.24	664.77	1.52		.00						100	1.8	22	31	89						
R9012769	664.77	665.38	.61		.00						40	1.5	40	34	416						
R9012770	665.38	666.90	1.52		.00						236	4.1	475	718	8780						
R9012771	666.90	668.43	1.52		.00						112	.8	97	131	1860						
R9012772	668.43	669.65	1.22		8.73					1.36	242	14.6	3760	54	>12600						
R9012773	669.65	671.17	1.52		.00						52	1.4	190	694	3380						
R9012774	671.17	672.69	1.52		.00						120	2.0	280	292	2600						
R9012775	672.69	674.22	1.52		.00						356	12.7	4170	96	1330						
R9012776	674.22	675.74	1.52		.00						292	13.5	1370	80	1800						
R9012657	675.74	676.66	.91		.00						72	1.1	33	102	422						
R9012658	676.66	677.57	.91		.00						86	2.1	89	131	4090						
R9012659	677.57	678.18	.61		.00						<10	<.4	104	9	744						
R9012660	678.18	680.31	2.13		.00						40	.9	35	126	547						
R9012661	680.31	681.84	1.52		.00						36	2.2	21	85	4300						
R9012662	681.84	683.36	1.52		.00						64	5.9	23	73	5900						
R9012663	683.36	684.89	1.52		.00						28	2.5	16	50	2430						
R9012664	684.89	686.41	1.52		.00						30	1.7	16	15	5710						
R9012665	686.41	687.93	1.52		.00						24	1.3	26	19	509						
R9012666	687.93	688.85	.91		.00						120	3.9	45	39	303						
R9012667	688.85	690.37	1.52		.00						80	15.3	249	23	1240						
R9012668	690.37	691.90	1.52		.00						24	4.7	200	20	2910						
R9012669	691.90	693.42	1.52		.00						24	1.0	95	20	775						
R9012670	693.42	694.94	1.52		.00						32	2.4	62	21	733						
R9012671	694.94	696.47	1.52		.00						40	1.6	54	19	714						
R9012672	696.47	697.99	1.52		.00						58	1.4	87	28	1130						
R9012673	697.99	699.21	1.22		.00						200	4.5	603	60	348						
R9012674	738.84	740.36	1.52		.00						<10	.7	103	15	133						
R9012675	740.36	741.88	1.52		.00						100	1.1	350	35	7550						
R9012676	741.88	743.41	1.52		.00						74	<.4	11	22	241						
R9012677	743.41	744.93	1.52		.00						24	1.6	29	57	4100						
R9012678	744.93	746.46	1.52		.00						44	2.6	104	53	8700						
R9012679	746.46	747.98	1.52		.00						40	2.8	47	125	1070						
R9012680	747.98	749.50	1.52		.00						64	<.4	46	32	440						
R9012681	749.50	750.27	.76		.00						182	.7	46	47	401						
R9012682	762.00	763.52	1.52		.00						<10	<.4	34	10	83						
R9012683	763.52	765.35	1.83		.00						24	.5	65	9	154						

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: TCU90-24 EXTENSION DATE: Sept. 1992

Note: All units are in metres PAGE 1 of 1

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
822.96	825.09	2.13	2.60	122.07%	1.83	85.92%
825.09	828.14	3.05	3.10	101.64%	1.55	50.82%
828.14	831.19	3.05	3.13	102.62%	1.67	54.75%
831.19	834.38	3.19	3.12	97.81%	1.79	56.11%
834.38	837.29	2.91	3.02	103.78%	2.76	94.85%
837.29	840.33	3.04	3.12	102.63%	2.42	79.61%
840.33	843.38	3.05	3.11	101.97%	2.57	84.26%
843.38	846.43	3.05	2.98	97.70%	2.62	85.90%
846.43	849.48	3.05	3.05	100.00%	2.35	77.05%
849.48	852.53	3.05	3.05	100.00%	2.80	91.80%
852.53	855.57	3.04	3.05	100.33%	3.05	100.33%
855.57	858.62	3.05	3.05	100.00%	2.69	88.20%
858.62	861.67	3.05	2.97	97.38%	2.46	80.66%
861.67	864.72	3.05	3.01	98.69%	2.33	76.39%
864.72	867.77	3.05	3.08	100.98%	2.68	87.87%
867.77	870.81	3.04	3.04	100.00%	2.64	86.84%
870.81	873.86	3.05	3.05	100.00%	3.05	100.00%
873.86	876.91	3.05	3.10	101.64%	3.04	99.67%
876.91	879.96	3.05	3.01	98.69%	2.80	91.80%
879.96	883.01	3.05	3.07	100.66%	2.84	93.11%
883.01	886.05	3.04	3.04	100.00%	2.79	91.78%
886.05	889.01	2.96	3.06	103.38%	2.75	92.91%
889.01	892.15	3.14	3.03	96.50%	1.00	31.85%
892.15	892.45	0.30	0.31	103.33%	0.00	0.00%

892.45 END OF HOLE

- Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU90-25
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15523.12
(metres) E: 10601.23

Azimuth: 140.0
Dip: -75.0
Length (m): 667.21
Elevation: 113.32
(metres)
Purpose:

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: September 8, 1990
Completed: September 14, 1990
Recovery: Good

Date Logged: October 9, 1990
Logged By: B.F. Coates
Date Re-logged: August 23, 1992
Re-logged By: G.L. Dawson
Report Printed: 9 Feb, 1993 4:23am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	140.0	-75.0															
3.0	140.0	-75.0	106.7	141.1	-75.7	210.3	143.5	-76.3	313.9	145.1	-77.5	417.6	147.6	-76.7	521.2	149.7	-77.3
9.1	140.1	-75.1	112.8	141.0	-75.8	216.4	143.5	-76.4	320.0	145.4	-77.5	423.7	147.9	-76.7	527.3	149.8	-77.3
12.2	140.1	-75.1	115.8	141.0	-75.8	219.5	143.5	-76.4	323.1	145.5	-77.7	426.7	148.0	-76.7	530.3	149.8	-77.3
15.2	140.1	-75.1	118.9	141.1	-75.7	222.5	143.5	-76.4	326.1	145.6	-77.5	429.8	148.1	-76.7	533.4	149.8	-77.3
18.3	140.1	-75.1	121.9	141.3	-75.6	225.6	143.5	-76.4	329.2	145.6	-77.5	432.8	148.1	-76.7	536.5	149.9	-77.2
21.3	140.1	-75.1	125.0	141.4	-75.5	228.6	143.5	-76.4	332.2	145.6	-77.5	435.9	148.1	-76.7	539.5	149.9	-77.2
24.4	140.4	-75.1	128.0	141.4	-75.5	231.6	143.6	-76.4	335.3	145.5	-77.7	438.9	148.2	-76.8	542.5	149.9	-77.1
27.4	140.4	-75.2	131.1	141.4	-75.5	234.7	143.7	-76.4	338.3	145.8	-77.7	442.0	148.1	-76.7	545.6	149.9	-77.1
30.5	140.4	-75.2	134.1	141.5	-75.3	237.7	143.8	-76.4	341.4	145.9	-77.7	445.0	148.2	-77.0	548.6	15	-77.1
33.5	140.5	-75.2	137.2	141.5	-75.3	240.8	143.8	-76.4	344.4	146.0	-77.4	448.1	148.3	-77.1	551.7	150.3	-77.1
36.6	140.6	-75.1	140.2	141.5	-75.3	243.8	143.8	-76.4	347.5	146.0	-77.2	451.1	148.4	-77.2	554.7	150.4	-77.0
39.6	140.7	-75.3	143.3	141.5	-75.3	246.9	143.8	-76.4	350.5	146.1	-77.1	454.1	148.5	-77.2	557.8	150.3	-77.2
42.7	140.8	-75.2	146.3	141.6	-75.5	249.9	143.8	-76.6	353.6	146.1	-76.8	457.2	148.6	-77.2	560.8	150.3	-77.2
45.7	140.8	-75.3	149.4	141.7	-75.6	253.0	143.8	-76.7	356.6	146.1	-76.8	460.3	148.5	-77.1	563.9	150.3	-77.2
48.8	140.8	-75.3	152.4	141.7	-75.6	256.0	143.8	-76.7	359.7	146.0	-76.8	463.3	148.6	-77.2	566.9	150.4	-77.2
51.8	140.9	-75.3	155.4	141.7	-75.7	259.1	143.9	-77.0	362.7	146.1	-76.8	466.3	148.8	-77.1	570.0	150.3	-77.1
54.9	140.9	-75.5	158.5	141.9	-75.8	262.1	144.0	-77.2	365.8	146.2	-76.8	469.4	148.9	-77.1	573.0	150.4	-77.0
57.9	141.0	-75.6	161.5	142.0	-75.8	265.2	144.0	-77.3	368.8	146.4	-76.8	472.4	149.0	-77.0	576.1	150.5	-77.0
61.0	141.0	-75.7	164.6	142.2	-75.8	268.2	144.1	-77.4	371.9	146.5	-76.7	475.5	149.1	-76.8	579.1	150.6	-76.7
64.0	141.0	-75.7	167.6	142.3	-75.8	271.3	144.3	-77.4	374.9	146.6	-76.6	478.5	149.2	-76.8	582.2	150.6	-76.6
67.1	141.0	-75.7	170.7	142.4	-75.9	274.3	144.1	-77.5	378.0	146.6	-76.5	481.6	149.2	-76.7	585.2	150.7	-76.7
70.1	141.0	-75.7	173.7	142.5	-76.0	277.4	144.1	-77.7	381.0	146.7	-76.7	484.6	149.2	-76.7	588.3	150.9	-76.5
73.2	141.0	-75.7	176.8	142.5	-76.0	280.4	144.3	-77.7	384.0	146.7	-76.7	487.7	149.4	-76.8	591.3	150.9	-76.5
76.2	141.0	-75.7	179.8	142.6	-75.9	283.5	144.4	-77.7	387.1	146.7	-76.7	490.7	149.5	-77.0	594.4	150.9	-76.5
79.3	140.9	-75.7	182.9	142.8	-76.0	286.5	144.5	-77.7	390.1	146.7	-76.7	493.8	149.6	-77.1	597.4	150.9	-76.5
82.3	140.9	-75.7	185.9	142.8	-76.0	289.6	144.6	-77.7	393.2	146.8	-76.7	496.8	149.6	-77.1	600.5	150.9	-76.6
85.3	141.0	-75.8	89.0	142.9	-76.0	292.6	144.7	-77.8	396.2	146.9	-76.7	499.9	149.6	-77.2	603.5	151.0	-76.5
88.4	141.0	-75.8	192.0	143.0	-76.0	295.7	144.9	-77.7	399.3	147.0	-76.7	502.9	149.6	-77.2	606.5	151.1	-76.5
91.4	141.0	-75.8	195.1	143.0	-76.0	298.7	144.9	-77.7	402.3	147.1	-76.6	506.0	149.6	-77.2	609.6	151.2	-76.5
94.5	141.0	-75.7	198.1	143.1	-76.0	301.8	145.0	-77.5	405.4	147.3	-76.6	509.0	149.6	-77.2			
97.5	141.0	-75.7	201.2	143.2	-76.0	304.8	145.0	-77.5	408.4	147.3	-76.6	512.1	149.7	-77.3			
100.6	141.0	-75.6	204.2	143.4	-76.2	307.9	145.0	-77.5	411.5	147.4	-76.7	515.1	149.7	-77.2			
103.6	141.1	-75.7	207.3	143.5	-76.3	310.9	145.0	-77.5	414.5	147.5	-76.7	518.2	149.7	-77.3			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	2.74	CASING										
2.74	10.06	BASALT FLOW: PROPYLITIC Medium green, propylitically altered, fine grained basalt flow. Vein types include: (i) quartz + calcite ± epidote ± chlorite ± pyrite ± chalcopyrite and (ii) prehnite coated fractures (<3mm). Lower contact @ 40° to CA.										
10.06	27.28	VOLCANIC SEDIMENTS: Laminated, pale green to dark grey, propylitically altered, basalt ash tuff, tuffaceous siltstone, argillite, and chert. Graded beds indicate unit is right way-up and varies from 35 to 50° to CA. Vein types include: (i) chlorite ± epidote ± pyrite with albite envelopes (<1cm) and (ii) tan coloured carbonate veinlets. Lower contact @ 50° to CA.										
27.28	39.32	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, medium to dark green, propylitically altered, feldspar (1-2mm) phyric, fine grained basalt. Some chlorite + carbonate + prehnite veinlets. Lower contact irregular.										
39.32	47.93	VOLCANIC SEDIMENTS: BIOTITIC Similar to 10.06 - 27.28 metres; in part biotite altered. Layering @ 25-30° to CA. Lower contact @ 60° to CA.										
47.93	139.75	BASALT FLOW: PROPYLITIC Similar to 27.28 - 39.32 metres, however in part amphibole phyric and minor intervals of flow breccia. Some sections with partially infilled (chlorite) amygdules (<2mm). Vein types include: (i) chlorite ± epidote ± magnetite veinlets, and (ii) bluish green silica envelopes to hairline fractures. 90.52 91.13 BASALT FLOW BRECCIA: Basalt flow breccia infilled by reddish brown (hematitic) volcanic sediment.										
139.75	148.06	BASALT FLOW: SILICIFIED Greenish grey, siliceous, fine grained to aphanitic basalt flow. Some chlorite ± epidote veinlets with albite envelopes (<1cm). Lower contact @ 60° to CA. 139.90 140.82 FAULT Broken and fractured core, minor clay gouge @ 60° to CA.										
148.06	151.18	BASALT ASH TUFF: SERICITIC Foliated, grey to black, sericite + chlorite altered basalt ash tuff; amphibole phyric in part. Weak foliation @ 50° to CA. Lower contact @ 65° to CA.										
151.18	204.83	BASALT FLOW: CHLORITIC										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Dark green, fine grained to aphanitic, chloritic basalt flow and minor flow breccia. Some chlorite + quartz ± pyrite ± magnetite veinlets. Lower contact @ 40° to CA. 159.72 161.24 FAULT Broken and fractured core, minor clay gouge (<2cm). Chlorite slips @ 30° to CA. 180.29 180.44 FAULT Chloritic fault @ 30° to CA.										
204.83	220.98	VOLCANIC SEDIMENTS: BIOTITIC Thinly laminated, brown, ash tuff, tuffaceous argillite, and lesser lapilli tuff; biotite altered in part. Lapilli (<2cm) are pumaceous (fiamme) and glass shards. Minor laminae of red jasper and magnetite-rich sediment. Bedding @ 40° to CA. Lower contact gradational.										
220.98	249.02	DACITE LAPILLI TUFF: HEMATITIC Laminated to bedded, dark grey and maroon, dacite lapilli tuff and ash tuff. Lapilli (1-2cm) are fiamme, glass shards, and feldspar phyric felsic volcanic. Matrix is fine ash tuff with disseminated hematite and magnetite. Minor chert laminae towards bottom of interval. Bedding @ 40 - 50° to CA. Lower contact gradational. 237.74 239.57 FAULT Brecciated zone with envelope of quartz + carbonate alteration; minor clay gouge (2cm) @ 40° to CA.										
249.02	285.90	DACITE LAPILLI TUFF: HEMATITIC Greyish green ± maroon, propylitically altered dacite lapilli tuff. Lapilli (1-4cm) are subrounded and feldspar phyric dacite. Minor layered finer dacite lapilli tuff sections with fiamme. Numerous fine grained to aphanitic basalt dykes (0.30 metres) towards bottom of interval. Lower contact @ 65° to CA.										
285.90	293.60	DACITE FLOW: HEMATITIC Maroon, propylitically altered, feldspar (1-2mm) phyric, fine grained dacite flow. Epidote + chlorite veinlets with albite envelopes. Lower contact @ 60° to CA.										
293.60	329.18	DACITE LAPILLI TUFF: Greyish green ± maroon, propylitically altered dacite lapilli tuff and flow breccia. Breccia and lapilli clasts (1-4cm) are subrounded, feldspar phyric and often selectively albitized. Chlorite + epidote + quartz veins with albite envelopes. Rare prehnite coated fractures. Lower contact brecciated.										
329.18	349.91	DACITE FLOW: HEMATITIC Similar to 285.90 - 293.60 metres. Lower contact @ 80° to CA.										
349.91	356.31	BASALT FLOW: BIOTITIC Dark greenish brown, biotite altered, aphanitic basalt flow or dyke. Bluish green silica envelopes to fractures. Some chlorite + actinolite +										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	from (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		magnetite + pyrite veinlets. Lower contact broken and fractured (chlorite) core.										
356.31	396.85	BASALT UNDIFFERENTIATED: BIOTITIC Medium green and brown, feldspar (<2mm) phyric basalt flow; in part biotite + cordierite altered. Vein types include: (i) chlorite + actinolite + calcite ± magnetite ± pyrite veinlets, and (ii) bluish green silica envelopes to fractures. Lower contact gradational.										
396.85	438.30	BASALT FLOW: Greenish black, propylitically altered, aphanitic to fine grained basalt flow. Vein types include: (i) chlorite + epidote + magnetite veinlets with albite envelopes, and (ii) bluish green silica envelopes to fractures. Lower contact @ 45° to CA. 416.36 418.49 FAULT Crush zone, sandy core @ 40-50° to CA.										
438.30	454.46	DACITE LAPILLI TUFF: PROPYLITIC Faintly layered, greyish green ± maroon, propylitically altered dacite lapilli tuff. Feldspar (1-2mm) phyric dacite clasts (1-5cm) are selectively albitized. Chlorite + epidote veinlets with albite envelopes. Lower contact sharp @ 50° to CA. 445.00 445.16, With STRINGER PYRITE Banded fine grained pyrite + quartz vein @ 50° to CA. 446.07 446.84 Banded quartz + chlorite + pyrite vein @ 50° to CA.	R9012329	454.46	455.07	.61	.16	1.54	.47	.35	19.29	
454.46	455.37	ZINC FACIES: Thinly laminated brown sphalerite (70%), pyrite (20%), and lesser chert and sericite altered tuff (10%). Layering @ 50° to CA.	ZBC	454.46	456.29	1.83						
			R9012330	455.07	456.29	1.22	.10	.69	.96	.10	.98	
455.37	456.29	PYRITE FACIES: Fine to medium grained pyrite (90%) with minor sericite + chlorite + biotite altered tuff bands. Trace chalcopyrite.	R9012631	456.29	457.81	1.52						
456.29	483.41	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Mixed interval of weakly layered sericite + silica altered tuff, wispy chert clasts/lenses, and disseminated and stringer pyrite; trace sphalerite. Minor chlorite + epidote veinlets with albite envelopes. Layering/foliation @ 50° to CA. Lower contact brecciated. 465.12 473.20 DACITE FLOW: Greyish green, propylitically altered, feldspar (1-2mm) phyric fine grained dacite flow and flow breccia. Bottom interval (441.04 - 473.20 metres) strongly silicified (bleached white). 478.54 483.41 Rare, fracture controlled, fine grained acicular black mineral--possibly tourmaline or epidote mineral; sample for XRD.	R9012632	457.81	459.03	1.22						
			R9012633	459.03	460.40	1.37						
			R9012634	460.40	460.86	.46		.80	.76	.01	1.40	
			R9012635	460.86	462.38	1.52						
			R9012636	462.38	463.91	1.52						
			R9012637	463.91	465.13	1.22						
			R9012638	465.13	466.65	1.52						
			R9012639	466.65	468.48	1.83						
			R9012640	468.48	470.00	1.52						
			R9012641	470.00	471.53	1.52						
			R9012642	473.20	474.27	1.07		.81	.49	.12	.54	
			R9012643	474.27	475.79	1.52						
			R9012644	475.79	477.32	1.52						

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
			R9012645	477.32	478.84	1.52						
			R9012646	478.84	480.36	1.52						
			R9012647	480.36	481.89	1.52						
			R9012648	481.89	483.41	1.52						
483.41	489.20	DACITE FLOW: SILICIFIED White, fine grained to aphanitic, strongly silicified dacite flow; rare quartz eyes. Lower contact @ 50° to CA. 484.17 484.63 BASALTIC DYKE: Brown, biotite hornfelsed, fine grained basalt dyke @ 80° to CA infilling fault zone.										
489.20	494.00	BASALT FLOW: BIOTITIC , WITH DISSEMINATED PYRITE Brown, biotite + chlorite + sericite altered quartz amygdaloidal basalt flow; disseminated pyrite (2-3%). Lower contact @ 50° to CA.	R9012649	489.20	490.73	1.52						
			R9012650	490.73	492.25	1.52		.34	.07	.11	.54	
			Z89	490.73	494.84	4.11						
			R9012651	492.25	493.17	.91		.50	.06	.22	.58	
			R9012652	493.17	493.93	.76		.38	.12	.17	.78	
			R9012653	493.93	494.84	.91		.92	.36	.11	.14	
494.00	494.84	PYRITE FACIES: Banded, fine to medium grained pyrite (90%) and minor sphalerite, chert and chlorite + biotite ± sericite altered tuff. Banding and lower contact @ 50° to CA.										
494.84	497.28	BASALT ASH TUFF: BIOTITIC , WITH DISSEMINATED PYRITE Thinly laminated, brown, biotite + chlorite ± sericite altered basalt ash tuff, wispy chert layers, and disseminated to banded pyrite (5-10%). Banding and lower contact @ 40° to CA.	Z90	494.84	497.13	2.29						
			R9012654	494.84	496.37	1.52	.03	1.16	.32	.24	1.40	
			R9012655	496.37	496.67	.30	.02	.73	.51	.17	9.58	
			R9012656	496.67	497.13	.46	.03	1.26	.52	.53	4.16	
497.28	667.21	BASALT FLOW: SILICIFIED Dark green to black, aphanitic to fine grained basalt flow and interflow aquigene tuff. Tuff clasts are angular, in part interlocking, and silicified. Vein types include: (i) quartz + epidote ± chlorite ± magnetite ± garnet veinlets with albite envelopes (<1cm), (ii) prehnite coated fractures, (iii) white barite veins (1-10cm), and (iv) bluish green silicified envelopes to fractures. 620.26 620.88 Quartz, calcite, and lesser epidote and flesh colored garnet vein.										
667.21		EOH										

Hole No: TCU90-25
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15523.12
(metres) E: 10601.23

Azimuth: 140.0
Dip: -75.0
Length (m): 667.21
Elevation: 113.32 (metres)
Purpose:

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: September 8, 1990
Completed: September 14, 1990
Recovery: Good

Date Logged: October 9, 1990
Logged By: B.F. Coates
Date Re-logged: August 23, 1992
Re-logged By: G.L. Dawson
Report Printed: 19 Feb, 1993 10:04pm

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9012329	454.46	455.07	.61	3.99	187.25	.14	1.37	.47	.35	19.29	3240	48.3	3670	401	>60000						
R9012330	455.07	456.29	1.22	3.80	53.46	.09	.62	.96	.10	.98	2580	18.6	7500	190	9400						
R9012631	456.29	457.81	1.52		.00						<10	1.7	120	60	468						
R9012632	457.81	459.03	1.22		.00						60	1.5	43	44	119						
R9012633	459.03	460.40	1.37		.00						24	1.0	177	26	415						
R9012634	460.40	460.86	.46		20.62		.71	.76	.01	1.40	524	21.1	7750	172	>13300						
R9012635	460.86	462.38	1.52		.00						164	2.7	415	165	2740						
R9012636	462.38	463.91	1.52		.00						<10	<.4	33	19	143						
R9012637	463.91	465.13	1.22		.00						<10	<.4	28	15	71						
R9012638	465.13	466.65	1.52		.00						<10	1.3	60	39	65						
R9012639	466.65	468.48	1.83		.00						<10	<.4	11	10	51						
R9012640	468.48	470.00	1.52		.00						<10	.9	23	102	211						
R9012641	470.00	471.53	1.52		.00						<10	<.4	21	18	98						
R9012642	473.20	474.27	1.07		12.15		.72	.49	.12	.54	488	23.1	4250	1180	4990						
R9012643	474.27	475.79	1.52		.00						56	21.3	55	230	930						
R9012644	475.79	477.32	1.52		.00						<10	7.0	10	30	96						
R9012645	477.32	478.84	1.52		.00						72	7.4	9	68	377						
R9012646	478.84	480.36	1.52		.00						74	4.1	13	128	343						
R9012647	480.36	481.89	1.52		.00						28	1.8	4	41	35						
R9012648	481.89	483.41	1.52		.00						24	.9	21	45	101						
R9012649	489.20	490.73	1.52		.00						<10	.9	23	16	416						
R9012650	490.73	492.25	1.52		5.63		.30	.07	.11	.54	212	9.3	643	1170	4930						
R9012651	492.25	493.17	.91		6.58		.45	.06	.22	.58	274	14.6	586	2270	5400						
R9012652	493.17	493.93	.76		8.11		.34	.12	.17	.78	242	11.1	1070	1630	8480						
R9012653	493.93	494.84	.91		8.24		.82	.36	.11	.14	606	25.4	2970	1060	1120						
R9012654	494.84	496.37	1.52	2.85	26.31	.03	1.03	.32	.24	1.40	492	34.6	2770	2360	>12800		122		132		
R9012655	496.37	496.67	.30	3.29	77.52	.02	.65	.51	.17	9.58	444	20.7	4490	1510	>88000						
R9012656	496.67	497.13	.46	2.90	48.40	.03	1.13	.52	.53	4.16	1734	38.8	4740	5300	>39900						

Hole No: TCU90-26
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ordinates (metres) N: 15523.12 E: 10601.23

Azimuth: 124.3
Dip: -81.5
Length (m): 897.00
Elevation (metres): 113.32
Purpose:

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: September 29, 1990; Extension Started Oct. 8, 1992
Completed: October ?, 1990; Extension Completed Oct. 17, 1992.
Recovery: Good

Date Logged: October 12, 1990
Logged By: R.J. Aulis
Date Re-logged: August 27, 1992
Re-logged By: G.L. Dawson
Report Printed: 9 Feb, 1993 4:23am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	124.3	-81.5															
3.1	124.2	-81.4	153.7	127.7	-81.2	304.2	130.9	-81.1	454.8	135.8	-80.8	605.3	140.6	-80.8	755.8	147.3	-80.5
9.4	124.2	-81.3	159.9	127.7	-81.2	310.5	132.0	-81.0	461.0	135.8	-80.8	611.6	140.9	-80.9	762.1	147.9	-80.5
12.6	124.2	-81.2	163.1	127.7	-81.2	313.6	132.0	-80.9	464.2	135.8	-80.8	614.7	140.9	-80.9	765.3	147.9	-80.5
15.7	124.2	-81.1	166.2	127.7	-81.2	316.8	132.0	-80.8	467.3	135.8	-80.8	617.8	141.2	-80.8	768.4	147.9	-80.5
18.8	124.2	-81.0	169.4	127.7	-81.2	319.9	132.0	-80.8	470.5	136.1	-80.8	621.0	141.2	-80.8	771.5	148.3	-80.5
22.0	124.2	-81.0	172.5	128.1	-81.2	323.0	132.3	-80.8	473.6	136.1	-80.8	624.1	141.2	-80.8	774.7	148.3	-80.5
25.1	124.6	-80.9	175.6	128.1	-81.2	326.2	132.3	-80.8	476.7	136.1	-80.8	627.3	141.6	-80.8	777.8	148.3	-80.5
28.2	124.6	-80.9	178.8	128.1	-81.2	329.3	132.3	-80.9	479.9	136.1	-80.8	630.4	141.6	-80.8	780.9	148.6	-80.5
31.4	124.6	-80.9	181.9	128.1	-81.2	332.5	132.3	-80.9	483.0	136.1	-80.8	633.5	141.6	-80.8	784.1	148.9	-80.5
34.5	124.6	-81.0	185.0	128.1	-81.2	335.6	132.3	-80.9	486.1	136.1	-80.8	636.7	141.6	-80.8	787.2	148.9	-80.6
37.6	124.6	-81.0	188.2	128.1	-81.2	338.7	132.3	-80.9	489.3	136.4	-80.8	639.8	141.6	-80.7	790.3	149.3	-80.6
40.8	124.6	-81.1	191.3	128.4	-81.2	341.9	132.3	-80.9	492.4	136.8	-80.8	642.9	141.6	-80.7	793.5	149.6	-80.6
43.9	124.9	-81.1	194.4	128.4	-81.2	345.0	132.3	-80.9	495.5	136.8	-80.8	646.1	141.6	-80.8	796.6	149.6	-80.6
47.0	124.9	-81.1	197.6	128.4	-81.2	348.1	132.3	-80.9	498.7	136.8	-80.9	649.2	141.9	-80.8	799.8	149.6	-80.6
50.2	125.3	-81.0	200.7	128.4	-81.2	351.3	132.7	-80.9	501.8	137.1	-80.9	652.3	141.9	-80.8	802.9	149.9	-80.6
53.3	125.3	-81.0	203.9	128.4	-81.2	354.4	132.7	-80.9	504.9	137.1	-80.9	655.5	142.3	-80.8	806.0	149.9	-80.6
56.5	125.6	-81.0	207.0	128.4	-81.2	357.5	132.7	-80.9	508.1	137.1	-80.8	658.6	142.3	-80.8	809.2	149.9	-80.6
59.6	125.6	-81.0	210.1	128.8	-81.2	360.7	133.0	-80.9	511.2	137.5	-80.8	661.8	142.6	-80.8	812.3	149.9	-80.6
62.7	125.6	-81.0	213.3	128.8	-81.3	363.8	133.4	-80.9	514.3	137.8	-80.8	664.9	142.9	-80.8	815.4	149.9	-80.6
65.9	125.6	-81.0	216.4	128.8	-81.2	367.0	133.4	-80.9	517.5	137.8	-80.8	668.0	142.9	-80.8	818.6	149.9	-80.6
69.0	125.6	-81.0	219.5	128.8	-81.2	370.1	133.4	-80.9	520.6	137.8	-80.8	671.2	142.9	-80.8	821.7	150.3	-80.6
72.1	125.6	-81.0	222.7	128.8	-81.2	373.2	133.7	-80.9	523.8	138.2	-80.8	674.3	143.3	-80.8	824.8	150.3	-80.6
75.3	125.6	-81.0	225.8	129.1	-81.2	376.4	134.1	-81.0	526.9	138.2	-80.8	677.4	143.6	-80.8	828.0	150.6	-80.6
78.4	125.6	-81.0	228.9	129.1	-81.2	379.5	134.1	-81.0	530.0	138.2	-80.8	680.6	143.6	-80.8	831.1	150.6	-80.5
81.5	126.0	-81.0	232.1	129.5	-81.2	382.6	134.4	-81.0	533.2	138.2	-80.8	683.7	144.0	-80.8	834.3	150.9	-80.6
84.7	126.0	-81.0	235.2	129.5	-81.2	385.8	134.7	-81.0	536.3	138.2	-80.8	686.8	144.3	-80.8	837.4	151.3	-80.6
87.8	126.0	-81.0	238.4	129.5	-81.2	388.9	134.7	-81.0	539.4	138.5	-80.8	690.0	144.3	-80.7	840.5	151.3	-80.6
90.9	126.0	-81.0	241.5	129.9	-81.2	392.0	134.7	-80.9	542.6	138.5	-80.8	693.1	144.6	-80.7	843.7	151.6	-80.6
94.1	126.0	-81.0	244.6	129.9	-81.2	395.2	134.7	-80.9	545.7	138.8	-80.8	696.3	145.0	-80.7	846.8	151.6	-80.6
97.2	126.0	-81.0	247.8	129.9	-81.2	398.3	134.7	-80.9	548.8	138.8	-80.8	699.4	145.0	-80.7	849.9	151.6	-80.6

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	124.3	-81.5															
100.4	126.0	-81.0	250.9	129.9	-81.2	401.5	134.7	-80.9	552.0	138.8	-80.8	702.5	145.0	-80.7	853.1	151.9	-80.6
103.5	126.3	-81.0	254.0	129.9	-81.2	404.6	134.7	-80.9	555.1	138.8	-80.8	705.7	145.0	-80.7	856.2	152.3	-80.6
106.6	126.3	-81.0	257.2	129.9	-81.2	407.7	134.7	-80.8	558.3	138.8	-80.8	708.8	145.0	-80.7	859.3	152.6	-80.5
109.8	126.7	-81.0	260.3	129.9	-81.2	410.9	135.1	-80.8	561.4	138.8	-80.8	711.9	145.3	-80.7	862.5	152.9	-80.5
112.9	126.7	-81.0	263.5	129.9	-81.2	414.0	135.1	-80.8	564.5	138.8	-80.8	715.1	145.6	-80.7	865.6	153.2	-80.5
116.0	126.7	-81.0	266.6	129.9	-81.2	417.1	135.4	-80.8	567.7	138.8	-80.8	718.2	145.6	-80.7	868.8	153.6	-80.5
119.2	127.0	-81.0	269.7	129.9	-81.2	420.3	135.8	-80.8	570.8	138.8	-80.8	721.3	145.6	-80.7	871.9	153.6	-80.5
122.3	127.4	-81.1	272.9	129.9	-81.2	423.4	135.8	-80.8	573.9	139.2	-80.8	724.5	145.6	-80.6	875.0	153.6	-80.5
125.4	127.4	-81.1	276.0	129.9	-81.2	426.5	135.8	-80.8	577.1	139.5	-80.8	727.6	146.0	-80.6	878.2	153.6	-80.5
128.6	127.4	-81.1	279.1	129.9	-81.2	429.7	135.8	-80.8	580.2	139.5	-80.8	730.8	146.0	-80.6	881.3	153.6	-80.5
131.7	127.4	-81.1	282.3	130.2	-81.2	432.8	135.8	-80.8	583.3	139.5	-80.8	733.9	146.3	-80.6	884.4	153.6	-80.5
134.9	127.4	-81.1	285.4	130.2	-81.2	436.0	135.8	-80.8	586.5	139.9	-80.8	737.0	146.3	-80.6	887.6	153.6	-80.5
138.0	127.4	-81.1	288.5	130.6	-81.2	439.1	135.8	-80.8	589.6	139.9	-80.9	740.2	146.6	-80.5	890.7	153.9	-80.5
141.1	127.7	-81.1	291.7	130.9	-81.2	442.2	135.8	-80.8	592.8	140.2	-80.9	743.3	147.0	-80.5	893.8	154.2	-80.5
144.3	127.7	-81.2	294.8	130.9	-81.2	445.4	135.8	-80.8	595.9	140.2	-80.8	746.4	147.0	-80.5	897.0	154.6	-80.5
147.4	127.7	-81.2	298.0	130.9	-81.2	448.5	135.8	-80.8	599.0	140.2	-80.9	749.6	147.3	-80.5			
150.5	127.7	-81.2	301.1	130.9	-81.2	451.6	135.8	-80.8	602.2	140.2	-80.8	752.7	147.3	-80.5			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	1.52	CASING										
1.52	11.28	BASALT FLOW: SILICIFIED Dark green, silicified, fine grained basalt flow; amphibole phyric in part. Lower contact @ 50° to CA. Minor prehnite + calcite + chlorite veinlets.										
11.28	30.94	VOLCANIC SEDIMENTS: Laminated, black, tuffaceous argillite and siltstone, and tan to green carbonate + sericite altered basalt ash tuff. Some siliceous or cherty sections. Bedding @ 50° to CA. Some chloritic fractures with albite + silica envelopes (<1cm). 17.83 18.29 FAULT Broken core. Healed brecciated zone with chlorite slips @ 60° to CA. 17.83 22.25 Carbonate ± sericite altered section. 23.47 23.93 FAULT Brecciated section infilled with quartz and minor calcite, pyrite, trace sphalerite @ 20-30° to CA. 28.04 29.57 Broken core; silicified interval.										
30.94	39.62	BASALT FLOW: SILICIFIED Greenish black, silicified, feldspar (1-2mm) phyric, fine grained basalt flow. 35.05 36.27 CHLORITIC Chlorite + sericite + carbonate altered section. 38.71 38.86 FAULT Chlorite + calcite slip @ 30° to CA; clay gouge (3mm).										
39.62	52.04	VOLCANIC SEDIMENTS: Similar to 11.28-30.94 metres; silicified/cherty in part. Bedding @ 50° to CA. Broken and fractured core throughout interval; chlorite slips. 51.74 52.04 FAULT Broken core; clay gouge (3mm) @ 50° to CA.										
52.04	134.72	BASALT UNDIFFERENTIATED: SILICIFIED Dark green to black, propylitically altered, feldspar (1-2mm) phyric, fine grained, undifferentiated basalt; numerous siliceous sections. Rare calcite + prehnite + chlorite veins. Lower interval (approx. 125.58-134.72 metres) finer grained and non-phyric.										
134.72	152.40	BASALT FLOW: Dark green to black, propylitically altered, fine grained to aphanitic basalt flow; pyroxene (?, <3mm) phyric in part. 143.04 143.26 FAULT Broken core; clay gouge (10cm) @ 30° to CA.										
152.40	153.62	FAULT Broken and fractured (chlorite) core; minor clay gouge (1cm) @ 20-30° to CA.										
153.62	161.85	VOLCANIC SEDIMENTS:										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Faintly laminated, dark brown to black, siliceous tuffaceous argillite and siltstone. Randomly orientated chloritic microfractures with silica envelopes. Lower contact @ 55° to CA.										
161.85	170.08	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, medium green, propylitically altered, feldspar (2-5mm) phyric aphanitic basalt. Lower contact @ 60° to CA.										
170.08	179.83	BASALT FLOW: CHLORITIC Greyish green, chlorite + sericite altered, fine grained basalt flow. Lower contact @ 60° to CA.										
179.83	261.52	BASALT FLOW: PROPYLITIC , WITH DISSEMINATED PYRITE Dark green to black, propylitically altered, aphanitic, basalt flow and minor interflow tuffaceous sediments; some siliceous sections. Minor quartz + calcite ± pyrite ± chalcopyrite veins with chlorite + magnetite selvages. 204.83 205.13 Broken core; chlorite slip @ 30° to CA. 207.57 207.87 Broken core; chlorite slip @ 30° to CA.										
261.52	271.27	VOLCANIC SEDIMENTS: Thinly laminated, dark brown to black, tuffaceous argillite, basalt tuff and grey cherty tuff. Volcanic conglomerate towards bottom of interval with clasts of red hematite + magnetite. Bedding @ 35° to CA; tops up (graded beds). Minor chlorite + calcite fractures. Lower contact @ 50° to CA.										
271.27	279.50	BASALT FLOW: CHLORITIC Light green, chlorite + calcite + sericite altered, fine grained basalt flow. Some quartz + calcite + chlorite ± pyrite veinlets. Lower contact broken and ground core.										
279.50	298.09	VOLCANIC SEDIMENTS: Similar to 261.52 - 271.27 metres. Bedding @ 30-40° to CA.										
298.09	307.62	DACITE LAPILLI TUFF: Layered, dark green, chlorite + carbonate altered heterolithic dacite (?) lapilli tuff; minor fiamme. Lower contact @ 60° to CA.										
307.62	308.84	SLOKO RYHOLITE DYKE: Tan to buff, carbonate + pyrite (1%) altered fine grained rhyolite dyke. Lower contact @ 50° to CA.										
308.84	310.80	DACITE LAPILLI TUFF: Similar to 298.19-307.62 metres. Lower contact @ 45° to CA.										
310.80	311.29	BASALTIC DYKE:										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Dark green, aphanitic basalt dyke. Lower contact @ 45° to CA.										
311.29	313.94	DACITE LAPILLI TUFF: Similar to 298.19-307.62 metres. Lower contact irregular.										
313.94	317.51	BASALTIC DYKE: Similar to 310.80-311.29 metres; some amphibole phyric sections.										
317.51	326.52	DACITE LAPILLI TUFF: Top of interval similar to 298.19-307.62 metres; grades into propylitically altered, feldspar phyric dacite flow breccia towards bottom of interval. Lower contact @ 45° to CA.										
326.52	328.88	BASALTIC DYKE: Similar to 310.80-311.29 metres. Lower contact irregular @ 70° to CA.										
328.88	330.78	DACITE FLOW BRECCIA: Similar to 317.51-326.52 metres. Ash tuff section towards bottom of interval. Lower contact @ 50° to CA.										
330.78	331.62	BASALTIC DYKE: Similar to 310.80-311.29 metres. Lower contact @ 50° to CA.										
331.62	344.42	DACITE FLOW BRECCIA: PROPYLITIC Greenish grey ± maroon, propylitically altered, feldspar (1-2mm) phyric dacite flow breccia. Chlorite + epidote ± magnetite veinlets with albite envelopes (<1cm). Lower contact @ 80° to CA.										
344.42	346.56	BASALTIC DYKE: Similar to 310.80-311.29 metres. Lower contact @ 55° to CA.										
346.56	368.35	DACITE FLOW: HEMATITIC Maroon ± greyish green, propylitically altered, feldspar (1-2mm) phyric fine grained dacite flow and minor flow breccia. Chlorite + epidote + quartz veinlets with albite envelopes (<1cm). Lower contact @ 60° to CA. 347.01 347.24 BASALTIC DYKE: Similar to 310.80-311.29 metres. Contacts @ 60° to CA. 353.27 354.79 BASALTIC DYKE: Similar to 310.80-311.29 metres. Contacts @ 55° to CA.										
368.35	445.92	BASALT FLOW: Dark green to black, propylitically altered, fine grained to aphanitic basalt flow; in part feldspar (1-2mm) phyric. Vein types include: (i) quartz + chlorite veins, (ii) bluish green silica envelopes along microfractures and (iii) rare prehnite + calcite veinlets. Biotite + cordierite (1-2mm) altered in part. Lower contact irregular.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
445.92	501.09	DACITE FLOW: Greyish green, propylitically altered, feldspar (1-2mm) phyric fine grained dacite flow, flow breccia and minor lapilli tuff. Breccia clasts (<5cm) are selectively albitized. Vein types are: (i) chlorite veinlets with albite envelopes, and (ii) rare prehnite + calcite veinlets. Lower contact @ 60° to CA.										
501.09	505.97	BASALTIC DYKE: Similar to 310.80-311.24 metres. Lower contact @ 50° to CA.										
505.97	514.35	DACITE FLOW BRECCIA: Greyish green, propylitically altered feldspar (1-2mm) phyric, fine grained to aphanitic dacite flow breccia and lapilli tuff. Most of interval albitized. Minor disseminated pyrite and trace chalcopyrite. Lower contact @ 50° to CA.										
514.35	637.64	BASALT FLOW: Dark green to black, fine grained to aphanitic basalt flows, minor flow breccia and tuffaceous sediment; amphibole (<2mm) and feldspar phyric in part. Vein types include: (i) chlorite + epidote + quartz + calcite ± garnet ± magnetite ± epidote veinlets with albite envelopes. Some siliceous sections.										
637.64	821.07	BASALT FLOW: SILICIFIED Dark green to grey and black, silicified, fine grained to aphanitic, basalt flow and flow breccia. Numerous quartz-epidote-chlorite ± garnet veins @45 to 70° to CA., with associated white, bleached albite alteration envelopes. Spotty cordierite porphyroblastic sections. 637.64 647.30 Abundant shearing @ 15-30° to CA, chloritic slip surfaces. 646.7-647.3 metres: shearing @ 30° to CA. 682.14 682.90 Quartz healed crackle zone. 712.60 713.50 Sheared and broken ground @45° to CA.; no gouge. 715.00 741.00 Aphanitic to very fine grained flows with abundant quartz-epidote veining (2 to 20cm) @ 50-70° to CA. Rock is very hard. 741.00 785.00 Aphanitic to fine grained flows with irregular patchs and clots of white quartz infilling voids. 785.00 821.07 Aphanitic to fine grained flows; ocassional 1 to 1.5 metre intervals are feldspar (1-2mm, euhedral) phyric. Patchy chlorite ± albite ± garnet ± magnetite alteration. 808.0: 10cm 'crushed' sandy section @ 60° to CA.										
821.07	832.15	BASALT ASH TUFF: Thinly laminated, grey to dark grey, fine grained to aphanitic, homogenous basalt ash tuff. Laminations @ 30° to CA. 829.20 829.50 Light and dark grey banding; bedding (?) @ 45° to CA. Also 6cm quartz + kspar + epidote vein @ 45° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
832.15	842.22	BASALT FLOW: Greyish green, coarse grained, hornblende /pyroxene (1-5mm) phyric basalt flow or sub-volcanic intrusive. Minor quartz-epidote-garnet veining.										
842.22	861.41	BASALT FLOW: SILICIFIED Fine grained, black to dark green, silicified, amphibole/pyroxene (1-2mm) phyric basalt flow. Epidote + chlorite + garnet + magnetite veins @ 60-70° to CA.										
861.41	897.00	BASALTIC TUFF: SILICIFIED Black, very fine grained, silicified basalt ash tuff; some feldspar (1mm) phyric sections. Minor quartz + chlorite + epidote + magnetite veining.										
897.00		EOH										

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU90-26 EXTENSION DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
637.64	639.17	1.53	1.64	107.19%	0.00	0.00%
639.17	641.60	2.43	2.57	105.76%	0.26	10.70%
641.60	643.43	1.83	1.83	100.00%	0.36	19.67%
643.43	647.09	3.66	2.75	75.14%	1.37	37.43%
647.09	650.14	3.05	3.06	100.33%	2.12	69.51%
650.14	653.19	3.05	2.92	95.74%	1.92	62.95%
653.19	655.62	2.43	2.46	101.23%	1.98	81.48%
655.62	658.67	3.05	3.07	100.66%	2.02	66.23%
658.67	661.72	3.05	3.13	102.62%	2.56	83.93%
661.72	664.77	3.05	3.10	101.64%	2.08	68.20%
664.77	667.82	3.05	3.02	99.02%	2.14	70.16%
667.82	669.95	2.13	2.05	96.24%	1.62	76.06%
669.95	673.00	3.05	3.03	99.34%	2.25	73.77%
673.00	676.05	3.05	3.03	99.34%	2.46	80.66%
676.05	679.09	3.04	3.04	100.00%	2.12	69.74%
679.09	682.14	3.05	3.02	99.02%	2.73	89.51%
682.14	685.19	3.05	3.06	100.33%	2.79	91.48%
685.19	688.24	3.05	3.06	100.33%	2.80	91.80%
688.24	691.29	3.05	2.98	97.70%	2.45	80.33%
691.29	694.33	3.04	3.07	100.99%	1.99	65.46%
694.33	697.38	3.05	2.99	98.03%	2.23	73.11%
697.38	698.91	1.53	1.51	98.69%	1.31	85.62%
698.91	701.95	3.04	3.10	101.97%	2.22	73.03%
701.95	705.00	3.05	3.10	101.64%	1.97	64.59%
705.00	708.36	3.36	3.19	94.94%	1.30	38.69%
708.36	710.79	2.43	2.16	88.89%	1.37	56.38%
710.79	712.62	1.83	1.75	95.63%	0.53	28.96%
712.62	715.67	3.05	3.07	100.66%	1.78	58.36%
715.67	718.72	3.05	3.18	104.26%	1.86	60.98%
718.72	721.77	3.05	3.10	101.64%	2.24	73.44%
721.77	724.81	3.04	3.08	101.32%	2.57	84.54%
724.81	727.86	3.05	3.01	98.69%	2.36	77.38%
727.86	730.91	3.05	3.00	98.36%	2.55	83.61%
730.91	733.96	3.05	3.10	101.64%	2.54	83.28%
733.96	737.01	3.05	3.03	99.34%	2.11	69.18%
737.01	740.05	3.04	3.04	100.00%	2.30	75.66%
740.05	743.10	3.05	2.94	96.39%	2.60	85.25%
743.10	746.15	3.05	3.05	100.00%	2.20	72.13%
746.15	749.20	3.05	3.06	100.33%	2.68	87.87%
749.20	752.25	3.05	2.94	96.39%	2.54	83.28%
752.25	755.29	3.04	3.07	100.99%	2.55	83.88%
755.29	758.34	3.05	3.06	100.33%	2.58	84.59%
758.34	761.39	3.05	2.97	97.38%	2.74	89.84%
761.39	764.44	3.05	3.06	100.33%	2.66	87.21%
764.44	767.49	3.05	3.14	102.95%	2.13	69.84%
767.49	770.53	3.04	3.03	99.67%	2.93	96.38%
770.53	773.58	3.05	3.06	100.33%	2.37	77.70%
773.58	776.63	3.05	3.06	100.33%	2.59	84.92%
776.63	779.68	3.05	3.05	100.00%	2.60	85.25%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU90-26 EXTENSION DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
779.68	782.73	3.05	2.99	98.03%	2.15	70.49%
782.73	785.77	3.04	3.11	102.30%	2.87	94.41%
785.77	788.82	3.05	3.01	98.69%	2.85	93.44%
788.82	791.87	3.05	3.02	99.02%	2.45	80.33%
791.87	794.92	3.05	3.05	100.00%	2.32	76.07%
794.92	797.97	3.05	2.97	97.38%	1.88	61.64%
797.97	801.01	3.04	3.01	99.01%	2.80	92.11%
801.01	804.06	3.05	3.01	98.69%	2.70	88.52%
804.06	807.11	3.05	2.99	98.03%	2.49	81.64%
807.11	810.16	3.05	3.05	100.00%	2.05	67.21%
810.16	813.21	3.05	3.10	101.64%	2.70	88.52%
813.21	816.25	3.04	3.12	102.63%	2.37	77.96%
816.25	819.30	3.05	2.97	97.38%	2.22	72.79%
819.30	822.35	3.05	3.15	103.28%	1.95	63.93%
822.35	825.40	3.05	3.07	100.66%	2.05	67.21%
825.40	828.45	3.05	3.06	100.33%	2.33	76.39%
828.45	831.49	3.04	3.05	100.33%	2.38	78.29%
831.49	834.54	3.05	3.05	100.00%	2.74	89.84%
834.54	837.59	3.05	3.03	99.34%	2.53	82.95%
837.59	840.64	3.05	3.07	100.66%	2.68	87.87%
840.64	843.69	3.05	3.08	100.98%	2.71	88.85%
843.69	846.73	3.04	3.01	99.01%	2.11	69.41%
846.73	849.78	3.05	3.04	99.67%	2.67	87.54%
849.78	852.83	3.05	3.06	100.33%	2.54	83.28%
852.83	855.88	3.05	3.03	99.34%	2.70	88.52%
855.88	858.93	3.05	3.10	101.64%	2.08	68.20%
858.93	861.97	3.04	3.08	101.32%	2.74	90.13%
861.97	865.02	3.05	3.11	101.97%	2.65	86.89%
865.02	868.07	3.05	3.00	98.36%	2.28	74.75%
868.07	871.12	3.05	2.91	95.41%	2.46	80.66%
871.12	872.64	1.52	1.43	94.08%	1.40	92.11%
872.64	874.17	1.53	1.77	115.69%	1.77	115.69%
874.17	876.60	2.43	2.38	97.94%	1.66	68.31%
876.60	877.21	0.61	0.64	104.92%	0.38	62.30%
877.21	880.26	3.05	3.01	98.69%	2.69	88.20%
880.26	883.31	3.05	3.00	98.36%	2.86	93.77%
883.31	886.36	3.05	3.10	101.64%	2.90	95.08%
886.36	889.41	3.05	2.96	97.05%	2.96	97.05%
889.41	892.45	3.04	3.05	100.33%	3.05	100.33%
892.45	895.50	3.05	3.08	100.98%	3.08	100.98%
895.50	897.03	1.53	1.70	111.11%	1.70	111.11%

897.50 END OF HOLE

* Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU90-27
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.35
(metres) E: 10595.87

Azimuth: 231.3
Dip: -67.4
Length (m): 799.03
Elevation: 113.18
(metres)
Purpose:

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: September 27, 1990
Completed: October 7, 1990
Recovery: Good

Date Logged: September 29, 1990
Logged By: R.J. Aulis & M.J. Casselman
Date Re-logged: August 7, 1992
Re-logged By: G.L. Dawson
Report Printed: 9 Feb, 1993
4:23am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	231.3	-67.4															
3.0	231.3	-67.4	137.2	234.0	-68.7	271.3	236.7	-70.0	405.4	236.6	-70.3	539.5	237.1	-70.6	673.6	239.2	-70.0
9.1	231.6	-67.6	143.3	234.3	-69.1	277.4	236.9	-70.3	411.5	236.7	-70.1	545.6	237.1	-70.6	679.7	239.3	-69.9
12.2	231.7	-67.7	146.3	234.3	-69.1	280.4	237.1	-70.4	414.5	236.7	-70.1	548.6	237.1	-70.6	682.8	239.3	-69.8
15.2	231.8	-67.7	149.4	234.4	-69.2	283.5	237.2	-70.3	417.6	236.8	-70.0	551.7	237.1	-70.6	685.8	239.3	-69.8
18.3	231.9	-67.8	152.4	234.5	-69.3	286.5	237.3	-70.3	420.6	236.9	-69.9	554.7	237.2	-70.6	688.8	239.4	-69.8
21.3	232.0	-67.8	155.4	234.6	-69.2	289.6	237.3	-70.3	423.7	237.1	-69.8	557.8	237.2	-70.6	691.9	239.4	-69.7
24.4	232.1	-67.8	158.5	234.7	-69.2	292.6	237.3	-70.1	426.7	237.2	-69.7	560.8	237.1	-70.5	694.9	239.4	-69.7
27.4	232.1	-67.8	161.5	234.7	-69.2	295.7	237.4	-70.1	429.8	237.1	-69.8	563.9	237.2	-70.6	698.0	239.4	-69.6
30.5	232.3	-67.8	164.6	234.8	-69.3	298.7	237.4	-70.1	432.8	236.9	-69.9	566.9	237.3	-70.5	701.0	239.5	-69.8
33.5	232.4	-67.8	167.6	235.0	-69.2	301.8	237.4	-70.1	435.9	236.9	-69.9	570.0	237.4	-70.4	704.1	239.5	-69.8
36.6	232.4	-67.8	170.7	235.0	-69.1	304.8	237.4	-70.1	438.9	236.9	-69.9	573.0	237.5	-70.5	707.1	239.6	-69.9
39.6	232.6	-67.8	173.7	235.1	-69.1	307.9	237.4	-70.1	442.0	236.9	-69.8	576.1	237.6	-70.6	710.2	239.6	-69.9
42.7	232.6	-67.8	176.8	235.2	-69.0	310.9	237.4	-70.1	445.0	236.8	-69.9	579.1	237.8	-70.6	713.2	239.6	-70.0
45.7	232.7	-67.9	179.8	235.2	-69.0	313.9	237.5	-70.0	448.1	236.8	-69.8	582.2	237.9	-70.5	716.3	239.5	-70.0
48.8	232.7	-68.0	182.9	235.2	-69.0	317.0	237.5	-70.0	451.1	236.8	-69.8	585.2	238.0	-70.5	719.3	239.5	-70.0
51.8	233.0	-68.0	185.9	235.1	-68.8	320.0	237.6	-69.9	454.1	236.8	-69.8	588.3	238.1	-70.5	722.4	239.5	-70.1
54.9	233.0	-68.0	189.0	235.1	-68.8	323.1	237.6	-69.8	457.2	236.9	-69.7	591.3	238.2	-70.5	725.4	239.4	-70.1
57.9	233.0	-68.0	192.0	235.1	-68.8	326.1	237.6	-69.7	460.3	236.9	-69.7	594.4	238.4	-70.5	728.5	239.3	-70.0
61.0	233.1	-68.0	195.1	235.2	-68.7	329.2	237.6	-69.6	463.3	237.1	-69.6	597.4	238.5	-70.5	731.5	239.3	-70.0
64.0	233.2	-68.2	198.1	235.3	-68.8	332.2	237.5	-69.4	466.3	237.1	-69.4	600.5	238.5	-70.5	734.6	239.3	-69.9
67.1	233.3	-68.2	201.2	235.3	-68.8	335.3	237.3	-69.3	469.4	237.1	-69.4	603.5	238.5	-70.5	737.6	239.3	-69.9
70.1	233.4	-68.3	204.2	235.3	-69.0	338.3	237.2	-69.4	472.4	237.1	-69.6	606.5	238.5	-70.4	740.7	239.4	-70.0
73.2	233.4	-68.3	207.3	235.3	-69.0	341.4	237.2	-69.4	475.5	237.1	-69.6	609.6	238.5	-70.4	743.7	239.4	-70.0
76.2	233.6	-68.4	210.3	235.3	-69.0	344.4	237.2	-69.6	478.5	237.1	-69.8	612.7	238.5	-70.3	746.8	239.5	-70.0
79.3	233.4	-68.3	213.4	235.3	-69.0	347.5	237.2	-69.7	481.6	237.1	-69.9	615.7	238.5	-70.3	749.8	239.5	-70.0
82.3	233.4	-68.3	216.4	235.3	-69.0	350.5	237.3	-69.8	484.6	237.1	-70.0	618.7	238.5	-70.3	752.9	239.5	-70.0
85.3	233.4	-68.2	219.5	235.4	-69.1	353.6	237.3	-69.8	487.7	237.2	-70.1	621.8	238.5	-70.1	755.9	239.5	-70.0
88.4	233.4	-68.2	222.5	235.4	-69.2	356.6	237.2	-69.9	490.7	237.3	-70.3	624.8	238.6	-70.1	759.0	239.6	-70.1
91.4	233.6	-68.2	225.6	235.5	-69.2	359.7	237.1	-69.9	493.8	237.2	-70.4	627.9	238.6	-70.0	762.0	239.6	-70.0
94.5	233.6	-68.2	228.6	235.7	-69.2	362.7	236.9	-70.0	496.8	237.2	-70.4	630.9	238.6	-70.0	765.0	239.6	-70.0
97.5	233.6	-68.2	231.6	235.7	-69.2	365.8	236.9	-70.1	499.9	237.2	-70.4	634.0	238.6	-70.0	768.1	239.6	-70.0

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	231.3	-67.4															
100.6	233.6	-68.2	234.7	235.8	-69.3	368.8	236.9	-70.1	502.9	237.1	-70.5	637.0	238.6	-70.1	771.1	239.6	-70.0
103.6	233.7	-68.2	237.7	235.9	-69.3	371.9	236.8	-70.3	506.0	236.9	-70.5	640.1	238.7	-70.3	774.2	239.6	-70.0
106.7	233.7	-68.2	240.8	235.9	-69.3	374.9	236.8	-70.3	509.0	236.8	-70.4	643.1	238.8	-70.3	777.2	239.8	-70.1
109.7	233.7	-68.2	243.8	236.0	-69.4	378.0	236.7	-70.4	512.1	236.7	-70.4	646.2	238.8	-70.3	780.3	239.8	-70.1
112.8	233.7	-68.2	246.9	236.1	-69.6	381.0	236.7	-70.4	515.1	236.7	-70.4	649.2	238.8	-70.3	783.3	239.9	-70.0
115.8	233.8	-68.2	249.9	236.3	-69.7	384.0	236.7	-70.4	518.2	236.7	-70.4	652.3	238.8	-70.1	786.4	240.0	-70.1
118.9	233.7	-68.2	253.0	236.4	-69.6	387.1	236.7	-70.4	521.2	236.8	-70.4	655.3	238.8	-70.0	789.4	240.0	-70.0
121.9	233.7	-68.3	256.0	236.4	-69.6	390.1	236.7	-70.4	524.3	236.8	-70.4	658.4	238.7	-70.1	792.5	240.0	-70.0
125.0	233.7	-68.4	259.1	236.5	-69.7	393.2	236.6	-70.4	527.3	236.8	-70.4	661.4	238.8	-70.3	795.5	240.0	-70.0
128.0	233.8	-68.5	262.1	236.5	-69.7	396.2	236.6	-70.4	530.3	236.8	-70.5	664.5	238.8	-70.1			
131.1	233.9	-68.6	265.2	236.6	-69.8	399.3	236.6	-70.3	533.4	236.9	-70.6	667.5	238.8	-70.1			
134.1	233.9	-68.6	268.2	236.7	-69.9	402.3	236.6	-70.1	536.5	236.9	-70.7	670.6	238.9	-70.3			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	1.52	CASING										
1.52	17.74	BASALT ASH TUFF: PROPYLITIC Dark green, propylitically altered basalt ash tuff; rare lapilli of similar composition faintly visible. Minor chorite + epidote + quartz + albite + pyrite + magnetite veins (<1-10cm). Lower contact sharp @ 40° to CA.										
17.74	28.04	VOLCANIC SEDIMENTS: SILICIFIED Laminated, dark green and black, siliceous or cherty tuffaceous argillite and basalt ash tuff. Beddding @ 40° to CA. In part biotite altered. Lower contact chlorite slip @ 40° to CA.										
28.04	39.62	FAULT Broken and fractured core; brecciated tuffaceous argillite and basalt ash tuff infilled by chlorite. Chlorite slips @ 60° to CA.										
39.62	84.35	BASALT UNDIFFERENTIATED: PROPYLITIC Dark green, propylitically altered, feldspar (1-2mm) phyric, fine grained, undifferentiated basalt and minor tuffaceous sediment. Unit cut by a network of fracture controlled chlorite with bluish green silica envelopes (1-10mm). Chlorite + epidote + quartz + albite ± pyrite ± magnetite veins. Lower contact sharp @ 60° to CA.										
84.35	91.14	BASALT FLOW: Dark green, pyroxene (1-3mm) phyric, fine grained to aphanitic basalt flow. Chlorite fractures with silica envelopes (5mm). Lower contact sharp @ 40° to CA.										
91.14	114.91	VOLCANIC SEDIMENTS: Laminated, medium green to greenish black, basalt ash tuff and tuffaceous argillite. Bedding @ 30° to CA. Rare chlorite + epidote + quartz + albite ± pyrite ± magnetite veining. Bottom 5 metres of interval is biotite altered. Lower contact sharp @ 40° to CA.										
114.91	292.61	BASALT UNDIFFERENTIATED: PROPYLITIC Medium green, propylitically altered, feldspar (1-2mm) phyric, fine grained, undifferentiated basalt, and minor flow breccia and ash tuff; unit has a 'felted' texture. Some amphibole- and non-phyric sections. Minor chlorite + epidote + quartz + albite veining. Lower contact gradational over 10 metres.										
292.61	333.60	BASALT FLOW: Greenish black, aphanitic, basalt flow. Bluish green silica envelopes along fractures to zones of pervasive alteration; minor quartz + chlorite + magnetite + pyrite ± chalcopyrite veins (<1-15cm). Unit may be chilled										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		flow margin to interval 114.91 - 292.61 metres.										
333.60	398.37	DACITE LAPILLI TUFF: HEMATITIC Layered, pale green and maroon, sericite altered, heterolithic dacite lapilli tuff. Lapilli consist of: (i) dark green chloritic glass shards with cuspate margins (<3cm), (ii) pale green subrounded felsic clasts (<2cm), (iii) siliceous wispy clasts--fiamme (<1cm). Matrix is maroon to pale green, sericite altered ash tuff. Minor chlorite + epidote + quartz + albite + pyrite + magnetite veinlets. 336.19 336.80 Broken and fractured core; chlorite slips. 340.77 346.86 Broken and fractured core, chlorite slips. 354.18 356.00 Broken and fractured core, chlorite slips. 371.55 372.77 Broken and fractured core, chlorite slips.	R9013486 R9013487 R9013488 R9013489	393.80 395.33 396.85 397.61	395.33 396.85 397.61 398.37	1.52 1.52 .76 .76						66630 66631 66632 66633
398.37	405.69	PYRITE FACIES: Banded pyrite (20-30%) and sericite altered ash tuff; some brecciated sections (debris flow ?) consisting of chert and tuff clasts in a matrix of pyrite, barite and ash tuff. Rare stringers of chalcopyrite.	R9013490 R9013491 R9013492 R9013493 R9013494 R9013495 ZBD R9013496	398.37 400.05 400.66 401.57 402.64 404.17 404.17 405.69	400.05 400.66 401.57 402.64 404.17 405.69 409.04 406.30	1.68 .61 .91 1.07 1.52 1.52 4.87 .61	.01	.42	.24	.32	2.54	66634 66635 66636 66637 66638 66639 66640
405.69	409.04	ZINC FACIES: Foliated sulphides, barite and sericite altered ash tuff. Sulphides (20%) consist of sphalerite (15%), galena (4%), pyrite (1-2%) and minor chalcopyrite. Lower contact sharp.	R9013497 R9013498	406.30 407.52	407.52 409.04	1.22 1.52	.02 .02	2.47 3.07	.44 .42	5.57 2.58	8.90 3.89	66641 66642
409.04	432.82	DACITE LAPILLI TUFF: Foliated, greenish grey, sericite + pyrite (1-2%) altered dacite lapilli tuff. Lapilli consist of: (i) dark green chloritic glass shards (<2cm), (ii) dark green basalt clasts (<2cm), (iii) white felsic clasts (<1cm). Unit also contains minor disrupted ash tuff and chert (?) bands. Lower contact mixed over 1.0 metre. 415.74 416.81 BASALTIC DYKE: Fine grained basalt dyke. Lower contact brecciated. 421.16 423.82 BASALTIC DYKE: Fine grained basalt dyke. Lower contact @ 20° to CA.	R9013499 R9013500 R9013501 R9013502 R9013503 R9013504	409.04 409.96 411.48 413.00 414.53 415.75	409.96 411.48 413.00 414.53 415.75 416.97	.91 1.52 1.52 1.52 1.22 1.22						66643 66644 66645 66646 66647 66648
432.82	474.42	BASALT FLOW: SILICIFIED , WITH DISSEMINATED PYRITE Brecciated, white, silica + sericite + pyrite altered quartz amygdaloidal basalt flow. Trace disseminated sphalerite. 448.21 448.51 BASALTIC DYKE: Brown, biotite altered, fine grained basalt dyke. Upper contact @ 90° and lower contact @ 20° to CA. 451.79 455.68 BASALT ASH TUFF: Foliated, dark green basalt ash tuff with minor lapilli (1-4mm). Upper and lower contact @ 20-40° to	R9013505 R9013506 R9013507 R9013508 R9013509 R9013510	435.56 436.78 438.30 438.91 440.44 441.96	436.78 438.30 438.91 440.44 441.96 443.48	1.22 1.52 .61 1.52 1.52 1.52						66649 66650 66651 66652 66653 66654

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

CA.

474.42 498.50 VOLCANIC SEDIMENTS: SILICIFIED
Bedded, greenish black, silica + pyrite altered tuffaceous argillite and feldspar (1-2mm) phyric basalt ash and lapilli tuff. Lapilli (<1cm) consist of altered quartz amygdaloidal basalt. Graded beds in feldspar rich tuff--tops up. Epiclastic conglomerate horizon (494.39-495.30 metres) consisting of rounded rhyolite (?) clasts in a feldspar phyric dacite tuff matrix. Lower contact sharp @ 30° to CA.

498.50 527.69 VOLCANIC SEDIMENTS: BIOTITIC
Bedded, dark green to greyish black basalt ash tuff and minor lapilli tuff and tuffaceous argillite; variable biotite alteration. Quartz + chlorite + epidote veinlets and fractures with silica envelopes (<1cm). Lower contact sherared and broken core @ 50° to CA.

527.69 578.21 DACITE LAPILLI TUFF: HEMATITIC
Layered, greenish grey, propylitically altered, heterolithic dacite lapilli tuff. Lapilli consist of: (i) dark green chloritic glass shards (<1cm), (ii) white and maroon felsic fiamme, and (iii) felsic to intermediate volcanic clasts.
543.00 544.83 BASALT ASH TUFF: Medium green, basalt ash tuff. Variable biotite hornfels and silicification. Upper contact @ 40° and lower contact @ 90° to CA.
549.25 549.71 BASALTIC DYKE: Brownish black, fine grained to aphanitic basalt dyke.

578.21 615.70 DACITE FLOW: PROPYLITIC
Mottled, dark green and white, propylitically altered, feldspar (1-2mm) phyric dacite flow and flow breccia; minor interflow tuff. Selective albite + silica alteration of breccia clasts and as envelopes along fractures; chlorite + magnetite alteration interstitial to clasts. Lower contact @ 20 - 30° to CA.
585.22 585.45 BASALTIC DYKE: Dark green, fine grained basalt dyke. Lower and upper contact @ 40° to CA.
587.20 588.26 BASALTIC DYKE: Dark green, fine grained, basalt dyke. Upper contact @ 30° to CA; lower contact broken core.
588.57 589.33 BASALTIC DYKE: Dark green, fine grained basalt dyke.
598.93 605.26 BASALT ASH TUFF: Medium green, propylitically altered basalt ash tuff or possibly flow. Some feldspar phyric sections. Lower contact @ 25° to CA.
607.77 608.84 BASALT ASH TUFF: Similar to 598.93 to 605.26 metres. Upper contact @ 50° and lower contact @ 30° to CA.
613.33 615.70 BASALT ASH TUFF: Similar to 598.93 to 605.26 metres. Upper and lower contact @ 40° to CA.

615.70 623.77 DACITE LAPILLI TUFF:

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Similar to 527.69 - 578.21 metres, however also contains large maroon, feldspar (1-2mm) phyric dacite clasts or bombs; matrix supported. Layering @ 50 - 60° to CA.										
623.77	635.36	DACITE FLOW BRECCIA: Similar to 578.21 - 615.70 metres. 623.85 625.45 BASALTIC DYKE: Apple green, epidote altered, fine grained basalt dyke (?). Upper and lower contact @ 30° to CA.										
635.36	644.65	DACITE ASH TUFF: SILICIFIED , WITH DISSEMINATED PYRITE Brownish grey, silica + sericite + pyrite (10-20%) altered dacite ash and lapilli tuff. Lower contact gradational over 1.0 metres. 635.36 635.66 SILICIFIED Brecciated and silicified section. Disseminated and stringer sphalerite (1-2%), minor pyrite, trace chalcopyrite. 637.95 638.86 BASALTIC DYKE: Similar to 623.85 - 625.45 metres, dyke or flow (?). Disseminated pyrite (1-2%). Upper contact @ 40° to CA, lower contact broken core.	R9013739 R9013740 R9013741 R9013742 R9013743 R9013744	637.12 639.01 639.78 641.30 642.37 643.74	637.95 639.78 641.30 642.37 643.74 644.65	.82 .76 1.52 1.07 1.37 .91						
644.65	677.88	DACITE FLOW: Similar to 578.21 - 615.70 metres. Lower contact @ 40 - 50° to CA.										
677.88	720.85	BASALT FLOW: Dark green, fine grained basalt flow; some flow breccia sections with quartz + epidote + chlorite + albite + calcite ± garnet interstitial to clasts. Minor interflow ash tuff sections. Disseminated and stringer magnetite. 684.28 691.90 BASALT ASH TUFF: Foliated, brownish grey, sericite + pyrite altered basalt (?) ash tuff, minor laminated grey chert/dust tuff and massive pyrite (678.93 - 688.09 metres). Foliation @ 10 - 20° to CA.	R9013745 R9013746 R9013747 R9013748	684.28 685.49 687.02 720.55	685.49 687.02 688.24 721.46	1.22 1.52 1.22 .91						
720.85	737.01	BASALT FLOW: SILICIFIED , WITH DISSEMINATED PYRITE Grey, silica + sericite altered basalt flow and aquigene tuff. Silicified interlocking breccia clasts (1-3cm) within a sericite + pyrite (1-2%) altered tuffaceous matrix. Randomly orientated quartz veins (<1cm); disseminated and stringer pyrite (2-3%), minor sphalerite and trace galena and chalcopyrite.	R9013749 R9013750 R9013751 R9013752 R9013753 292 R9013754 R9013755 R9013756	721.46 722.99 723.75 725.42 726.95 726.95 728.47 729.39 730.91	722.99 723.75 725.42 726.95 728.47 729.39 729.39 730.91 732.43	1.52 .76 1.68 1.52 1.52 2.44 .91 1.52 1.52	.01 .01	.38 2.17	.20 .38	.01 .12	1.58 3.98	
737.01	751.86	BASALT FLOW: Similar to 677.88 - 720.85 metres.										
751.86	781.81	BASALT FLOW: SILICIFIED , WITH STRINGER PYRITE										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Similar to 720.85 - 770.53 metres. Sulphides (20%) include: pyrite (5-10%), sphalerite (5%), galena (2%), and trace chalcopyrite. Lower contact @ 30° to CA.	R9014249	751.94	753.47	1.52						
		770.53 774.19 Sericite + chlorite altered section.	R9014250	753.47	754.38	.91						
			R9014251	754.38	755.29	.91						
			Z93	755.29	764.44	9.15						
			R9014252	755.29	755.99	.70	.00	.17	.09	.73	2.14	
			R9014253	755.99	757.43	1.43	.00	.14	.08	.79	2.74	
			R9014254	757.43	758.95	1.52	.01	.12	.07	.89	1.72	
			R9014255	758.95	759.87	.91	.00	.08	.04	.74	1.16	
			R9014256	759.87	761.39	1.52	.01	.16	.04	1.74	2.35	
			R9014257	761.39	762.91	1.52	.01	.09	.07	1.17	2.24	
			R9014258	762.91	763.83	.91	.02	.10	.11	.03	2.93	
			R9014259	763.83	764.44	.61	.02	.10	.08	<.01	1.97	
			R9014260	764.44	765.96	1.52						
781.81	791.87	SLOKO RYHOLITE DYKE: Buff, fine grained to aphanitic rhyolite dyke; locally flow banded near margins. Trace disseminated pyrite. Lower contact @ 20° to CA.										
791.87	799.03	BASALT FLOW: SILICIFIED , WITH DISSEMINATED PYRITE Similar to 751.86 - 781.81 metres. Silicified basalt flow clasts within a interstitial chlorite + sericite altered tuff matrix (aquigene tuff). Disseminated fine to medium grained pyrite.										
799.03		EOH										

Hole No: TCU90-27
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.35
(metres) E: 10595.87

Azimuth: 231.3
Dip: -67.4
Length (m): 799.03
Elevation: 113.18
(metres)
Purpose:

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: September 27, 1990
Completed: October 7, 1990
Recovery: Good

Date Logged: September 29, 1990
Logged By: R.J. Aulis & M.J. Casselman
Date Re-logged: August 7, 1992
Re-logged By: G.L. Dawson
Report Printed: 19 Feb, 1993 10:04pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9013486	393.80	395.33	1.52		.00						<10	<.4	14	18	106						
R9013487	395.33	396.85	1.52		.00						<10	<.4	6	13	112						
R9013488	396.85	397.61	.76		.00						<10	<.4	47	25	100						
R9013489	397.61	398.37	.76		.00						<10	<.4	42	32	193						
R9013490	398.37	400.05	1.68		.00						100	4.9	356	1950	2720						
R9013491	400.05	400.66	.61		.00						300	16.3	2420	2530	7450						
R9013492	400.66	401.57	.91		.00						164	5.3	2370	269	1080						
R9013493	401.57	402.64	1.07		.00						258	8.5	6420	128	131						
R9013494	402.64	404.17	1.52		.00						182	4.0	5290	30	129						
R9013495	404.17	405.69	1.52		.00						230	2.9	1800	119	207						
R9013496	405.69	406.30	.61	3.81	24.89	.01	.38	.24	.32	2.54	190	13.2	2060	2780	>22500						
R9013497	406.30	407.52	1.22	3.81	94.47	.02	2.21	.44	5.57	8.90	144	71.7	4010	>43900	>81800						
R9013498	407.52	409.04	1.52	3.81	55.52	.02	2.74	.42	2.58	3.89	690	82.7	3820	>25650	>37600						
R9013499	409.04	409.96	.91		.00						40	5.2	388	187	852						
R9013500	409.96	411.48	1.52		.00						<10	1.0	17	39	112						
R9013501	411.48	413.00	1.52		.00						<10	1.1	24	38	98						
R9013502	413.00	414.53	1.52		.00						<10	.7	10	16	78						
R9013503	414.53	415.75	1.22		.00						<10	1.4	13	6	69						
R9013504	415.75	416.97	1.22		.00						<10	2.5	84	39	349						
R9013505	435.56	436.78	1.22		.00						60	14.0	1360	428	1640						
R9013506	436.78	438.30	1.52		.00						92	3.1	632	691	850						
R9013507	438.30	438.91	.61		.00						50	1.9	515	430	5030						
R9013508	438.91	440.44	1.52		.00						<10	<.4	165	74	2610						
R9013509	440.44	441.96	1.52		.00						60	<.4	232	119	4570						
R9013510	441.96	443.48	1.52		.00						44	.6	827	83	1170						
R9013739	637.12	637.95	.82		.00						<10	.5	10	28	113						
R9013740	639.01	639.78	.76		.00						60	.9	18	<4	62						
R9013741	639.78	641.30	1.52		.00						507	<.4	26	7	115						
R9013742	641.30	642.37	1.07		.00						98	<.4	13	12	278						
R9013743	642.37	643.74	1.37		.00						<10	<.4	3	<4	61						
R9013744	643.74	644.65	.91		.00						40	<.4	12	<4	47						

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9013745	684.28	685.49	1.22		.00						<10	.7	5	9	59						
R9013746	685.49	687.02	1.52		.00						24	3.9	48	61	79						
R9013747	687.02	688.24	1.22		.00						<10	2.3	34	60	67						
R9013748	720.55	721.46	.91		.00						42	3.2	216	2220	2990						
R9013749	721.46	722.99	1.52		.00						<10	4.6	390	5130	7540						
R9013750	722.99	723.75	.76		.00						40	2.5	247	2180	4080						
R9013751	723.75	725.42	1.68		.00						50	3.8	258	7130	8500						
R9013752	725.42	726.95	1.52		.00						24	4.0	487	1830	6200						
R9013753	726.95	728.47	1.52		16.12	.01	.33	.20	.01	1.58	20	13.9	1660	161	>12700						
R9013754	728.47	729.39	.91		39.23	.01	1.94	.38	.12	3.98	150	61.9	3270	930	>39000						
R9013755	729.39	730.91	1.52		.00						<10	3.0	99	28	3320						
R9013756	730.91	732.43	1.52		.00						<10	2.6	54	48	1230						
R9014249	751.94	753.47	1.52		.00						180	6.4	217	2840	5280						
R9014250	753.47	754.38	.91		.00						60	3.1	250	930	1840						
R9014251	754.38	755.29	.91		.00						<10	<.4	131	226	559						
R9014252	755.29	755.99	.70	3.81	17.77	.00	.15	.09	.73	2.14	74	6.1	850	8800	>20600						
R9014253	755.99	757.43	1.43	3.81	22.01	.00	.13	.08	.79	2.74	80	6.1	712	8390	>25950						
R9014254	757.43	758.95	1.52	3.81	17.54	.01	.10	.07	.89	1.72	154	4.7	645	9700	>16350						
R9014255	758.95	759.87	.91	3.81	11.39	.00	.07	.04	.74	1.16	84	3.4	358	8340	>11500						
R9014256	759.87	761.39	1.52	3.81	25.25	.01	.14	.04	1.74	2.35	158	5.9	407	>16650	>23550		103		38		
R9014257	761.39	762.91	1.52	3.81	24.30	.01	.08	.07	1.17	2.24	242	2.8	628	8800	>20550						
R9014258	762.91	763.83	.91	3.81	25.80	.01	.09	.11	.03	2.93	596	3.1	910	321	>29500						
R9014259	763.83	764.44	.61	3.81	19.92	.02	.09	.08	<.01	1.97	480	3.0	740	116	>18900						
R9014260	764.44	765.96	1.52		.00						46	2.4	233	80	3950						

Hole No: TCU90-28
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.54
(metres) E: 10596.14

Azimuth: 236.1
Dip: -83.0
Length (m): 641.30
Elevation: 113.28
(metres)
Purpose:

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: October 16, 1990
Completed: October 26, 1990
Recovery: Good

Date Logged: October 26, 1990
Logged By: R.J. Aulis
Date Re-logged: August 6, 1992
Re-logged By: G.L. Dawson
Report Printed: 9 Feb, 1993 4:23am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	236.1	-83.0															
3.0	236.0	-83.1	64.0	236.9	-82.0	125.0	237.6	-82.0	185.9	238.5	-82.0	246.9	239.0	-82.7	307.9	239.4	-82.7
9.1	236.0	-82.9	70.1	237.3	-82.0	131.1	237.6	-82.0	192.0	238.6	-82.1	253.0	239.1	-83.0	313.9	239.4	-82.7
12.2	236.1	-82.7	73.2	237.3	-82.0	134.1	237.6	-82.0	195.1	238.6	-82.2	256.0	239.0	-83.1	317.0	239.4	-82.7
15.2	236.0	-82.6	76.2	237.3	-82.0	137.2	237.8	-82.0	198.1	238.6	-82.2	259.1	239.1	-83.1	320.0	239.5	-82.9
18.3	236.1	-82.5	79.3	237.4	-82.0	140.2	237.9	-82.1	201.2	238.8	-82.2	262.1	239.1	-83.1	323.1	239.6	-83.0
21.3	236.1	-82.4	82.3	237.4	-82.0	143.3	237.9	-82.1	204.2	238.8	-82.2	265.2	239.1	-83.1	326.1	239.6	-83.0
24.4	236.3	-82.4	85.3	237.4	-82.0	146.3	238.0	-82.1	207.3	238.8	-82.4	268.2	239.3	-83.0	329.2	239.6	-83.0
27.4	236.3	-82.2	88.4	237.4	-82.0	149.4	238.1	-82.1	210.3	238.8	-82.4	271.3	239.3	-83.1	332.2	239.6	-83.0
30.5	236.4	-82.1	91.4	237.4	-82.0	152.4	238.3	-82.1	213.4	238.9	-82.5	274.3	239.3	-83.2	335.3	239.5	-83.1
33.5	236.4	-82.1	94.5	237.4	-82.0	155.4	238.3	-82.1	216.4	239.0	-82.5	277.4	239.3	-83.2	338.3	239.6	-83.2
36.6	236.4	-82.1	97.5	237.4	-82.0	158.5	238.1	-82.0	219.5	238.9	-82.6	280.4	239.3	-83.2	341.4	239.8	-83.4
39.6	236.5	-82.2	100.6	237.5	-82.0	161.5	238.3	-82.0	222.5	239.0	-82.7	283.5	239.1	-83.0	344.4	239.9	-83.5
42.7	236.6	-82.1	103.6	237.5	-82.0	164.6	238.3	-82.0	225.6	239.0	-82.7	286.5	239.3	-82.9	347.5	239.9	-83.5
45.7	236.6	-82.1	106.7	237.5	-82.0	167.6	238.3	-82.0	228.6	239.0	-82.9	289.6	239.3	-82.9	350.5	239.9	-83.7
48.8	236.8	-82.0	109.7	237.6	-82.0	170.7	238.3	-82.0	231.6	239.0	-82.9	292.6	239.3	-82.9	353.6	240.0	-83.9
51.8	236.8	-82.0	112.8	237.6	-82.0	173.7	238.3	-82.0	234.7	239.1	-82.7	295.7	239.3	-82.7	356.6	240.0	-83.9
54.9	236.8	-82.0	115.8	237.6	-82.0	176.8	238.4	-82.0	237.7	239.0	-82.7	298.7	239.3	-82.7	359.7	240.1	-84.0
57.9	236.8	-82.0	118.9	237.6	-82.0	179.8	238.5	-82.0	240.8	239.0	-82.7	301.8	239.4	-82.9	362.7	240.1	-84.0
61.0	236.8	-82.0	121.9	237.6	-82.0	182.9	238.5	-82.0	243.8	239.0	-82.7	304.8	239.4	-82.7			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	1.22	CASING										
1.22	18.62	BASALT FLOW: Medium green, propylitically altered, fine grained basalt flow. Some chlorite + epidote • quartz veinlets with albite envelopes. Lower contact sharp @ 50° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
18.62	25.06	BASALT ASH TUFF: BIOTITIC Brownish green, biotite altered, basalt ash tuff. Chlorite + pyrite veinlets (3mm) with envelopes of bluish green silicification (<1cm). Lower contact @ 60° to CA.										
25.06	26.06	BASALT FLOW: Similar to 1.22 - 18.62 metres.										
26.06	52.27	BASALT ASH TUFF: SILICIFIED Similar to 18.62 - 25.06 metres; most of the section is silicified. Core is broken, has numerous chloritic fractures and minor clay gouge. Lower contact sharp @ 50° to CA.										
52.27	75.90	BASALT UNDIFFERENTIATED: Undifferentiated, dark green, feldspar (1-2mm) phyric, fine grained to aphanitic basalt. Vein types include: (i) epidote + quartz + chlorite ± albite veins (<10cm) and (ii) chlorite fractures with silica envelopes (<1cm). Lower contact is sharp @ 40° to CA. 53.65 54.85 FAULT Brecciated basalt with quartz + calcite infilling; fault @ 20 - 40° to CA.										
75.90	82.75	VOLCANIC SEDIMENTS: BIOTITIC Weakly laminated, dark purplish brown, biotite altered tuffaceous argillite/dust tuff and rare laminae of basalt ash tuff. Chlorite microfractures with silica envelopes (<1mm). Bedding @ 15-20° to CA. Lower contact is sharp @ 60° to CA.										
82.75	83.26	BASALT UNDIFFERENTIATED: Similar to 52.07 - 75.09 metres. Lower contact sharp @ 40° to CA.										
83.26	100.66	VOLCANIC SEDIMENTS: BIOTITIC Similar to 75.90 - 82.75 metres. Graded beds and flame textures--tops up. Lower contact sharp @ 60° to CA.										
100.66	102.56	BASALTIC DYKE: Dark green, aphanitic basalt dyke or flow. Rare irregular chlorite clots (<1cm after amphibole ?). Lower contact infilled by chlorite + quartz + albite veinlet @ 35° to CA.										
102.56	110.40	VOLCANIC SEDIMENTS: Similar to 75.90 - 82.75 metres, except for increased ash sized material in this interval. Bedding @ 40° to CA. Lower contact sharp @ 50° to CA.										
110.40	118.87	BASALT FLOW: Medium green, fine grained basalt flow; some amphibole phyric (<1mm) sections. Lower contact gradational over 10 cm.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
118.87	148.82	BASALT UNDIFFERENTIATED: Dark green, propylitically altered, feldspar (<3mm) phyric, fine grained basalt flow.										
148.82	164.14	BASALT FLOW: Grey, sericite + chlorite +biotite ± epidote altered, hornblende (1-2mm) phyric, basalt flow. Lower contact sharp @ 60° to CA.										
164.14	229.09	BASALT FLOW: BIOTITIC Brownish green, biotite altered, fine grained basalt flow; minor flow breccia and interflow ash tuff. Chlorite ± quartz, epidote, albite and magnetite veinlets. Some zones of pervasive silicification. 193.55 202.39 Broken and fractured core; silicified section.										
229.09	236.98	VOLCANIC SEDIMENTS: SILICIFIED Thinly laminated, brown and green, basalt ash and dust tuff; some grey siliceous or chert laminae. Chlorite fractures with silica envelopes (<0.5cm). Lower contact sharp @ 30° to CA.										
236.98	336.04	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, medium to dark green, propylitically altered, feldspar (<3mm) phyric, fine grained basalt; some chlorite amygdules (<3mm) near top of interval. Feldspar crystals altered to sericite; matrix altered to chlorite ± epidote. Rare chlorite + quartz + magnetite veinlets (1-10mm) with silica envelopes (<0.5cm). Lower contact sharp @ 40° to CA.										
336.04	534.92	BASALT FLOW: Dark green and brown, locally biotite altered, fine grained to aphanitic, basalt flow and minor flow breccia; in part amygdaloidal (quartz + chlorite). Vein types include: (i) chlorite + epidote ± quartz ± albite ± magnetite ± pyrrhotite ± pyrite veins and (ii) microfractures with silica envelopes (<1mm) to pervasive zones. 456.13 456.23 FAULT Minor slip with clay gouge @ 40° to CA. 517.55 518.47 FAULT Brecciated basalt flow with quartz + calcite infilling @ 50 to CA. 521.21 524.27 Broken and fractured core; silicified section.										
534.92	548.79	DACITE ASH TUFF: SERICITIC Laminated, greenish grey, sericite altered dacite ash tuff; rare lapilli, some of which are jasper. Bedding @ 60° to CA. Selective silicification of some laminae; chlorite ± epidote veinlets.										
548.79	559.92	FAULT Brecciated silica + albite altered basalt (?) infilled by chlorite + calcite ± epidote ± quartz infilling. Breccia clasts <3 cm diameter, angular and in part interlocking. Shearing @ 20 - 40° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
559.92	633.22	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, dark green, propylitically altered, feldspar (1-2mm) phyric, fine grained basalt. Feldspar crystals altered to sericite and matrix to chlorite. Silica envelopes to pervasive zones centered on fractures. Minor chlorite + epidote + quartz + albite veinlets.										
633.22	636.15	FAULT 'Crushed' unaltered basalt (clay to sand size); young fault (?).										
636.15	639.98	Similar to 559.92 - 633.22 metres.										
639.98	641.30	FAULT Similar to 633.22 - 636.15 metres.										
641.30		EOH										

Hole No: TCU90-29
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15523.12
(metres) E: 10601.23

Azimuth: .0
Dip: -90.0
Length (m): 684.89
Elevation: 113.32 (metres)
Purpose:

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: October 16, 1990
Completed: December 6, 1990
Recovery: Good

Date Logged:
Logged By: R.J. Aulis & M.J. Casselman
Date Re-logged: November 1, 1992
Re-logged By: G.L. Dawson
Report Printed: 9 Feb, 1993 4:23am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	.0	-90.0															
426.7	.0	-90.0	670.6		-88.5												

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	1.83	CASING										
1.83	14.94	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, medium green, propylitically altered, fine grained basalt; in part feldspar + amphibole phyric. Vein types include (i) quartz + calcite + albite + chlorite ± pyrite veinlets, (ii) chlorite microfractures with silica envelopes and (iii) prehnite fractures. Lower contact @ 50° to CA.										
14.94	35.11	VOLCANIC SEDIMENTS: SILICIFIED Thinly laminated, green to grey, basalt ash tuff, tuffaceous argillite, chert and minor lapilli tuff. Lapilli are <3 cm and chert or felsic volcanic in composition. Vein types include (i) chlorite microfractures with albite envelopes (<5mm), (ii) quartz + calcite ± pyrite veins, and (iii) prehnite fractures. Lower contact @ 50 ° to CA.										
35.11	46.33	BASALT UNDIFFERENTIATED: CHLORITIC Undifferentiated, dark green, chloritic, feldspar (2-3mm) phyric, fine grained to aphanitic basalt. Vein types include (i) chlorite fractures with bluish green silica envelopes, and (ii) calcite ± prehnite fractures. Lower contact @ 50° to CA. 41.94 42.28 FAULT Brecciated basalt with quartz + calcite infilling @ 40° to CA. 44.04 46.33 FAULT Chloritic shears @ 30° to 40° to CA; buff, carbonate										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		altered basalt.										
46.33	49.38	VOLCANIC SEDIMENTS: Faintly laminated, grey to black, siliceous, tuffaceous argillite, chert and basalt ash tuff. Chlorite veinlets with albite envelopes throughout interval. Bedding @ 50° to CA.										
49.38	60.66	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, medium green, propylitically altered, fine grained basalt; feldspar (<2mm) phyric in part. Some chlorite + quartz + albite ± pyrite veinlets. Lower contact indistinct.										
60.66	66.60	BASALT FLOW BRECCIA: SILICIFIED Greenish black and white, silicified, aphanitic basalt flow breccia and interflow chert. Chlorite fractures in siliceous/cherty sections. Lower contact @ 50° to CA.										
66.60	77.50	BASALT FLOW: PROPYLITIC Medium green, propylitically altered, fine grained basalt flow; minor flow breccia and interflow tuffaceous sediment.										
77.50	149.96	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, medium to dark green, propylitically altered, fine grained basalt; variable feldspar (1-3mm) ± amphibole (<1mm) phyric sections. Minor chlorite amygdaloidal (<2mm) sections. Vein types include (i) calcite + actinolite + chlorite veins, (ii) quartz + chlorite + albite + epidote veins, and (iii) bluish green silica fractures. 82.91 83.52 FAULT 'Crush zone'; unaltered sand size core @ 30° to CA. 83.52 0.										
149.96	159.72	VOLCANIC SEDIMENTS: SILICIFIED Medium grey, silicified, tuffaceous siltstone and argillite. Fracture controlled epidote + silica veinlets (randomly orientated). Laminations or banding not recognized. Lower contact sharp @ 40° to CA.										
159.72	170.38	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, medium green, propylitically altered, feldspar (1-3mm) phyric, fine grained to aphanitic basalt. Rare quartz + epidote + chlorite + magnetite veinlets.										
170.38	200.25	VOLCANIC SEDIMENTS: SILICIFIED Laminated, green to greyish black, siliceous, feldspar ± amphibole phyric basalt ash tuff, tuffaceous argillite and siltstone. Laminations @ 30° to CA. 188.98 189.59 FAULT Broken and fractured (chloritic) core; minor gouge @ 40-60° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
200.25	215.34	BASALT UNDIFFERENTIATED: SILICIFIED Undifferentiated, dark green, siliceous, feldspar (1-3mm) phyric, fine grained to aphanitic basalt. Lower contact @ 40° to CA.										
215.34	232.87	VOLCANIC SEDIMENTS: Laminated, greenish grey to dark grey, basaltic ash tuff and tuffaceous argillite. Vein types include: (i) fractures with silica envelopes and (ii) chlorite + magnetite + pyrite veinlets (<1cm). Lower contact sharp @ 20-30° to CA.										
232.87	248.11	BASALT FLOW: Dark green, fine grained to aphanitic basalt flow; rare chlorite ± pyrite amygdules (<5mm). Minor albite + quartz + chlorite veinlets (<1cm). Lower contact sharp @ 20-30° to CA.										
248.11	250.24	VOLCANIC SEDIMENTS: BIOTITIC Faintly laminated, greenish brown, biotite ± silica altered basalt ash tuff and tuffaceous argillite. Laminations @ 45° to CA. Lower contact sharp @ 30° to CA.										
250.24	287.12	BASALT FLOW: Similar to 232.87 - 248.11 metres.										
287.12	315.77	BASALT UNDIFFERENTIATED: Undifferentiated, medium green, feldspar (1-2mm) phyric, fine grained basalt (felted texture). Minor quartz + chlorite ± pyrite ± magnetite veinlets. 304.50 306.17 FAULT Broken and fractured (chloritic) bleached core; fractures @ 30° to CA.										
315.77	320.65	VOLCANIC SEDIMENTS: BIOTITIC Faintly laminated, dark brown to black, biotite altered, tuffaceous argillite. Laminations @ 30-40° to CA. Lower contact sharp @ 40° to CA.										
320.65	433.12	BASALT FLOW: Similar to 232.87 - 248.11 metres. Lower contact irregular. 336.80 338.94 VOLCANIC SEDIMENTS: Laminated, brown and cream, biotite altered tuffaceous argillite and chert. 394.72 397.76 FAULT Broken and fractured (chlorite) core; minor clay gouge @ 30° to CA. Prehnite infilling some fractures. 425.20 427.33 VOLCANIC SEDIMENTS: Laminated, dark greenish brown, biotite ± silica altered, basalt ash tuff and tuffaceous argillite.										
433.12	439.83	FAULT Fault breccia infilled by quartz + carbonate ± chlorite ± medium grained pyrite; angular breccia clasts are in part interlocking. Lower contact @ 30° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
439.83	463.91	BASALT ASH TUFF: Brownish green, biotite altered, fine basalt ash tuff; rare lapilli (<1cm) size clasts. Chlorite + epidote ± garnet veinlets with silica envelopes (<5mm) increasing towards bottom of interval. Lower contact gradational.										
463.91	497.28	BASALT LAPILLI TUFF: SILICIFIED Layered, medium to light green, sericite + chlorite altered basalt (?) lapilli tuff; minor jasper + magnetite lapilli and laminae.										
497.28	529.89	BASALT ASH TUFF: BIOTITIC Brownish green, biotite ± silica altered, fine basalt ash tuff and tuffaceous argillite. Lower contact @ 40° to CA.										
529.89	550.62	BASALT LAPILLI TUFF: SERICITIC Medium green ± maroon, sericite + chlorite + hematite altered, basalt lapilli tuff. Lapilli are angular (<1cm) and mainly felsic (?) volcanic. Matrix is dark green to maroon, hematitie + chlorite altered ash tuff. Some chlorite veinlets with irregular albite envelopes (<3cm). Lower contact gradational with felsic volcanic rocks.										
550.62	561.44	DACITE LAPILLI TUFF: PROPYLITIC Greyish green, propylitically altered, feldspar (1-2mm) phyric, homolithic dacite lapilli tuff and flow breccia. Irregular zones of pervasive albite + chlorite alteration. Lower contact flow brecciated.										
561.44	567.54	DACITE FLOW: PROPYLITIC Greyish green ± maroon, propylitically altered, feldspar (1-3mm) phyric, aphanitic dacite flow. Chlorite + epidote ± garnet veinlets with albite envelopes (<1cm).										
567.54	601.22	DACITE FLOW BRECCIA: PROPYLITIC Similar to 550.62 - 561.44 metres; however majority of interval appears to be flow breccia.										
601.22	657.00	FAULT Foliated, medium green, basalt ash and lapilli tuff; weak chlorite ± sericite alteration. Quartz + epidote + chlorite ± garnet ± albite veinlets and irregular zones. Numerous 'crush zones (.10-2.0 metres)' of sandy core @ 50-90° to CA; no displacement of veinlets across 'crush zones'. Lower contact @ 50° to CA.										
657.00	663.24	DACITE LAPILLI TUFF: PROPYLITIC Light to dark greyish green, propylitically altered dacite lapilli tuff; in part feldspar crystal rich. Chlorite veinlets with albite envelopes (4mm). Lower contact @ 50° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
663.24	684.89	VOLCANIC SEDIMENTS: Layered, dark olive green, chlorite ± sericite altered ash tuff and tuffaceous argillite. Some quartz + chlorite veinlets. Layering @ 30-40° to CA.										
684.89		EOH										

Hole No: TCU90-29B
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15523.12
(metres) E: 10601.23

Azimuth: .0
Dip: -90.0
Length (m): 800.71
Elevation: 113.32
(metres)
Purpose:

Core Size: BQ
Drill Name: Underground
Contractor: Coates
Started: October 16, 1990
Completed: December 6, 1990
Recovery: Good

Date Logged:
Logged By: R.J. Aulis & M.J. Casselman
Date Re-logged: November 1, 1992
Re-logged By: G.L. Dawson
Report Printed: 9 Feb, 1993
4:23am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	.0	-90.0															
426.7	.0	-90.0	548.6		-88.7	670.6	89.0	-88.5	792.5		-88.5						

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	525.78	CASING ADDED UNIT										
525.78	533.09	BASALT UNDIFFERENTIATED:										
533.09	536.45	BASALT LAPILLI TUFF: SILICIFIED , WITH DISSEMINATED PYRITE										
536.45	539.80	BASALT LAPILLI TUFF: CHLORITIC										
539.80	542.09	BASALT UNDIFFERENTIATED:										
542.09	561.14	DACITE LAPILLI TUFF: HEMATITIC										
561.14	562.97	DACITE FLOW:										
562.97	565.71	DACITE FLOW:										
565.71	568.45	BASALTIC DYKE:										
568.45	571.80	DACITE FLOW:										
571.80	576.68	VOLCANIC SEDIMENTS:										
576.68	584.76	DACITE LAPILLI TUFF:										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
584.76	594.97	VOLCANIC SEDIMENTS:										
594.97	602.59	DACITE LAPILLI TUFF:										
602.59	604.11	DACITE FLOW:										
604.11	605.48	DACITE FLOW BRECCIA:										
605.48	608.69	DACITE FLOW:										
608.69	615.09	DACITE LAPILLI TUFF: SERICITIC										
615.09	617.22	BASALTIC DYKE:										
617.22	640.69	DACITE LAPILLI TUFF:										
640.69	644.65	VOLCANIC SEDIMENTS: BIOTITIC										
644.65	676.96	BASALT UNDIFFERENTIATED: SILICIFIED										
676.96	722.99	BASALT LAPILLI TUFF: PROPYLITIC Dark olive green, propylitically altered, basalt lapilli and ash tuff; some amphibole (<3cm) and feldspar (<4mm) crystal rich sections. Lapilli are mainly basalt in composition, <3cm diameter, angular and matrix supported.										
722.99	800.71	BASALT FLOW: SILICIFIED FAULT Dark green to black, siliceous, fine grained to aphanitic basalt flow; minor interflow tuffaceous sediment. Vein types include (i) chlorite fractures with silica envelopes (3mm) and (ii) epidote + quartz + garnet veins (<30cm). Numerous 'crush zones (50-80° to CA)' starting @ 785.32 metres to end of hole.										
800.71		EOH										

Hole No: TCU91-30
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.67
(metres) E: 10596.24

Azimuth: 159.8
Dip: -76.0
Length (m): 645.90
Elevation: 113.23
(metres)

Core Size: NQ
Drill Name: Boyles 37A
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: July 11, 1991
Completed:
Recovery:

Purpose: To provide infill DDH data between deep 1990 sulphide intersections.

Date Logged: July 12, 1991
Logged By: R.J.A.
Date Re-logged:
Re-logged By: W. Melnyk
Report Printed: 9 Feb, 1993 4:23am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	159.8	-76.0															
3.0	159.7	-76.0	93.0	157.8	-75.9	183.0	157.2	-75.7	273.0	157.1	-75.3	363.0	157.5	-75.2	453.0	158.2	-75.1
9.0	159.6	-76.0	99.0	157.8	-75.9	189.0	157.0	-75.6	279.0	156.9	-75.3	369.0	157.6	-75.2	459.0	158.4	-75.1
12.0	159.5	-76.0	102.0	157.7	-75.9	192.0	156.9	-75.6	282.0	156.9	-75.3	372.0	157.7	-75.2	462.0	158.5	-75.1
15.0	159.4	-75.9	105.0	157.8	-75.9	195.0	156.8	-75.6	285.0	156.9	-75.3	375.0	157.8	-75.2	465.0	158.5	-75.1
18.0	159.4	-75.9	108.0	157.8	-75.8	198.0	156.9	-75.6	288.0	157.0	-75.3	378.0	157.7	-75.2	468.0	158.5	-75.1
21.0	159.5	-75.9	111.0	157.9	-75.8	201.0	157.0	-75.6	291.0	157.1	-75.3	381.0	157.7	-75.2	471.0	158.6	-75.1
24.0	159.4	-75.9	114.0	158.0	-75.8	204.0	157.0	-75.6	294.0	157.1	-75.2	384.0	157.7	-75.2	474.0	158.6	-75.1
27.0	159.3	-75.9	117.0	157.9	-75.8	207.0	157.1	-75.5	297.0	157.2	-75.2	387.0	157.6	-75.2	477.0	158.7	-75.1
30.0	159.1	-75.9	120.0	157.9	-75.8	210.0	157.2	-75.5	300.0	157.3	-75.2	390.0	157.7	-75.2	480.0	158.7	-75.1
33.0	159.1	-75.9	123.0	157.9	-75.8	213.0	157.3	-75.5	303.0	157.2	-75.2	393.0	157.8	-75.2	483.0	158.7	-75.0
36.0	158.9	-75.9	126.0	157.9	-75.8	216.0	157.3	-75.5	306.0	157.2	-75.2	396.0	157.8	-75.2	486.0	158.8	-75.0
39.0	158.9	-75.9	129.0	157.9	-75.8	219.0	157.3	-75.5	309.0	157.2	-75.2	399.0	157.9	-75.2	489.0	158.9	-75.0
42.0	158.8	-75.9	132.0	157.9	-75.8	222.0	157.4	-75.5	312.0	157.2	-75.2	402.0	157.8	-75.2	492.0	159.0	-75.0
45.0	158.7	-75.9	135.0	158.0	-75.8	225.0	157.5	-75.5	315.0	157.1	-75.2	405.0	157.7	-75.2	495.0	159.0	-75.0
48.0	158.7	-75.9	138.0	157.9	-75.9	228.0	157.6	-75.5	318.0	157.0	-75.2	408.0	157.8	-75.2	498.0	158.9	-75.0
51.0	158.6	-75.9	141.0	157.8	-75.8	231.0	157.5	-75.4	321.0	157.0	-75.2	411.0	157.9	-75.2	501.0	158.9	-74.9
54.0	158.5	-75.9	144.0	157.7	-75.8	234.0	157.4	-75.4	324.0	157.1	-75.2	414.0	157.9	-75.2	504.0	158.8	-74.9
57.0	158.4	-75.9	147.0	157.6	-75.7	237.0	157.4	-75.4	327.0	157.2	-75.2	417.0	157.9	-75.2	507.0	158.9	-74.9
60.0	158.4	-75.9	150.0	157.6	-75.8	240.0	157.4	-75.4	330.0	157.3	-75.2	420.0	158.0	-75.2	510.0	158.9	-75.0
63.0	158.3	-75.9	153.0	157.6	-75.7	243.0	157.3	-75.4	333.0	157.4	-75.2	423.0	158.0	-75.2	513.0	159.0	-75.0
66.0	158.2	-75.9	156.0	157.7	-75.7	246.0	157.2	-75.4	336.0	157.5	-75.2	426.0	158.1	-75.2	516.0	159.1	-75.0
69.0	158.1	-75.9	159.0	157.6	-75.7	249.0	157.1	-75.4	339.0	157.5	-75.2	429.0	158.1	-75.2	519.0	159.1	-75.0
72.0	158.0	-75.9	162.0	157.5	-75.7	252.0	157.2	-75.4	342.0	157.5	-75.2	432.0	158.0	-75.2	522.0	159.0	-75.0
75.0	158.0	-75.9	165.0	157.4	-75.7	255.0	157.3	-75.4	345.0	157.5	-75.2	435.0	158.0	-75.1	525.0	159.0	-75.0
78.0	157.8	-75.9	168.0	157.3	-75.7	258.0	157.2	-75.4	348.0	157.6	-75.2	438.0	157.9	-75.1	528.0	159.0	-75.0
81.0	157.8	-75.9	171.0	157.3	-75.7	261.0	157.2	-75.4	351.0	157.6	-75.2	441.0	158.0	-75.1	531.0	159.1	-75.0
84.0	157.8	-75.9	174.0	157.3	-75.7	264.0	157.2	-75.4	354.0	157.6	-75.2	444.0	157.9	-75.1			
87.0	157.8	-75.9	177.0	157.3	-75.7	267.0	157.2	-75.3	357.0	157.7	-75.2	447.0	158.0	-75.1			
90.0	157.7	-75.9	180.0	157.2	-75.7	270.0	157.1	-75.3	360.0	157.6	-75.2	450.0	158.1	-75.1			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	1.20	CASING										
1.20	10.80	BASALT FLOW: Dark green fine to medium grained basaltic unit, mottled and weakly brecciated, weakly chlorite altered. - Core broken, average length 10 - 20 cm, along sharp fractures in calcite/pyrite linings. - Thin erratic microfractures at low angles to core angle - 2-5 per foot. - Flow margins difficult to detect, possible margin here strong white quartz/ chlorite seams occur at 6.1 m, 7.3 m, 8.5 m, 9.0 m. - Py, cpy, qtz, chl infilling irregular voids as at 4.3 m, 4.7 m. 9.00 10.00 Qtz, epidote flooded interval/veined at 20-30° to core axis, microfractured and healed, competent, very hard, trace fine disseminated pyrite.										
10.80	22.40	BASALTIC TUFF: (Volcaniclastic)/fine ash tuff (bedded). 10.80 13.30 Fine bedded dark grey-black, fine grained ash tuff-sediment. - Bedding 25-30° to core angle. - Core broken, aug 5-15 cm segments. 13.30 15.40 Massive poorly sorted debris flow, fine to medium grained matrix at 10% subrounded clasts of fine grained bedded sediment below 13.7 m. 15.40 22.40 As 10.8-13.3, finely bedded, lighter grey-green in colour, chloritic; bedding oriented 30-35° to core axis; core competent to 18.3 m, average 30-40 cm pieces. 18.30 22.40 Core fractured, broken, angular 5-10 cm pieces, reddish hematite lining fracture surfaces ± py, calc. - Thin medium-green, medium-grained basalt dykes at 17.3-17.5, 17.7-17.9 m; dykes have finer (chilled) margins and are cut by qtz calc veins are right angle to dyke orientation (almost parallel to bedding).										
22.40	24.20	FAULT Broken, strongly fractured bleached light grey-green intreval, fractures, cracks are calcite and chlorite filled; recovery poor; minor gouge throughout, strong at 23.7-24.1 m.										
24.20	29.80	BASALT FLOW: Fine-grained medium-dark green chloritic interval; fairly textureless but for faint interval irregularities, faint banding, brecciations. Possibly also an intrusive basalt but contains occasional faint chlorite-filled rounded forms approximately 1-2 mm diameter amygdules. Top contact at FAULT, lower contact sharp, irregular; core competent though cut by frequent calc/chl healed hairline fractures, no veins.										
29.80	36.40	BASALTIC TUFF: CHLORITIC										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

Fine-grained volcaniclastic, fine to medium bedded (<1 mm to >10 cm), bedding often faint; oriented at 38° to core axis; dark grey-green to black in colour, locally bleached light grey about occ. Silica-chlorite veins, abundant crackle fractures and fossilized microfaults with <1 cm displacement across beds.
34.60 36.40 50% green silica-chlorite veining, very hard, floods the sediment. - Lower contact put at first appearance of small felsic dyke.

36.40 42.20 BASALTIC TUFF: SILICIFIED
Intervals of above andesite volcaniclastic/tuff. Intensely silicified and albitized. Very fine grained glassy texture. - Highly fractured and broken interval of dyke and host rock mixture; dyke is a pale creamy green, very hard fine-grained felsic (rhyolite-quartz eyes present), locally faintly banded (i.e. 38.3 m), chilled margins; dykes strongly mixed and fractured bleached, altered host volcaniclastic-calcite veined, silicified with sericite/chlorite alteration.
40.50 42.20 Dominantly brecciated crackle fractured chlorite fine-grained volcaniclastic lower contact sharp at 50° to core axis.

42.20 46.00 BASALT FLOW:
Dark green to black fine-grained intrusive hosting 25% light 0.1-2.0 mm light feldspar phenocrysts, anhedral, matrix supported. Moderately hard, competent (pieces average 20 cm), only lightly fractured. - Phenocrysts dramatically reduced over last 0.8 m - drilled margin.

46.00 46.90 BASALT FLOW: SILICIFIED
As at 36.4-42.2 light creamy greenish, strongly veined and fractured (qtz ± calcite); lower contact highly irregular, chilled, at angles to core axis. Intense albite alteration.

46.90 55.00 BASALT FLOW:
As above 42.2-46.0 m with slightly varying abundances of feldspar phenocrysts and the presence of 2-5% altered pyroxenes. - Lower contact chilled at 60° to core axis.

55.00 83.10 BASALT FLOW: CHLORITIC
(± Reworked pyroclastics) chlorite to biotite altered. Dark green fine to medium grained coarsely textured basalt volcanics with brecciated, veined appearance throughout; possibly a bit dacitic in composition locally as core quite hard - leaves patchy knife - note abundant qtz and chlorite diffuse veins of mottled green and creamy white, oriented to varying angles to core axis. - Est. 1-2% py as fine disseminated, clots or fracture linings. - Very fine biotite assumed to be cause of brown tint noted locally, especially at 62.5-66.5. - Weak bedding/flow banding such as at 66-67.3 m oriented at 20-30° to core axis; difficult to distinguish between brecciated flow banding and pyroclastic fragmental; entire

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

package quite disruptive. Disrupted in 2-10 calc/py/chl healed fractures per foot. - Core only weakly competent, broken to 10-20 cm pieces, smaller where fracturing intensive.

67.50 73.20 Increase in siliceous character and pyroclastic fragmental appearance - representing possibly a pulse of more dacitic volcanization? or simply stronger siliceous alteration in more 'permeable' interval as there is distinct incr. Siliceous alteration in more 'permeable' interval as there is distinct incr. In qtz veining.

78.00 Bedding/flow banding distinct at 35° to core angle.

79.80 83.10 Very fine grained dark grey/black, only weakly fractured though less competent with core broken to 5-10 cm pieces; massive. - Lower contact bleached, siliceous over 10 cm, sharp at 55° to core axis.

83.10 146.70 BASALT UNDIFFERENTIATED: CHLORITIC

Massive, homogeneous, ; medium to coarse grained dark to mid-green montonous interval; 1-2 fractures per metre, rare thin (<1 cm) qtz ± epidote vein. - Slight changes in composition, grain sizes; internal brecciation or xeroliths rare.

90.80 Marks slight change to darker green and coarser grain size-densely packed irregular crystals up to 3-4 mm size.

95.80 Interflow margin? - finer grained over 5 cm, with weak interval brecciation to 97.3 m.

100.10 1 cm wide calc-epidote-magnetite bearing vein at 40° to core angle.

103.40 1 cm wide py-mt vein.

111.00 114.40 Veined, strongly fractured at 5-10° to core axis, 4 cm wide qtz/calc vein running subparallel to core axis accompanied by shallow angle fractures and breaking of core.

114.10 114.40 'Fine banding' in 10-15% dark magnetite at 10° to core axis.

125.70 Band of mt, cpy, py 2 cm wide.

134.30 134.60 Small internal dyke. Finer grained, fractured contacts at aproxmiately 50° to core angle.

140.30 Marks an internal contact between dark harder basalt and lighter grey-green soft and weakly finer grained basalt, different pulses; the darker being later as shows a fining of grain size approaching a chilled margin.

146.30 146.70 Lower contact, irregular, diffuse.

146.70 158.40 BASALT ASH TUFF: SILICIFIED

- Jumbled brecciated veined interval of fine to very fine grained dark grey/green volcanics of moderate hardness, local quite hard enough to leave knife; veins are siliceous ± chlorite and oriented 20-30° to core angle, <1 mm wide. - Larger 'veins' of difuse silica and chlorite could represent flow margins. - Lower contact sharp at 57° to core angle, fractured.

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
158.40	164.00	BASALT UNDIFFERENTIATED: - As above 146.7 m a medium grained mid grey/green homogeneous interval, locally weakly pyroxene-phyric; only weakly fractured (1 per metre), no veins. - Weak trachytic texture near margins, alignment of coarser mafic crystals parallel to contact; contacts not notably chilled though sharp. Lower contact at 60° to core axis.										
164.00	166.10	BASALT UNDIFFERENTIATED: - Small interval of mixing of above two rocks, both fine and medium grained types of similar composition with no sharp contacts between the two. - Stongly fractured and broken to <10-15 cm pieces.										
166.10	172.40	BASALT UNDIFFERENTIATED: As previous - a medium to coarse grained mid grey/green uniform homogeneous interval of competent non-fractured non-veined intrusive in weakly trachytic margins. - Upper contact vague, broken; lower contact sharp at 54° to core axis.										
172.40	257.00	BASALT FLOW: CHLORITIC (With probable intrusive phases) Fine to locally medium grained dark grey-green veined and fractured volcanics - interpreted to be primarily flows due to massive (non-fragmental) brecciated character with bands of probable flow margin material - silica, chl, mt. - Vague flow banding noted at 20-30° to core angle, most prominent at 172.4-180.0 m. - Vesicles as faint chlorite ± silica ± fine py, cpy, infilled ovoid shapes 1-3 mm dia. Scattered irregularly throughout. Noteable examples at 180-183.7, 185.8, 192.6-193.5, 195.7-196.2 m, etc. 172.40 180.00 Very fine grained crudely band, strongly veined interval; very hard, silica flooded by the silica/chl veins in bleached silicified rims, banding oriented 20-30° to core axis. 183.60 185.00 Core bleached lighter grey-green in patch widespread epidote alteration. Epidote continues along thinner veins and partings below 185.0. 185.30 185.60 Chl/epid/mt vein at 5° to core axis. 200.00 209.70 BASALT UNDIFFERENTIATED: ~ 200.0 marks top of very homogeneous, undisturbed (no veins/fractures) interval which could represent intrusive basalt phase, no distinct contact to mark margins, just gradual coarsening grain size over several metres and fewer veins or signs of brecciation; still contain chlorite ± qtz filled vesicles (1-2%) matrix of abundant micaceous and acicular crystals about larger (1 mm) altered plagioclase xtals. 209.70 214.60 Finer grained again in 1-2 qtz/chl veins per foot (± calc, mt, py), very minor brecciation. Presence of amygules, finer grained nature and faint signs of brecciation suggest											

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		massive andesite flows, as do occ. Selvages 1 to 3 m spaced.										
	214.60 214.80	Examples of possible selvages, flow margins - calcareous siliceous bands irregular edges, dissem sulphides, 0.5-3.0 cm wide, andesite becomes finer grained as approach these bands.										
	227.90 232.50	BASALT UNDIFFERENTIATED: Particularly thick flow? - coarser grained 5 m wide interval with crystals up to 2-3 mm (altered feldspars, pyroxenes, anhedral) distinctly aligned at ~ 45° to core axis over top 1.5 m, contacts faint, finer grained and not sharp. Possibly a thick flow or sill.										
	233.50 234.00	'Chilled' aphanitic interval.										
	239.20	Faint (flow) banding at 40° to core axis.										
	241.50	Probable flow margin spaced 1.0-1.5 m apart. Qtz, calc, chl ± disseminated py bands 1-6 cm wide oriented 30-50° to core angle, continue to depth for 10's of metres. - Note occasional brown to reddish brown tint to suggest presence of fine grained biotite.										
	250.60 251.20	Qtz veined intreval - thin discontinuous veins in 3-4% disseminated euhedral py and 0.5% cpy - abundant amygdules qtz/chl filled ± py.										
	253.80	Below this core becomes blocky, broken to 5-20 cm pieces on average, increase in fine fracturing.										
257.00	261.70	BASALT FLOW: Dark green to green/grey medium grained homogeneous interval more competent than immediately overlying extrusive finer grained material in fewer fractures or veins. Scattered faint ovoid stages-vesicles. Upper contact brecciated, blocky, weakly bleached. Lower contact drawn at first appearance of felsic dyke and top of blocky interval.										
261.70	269.20	VOLCANIC SEDIMENTS: Biotite brown tuffaceous sediments. Brown biotite altered silicified rock possibly an extra fine tuffaceous sediment and <10% siliceous felsic dyke clots or fragments. - Abundant silica veining, generally irregular and patchy. - Bleaching and porphyroblast development common where strongest veined/altered. 268.90 269.10 FAULT Gouge.										
269.20	276.80	BASALT FLOW: CHLORITIC Occasional amygdule/vesicle rich intervals, and silica/chl ± py bands - flow margins/selvages. - Medium grained mid grey-green, moderate hardness - leaves patchy knife. - Lower contact at 40° to core axis, weakly sheared, strongly chloritic.										
276.80	322.00	BASALT FLOW: CHLORITIC Fine to medium grained homogeneous flow, mid to dark grey/green colour. Homogeneous, local rare vein-related, weak brecciation. - Equigranular in										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

no preferred sense of orientation (isotropic); quite hard, difficult to scratch with knife. - Cut by occasional (1 per 3 metre) qtz vein ± mt, calc, ankerite, chlorite.

285.90 Patch of qtz and 15 cm zone of strongly porous material, coarse acicular chloritied mafics skeletally arranged.

299.50 Wavy qtz, chl, vein in abundant not at 20° to core axis.

305.20 305.80 Weakly banded, chilled to strongly chloritic green and weakly banded interval, could also represent a thin dyke of more felsic nature with attendant chloritic alteration of basalt. Similar 10 cm interval seen at 294.7 m.

309.70 (Also 313.0, 313.7, 319.0) White bull qtz veins 1 mm to 8 mm wide at various angles all beaching the surrounding basalt to light green; increase fine silica healed hairline fractures. - fine to medium grained homogeneous unit described as above. - 2-3 fractures/breaks per metre often at <30° to core angle, no slickensides. - Lower contact sharp, chlorite-silica vein/shear, oriented at 60° to core axis.

322.00 342.90 BASALTIC TUFF:

- Banded dark grey - light grey pyroclastic-com-volcaniclastic varying in degrees of sorting, banding, siliceous character and hematite content. Top 5 or 6m shows definite fining upwards sequence from fine ash tuff down to coarser lapilli sized clasts.

322.00 322.80 Dark grey - grey/brown very fine grained disturbed/boudined ash tuff, in boudined bands of lighter cherty material. - 2% fine py as clots, stringers and weak dissem.

322.80 325.50 Medium bedded tuff, medium grained volcaniclastic with bedding now quite distinctive. 0.2-3.0 cm wide beds of alternating dark grey tuff and more siliceous light grey tuff in minor chert bands at 323.3 m; below 323.6 develops a flaser-like texture, flowing of lighter siliceous material around darker 0.1-1.5 cm clasts, all aligned parallel to bedding at 40° to core angle.

325.50 330.60 Crudely or poorly bedded-interval, much more disrupted, unsorted looking in sporadic bands of light grey more felsic/siliceous matter aligned parallel to crude bedding within chlorite basaltic finer grained matrix hosting clots of reddish hematite. Widespread albite alteration, chlorite healed fractures. - Contains ~ 1% fine euhedral disseminated pyrite.

330.60 334.40 Mid grey relatively homogeneous poorly to moderately bedded tuff. Fine to medium grained becoming finer and lighter tan towards bottom of interval. - Weakly to moderately sericite altered with occasional sericite wisps. Pervasive albite alteration.

334.40 338.40 DACITE LAPILLI TUFF: Hard siliceous coarse pyroclastic is

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		0.2 to 5.0 cm light siliceous clasts (40%) in a dark grey-green finer matrix (60%). - No quartz eyes noted.										
		338.40 339.00 Small dark green fine gr. Basalt dyke.										
		339.00 342.90 Massive poorly sorted andesite volcaniclastic with 10% dacitic clasts up to 3 m dia. - 2.5% fine scattered blood red hematitic clasts all <1 cm.										
342.90	344.20	BASALTIC DYKE: Fine to medium grained dark green/grey in 1-2 bull qtz veins/ft upper contact chilled/veined at 40° to core axis; lower contact at 47° to core axis.										
344.20	347.40	DACITE FLOW: SILICIFIED Mottled fine grained to aphanitic massive siliceous. - Colour varies from light green to mid grey/green, locally dark green. - Distinguished by 10-15% feldspar phenocrysts scattered almost evenly; fine randomly oriented dark chlorite-filled fractures/veinlets. - Lower contact irregular. Weakly hematitic.										
347.40	353.30	DACITE LAPILLI TUFF: CHLORITIC - Medium to coarse clastic unit, massive, dark grey and poorly sorted. Light grey siliceous dacite fragments - subrounded, 1 mm to 3 cm sized. - Except for dacite clasts the chlorite altered volcaniclastic is easily knife scratched. - 3-4% very fine red jasper/hematitic fragments disseminated throughout, generally <1 mm. - Weak indication of common orientation (bedding) in otherwise massive unit, oriented at 30° to core axis. - Last 1.2 m quite blocky, cut by 6 chlorite-qtz veins at 60° to core axis with chl centres and siliceous leakage into host. - Lower contact sharp at 40° to core axis.										
353.30	362.00	BASALT UNDIFFERENTIATED: CHLORITIC Monotonous, homogeneous medium grained mid to dark green basalt. Finer grained margins and locally intense qtz veining.										
		353.30 356.60 Fractured and veined, white qtz veins up to 20 cm thick, epidote alteration/veining over top 0.8 m only.										
		356.60 360.40 Basalt dyke. Coarse grained very homogeneous mid-green interval.										
		360.40 362.00 Fine grained, veined, fractured lower contact.										
362.00	371.50	BASALT LAPILLI TUFF: CHLORITIC Similar to 347.4-353.3. A moderately dark to soft dark green volcani (± pyro) clastic poorly sorted with common orientation to clasts at 25-30°± to core axis. Abundant quartz-chlorite veining with associated albite alteration halos.										
		365.00 Small 4 cm wide basalt dyke with very sharp contacts at 65° to core axis. - Moderately chlorite altered matrix ± sericite - knife leaves good grooves. - 2-4 silica-chl										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

veins per metre, discontinuous, irregular. - Sharp lower contact at shallow 15° to core axis.

371.50 376.10 BASALT FLOW:
Dark green and brown fine grained homogeneous interval; core relatively blocky and fractured with fractures 80% at <20° to core axis. - Below 374.5m, silicified and weak porphyroblastic development of 2-3 mm lighter rice-shaped forms, softer than dark green/grey matrix - altered phenocrysts? - Sharp lower contact at 65° to core axis.

376.10 379.40 DACITE FLOW BRECCIA: PROPYLITIC
Heterolithic, variable interval of relatively competent hard volcanic breccia with both flow and pyroclastic appearances. - Top 1.2 m dark grey feldspar phyric brecciated flow - like section in sharp silica-chlorite marked lower irregular but sharp contact into...
377.20 377.90 Massive dyke grey soft volaniclastic (basalt?) in weak preferred clast orientation at 25° to core axis.

379.40 383.40 BASALT FLOW: CHLORITIC
A fine to medium grained dark grey/green weakly blocky interval; homogeneous except for some silica-chl veining and possible dacitic xenolith at 380.8-381.0. Widespread cordierite porphyroblasts. - Lower contact very sharp, weakly chilled at 12° to core axis.

383.40 391.80 DACITE LAPILLI TUFF: CHLORITIC
Medium to coarse pyroclastic, mid to light grey unit with variety of textures. - Locally an aphanitic, siliceous, extremely hard, feldspar phyric unit - Generally a fine lapilli tuff to coarse massive tuff in weak fabric at 35°-55° to core axis, locally feldspar phyric (387.9) or containing feldspar clasts. - Moderate to low hardness suggests more basaltic composition to matrix while abundant clasts dacitic.
386.70 387.20 Small basalt dyke subparallel to bedding at 64° to core axis, quite broken and blocky.

391.80 539.50 BASALT UNDIFFERENTIATED:
- Large body of homogeneous medium grained intrusive; monotonous in character with only minor variations in grain size, colour changes from mid green/grey to slightly darker. - Locally weakly to moderately feldspar phyric with up to 25% fine white subhedral feldspar phenocrysts all <1mm. - Internal chilled margin occasionally seen, examples at 411.5, 416.2.
405.00 405.50 Blocky broken interval, no gouge noted.
411.50 412.80 Slight increase in silica-epidote-magnetite veining with association with albite alteration.
416.00 416.20 Sharp calc/qtz vein at 45° to core axis in weak biotitie alteration of host basalt evidenced by faint brown colour.
423.20 429.00 Increase in scattered feldspar porphyritic-rich zones.

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		430.00 432.70 - 30% quartz veins ± epidote, chlorite, calcite. 442.00 450.00 Abundant qtz-epidote tension gashes, generally oriented at 40% to core axis. Up to 5-6 per foot 2-3 mm wide. 445.20 445.40 Small internal lighter basalt dyke. 465.00 470.00 Chlorite-altered ± silica interval with internal brecciation. 475.30 476.90 25% diffuse white qtz veins, oriented roughly 40° to core axis, brecciates the dyke. - Below 485 m a significant increase in epidote-qtz veining stockwork, up to 10 vns/m with varying qtz epidote, trace py, mt. 491.80 Another small 10 cm chilled basalt dyke. 528.60 528.90 Core shattered, no gouge - fracture zone. 533.20 A 15 cm wide shear vein, banded finely, foliated at 40° to core angle possibly related to the shear at 533.2 m. Locally almost a crackle brecciation. 538.60 Lower contact, sharp, very fine grained, slightly undulose at 50° to core axis.										
539.50	549.60	DACITE LAPILLI TUFF: CHLORITIC - A coarse heterolithic pyroclastic; massive with clasts weakly to well-aligned at 40-50° to core axis. - Matrix a dark to mid-grey fine to coarse tuff, locally weakly crystal lithic (feldspar) moderately hard. - Clasts whitish to light grey/green, very siliceous - leaves knife, matrix supported. Estimate 30-35% dacite-rhyolite clasts overall, often amorphous in indistinct clast margins, locally up to 60-70% clasts - clast supported (i.e. 545.6-548.4). Trace of qtz eyes in clasts. - Lower contact with EXT sharp, conformable, 50° to core axis.	R9107613	548.10	549.60	1.50	.00	.00	<.01	<.01	.03	66701
549.60	551.10	EXHALITIC TUFF: SERICITIC Cherty dacite ash tuff. Occasional cherty fragments, barite. - Extremely sericitized, soft and pyritized in significant amounts of sphalerite and galena as fine disseminations, est. 3-4% yellowish sphalerite, ~ 1% galena. - Very fine tetrahedrite/tennatite also disseminated though hard to estimate content due to assoc. Gal and fine grained nature. - Est. Up to 2% - 0.3-0.4% cpy as rare clots or stringers. - Weak banding in central portion at 40° to core axis.	R9107614	549.60	551.10	1.50	.02	1.14	.43	1.48	2.45	66702
551.10	569.30	DACITE LAPILLI TUFF: CHLORITIC Weakly Seric/chl altered. - Higher % of mid to dark grey matrix. Aligned clasts at 40-50° to core axis, sporadic crystal-lithic nature. - Core fractured mildly 1-2 per foot. - Where matrix-rich the tuff is weakly altered by sericite/chlorite. Locally quite soft. 551.10 555.20 Clast rich siliceous intervals with strong feldspar-phyric nature, epidote alteration along some fractures/gashes, est. 50-60% clasts, clast supported. 555.20 569.30 Darker grey matrix-rich interval in ~ 20% lighter dacite lapilli average <1 cm size though up to 8-10 cm.	R9107615 R9107616	551.10 567.60	552.60 569.30	1.50 1.70	.00 .00	.00 .00	<.01 <.01	<.01 <.01	.07 .02	66703 66704

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
569.30	576.10	ZINC FACIES: SERICITIC - Strongly altered interval of fine dacitic ash tuff and disseminated or weakly banded sulphides; alteration involves extreme sericitization, 5-20% py impregnation, tan colour. - Occasional boudinaged chert band as siliceous bands or rounded fragments. - 5-10% dacitic lapilli clasts, light subrounded very siliceous clasts in a sulphide matrix. - Alignment of clasts suggests bedding at 35-40° to core axis. 569.30 569.70 Cherty, siliceous, pale green, to dirty white in a py-rich (50%) fragment 3 X 4 cm at 569.8. 569.70 570.90 Relatively non-textured to weakly banded sericitic fine dacite lapilli-tuff with ser-sulphide-barite matrix about 10-15% siliceous clasts of boudined chert or rhyo-dacite pyroclastic fragments; sulphides as 4-5% straw coloured ZnS, ~ 1 % PbS. < 1% cpy blebs or clots and 10-15% finely dissem py. Gangue of sericite and barite. 570.90 573.70 As above but in much reduced sulphide content - 1-2% ZnS, <1% PbS, cpy and 5% disseminated pyrite, occ. Sulphide rounded fragment. 573.70 575.30 ZINC FACIES: semimassive sulphide matrix about 20% siliceous bands and fragments, gangue portion of matrix barite and sericite, faint banding at 10° to 60° to core axis est 12-15% ZnS, 1-2% PbS, 1% cpy, <1% tetrahedrite. 575.30 576.10 Pale grey, strongly sericitized barren fine lapilli tuff interval. - Lower contact sharp at 46° to core axis.	R9107617	569.30	570.50	1.20	.04	1.09	.47	.97	3.75	66705
			ZBE	569.30	576.10	6.80						
			R9107618	570.50	572.00	1.50	.04	1.00	.36	.58	3.28	66706
			R9107619	572.00	573.50	1.50	.01	.36	.11	.19	.76	66707
			R9107620	573.50	574.40	.90	.04	2.05	.45	1.75	6.85	66708
			R9107621	574.40	575.30	.90	.14	3.27	1.00	.95	8.65	66709
			R9107622	575.30	576.10	.80	.02	.55	.05	.07	.27	66710
576.10	578.10	DACITE LAPILLI TUFF: Dark grey/green chl/ser altered soft matrix of coarse to medium tuff surrounding ~ 10-15% pale rhyo-dac siliceous (much more felsic) clasts. - Top 1.0 m contains ~ 40-50% felsic clasts in a more felsic matrix in contrast to darker, softer more matrix-rich lower half of interval. - Contains ~ 1% disseminated fine pyrite only. - Lower contact irregular at ~ 45° to core axis.	R9107623	576.10	578.10	2.00	.02	.43	<.01	<.01	.02	66711
			Z95	576.10	580.40	4.30						
578.10	578.90	PYRITE FACIES: SERICITIC (Massive pyrite) - Top 20 cm a weakly banded silica-sericite-pyrite zone in 5% ZnS and occ. Large clot of cpy. 578.30 578.70, With MASSIVE PYRITE Massive pyrite, banded at 35° to core axis, barren. 578.70 578.90 Silica (chert) sericite and py clusters and cpy stringers.	R9107624	578.10	578.90	.80	.04	1.78	1.09	.39	4.75	66712
578.90	590.20	EXHALITIC TUFF: SERICITIC Weakly - moderately altered (sericite, pyrite) cherty dacite ash tuff. - Mid to light grey siliceous homogeneous in sericite alteration giving core softer seams and patches; - Pyrite 1-2% as very fine subhedral dissem., locally up to 5%, note also trace ZnS.	R9107625	578.90	580.40	1.50	.02	.68	.07	.14	.11	66713

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
590.20	599.50	BASALT ASH TUFF: A dark grey homogeneous pyroclastic, weakly chl/sericite altered and rendered soft to knife, scratches easily. - Homogeneous throughout; massive in nature with no bedding, only faint alignment of clasts at shallow angle to core axis estimate 2-8°. - 1% pyrite as rare fine dissem. Or fracture lining. - Core very competent except for fracture/fault zone lower in interval. - Rare pink and swelling qtz vein oriented parallel to core axis and/or 'bedding'. 597.10 599.50 Core quite blocky, strongly fractured especially at 597.8-598.1 - FAULTED with trace gouge and slickensides;.										
599.50	600.70	BASALT ASH TUFF: SILICIFIED , WITH DISSEMINATED PYRITE Moderately altered (sericite, pyrite) - A light to mid-grey mottled, siliceous altered basalt,sericitized and containing 2-4% finely disseminated pyrite. - Contacts sharp, upper at 32° to core axis. Lower at 35°.										
600.70	601.50	BASALT ASH TUFF: Similar to 590.2 to 599.5m. Distinct lineation at 45°to 60° to core axis. - Lower contact a banded, qtz veined 20 cm wide zone bearing 5-7% disseminated pyrite/stringers. 600.70 601.50 Distinct banding (foliation?) at 38° to core axis - bedding?										
601.50	618.00	BASALT FLOW: CHLORITIC Dark green fine grained homogeneous andesitic volcanics. Locally brecciated textures and frequent (1 per 1-2 m) shears infilled with chlorite/silica ± calc, py, mt. - Core fractured to blocky in 2-8 fractures per foot, chlorite altered throughout, local weak biotite brown. - Faint to locally well evident fabric oriented at 40-50° to core axis. 601.50 602.20 Foliated at 47° to core axis, weakly sheared contact in chl-biotite alteration. 602.20 605.40 Swirled patterns of strong chlorite alteration, acicular chl with abundant silica bleaching, brecciated, 2-3% py clots. 605.40 607.60 Competent homogeneous interval with only 3-4 hairline fractures. 612.60 Distinct flow contact, very fine grained. 615.70 618.80 Very blocky ground, FRACTURE ZONE with slickensides and gouge at 616.1 m. Calcite healed in part.										
618.00	624.10	BASALT ASH TUFF: Banded and brecciated unit of dark cherty basalt tuff. Distinct light grey 1-4 cm wide cherty siliceous bands, est up to 5 per metre. - Tuffaceous layers nonbedded massive fine tuff with fragments rarely discernable. - Cut by abundant fine qtz veinlets locally bleaching rock. Bedding @50° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		621.60 624.10 More massive unit to 10% qtz-epidote diffuse vein type alteration.										
624.10	645.90	BASALT FLOW: CHLORITIC - As above 618.0 a fine grained dark green basalt flow unit with strong veining, fracturing and flow brecciation. - Moderately to locally strongly chlorite altered, silica/chlorite veining - Variably magnetic. 630.10 639.70 FAULT Very blocky, strongly veined and fractured (qtz-carbonate veins) with pieces average 5-10 cm. *Slickensides common in FAULT GOUGE at 632.6-633.0, locally* foliated at 20° to core axis. 632.20 637.30 Vein breccia, bleached to light grey/green. - Qtz epidote veining/alteration at 639.8-642.7 (1 per metre) with minor mt, garnet.										
645.90		EOH										

Hole No: TCU91-30
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.67
(metres) E: 10596.24

Azimuth: 159.8
Dip: -76.0
Length (m): 645.90
Elevation: 113.23
(metres)
Purpose: To provide infill DDH data between deep 1990 sulphide intersections.

Core Size: NQ
Drill Name: Boyles 37A
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: July 11, 1991
Completed:
Recovery:

Date Logged: July 12, 1991
Logged By: R.J.A.
Date Re-logged:
Re-logged By: W. Melnyk
Report Printed: 19 Feb, 1993 10:05pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9107613	548.10	549.60	1.50		.19	.00	.00	<.01	<.01	.03											
R9107614	549.60	551.10	1.50		35.18	.02	1.02	.43	1.48	2.45											
R9107615	551.10	552.60	1.50		.45	.00	.00	<.01	<.01	.07											
R9107616	567.60	569.30	1.70		.13	.00	.00	<.01	<.01	.02											
R9107617	569.30	570.50	1.20	2.95	48.91	.03	.97	.47	.97	3.75											
R9107618	570.50	572.00	1.50	3.00	43.36	.04	.90	.36	.58	3.28											
R9107619	572.00	573.50	1.50	2.79	11.25	.01	.32	.11	.19	.76											
R9107620	573.50	574.40	.90	3.12	73.43	.03	1.83	.45	1.75	6.85											
R9107621	574.40	575.30	.90	3.60	126.25	.12	2.92	1.00	.95	8.65											
R9107622	575.30	576.10	.80		11.22	.02	.49	.05	.07	.27											
R9107623	576.10	578.10	2.00		8.05	.02	.38	<.01	<.01	.02											
R9107624	578.10	578.90	.80		63.69	.04	1.59	1.09	.39	4.75											
R9107625	578.90	580.40	1.50		11.78	.02	.60	.07	.14	.11											

Hole No: TCU91-31
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.42
(metres) E: 10596.28

Azimuth: 167.1
Dip: -66.3
Length (m): 654.71
Elevation: 113.45 (metres)
Purpose: To test for H and AB zones between TCU90-22 and 89-18.

Core Size: NQ
Drill Name: Boyles 37A
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: July 25, 1991
Completed:
Recovery:

Date Logged: July 28, 1991
Logged By: R.J. Aulis
Date Re-logged: July 30, 1992
Re-logged By: W. Melnyk
Report Printed: 9 Feb, 1993 4:24am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	167.1	-66.3															
3.0	167.1	-66.4	111.0	167.9	-65.5	219.0	171.4	-66.3	327.0	173.0	-66.1	435.0	174.5	-65.5	543.0	175.7	-64.9
9.0	167.2	-66.7	117.0	168.2	-65.5	225.0	171.6	-66.5	333.0	173.0	-66.0	441.0	174.6	-65.4	549.0	175.8	-65.0
12.0	167.2	-66.7	120.0	168.4	-65.4	228.0	171.6	-66.4	336.0	173.1	-65.9	444.0	174.7	-65.4	552.0	175.8	-64.9
15.0	167.3	-66.8	123.0	168.5	-65.4	231.0	171.7	-66.4	339.0	173.0	-65.8	447.0	174.8	-65.4	555.0	175.9	-65.0
18.0	167.3	-66.9	126.0	168.7	-65.6	234.0	171.8	-66.2	342.0	173.0	-65.8	450.0	174.8	-65.4	558.0	175.9	-65.0
21.0	167.4	-66.8	129.0	168.9	-65.7	237.0	171.9	-66.3	345.0	173.0	-65.7	453.0	174.9	-65.3	561.0	175.9	-65.0
24.0	167.4	-66.9	132.0	169.0	-65.7	240.0	172.0	-66.4	348.0	173.1	-65.6	456.0	174.9	-65.3	564.0	175.9	-64.9
27.0	167.4	-66.8	135.0	169.1	-65.7	243.0	172.1	-66.3	351.0	173.1	-65.6	459.0	174.9	-65.3	567.0	176.0	-65.0
30.0	167.4	-66.7	138.0	169.2	-65.6	246.0	172.2	-66.2	354.0	173.1	-65.6	462.0	174.9	-65.3	570.0	176.0	-64.9
33.0	167.4	-66.5	141.0	169.3	-65.7	249.0	172.2	-66.3	357.0	173.2	-65.5	465.0	174.8	-65.2	573.0	176.1	-64.8
36.0	167.4	-66.5	144.0	169.3	-65.6	252.0	172.3	-66.4	360.0	173.3	-65.6	468.0	174.8	-65.1	576.0	176.2	-64.9
39.0	167.5	-66.4	147.0	169.4	-65.6	255.0	172.3	-66.3	363.0	173.3	-65.5	471.0	174.8	-65.1	579.0	176.2	-64.8
42.0	167.6	-66.3	150.0	169.5	-65.6	258.0	172.3	-66.3	366.0	173.2	-65.4	474.0	174.8	-65.0	582.0	176.3	-64.9
45.0	167.6	-66.3	153.0	169.6	-65.6	261.0	172.4	-66.2	369.0	173.3	-65.5	477.0	174.8	-65.0	585.0	176.4	-64.8
48.0	167.5	-66.2	156.0	169.7	-65.6	264.0	172.5	-66.1	372.0	173.4	-65.4	480.0	174.9	-64.9	588.0	176.4	-64.8
51.0	167.6	-66.4	159.0	169.7	-65.6	267.0	172.6	-66.0	375.0	173.4	-65.3	483.0	175.0	-64.9	591.0	176.3	-64.7
54.0	167.6	-66.4	162.0	169.8	-65.7	270.0	172.7	-65.9	378.0	173.5	-65.4	486.0	175.1	-64.8	594.0	176.2	-64.6
57.0	167.6	-66.3	165.0	169.9	-65.9	273.0	172.8	-65.9	381.0	173.5	-65.4	489.0	175.2	-64.9	597.0	176.2	-64.5
60.0	167.6	-66.3	168.0	169.9	-65.9	276.0	172.8	-65.8	384.0	173.5	-65.4	492.0	175.2	-64.8	600.0	176.1	-64.5
63.0	167.6	-66.3	171.0	170.0	-66.0	279.0	172.7	-65.7	387.0	173.5	-65.4	495.0	175.2	-64.8	603.0	176.0	-64.4
66.0	167.6	-66.3	174.0	170.1	-66.1	282.0	172.6	-65.6	390.0	173.6	-65.5	498.0	175.2	-64.8	606.0	176.0	-64.3
69.0	167.5	-66.3	177.0	170.1	-66.1	285.0	172.5	-65.5	393.0	173.7	-65.6	501.0	175.2	-64.8	609.0	176.1	-64.4
72.0	167.5	-66.3	180.0	170.2	-66.2	288.0	172.5	-65.5	396.0	173.7	-65.6	504.0	175.2	-64.8	612.0	176.2	-64.3
75.0	167.6	-66.2	183.0	170.3	-66.2	291.0	172.5	-65.4	399.0	173.7	-65.5	507.0	175.1	-64.7	615.0	176.3	-64.2
78.0	167.7	-66.3	186.0	170.4	-66.2	294.0	172.6	-65.5	402.0	173.8	-65.6	510.0	175.2	-64.8	618.0	176.4	-64.3
81.0	167.7	-66.3	189.0	170.4	-66.2	297.0	172.6	-65.5	405.0	173.9	-65.7	513.0	175.2	-64.8	621.0	176.4	-64.2
84.0	167.7	-66.2	192.0	170.5	-66.1	300.0	172.6	-65.6	408.0	174.0	-65.8	516.0	175.2	-64.7	624.0	176.5	-64.2
87.0	167.7	-66.1	195.0	170.6	-66.0	303.0	172.6	-65.6	411.0	174.1	-65.7	519.0	175.3	-64.7	627.0	176.6	-64.2
90.0	167.6	-66.0	198.0	170.7	-66.1	306.0	172.7	-65.7	414.0	174.2	-65.6	522.0	175.3	-64.7	630.0	176.6	-64.2
93.0	167.6	-66.0	201.0	170.8	-66.1	309.0	172.7	-65.7	417.0	174.2	-65.5	525.0	175.4	-64.8	633.0	176.7	-64.1
96.0	167.7	-65.9	204.0	170.9	-66.1	312.0	172.7	-65.7	420.0	174.2	-65.7	528.0	175.4	-64.9	636.0	176.8	-64.0
99.0	167.8	-65.8	207.0	171.0	-66.2	315.0	172.7	-65.7	423.0	174.2	-65.6	531.0	175.4	-64.9			
102.0	167.9	-65.7	210.0	171.1	-66.2	318.0	172.7	-65.8	426.0	174.2	-65.6	534.0	175.4	-64.8			
105.0	167.8	-65.6	213.0	171.2	-66.3	321.0	172.8	-65.9	429.0	174.3	-65.7	537.0	175.5	-64.9			
108.0	167.8	-65.6	216.0	171.3	-66.3	324.0	172.9	-66.0	432.0	174.4	-65.6	540.0	175.6	-65.0			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	1.20	CASING										
1.20	223.30	BASALT FLOW: CHLORITIC Grey-green fine to medium grained flows, massive, local patches lighter coloured altered, bleached. 1.20 10.50 Dark green medium grained flows, massive. 10.50 11.30 Tan, bleached, very hard, quartz, albite, minor pyrite, strongly fractured. 11.30 17.00 Dark green medium grained flows, massive, weak biotite alteration. 13.40 FAULT F - 15° WCA. Minor gouge. 17.00 19.50 Tan, blotchy, altered quartz-albite. 19.50 24.10 Dark green fine grained flows, massive, calcite healed fractures. 24.10 55.00 Intermittent patches of tan, grey, fine to very fine grained flows, locally glassy. Altered, silicified, albitized. Abundant albite-quartz-chlorite veins ± magnetite + hairline altered fractures, locally pervasively altered. Occasionally fractured hematite. Strongly fractured weak flow banding. 55.00 176.00 Dark green, homogenous amphibole, feldspar phyric flows, massive. Amphibole altered to chlorite. Wide-spread chlorite-epidote-quartz-magnetite-albite veins < 1 to 10 cm. 176.00 223.30 Fine to medium grained mottled light and dark green flows, uniform. Epidote-albite-chlorite-quartz altered flow contacts. 221.60 FAULT F: 10 cm bleached, crushed, 30° WCA.										
223.30	234.10	VOLCANIC SEDIMENTS: Brown-green fine to very fine grained unit, massive homogenous faint banding 30° WCA. Thin whisps and disseminations pyrite parallel with bedding. Conchoidal fracture. Wide spread patches of pyrite.										
234.10	237.40	DACITE LAPILLI TUFF: Dark green, crudely banded pyroclastic. Fragments are often cuspate, flattened dark chlorite siliceous irregularly scattered, white, creamy, grey; contain occasional quartz eyes. Abundant hematite as round fragments and tiny disseminations. Bedding-banding 40° WCA.										
237.40	250.00	VOLCANIC SEDIMENTS: Same as 223.3 to 234.1. Uniform, banding more distinct 30° WCA locally contains bluish porphyroblasts. Rock is shattered, fine to very fine grained brown biotitic, trace finely disseminated pyrite, weak epidote-chlorite-albite alteration.										
250.00	265.80	DACITE LAPILLI TUFF: Similar to 234.1 to 237.4. Grey with dark green-black whispy, flattened										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		fragments. These are either chloritic or very hard siliceous. Rounded cream-coloured quartz-eye felsic fragments throughout; 2 mm - 5 cm diameter. Abundant hematite. May be ignimbrite. Banding very prominent at 30° WCA.										
		261.20 262.20 FAULT F: Sheared, bleached, slickensided at 30 - 40° WCA.										
		262.20 265.80 Dacite ash to dust tuff, very fine grained, well banded at 25 to 30° WCA.										
265.80	335.00	DACITE FLOW: PROPYLITIC Grey feldspar phyric felsic unit. Euhedral white feldspar crystals throughout unit. White creamy patches where albite altered. Hematitic throughout. Hard, scattered rounded quartz-eyes locally. Many epidote-quartz-albite-chlorite veins. Short sections autobrecciated. Bottom contact sharp, irregular. Flow banding at 333.5 m 50° WCA.										
335.00	473.30	BASALT FLOW: CHLORITIC As above, units fine to medium grained, medium to dark green mafic flows. Massive, locally feldspar phyric over short intervals, widespread epidote-chlorite-magnetite veins. Minor biotite alteration associated with veining. 354.50 Flow banding 45 - 60° WCA.										
473.30	503.60	DACITE FLOW: PROPYLITIC Generally feldspar phyric, varying shades of grey and dark green, siliceous very hard minor epidote-chlorite-albite- ± magnetite veining. Weakly hematitic. White clasts to 6 cm scattered intermittently. Unit may represent flow breccia and/or debris flow.	R9108741	491.20	492.70	1.50	.00	.00	<.01	<.01	.02	66714
			R9108742	492.70	493.40	.70	.00	.03	<.01	<.01	.05	66715
			R9108743	493.40	493.90	.50	.02	.71	.17	.45	1.37	66716
			R9108744	493.90	495.40	1.50	.00	.03	.01	<.01	.05	66717
			R9108745	495.40	496.90	1.50	.00	.02	<.01	<.01	.03	66718
			R9108746	496.90	498.40	1.50	.00	.04	<.01	.01	.06	66719
			R9108747	498.40	499.00	.60	.00	.22	.05	.11	.41	66720
			R9108748	499.00	500.50	1.50	.00	.06	.01	.01	.07	66721
			R9108749	500.50	502.00	1.50	.00	.02	<.01	<.01	.02	66722
			R9108750	502.00	503.50	1.50	.00	.02	<.01	<.01	.02	66723
			R9108751	503.50	505.00	1.50	.00	.06	<.01	<.01	.03	66724
503.60	506.50	BASALTIC DYKE: Black fine grained basalt, minor pyrite scattered throughout. Bottom contact irregular at 50° WCA.	R9108752	505.00	506.40	1.40	.00	.04	<.01	<.01	.05	66725
			R9108753	506.40	507.30	.90	.12	3.82	1.13	1.50	6.95	66726
			ZBF	506.40	513.40	7.00						
506.50	513.30	ZINC FACIES: SILICIFIED , WITH BANDED SPHALERITE Thinly laminated light brown to tan sphalerite (5-10%), chert, barite and sericite altered dacite ash tuff. Chert clasts locally disrupt laminations locally. Small scale folds throughout interval. Other sulphides include pyrite (5-10%), galena (2%) and chalcopyrite (1%).	R9108754	507.30	508.20	.90	.28	8.48	.85	4.00	12.60	66727
			R9108755	508.20	509.60	1.40	.05	.57	.06	.46	1.12	66728
			R9108756	509.60	510.50	.90	.01	.24	.09	.05	.66	66729
			R9108757	510.50	511.80	1.30	.05	1.89	.88	.63	2.60	66730
			R9108758	511.80	512.90	1.10	.01	.20	.03	.05	.35	66731
			R9108766	512.90	513.40	.50	.07	3.61	.51	2.63	6.95	66740

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
513.30	518.40	EXHALITIC TUFF: SILICIFIED Medium to dark grey, banded siliceous rock; very hard. Minor sericite and relict feldspar crystals; upper 1 metre shade brown; cherty fractures.	R9108759	513.40	514.50	1.10	.00	.05	<.01	.01	.04	66732
			Z99	513.40	518.40	5.00						
			R9108760	514.50	516.00	1.50	.00	.05	<.01	<.01	.01	66733
			R9108761	516.00	517.20	1.20	.00	.03	<.01	<.01	<.01	66734
			R9108762	517.20	518.40	1.20	.01	.19	.06	.07	.32	66735
518.40	520.50	COPPER FACIES: , WITH MASSIVE PYRITE Sections of 90% pyrite. Remainder variable sphalerite and galena banded sections 40° WCA. Minor barite, quartz.	R9108763	518.40	519.80	1.40	.12	3.45	2.24	.08	.62	66736
			ZBG	518.40	523.30	4.90						
			R9108764	519.80	520.50	.70	.19	1.85	2.95	.77	4.85	66737
520.50	527.30	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Faintly laminated grey chert, sericite + pyrite altered dacite tuff and sphalerite. Some disrupted or brecciated sections.	R9108765	520.50	521.40	.90	.03	2.62	.08	.23	.83	66738
			R9108950	521.40	523.30	1.90	.03	4.17	<.01	.17	.36	66739
			R9108951	523.30	524.80	1.50	.01	.58	<.01	.03	.17	66741
			R9108952	524.80	526.00	1.20	.00	.43	<.01	.01	.12	66742
			R9108953	526.00	527.40	1.40	.00	.02	<.01	<.01	.03	66743
527.30	564.30	DACITE FLOW: Massive, greenish grey, feldspar (1-2mm) phyric dacite flow; minor flow breccia @ top of interval. Widespread epidote + chlorite + albite veinlets. Bottom contact sharp @ 30° WCA. 530.70 532.00 BASALTIC DYKE: Basalt dyke, fine grained massive; both contacts @ 30° WCA. 542.70 554.13 BASALTIC DYKE: Basalt dyke, fine grained massive.	R9108954	527.40	528.90	1.50	.00	.01	<.01	<.01	.02	66744
564.30	610.90	DACITE FLOW BRECCIA: DACITE TUFF: Mainly greenish grey dacite flow breccia and homolithic dacite ash and lapilli tuff. Some chert towards bottom of interval.	R9108955	596.50	598.00	1.50	.00	.00	<.01	<.01	.02	66745
			R9108956	598.00	599.50	1.50	.01	.19	<.01	<.01	.02	66746
			R9108957	599.50	600.80	1.30	.00	.16	<.01	<.01	.02	66747
			R9108958	600.80	601.60	.80	.00	.09	<.01	<.01	.04	66748
			R9108959	601.60	602.50	.90	.01	.06	<.01	<.01	.05	66749
			R9108960	602.50	604.00	1.50	.01	.01	<.01	<.01	.02	66750
			R9108961	604.00	604.90	.90	.03	1.26	.39	.54	2.47	66751
			R9108962	604.90	606.40	1.50	.00	.03	<.01	<.01	.03	66752
			R9108963	609.30	610.80	1.50	.00	.05	<.01	<.01	.05	66753
			R9108964	610.80	611.60	.80	.05	1.96	.11	.69	1.87	66754
610.90	621.50	EXHALITIC TUFF: CHERT: , WITH BANDED SPHALERITE Thinly to faintly laminated grey chert, brownish black tuffaceous argillite, dacite tuff and sulphides. Some sections are disrupted by large clasts and debris flows. Sphalerite and pyrite bearing section from 618.50 to 620.00 metres.	R9108965	611.60	612.80	1.20	.01	.23	.01	.04	.15	66755
			R9108966	612.80	614.20	1.40	.02	.61	.12	.24	.82	66756
			R9108967	614.20	615.70	1.50	.01	.23	<.01	.07	.19	66757
			R9108968	615.70	618.20	2.50	.01	.01	<.01	<.01	.02	66758
			R9108969	618.20	619.90	1.70	.03	1.12	.15	.36	1.10	66759
			R9108970	619.90	620.80	.90	.00	.19	.04	.05	.17	66760

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
			R9108971	620.80	621.90	1.10	.02	.90	.36	.13	.64	66761
			ZBH	620.80	626.00	5.20						
621.50	624.50	ZINC FACIES: CHERT: Banded to semi-massive sphalerite (20%), barite, chert, and minor galena and pyrite.	R9108972	621.90	622.50	.60	.03	3.22	.34	.71	2.84	66762
			R9108973	622.50	623.70	1.20	.07	13.37	.53	3.52	14.26	66763
			R9108974	623.70	624.50	.80	.05	2.98	.46	1.45	4.56	66764
624.50	654.71	VOLCANIC SEDIMENTS: Faintly laminated mixed greenish black tuffaceous sediment.	R9108975	624.50	626.00	1.50	.00	.03	<.01	<.01	.04	66765
654.71		EOH										

Hole No: TCU91-31
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.42
(metres) E: 10596.28

Azimuth: 167.1
Dip: -66.3
Length (m): 654.71
Elevation: 113.45
(metres)
Purpose: To test for H and AB zones between TCU90-22 and 89-18.

Core Size: NQ
Drill Name: Boyles 37A
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: July 25, 1991
Completed:
Recovery:

Date Logged: July 28, 1991
Logged By: R.J. Aulis
Date Re-logged: July 30, 1992
Re-logged By: W. Melnyk
Report Printed: 19 Feb, 1993 10:05pm

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9108741	491.20	492.70	1.50		.50	.00	.00	<.01	<.01	.02											
R9108742	492.70	493.40	.70		.40	.00	.02	<.01	<.01	.05											
R9108743	493.40	493.90	.50		22.25	.02	.64	.17	.45	1.37											
R9108744	493.90	495.40	1.50		1.65	.00	.02	.01	<.01	.05											
R9108745	495.40	496.90	1.50		.23	.00	.01	<.01	<.01	.03											
R9108746	496.90	498.40	1.50		1.65	.00	.03	<.01	.01	.06											
R9108747	498.40	499.00	.60		5.72	.00	.19	.05	.11	.41											
R9108748	499.00	500.50	1.50		1.52	.00	.05	.01	.01	.07											
R9108749	500.50	502.00	1.50		.54	.00	.01	<.01	<.01	.02											
R9108750	502.00	503.50	1.50		.56	.00	.02	<.01	<.01	.02											
R9108751	503.50	505.00	1.50		1.11	.00	.05	<.01	<.01	.03											
R9108752	505.00	506.40	1.40		1.55	.00	.03	<.01	<.01	.05											
R9108753	506.40	507.30	.90	3.25	113.54	.11	3.41	1.13	1.50	6.95											
R9108754	507.30	508.20	.90	3.23	221.58	.25	7.57	.85	4.00	12.60											
R9108755	508.20	509.60	1.40	2.81	26.80	.04	.51	.06	.46	1.12											
R9108756	509.60	510.50	.90	2.76	8.42	.01	.21	.09	.05	.66											
R9108757	510.50	511.80	1.30	2.78	51.02	.04	1.68	.88	.63	2.60											
R9108758	511.80	512.90	1.10	2.77	5.58	.01	.18	.03	.05	.35											
R9108766	512.90	513.40	.50	3.81	93.31	.06	3.22	.51	2.63	6.95											
R9108759	513.40	514.50	1.10		1.19	.00	.05	<.01	.01	.04											
R9108760	514.50	516.00	1.50		.19	.00	.04	<.01	<.01	.01											
R9108761	516.00	517.20	1.20		.07	.00	.02	<.01	<.01	<.01											
R9108762	517.20	518.40	1.20		7.68	.01	.17	.06	.07	.32											
R9108763	518.40	519.80	1.40	4.55	81.99	.11	3.08	2.24	.08	.62											
R9108764	519.80	520.50	.70	3.88	139.19	.17	1.65	2.95	.77	4.85											
R9108765	520.50	521.40	.90		24.77	.03	2.34	.08	.23	.83											
R9108950	521.40	523.30	1.90		25.18	.03	3.72	<.01	.17	.36											
R9108951	523.30	524.80	1.50		5.41	.01	.52	<.01	.03	.17											
R9108952	524.80	526.00	1.20		3.47	.00	.38	<.01	.01	.12											

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9108953	526.00	527.40	1.40		1.01	.00	.02	<.01	<.01	.03											
R9108954	527.40	528.90	1.50		.91	.00	.01	<.01	<.01	.02											
R9108955	596.50	598.00	1.50		.50	.00	.00	<.01	<.01	.02											
R9108956	598.00	599.50	1.50		2.33	.00	.17	<.01	<.01	.02											
R9108957	599.50	600.80	1.30		1.69	.00	.14	<.01	<.01	.02											
R9108958	600.80	601.60	.80		1.25	.00	.08	<.01	<.01	.04											
R9108959	601.60	602.50	.90		3.11	.01	.05	<.01	<.01	.05											
R9108960	602.50	604.00	1.50		2.04	.00	.01	<.01	<.01	.02											
R9108961	604.00	604.90	.90		37.05	.03	1.13	.39	.54	2.47											
R9108962	604.90	606.40	1.50		1.41	.00	.03	<.01	<.01	.03											
R9108963	609.30	610.80	1.50		.83	.00	.05	<.01	<.01	.05											
R9108964	610.80	611.60	.80		38.33	.05	1.75	.11	.69	1.87											
R9108965	611.60	612.80	1.20		5.24	.01	.21	.01	.04	.15											
R9108966	612.80	614.20	1.40		15.61	.02	.55	.12	.24	.82											
R9108967	614.20	615.70	1.50		5.09	.01	.21	<.01	.07	.19											
R9108968	615.70	618.20	2.50		2.41	.01	.01	<.01	<.01	.02											
R9108969	618.20	619.90	1.70		24.47	.03	1.00	.15	.36	1.10											
R9108970	619.90	620.80	.90		3.40	.00	.17	.04	.05	.17											
R9108971	620.80	621.90	1.10		16.73	.01	.80	.36	.13	.64											
R9108972	621.90	622.50	.60	2.98	44.93	.03	2.88	.34	.71	2.84											
R9108973	622.50	623.70	1.20	3.05	170.96	.07	11.94	.53	3.52	14.26											
R9108974	623.70	624.50	.80	2.94	63.40	.04	2.66	.46	1.45	4.56											
R9108975	624.50	626.00	1.50		1.85	.00	.03	<.01	<.01	.04											

Hole No: TCU91-32
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.33
(metres) E: 10663.01

Azimuth: 164.1
Dip: -48.4
Length (m): 402.30
Elevation: 112.65
(metres)
Purpose:

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamaond Drilling Ltd.
Started: Aug. 10, 1991
Completed:
Recovery:

Date Logged: Aug. 12, 1991
Logged By: R.J. Aulis
Date Re-logged:
Re-logged By: W. Melnyk
Report Printed: 9 Feb, 1993 4:24am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	164.1	-48.4															
198.0	168.9	-49.3	231.0	169.5	-48.8	264.0	172.0	-48.5	297.0	174.3	-48.8	330.0	175.4	-48.8	363.0	176.0	-48.8
204.0	168.8	-49.4	237.0	169.8	-48.8	270.0	172.5	-48.7	303.0	174.4	-48.7	336.0	175.6	-48.7	369.0	176.1	-48.7
207.0	168.7	-49.3	240.0	170.0	-48.6	273.0	172.7	-48.7	306.0	174.6	-48.7	339.0	175.6	-48.7	372.0	176.1	-48.7
210.0	168.7	-49.3	243.0	170.3	-48.5	276.0	172.9	-48.7	309.0	174.7	-48.7	342.0	175.6	-48.7	375.0	176.1	-48.7
213.0	168.6	-49.2	246.0	170.5	-48.5	279.0	173.0	-48.6	312.0	174.8	-48.7	345.0	175.7	-48.7	378.0	176.0	-48.7
216.0	168.5	-49.1	249.0	170.8	-48.5	282.0	173.3	-48.7	315.0	174.9	-48.7	348.0	175.8	-48.8	381.0	175.9	-48.7
219.0	168.6	-49.1	252.0	171.0	-48.6	285.0	173.4	-48.8	318.0	175.0	-48.7	351.0	175.8	-48.8	384.0	176.1	-48.7
222.0	168.9	-49.0	255.0	171.2	-48.7	288.0	173.7	-48.8	321.0	175.1	-48.6	354.0	175.9	-48.7	387.0	176.1	-48.7
225.0	169.1	-48.9	258.0	171.5	-48.7	291.0	174.0	-48.9	324.0	175.2	-48.6	357.0	176.0	-48.8	390.0	176.3	-48.7
228.0	169.3	-48.8	261.0	171.8	-48.6	294.0	174.1	-48.9	327.0	175.3	-48.7	360.0	176.0	-48.8			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	1.20	CASING										
1.20	12.20	DACITE FLOW: HEMATITIC - Mid-grey siliceous, very hard feldspar phyric massive flow characterized by: - variable purplish discolouration throughout, due to hematite staining - feldspar phyric 2-10% faint white subhedral crystals hosted in - aphanitic to fine-grained siliceous matrix - cut by abundant (2-6 per foot(qtz.-epidote veinlets - blocky; core broken to 3 cm to 20 cm pieces; arg. 10 cm - weakly pervasively magnetic (Avg. K2 Mag. Susc. Reading = 0.93 (10 meas) - cut by occasional white bull qtz. Vein @ 70-90° to C.A.										
12.20	18.30	DACITE FLOW BRECCIA: PROPYLITIC - dark green unsorted matrix supporting felsic lighter clasts and fragments of darker matrix-rich material - matrix of intermediate										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

hardness, locally darkened/altered by sericite/chlorite. Irregular patchs of white albite alteration. - locally weakly magnetic, most notably over top 2 m (Avg. K-2 m rading 0.5 x10-6 CGS units).
12.90 15.00 - Siliceous with abundant chl. Healed microfractures.
15.40 16.00 - FAULT - bleached to pale grey/green, crenulated, locally friable with sheeted qtz.-calc. Fracture healings.
18.00 18.30 - WEAK FAULT - same as above.

18.30 20.80 BASALTIC DYKE:
- Very poorly recovered, broken interval of dark green fine to very fine grained intrusive - appears to be homogeneous and massive; contacts not preserved - strongly magnetic (K-2 reading 4.9 x 10-6 CGS).

20.80 41.40 DACITE FLOW BRECCIA: PROPYLITIC
- Grey to medium green, weakly hematitic, feldspar phyric dacite flow breccia. Abundant chlorite-epidote veining, various orientations, moderately to intensely albite altered. Similar to 12.2-18.3m.
25.40 41.40 Feldspar phyric in 5-15% white subhedral-euhedral crystals 1-2 mm in size within dark green chloritic siliceous fine matrix - occasional clot of deep red hematite or fine dissem. Hematite in matrix to give faint purple hue ± apple green epidote ±magnetite filled gashes/voids.
30.70 32.00 Basalt dykes 5-20 cm wide at various angles to C.A. In magnetite rich margins.

41.40 43.20 BASALTIC DYKE:
- dark green fine grained massive homogenous intrusive - moderate pervasive magnetism (avg. K-2 mag. Reading 2.1 x 10-6 CGS) - sharp upper contact @ 40° to C.A. Only weakly chilled, lower @ 35° to C.A. Chilled over last 1 cm.

43.20 45.60 DACITE FLOW BRECCIA: PROPYLITIC
Dacite flow breccia, similar to 20.8 to 41.4m. Lower contact strongly chloritized, sharp @ 48° to C.A.

45.60 55.20 BASALTIC DYKE:
- dark green, fine grained massive homogeneous intrusive with sharp contacts - slightly coarser grained portions of lighter mid-green colour; inclusions of dacite volcanic fragments up to 40 cm long (ie @ 49.8-50.2, 48.9-49.2); multiple phases giving chilled contacts (ie 49.4-49.6); swirls, segregations of chlorite/magnetite @ various angles to C.A. In occasional py., cpy.
55.19 55.20 - sharp chilled lower contact at 46° to core angle.

55.20 61.40 DACITE FLOW BRECCIA: PROPYLITIC
- subdivided as follows;.
55.20 57.20 - Hard, siliceous, feldspar phyric interval, lacks hematite

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

staining and intense epidote veining.
57.20 58.10 BASALTIC DYKE: med-grained dark green in sharp upper and lower contacts @ 65° and 50° to C.A.
58.10 60.90 Mid-grey heterogeneous interval locally feldspar phyric, chilled lower contact subparallel to underlying bedding @ 50-55° to C.A. (K-2 mag. Reading 0.93 x 10.-6 CGS Avg.).
60.90 61.30 Chlorite/sericite altered to give dark colour and intermediate hardness (leaves patchy knife) - weakly pervasively magnetic (K-2 = 0.86 x 10-6 CGS), locally lightly hematite stained - weakly feldspar phyric, bedding @ 55° to C.A.

61.40 86.80 DACITE FLOW: HEMATITIC
- large, homogeneous, massive interval similar to those previously described with mid-light grey colour pervasively stained purplish by hematite; distinctive silica-epidote fine irregular veins and gashes, occasional white bull qtz. Vein 0.5-2.9 cm wide at 70-90° to C.A.; irregular scattered feldspar phenocrysts at 0-5% white 1 mm subhedral to euhedral crystals - faint local banding and/or fragmentation; ex. Of banding @ 82.3 @ 40° to C.A. (seen sporadically thoughout interval) - weakly pervasively magnetic (K-2 rads 1.2 x 10-6 CGS avg. In little variation but a decrease reading lower contact) - upper contact sharp, distinct @ 60° to C.A.,.
78.50 85.10 - core distinctly blockier, broken to 3-15 cm pieces on avg.
85.50 86.80 - increase in silica/epidote, ~12 veinlets with bleached albite altered rims per foot.
86.70 86.80 - sharp lower contact at a 1 cm wide qtz vein/break @ 88° to C.A. - note sudden drop in magnetic character of rock from ~1 x 10-6 CGS to nearly 0.

86.80 91.90 DACITE LAPILLI TUFF: PROPYLITIC
- dark to mid grey, coarse grained dacite, massive, with scattered lapilli sized clasts of either siliceous/felsic light composition or darker tuffaceous fragments - 5-10% lapilli clasts only, matrix moderately chlorite-sericite altered to render it soft to knife.
87.40 87.70 - strongly feldspar crystal lithic with 10% white euhedral crystals in near-black matrix.
91.00 - light brown bleached biotite altered exotic fragment 20 cm wide, fine grained.
91.70 91.90 - lower contact calcareous, fractured, bleached.

91.90 233.70 BASALT UNDIFFERENTIATED:
- typical dark grey green fine to medium grained (locally coarsed) massive homogeneous, monotonous character, clear felted crystalline textures on broken surface Weakly fractured, 2-3 breaks per metre avg. - rare thin calcite vein ± bleaching of basalt, to light green - occasional chlorite-magnetite segregation as swirls, clasts, bands or fracture

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		infillings - variably magnetic in K-2 readings of 0.2 to >10 x 10-6 CGS averaging ~1x10-6.										
		109.50 122.10 - higher degree of variability with respect to grain size, magnetism, alteration/veining. Locally banded @25-45° to C.A. ±magnetite bleached lighter locally.										
		121.40 122.10 - bleached calcite veined WEAK FAULT ZONE of rubbly broken core, friable with trace gouge.										
		122.10 - grain size now distincly coarser up to 1-2 mm interlocking crystals.										
		126.00 129.00 -- 5 to 6 white bull qtz. Veins @ 80-90° to C.A.										
		137.00 139.00 - bleached slightly and blocky.										
		198.40 204.30 - FRACTURE ZONE ±weak faulting locally - abundant thin calc/qtz healed microfractures/breaks @ low angle to C.A.; core blocky, locally rubbled or even friable (199.5-199.8).										
		209.80 211.30 - as above but weaker FRACTURE ZONE.										
		213.00 213.10 - 1 10 cm mt-rich chlorite altered band.										
		218.20 219.50 FAULT - MODERATE FAULT, rubble, poor recovery, ~20% loose gouge washed away calcite infilling and chlorite altered.										
		219.50 227.00 - increase in abundance of white 1-3 cm qtz. Veins @ 60-90° to C.A. 1-2 per metre down.										
		233.50 233.70 - core fractured and broken, lower contact not recovered.										
233.70	305.90	QUARTZ FELDSPAR PORPHYRY DYKE:										
		Grey fine to medium grained intrusive,coarse porphyritic texture - fresh, unaltered through occasionally weakly bleached about thin (1 mm) calcite veins (1 per metre) - moderate hardness, competent in 2-3 breaks/metre avg. - moderate pervasive magnetism, very constant K-2 readings @ 1.8x10-6 CGS units - distinctive porphyritic texture in 3-4% feldspar euhedral (to subhedral) crystals, 1-8 mm, often displaying strong zoning; 2-3% transluent rounded qtz. Crsytals, 2-3% glomeritic pyrite scattered as 1-3 mm clots though not dissem. In matrix; traces of cpy, occasional mafic dark green phenocryst.	R9109566	300.10	301.60	1.50	.00	.00	.01	<.01	.02	66766
			R9109567	301.60	303.10	1.50	.00	.01	.01	<.01	.01	66767
			R9109568	303.10	304.20	1.10	.11	11.16	1.71	5.15	.08	66768
			ZBI	303.10	312.80	9.70						
			R9109569	304.20	304.80	.60	.21	3.26	2.11	.77	.04	66769
			R9109570	304.80	305.90	1.10	.00	.07	.05	<.01	.02	66770
		233.70 - upper contact broken not preserved, 30-60° to C.A.										
		233.70 234.60 - distinctly finer grained in only ~4 <1 mm phenocrysts.										
		244.00 247.50 - bleached to light green by increase in calcite veins.										
		257.40 257.60 - rubbly core, core ground up, poorly recovered, slickensides or nearby fracture surface suggest very weak fault.										
		278.80 279.60 - shallow fractures/breaks, 0-10° to C.A.										
		284.50 - note vein in epidote/qtz.										
		287.40 288.20 - bleached, veined, broken.										
		301.10 301.40 - silica-epidote alteration parallel to shallow vein/fractures @ 10° to C.A. With bleaching.										
		303.10 - sudden distinct fining of grain/phenocrysts size to end of interval.										
		303.10 305.90 - SULPHIDES disseminated very finely within matrix, initially evident only as a dirty discolouration to										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		tan-grey colour. Under hand lens can discern significant sulphide presence (Cu>> Pb, Zn) as very fine dissemination through the dyke fine matrix.										
		304.20 304.80 - est. ~4-6% Cu.										
		304.80 305.10 - silica-epidote-bleach zone @ 3° to C.A.										
		305.18 305.90 - 2 cm black chilled rind, contact @ 40° to C.A., slightly under lose.										
305.90	308.00	COPPER FACIES: , WITH MASSIVE PYRITE										
		Copper facies massive sulphide interval. High grade chalcopyrite in massive bands 10 to 50cm thick, at; 305.9-306.6, 306.8-307.3, 307.7-308.0. Chalcopyrite mixed with gangue of silica(chert), barite and pyrite(10-30%); also present is 3% sphalerite, and <1% galena both disseminated, rare evidence of remnant bedding @50° to CA. Sections between zones is cherty tuff with minor disseminated chalcopyrite, sphalerite, and pyrite.	R9109571	305.90	306.70	.80	.24	3.70	9.22	.11	3.97	66771
			R9109572	306.70	308.00	1.30	.14	3.60	7.53	.57	8.45	66772
308.00	310.20	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED SPHALERITE										
		Tan, grey-green dacite ash tuff, cherty bands with disseminated sulphides. Intensely sericitic, pyrite 3-5%, sphalerite 1%, 309.9: 8cm band sphalerite-galena-pyrite. Bedding @50-55° to CA.	R9109573	308.00	308.40	.40	.02	.75	2.22	.01	1.87	66773
			R9109574	308.40	310.20	1.80	.03	.68	.19	.21	.80	66774
310.20	312.00	ZINC FACIES: SERICITIC , WITH DISSEMINATED SPHALERITE										
		Grey-green dacite ash tuff. Crudely banded, brecciated, cherty, sericitic section. Lighter coloured than above in more siliceous material. Sulphides occur as interclast fillings. Sulphide estimates; sphalerite 2-10%, galena 0.8%, chalcopyrite 1-5%.	R9109575	310.20	311.95	1.75	.05	1.31	.08	.41	.83	66775
			R9109576	311.95	312.80	.85	.08	3.02	.10	3.28	8.11	66776
312.00	312.80	ZINC FACIES: SERICITIC , WITH MASSIVE SPHALERITE										
		Massive to faintly banded sphalerite, galena and pyrite in a cherty, barite gangue, with minor sericite altered fine tuffaceous material.										
		312.50 312.80 - as 310.2 - 311.95, especially siliceous (cherty) and white										
		312.79 312.80 - lower contact quite sharp @ 17° to C.A.										
312.80	325.90	QUARTZ FELDSPAR PORPHYRY DYKE:										
		- a mid to dark grey-grey/green fine to medium grained homogeneous massive intrusive with distinctive porphyritic texture - magnetic character very consistant @ 1.8 x 10-6 CGS i.e. Moderately magnetic as per K-2 susceptibility meter readings - this type has slightly finer phenocryst size overall, avg. 2-4 mm in higher ration of qtz. Feldspar.	R9109577	312.80	314.30	1.50	.00	.01	<.01	<.01	.03	66777
		312.80 - upper contact sharp @ 17° to C.A., chilled, bleached for 1-2 cm adjacent to contact.										
		312.80 313.30 - fine grained with <2% phenocrysts over 1 mm.										
		316.20 316.50 - blocky, broken to sharp spear like pieces by fractures @ 4-15% C.A.										
		319.50 322.00 - note occasional phenocrysts up to 6 mm diam.										
		325.40 325.90 - finer grained weakly chilled dyke margin, 95% phenocrysts										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		<1 mm.										
	325.89	- 5 cm. Chilled very fine grained dark margin, contact at 40° to CA.										
325.90	333.70	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE - Light grey-green, intensely silicified, sericitized, cherty dacite ash tuff. - clasts and fragments ghosted by sericite-silica alteration/bleaching so that clast outline rarely discernable - alteration primarily a bleaching and sericitization of highly siliceous rock, additional silicification likely as 95% of unit is very hard-leaves knife. Pyritization also occurs throughout in ~3-5% very fine dissem. Euhedral py; pervasive speckling of tiny <<1 mm lecuorene (Kaolinite?) - overall colour a light grey-green; trace base metals as rare clot of ZnS or very fine disseminations in darker matrix - non-magnetic (K-2 reads <0.03 x 10-6 CGS) - frequent fractures/breaks(2-4/m) @ 5-10° to C.A. 332.70 333.70 - weakly biotite altered, siliceous coarse tuff with distinct light brown colour - lower contact sharp @ 45° to C.A., upper sharp at 40° to C.A.	R9109578	325.90	327.40	1.50	.00	.12	.02	.07	.24	66778
			R9109579	327.40	328.90	1.50	.00	.10	.01	.05	.33	66779
			R9109580	328.90	330.40	1.50	.00	.08	.01	.04	.05	66780
			R9109581	330.40	331.90	1.50	.00	.11	.01	.06	.07	66781
			R9109582	331.90	332.70	.80	.00	.10	.02	.08	.05	66782
			R9109583	332.70	333.70	1.00	.00	.06	.01	.05	.03	66783
333.70	380.40	QUARTZ FELDSPAR PORPHYRY DYKE: - exactly as previously described with perhaps slightly larger more abundant phenocrysts - ~15-20% feldspar (70%), qtz. (20%), py (10%) scattered evenly throught a dark-grey/green medium grained matrix - again have numerous shallow (10-20° to C.A.) calcite healed fractures in bleached rims. 379.00 380.40 - fine grained non-porphyritic near-dyke margin, mid to light grey/green as cut by more numerous fine calc veinlets/fractures. 380.40 - lower contact a fault contact QFP lithology continues into the fault.										
380.40	382.70	FAULT - faulted broken zone typified by brecciated friable broken pieces of QFP, often bleached and finely clacite veined - Fault Gouge scattered throughout, noteably @ 380.5-380.9; 381.3-381.4; 382.0-382.2 - lower contact marked where disruption suddenly decreases in intensity at a 8 cm qtz. White vein.										
382.70	383.40	BASALT FLOW: SERICITIC , WITH DISSEMINATED PYRITE Pale grey-green, intensely altered to sericite and pyrite. Siliceous.										
383.40	385.00	BASALTIC DYKE:										
385.00	402.30	BASALT FLOW: SERICITIC , WITH DISSEMINATED PYRITE Pale-grey, tan, massive, intensely altered to sericite-pyrite, bleached. Large (2-25cm) scoriacious amygdaloidal, rounded fragments in a silica-pyrite-sericite matrix.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
	398.80	400.50 Chloritic, darker green, scattered reddish hematitic fragments. Coarse granular pyrite to 12%.										
402.30		EOH										

Hole No: TCU91-32
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.33
(metres) E: 10663.01

Azimuth: 164.1
Dip: -48.4
Length (m): 402.30
Elevation: (metres) 112.65
Purpose:

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamaond Drilling Ltd.
Started: Aug. 10, 1991
Completed:
Recovery:

Date Logged: Aug. 12, 1991
Logged By: R.J. Aulis
Date Re-logged:
Re-logged By: W. Melnyk
Report Printed: 19 Feb, 1993 10:05pm

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9109566	300.10	301.60	1.50		.25	.00	.00	.01	<.01	.02											
R9109567	301.60	303.10	1.50		.60	.00	.01	.01	<.01	.01											
R9109568	303.10	304.20	1.10	2.94	105.23	.10	9.97	1.71	5.15	.08											
R9109569	304.20	304.80	.60	2.74	108.52	.19	2.92	2.11	.77	.04											
R9109570	304.80	305.90	1.10	4.18	1.85	.00	.06	.05	<.01	.02											
R9109571	305.90	306.70	.80	4.01	229.07	.21	3.30	9.22	.11	3.97											
R9109572	306.70	308.00	1.30	3.68	205.88	.12	3.21	7.53	.57	8.45											
R9109573	308.00	308.40	.40	2.85	49.42	.02	.67	2.22	.01	1.87											
R9109574	308.40	310.20	1.80	2.97	20.84	.03	.61	.19	.21	.80											
R9109575	310.20	311.95	1.75	2.74	26.51	.04	1.17	.08	.41	.83											
R9109576	311.95	312.80	.85	2.99	100.15	.07	2.70	.10	3.28	8.11											
R9109577	312.80	314.30	1.50		.23	.00	.01	<.01	<.01	.03											
R9109578	325.90	327.40	1.50		2.36	.00	.11	.02	.07	.24											
R9109579	327.40	328.90	1.50		2.67	.00	.09	.01	.05	.33											
R9109580	328.90	330.40	1.50		.80	.00	.07	.01	.04	.05											
R9109581	330.40	331.90	1.50		1.06	.00	.09	.01	.06	.07											
R9109582	331.90	332.70	.80		1.10	.00	.09	.02	.08	.05											
R9109583	332.70	333.70	1.00		.64	.00	.05	.01	.05	.03											

Hole No: TCU91-33
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.77
(metres) E: 10662.79

Azimuth: 168.6
Dip: -63.5
Length (m): 435.90
Elevation: 112.64
(metres)
Purpose: To test H and AB lenses updip from TCU-89-13 and downdip from TCU91-32.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: Aug. 17, 1991
Completed:
Recovery:

Date Logged: Aug. 19 ,1991
Logged By: R.J.A.
Date Re-logged: July 31 to Aug. 01, 1992
Re-logged By: W. Melnyk
Report Printed: 9 Feb, 1993 4:24am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	168.6	-63.5															
3.0	168.8	-63.3	75.0	170.1	-62.9	147.0	171.3	-62.7	219.0	172.1	-63.7	291.0	172.2	-63.8	363.0	172.5	-63.8
9.0	169.0	-63.2	81.0	170.1	-62.9	153.0	171.5	-62.7	225.0	172.1	-63.7	297.0	172.3	-63.7	369.0	172.5	-63.8
12.0	169.1	-63.3	84.0	170.2	-62.9	156.0	171.5	-62.7	228.0	172.1	-63.7	300.0	172.3	-63.7	372.0	172.6	-63.7
15.0	169.1	-63.2	87.0	170.3	-62.9	159.0	171.6	-62.8	231.0	172.1	-63.7	303.0	172.3	-63.7	375.0	172.6	-63.7
18.0	169.2	-63.1	90.0	170.3	-63.0	162.0	171.6	-62.8	234.0	172.1	-63.7	306.0	172.3	-63.7	378.0	172.6	-63.7
21.0	169.3	-63.0	93.0	170.2	-62.9	165.0	171.6	-62.8	237.0	172.1	-63.6	309.0	172.3	-63.7	381.0	172.8	-63.8
24.0	169.3	-63.0	96.0	170.4	-63.0	168.0	171.6	-63.1	240.0	172.1	-63.7	312.0	172.3	-63.7	384.0	172.8	-63.8
27.0	169.3	-63.0	99.0	170.4	-62.9	171.0	171.6	-63.1	243.0	172.1	-63.7	315.0	172.3	-63.7	387.0	172.9	-63.7
30.0	169.3	-63.0	102.0	170.4	-62.9	174.0	171.6	-63.2	246.0	172.1	-63.7	318.0	172.2	-63.8	390.0	172.9	-63.7
33.0	169.3	-62.9	105.0	170.4	-62.9	177.0	171.6	-63.3	249.0	172.1	-63.7	321.0	172.3	-63.7	393.0	172.9	-63.8
36.0	169.3	-62.9	108.0	170.4	-62.9	180.0	171.6	-63.3	252.0	172.1	-63.7	324.0	172.3	-63.7	396.0	172.9	-63.8
39.0	169.4	-62.9	111.0	170.5	-62.8	183.0	171.6	-63.3	255.0	172.1	-63.7	327.0	172.3	-63.7	399.0	172.9	-63.8
42.0	169.5	-62.9	114.0	170.5	-62.8	186.0	171.6	-63.3	258.0	172.1	-63.7	330.0	172.3	-63.7	402.0	172.9	-63.8
45.0	169.6	-62.8	117.0	170.5	-62.8	189.0	171.6	-63.3	261.0	172.1	-63.7	333.0	172.3	-63.7	405.0	172.9	-63.8
48.0	169.6	-62.8	120.0	170.6	-62.8	192.0	171.6	-63.3	264.0	172.1	-63.7	336.0	172.3	-63.7	408.0	172.9	-63.8
51.0	169.6	-63.0	123.0	170.6	-62.8	195.0	171.7	-63.3	267.0	172.2	-63.7	339.0	172.3	-63.7	411.0	172.9	-63.8
54.0	169.7	-63.1	126.0	170.7	-62.8	198.0	171.8	-63.4	270.0	172.2	-63.7	342.0	172.4	-63.8	414.0	172.9	-63.8
57.0	169.8	-63.1	129.0	170.7	-62.8	201.0	171.9	-63.3	273.0	172.2	-63.8	345.0	172.4	-63.8	417.0	172.9	-63.8
60.0	169.9	-63.1	132.0	170.8	-62.8	204.0	171.9	-63.3	276.0	172.2	-63.8	348.0	172.4	-63.8	420.0	173.0	-63.7
63.0	169.9	-63.0	135.0	170.9	-62.9	207.0	171.9	-63.3	279.0	172.2	-63.8	351.0	172.4	-63.8	423.0	173.1	-63.8
66.0	169.9	-63.0	138.0	171.0	-63.0	210.0	172.0	-63.5	282.0	172.2	-63.8	354.0	172.4	-63.8			
69.0	169.9	-63.0	141.0	171.0	-62.9	213.0	172.0	-63.5	285.0	172.2	-63.8	357.0	172.4	-63.7			
72.0	170.0	-62.9	144.0	171.1	-62.8	216.0	172.0	-63.6	288.0	172.2	-63.8	360.0	172.4	-63.8			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	.60	CASING										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.60	108.40	DACITE FLOW: HEMATITIC Maroon and green, siliceous felsic plagioclase ± quartz phryic flows and flow breccias. Interval is cut by several basalt dykes and numerous epidote + chlorite + magnetite + albite ± garnet veinlets. Weakly hematitic. .60 14.00 Strongly hematitic. 18.00 35.00 Locally strongly fractured. 27.70 31.40 Basalt dyke, shallow contacts ~ 20 - 30° WCA; sharp. 62.80 64.00 Basalt dyke, contacts 30° WCA; sharp. 72.40 73.20 Basalt dyke, contacts 60° WCA; sharp. 78.00 85.00 Strongly hematitic.									
108.40	268.90	BASALT FLOW BRECCIA: CHLORITIC Fine to medium grained, dark green flows, flow breccias (possibly as sills and dykes?), locally feldspar and amphibole phyric; wide spread epidote - chlorite - magnetitie - quartz veinlets, massive, homogeneous. 111.30 113.70 Block of dacite flow, contacts vague, diffuse. Bottom contact sharp 70° WCA.										
268.90	302.00	DACITE FLOW: HEMATITIC Similar to 0.6-108.4 metres. Weakly hematitic feldspar phyric felsic flows with bleached albitic sections. Abundant epidote + chlorite + albite + magnetite veins. Locally flow brecciated.	R9110344	300.50	302.00	1.50	.00	.02	<.01	<.01	.02	66784
302.00	303.70	EXHALITIC TUFF: SILICIFIED , WITH BANDED PYRITE Thinly laminated to brecciated sericite dacite tuff, chert and pyrite (15%). Top contact sharp @ 15° to CA.	R9110345	302.00	303.50	1.50	.01	.17	<.01	.02	.07	66785
			R9110346	303.50	305.00	1.50	.00	.04	.01	.03	.19	66786
303.70	327.40	DACITE FLOW: SILICIFIED Similar to 268.9 to 302.0 metres. Grey to white feldspar ± quartz phyric dacite flow. Weak silicification and biotite alteration near bottom of interval.	R9110347	305.00	305.80	.80	.00	.04	.03	.06	.27	66787
			R9110348	305.80	307.30	1.50	.00	.00	<.01	.01	.05	66788
			R9110349	326.10	327.40	1.30	.00	.00	<.01	<.01	.06	66789
327.40	330.00	ZINC FACIES: SERICITIC , WITH BANDED SPHALERITE Mixed interval of sericite altered dacite tuff, chert, sulphides and minor barite. Sulphides include pyrite, sphalerite and chalcopyrite. Banding @ 60° to CA.	R9110350	327.40	329.00	1.60	.04	2.02	.79	1.43	4.85	66790
			ZBJ	327.40	331.80	4.40						
			R9110351	329.00	330.40	1.40	.03	1.43	.70	.95	6.75	66791
330.00	331.70	COPPER FACIES: SILICIFIED , WITH DISSEMINATED CHALCOPYRITE: Massive sulphides (80%) consisting mainly of pyrite with lesser chalcopyrite, and minor sphalerite and galena. Matrix is siliceous. Banding @ 45 to 55° to CA.	R9110352	330.40	331.80	1.40	.11	2.63	5.84	.24	2.78	66792
331.70	337.10	DACITE LAPILLI TUFF: CHLORITIC Ignimbrite (?); Dark green, chloritic dacite lapilli tuff. Lapilli are 'wispy' and elongated parallel to folation @ 35° to CA.	R9110353	331.80	332.00	.20	.00	.04	.13	<.01	.04	66793
			R9110354	336.10	337.10	1.00	.00	.00	.01	<.01	.02	66794

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
337.10	353.10	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Brecciated chert, grey, sericite altered dacite ash tuff clasts in similar fine grained tuffaceous matrix. Sulphides are mainly disseminated pyrite with lesser sphalerite, galena, and stringers of chalcopyrite. Lower contact gradational over 1.0m. 337.10: Upper contact is sharp, conformable, oriented @53° to CA. 340.60: Crude banding @45° to CA. 340.90-341.20: Large pale, yellow band of sericite. 344.60-345.00: Chalcopyrite(2%) occurs as stringers, and fine disseminations. 346.70-347.10: Distinct bedding/banding @35° to CA. 350.80-351.40: Semi-massive pyrite in bands oriented @15-20° to CA., with 2% chalcopyrite and disseminated fine-grained sphalerite(3-4%). 351.40-353.10: Abundant cherty, siliceous, barren zones make up about 50% of this interval. 353.10: Bottom contact at transition into massive sulphides,.	R9110355	337.10	338.50	1.40	.01	1.95	.51	.39	2.19	66795
			ZBK	337.10	363.00	25.90						
			R9110356	338.50	339.50	1.00	.03	1.05	.53	.50	3.18	66796
			R9110357	339.50	340.90	1.40	.06	.99	.66	.49	5.40	66797
			R9110358	340.90	342.40	1.50	.07	.97	.69	.55	3.32	66798
			R9110359	342.40	343.90	1.50	.05	2.01	.65	.95	4.55	66799
			R9110360	343.90	345.30	1.40	.06	2.95	1.09	.74	4.05	66800
			R9110361	345.30	346.70	1.40	.03	1.48	.98	.69	3.83	66801
			R9110362	346.70	348.20	1.50	.03	1.00	.56	.74	3.62	66802
			R9110363	348.20	349.90	1.70	.03	1.78	.60	.65	6.00	66803
			R9110387	349.90	351.50	1.60	.05	.90	.65	.48	2.80	66804
			R9110388	351.50	353.10	1.60	.03	.75	.58	.39	2.00	66805
353.10	359.80	ZINC FACIES: , WITH MASSIVE SPHALERITE , WITH MASSIVE PYRITE Massive sulphides(90%) consisting mainly of sphalerite and pyrite with lesser galena and chalcopyrite, in a baritic, sericitic, siliceous gangue. 353.10-355.30: Weak to moderately bedded sulphides interlayered with 10-30cm siliceous, white to tan cherty bands; bedding @30-55° to CA. Sulphide estimates; sphalerite 6%, galena 1%, chalcopyrite 0.5%. Sphalerite is fine grained, grey and honey colored, chalcopyrite occurs as stringers and disseminations 355.30-356.40: Massive pyrite with 5-6% chalcopyrite occurring as disseminations. Sphalerite(4-5%) is very fine grained and virtually undetectable. 356.40-357.50: Massive sphalerite, pale honey colored. Chalcopyrite occurs as disseminations in sphalerite, in concentrations of 4-6%. Weak banding @50-60° to CA. 357.50-359.80: Massive sphalerite with gradual decrease in base metal content being replaced by pyrite, and a barite, sericite, silica gangue. Bedding remains @60° to CA.	R9110389	353.10	354.20	1.10	.13	3.12	.98	2.06	11.29	66806
			R9110390	354.20	355.30	1.10	.11	7.87	1.25	5.64	16.02	66807
			R9110391	355.30	356.40	1.10	.08	4.96	5.21	2.60	13.68	66808
			R9110392	356.40	357.50	1.10	.27	5.87	2.46	5.97	32.45	66809
			R9110393	357.50	358.70	1.20	.10	3.00	2.76	.83	12.53	66810
			R9110394	358.70	359.80	1.10	.34	12.99	5.13	2.43	8.25	66811
359.80	403.60	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED SPHALERITE Dacite ash tuff, similar to 337.6-353.1m. Sericite altered with disseminated and whispy bands of pyrite, sphalerite, galena, and chalcopyrite. 359.80 360.90 Massive grey dacite tuff with 10% very fine grained disseminated pyrite with sericite. 360.90 363.00 CHERT: Cherty with stringers and veinlets of light-brown coarse sphalerite 1-2%, massive. 365.00 366.70 BASALTIC DYKE: Dark green-black, very fine grained. 365.10 366.60 Dark grey, sericitic, chloritic, unmineralized tuff, sharp contacts parallel to bedding @55° to CA. 366.60 367.50 CHERT: Well bedded cherty-tuff interval, bedding 1mm to 2cm wide @55° to CA. 370.00 370.50 Thin, fine grained dyke, dark brown/green with sharp chilled contact @42° and 46° to CA. 378.10 378.20 10cm band of massive sphalerite, with pyrite.	R9110395	359.80	360.90	1.10	.01	.19	.05	.11	.39	66812
			R9110396	360.90	362.00	1.10	.07	1.95	.57	.54	4.65	66813
			R9110397	362.00	363.00	1.00	.05	1.31	.33	.41	3.95	66814
			R9110398	363.00	365.10	2.10	.02	.38	.14	.16	3.42	66815
			R9110399	365.10	366.60	1.50	.00	.02	<.01	<.01	.04	66816
			R9110400	366.60	368.10	1.50	.02	.64	.17	.11	.77	66817
			R9110401	368.10	369.70	1.60	.01	.49	.16	.10	3.42	66818
			R9110402	369.70	371.20	1.50	.01	.18	.17	.05	2.32	66819
			R9110403	371.20	372.70	1.50	.01	.42	.18	.02	2.00	66820
			R9110404	372.70	374.20	1.50	.01	.18	.08	<.01	1.18	66821
			R9110405	374.20	375.70	1.50	.01	.12	.07	.01	1.15	66822
			R9110406	375.70	377.20	1.50	.01	.29	.18	<.01	2.49	66823
			R9110407	377.20	378.70	1.50	.04	1.10	.82	.19	3.15	66824
			R9110408	378.70	380.20	1.50	.02	.26	.19	<.01	1.79	66825
			R9110409	380.20	381.70	1.50	.02	.27	.11	.06	2.17	66826

INTERVAL (m) From:	To:	DESCRIPTION
	388.40	Weak bedding, or banding @50° to CA.
389.70	394.20	Subrounded to rounded pale grey fragments 2mm to 10cm in diameter commonly oriented @40-45° to CA., in a darker, fine grained pyritic matrix. Sphalerite occurs as patchs in the matrix averaging about 1%.
395.00	396.80	CHERT: Moderately well bedded, cherty bands 0.5-3.0cm wide oriented @45° to CA.
	396.90	Small 10cm shear.
403.60		Massive to faintly banded/laminated, grey volcanic sandstone with numerous clasts(<1cm) of round pyritic chert. Sandstone grains consist of pyritic chert in a grey sericitic-pyritic altered dacite(?) tuff matrix. Section grades downward into a fine grained tuffaceous siltstone or dacite ash tuff section. Unit is similar to section in footwall of TCU90-22.
403.60	435.90	VOLCANIC SEDIMENTS:
414.00	416.20	BASALTIC DYKE: Black, very fine grained. Sharp contacts @65° to CA.
418.30	422.50	BASALTIC DYKE: Black, very fine grained. Sharp contacts @65° to CA.
433.50	435.90	BASALTIC DYKE: Black, very fine grained. Contacts sharp @65° to CA.
435.90		EOH

Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
R9110410	381.70	383.20	1.50	.02	.50	.07	.17	1.06	66827
R9110411	383.20	384.70	1.50	.02	.56	.06	.22	.86	66828
R9110412	384.70	386.20	1.50	.00	.36	.03	.20	.30	66829
R9110413	386.20	387.70	1.50	.01	.64	.04	.51	.74	66830
R9110414	387.70	389.70	2.00	.01	.46	.02	.58	.99	66831
R9110415	389.70	391.20	1.50	.01	.29	.01	.06	.13	66832
R9110416	391.20	392.70	1.50	.03	.84	.02	.11	.28	66833
R9110417	392.70	394.20	1.50	.01	.47	.02	.25	.34	66834
R9110418	394.20	395.70	1.50	.02	.44	.04	.88	1.76	66835
R9110419	395.70	397.20	1.50	.01	.22	.03	.50	.83	66836
R9110420	397.20	398.10	.90	.01	.15	.02	.07	.40	66837
R9110421	398.10	399.10	1.00	.02	.17	.03	.02	.32	66838
R9110422	399.10	400.60	1.50	.01	.05	.03	.04	.38	66839
R9110423	400.60	402.10	1.50	.00	.04	.02	<.01	.20	66840

Hole No: TCU91-33
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.77
(metres) E: 10662.79

Azimuth: 168.6
Dip: -63.5
Length (m): 435.90
Elevation: 112.64
(metres)

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: Aug. 17, 1991
Completed:
Recovery:

Purpose: To test H and AB lenses updip from TCU-89-13 and downdip from TCU91-32.

Date Logged: Aug. 19 ,1991
Logged By: R.J.A.
Date Re-logged: July 31 to Aug. 01, 1992
Re-logged By: W. Melnyk
Report Printed: 19 Feb, 1993 10:05pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9110344	300.50	302.00	1.50		.18	.00	.02	<.01	<.01	.02											
R9110345	302.00	303.50	1.50		4.32	.01	.15	<.01	.02	.07											
R9110346	303.50	305.00	1.50		2.33	.00	.04	.01	.03	.19											
R9110347	305.00	305.80	.80		3.27	.00	.04	.03	.06	.27											
R9110348	305.80	307.30	1.50		.35	.00	.00	<.01	.01	.05											
R9110349	326.10	327.40	1.30		1.23	.00	.00	<.01	<.01	.06											
R9110350	327.40	329.00	1.60	3.44	63.75	.03	1.80	.79	1.43	4.85											
R9110351	329.00	330.40	1.40	3.33	69.55	.03	1.28	.70	.95	6.75											
R9110352	330.40	331.80	1.40	4.05	134.16	.10	2.35	5.84	.24	2.78											
R9110353	331.80	332.00	.20		2.73	.00	.04	.13	<.01	.04											
R9110354	336.10	337.10	1.00		.25	.00	.00	.01	<.01	.02											
R9110355	337.10	338.50	1.40	3.12	31.98	.01	1.74	.51	.39	2.19											
R9110356	338.50	339.50	1.00	2.93	41.36	.03	.94	.53	.50	3.18											
R9110357	339.50	340.90	1.40	3.81	66.89	.05	.89	.66	.49	5.40											
R9110358	340.90	342.40	1.50	2.89	57.13	.06	.87	.69	.55	3.32											
R9110359	342.40	343.90	1.50	3.18	63.92	.05	1.79	.65	.95	4.55											
R9110360	343.90	345.30	1.40	3.05	71.11	.06	2.63	1.09	.74	4.05											
R9110361	345.30	346.70	1.40	3.03	54.57	.03	1.32	.98	.69	3.83											
R9110362	346.70	348.20	1.50	2.96	45.66	.03	.89	.56	.74	3.62											
R9110363	348.20	349.90	1.70	3.05	64.12	.03	1.59	.60	.65	6.00											
R9110387	349.90	351.50	1.60	3.06	46.35	.04	.80	.65	.48	2.80											
R9110388	351.50	353.10	1.60	2.87	32.83	.03	.67	.58	.39	2.00											
R9110389	353.10	354.20	1.10	3.64	142.15	.11	2.79	.98	2.06	11.29											
R9110390	354.20	355.30	1.10	4.02	195.63	.10	7.03	1.25	5.64	16.02											
R9110391	355.30	356.40	1.10	4.16	202.49	.07	4.43	5.21	.60	13.68											
R9110392	356.40	357.50	1.10	4.38	364.31	.24	5.24	2.46	5.97	32.45											
R9110393	357.50	358.70	1.20	4.08	159.45	.09	2.68	2.76	.83	12.53											
R9110394	358.70	359.80	1.10	3.68	275.54	.31	11.60	5.13	2.43	8.25											
R9110395	359.80	360.90	1.10		8.82	.01	.17	.05	.11	.39											
R9110396	360.90	362.00	1.10		67.85	.06	1.74	.57	.54	4.65											

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9110397	362.00	363.00	1.00		50.32	.04	1.17	.33	.41	3.95											
R9110398	363.00	365.10	2.10		32.93	.02	.34	.14	.16	3.42											
R9110399	365.10	366.60	1.50		.32	.00	.02	<.01	<.01	.04											
R9110400	366.60	368.10	1.50		14.77	.01	.57	.17	.11	.77											
R9110401	368.10	369.70	1.60		30.19	.01	.44	.16	.10	3.42											
R9110402	369.70	371.20	1.50		20.27	.01	.16	.17	.05	2.32											
R9110403	371.20	372.70	1.50		20.55	.01	.37	.18	.02	2.00											
R9110404	372.70	374.20	1.50		12.81	.01	.16	.08	<.01	1.18											
R9110405	374.20	375.70	1.50		11.00	.01	.11	.07	.01	1.15											
R9110406	375.70	377.20	1.50		23.60	.01	.25	.18	<.01	2.49											
R9110407	377.20	378.70	1.50		46.52	.03	.98	.82	.19	3.15											
R9110408	378.70	380.20	1.50		19.92	.01	.23	.19	<.01	1.79											
R9110409	380.20	381.70	1.50		21.33	.01	.24	.11	.06	2.17											
R9110410	381.70	383.20	1.50		17.84	.02	.45	.07	.17	1.06											
R9110411	383.20	384.70	1.50		14.56	.02	.50	.06	.22	.86											
R9110412	384.70	386.20	1.50		5.48	.00	.32	.03	.20	.30											
R9110413	386.20	387.70	1.50		11.50	.01	.57	.04	.51	.74											
R9110414	387.70	389.70	2.00		12.73	.01	.41	.02	.58	.99											
R9110415	389.70	391.20	1.50		6.29	.01	.26	.01	.06	.13											
R9110416	391.20	392.70	1.50		13.74	.02	.75	.02	.11	.28											
R9110417	392.70	394.20	1.50		9.48	.01	.42	.02	.25	.34											
R9110418	394.20	395.70	1.50		21.31	.01	.39	.04	.88	1.76											
R9110419	395.70	397.20	1.50		12.40	.01	.20	.03	.50	.83											
R9110420	397.20	398.10	.90		6.45	.01	.13	.02	.07	.40											
R9110421	398.10	399.10	1.00		10.17	.02	.15	.03	.02	.32											
R9110422	399.10	400.60	1.50		5.13	.01	.05	.03	.04	.38											
R9110423	400.60	402.10	1.50		3.27	.00	.03	.02	<.01	.20											

Hole No: TCU91-34
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.62
(metres) E: 10662.67

Azimuth: 181.4
Dip: -54.8
Length (m): 420.30
Elevation: 112.84 (metres)
Purpose: Test AB - H mineralization west of TCU91-32 /91-33.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: Aug. 24, 1991
Completed: Aug. 30, 1991
Recovery:

Date Logged: Aug. 27, 1991
Logged By: R.J.A.
Date Re-logged:
Re-logged By: W. Melnyk
Report Printed: 9 Feb, 1993 4:24am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	181.4	-54.8															
3.0	181.4	-54.8	73.0	182.3	-54.9	144.0	182.9	-54.9	214.0	184.1	-54.8	285.0	184.4	-54.3	355.0	185.3	-54.5
9.0	181.4	-54.8	80.0	182.3	-54.9	150.0	183.1	-54.9	220.0	184.1	-54.8	291.0	184.6	-54.3	361.0	185.3	-54.5
12.0	181.4	-54.8	83.0	182.3	-54.9	153.0	183.1	-54.9	223.0	184.1	-54.8	294.0	184.8	-54.3	364.0	185.3	-54.5
15.0	181.4	-54.8	86.0	182.3	-54.9	156.0	183.1	-54.9	226.0	184.1	-54.8	297.0	184.8	-54.3	367.0	185.3	-54.4
18.0	181.4	-54.8	89.0	182.3	-54.9	159.0	183.1	-54.9	230.0	184.1	-54.8	300.0	184.9	-54.3	370.0	185.3	-54.4
21.0	181.4	-54.8	92.0	182.3	-54.9	162.0	183.1	-54.9	233.0	184.1	-54.7	303.0	184.9	-54.3	373.0	185.3	-54.4
24.0	181.6	-54.8	95.0	182.3	-54.9	165.0	183.1	-54.9	236.0	184.1	-54.7	306.0	184.9	-54.2	376.0	185.3	-54.4
28.0	181.6	-54.8	98.0	182.3	-54.9	168.0	183.1	-54.9	239.0	184.1	-54.7	309.0	184.9	-54.2	379.0	185.3	-54.4
31.0	181.6	-54.8	101.0	182.3	-54.9	171.0	183.1	-54.9	242.0	184.1	-54.7	312.0	184.9	-54.3	383.0	185.4	-54.3
34.0	181.6	-54.8	104.0	182.4	-54.9	174.0	183.1	-54.9	245.0	184.1	-54.7	315.0	184.9	-54.3	386.0	185.4	-54.3
37.0	181.6	-54.8	107.0	182.4	-54.9	177.0	183.3	-54.9	248.0	184.1	-54.7	318.0	184.9	-54.3	389.0	185.4	-54.2
40.0	181.8	-54.8	110.0	182.4	-54.9	181.0	183.4	-54.9	251.0	184.1	-54.7	321.0	184.9	-54.4	392.0	185.4	-54.2
43.0	181.8	-54.8	113.0	182.6	-54.9	184.0	183.4	-55.0	254.0	184.1	-54.7	324.0	185.1	-54.3	395.0	185.6	-54.2
46.0	181.8	-54.7	116.0	182.6	-54.9	187.0	183.4	-54.9	257.0	184.1	-54.7	327.0	185.1	-54.4	398.0	185.6	-54.2
49.0	181.9	-54.8	119.0	182.6	-54.9	190.0	183.6	-55.0	260.0	184.1	-54.7	330.0	185.1	-54.4	401.0	185.6	-54.1
52.0	181.9	-54.8	122.0	182.6	-54.9	193.0	183.6	-55.0	263.0	184.3	-54.6	334.0	185.1	-54.4	404.0	185.6	-54.1
55.0	182.1	-54.9	125.0	182.6	-54.9	196.0	183.6	-55.0	266.0	184.3	-54.6	337.0	185.1	-54.3	407.0	185.6	-54.1
58.0	182.1	-55.0	129.0	182.6	-54.9	199.0	183.8	-55.0	269.0	184.3	-54.6	340.0	185.1	-54.6	410.0	185.8	-54.1
61.0	182.1	-55.0	132.0	182.6	-54.9	202.0	183.8	-55.0	272.0	184.3	-54.6	343.0	185.1	-54.6	413.0	185.8	-54.1
64.0	182.3	-54.9	135.0	182.6	-54.9	205.0	183.9	-55.0	275.0	184.3	-54.5	346.0	185.1	-54.6	416.0	185.8	-54.1
67.0	182.3	-54.9	138.0	182.8	-54.9	208.0	183.9	-55.0	278.0	184.4	-54.4	349.0	185.3	-54.5			
70.0	182.3	-54.9	141.0	182.9	-54.9	211.0	184.1	-55.0	282.0	184.4	-54.4	352.0	185.3	-54.5			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	.60	CASING										
.60	15.90	DACITE FLOW: PROPYLITIC										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

Medium grey-maroon, siliceous, very hard feldspar phyric massive flow.Characterized by distinct glass-maroon coloration due to hematite. Weakly magnetic (avg. K-2 meter susc. Reading, 1.1 (10 measurements) - blocky core-jointed 1 to 15 cm at 45 and 60° W.C.A. (with core axis) - aphanitic siliceous matrix - abundant pathces and blotches epidote-chlorite generally associated with fractures - cut by late 0.3 to 3 cm bull qtz. Veins at 30°, 45° and 60° W.C.A., pale green chlorite selvages, usually barren, occasionally contain grains of magnetic and less commonly brown sphalerite.

5.80 - 1 cm gouge at 45° C.A., 10 cm bleached halo.

9.80 10.30 - 5-0.3 to 1 cm qtz. Veins containing grains brown sphalerite 30 and 60° W.C.A.

15.70 15.90 - crackled-bleached, slight Fe-oxide, slickensiding at 30° W.C.A.

15.90 22.70 DACITE FLOW BRECCIA: PROPYLITIC

- dark grey-green fine to med. Grained rock, locally matrix supported clasts are heterolithic, felsic, cream to white, also locally have dark chloritic fragments 0.4 to 0.8 cm - matrix is very fine grained, dark green chloritic, chloritic joints throughout at 15°, 40°, 60° W.C.A. - minor qtz.-chl healed fractures.

18.20 19.80 - bleached, very hard, glassy rock, locally contains resorbed, ghost feldspar crystals.

21.30 - minor shear-crackle zone 4 cm, 45° W.C.A.

21.40 21.90 - coarse lapilli fragments 0.2 to 2.5 cm felsic grey, tan and dark chloritic green, matrix supported- chloritic. Mag. Susc. 0.70x10-6 CGS units.

22.70 28.30 DACITE FLOW: PROPYLITIC

Pale green, grey aphanitic for most part, locally feldspar phyric similar to 0.6-15.9 m. Rock is crackled, bleached pale green and white, speckled with minor chlorite. Patchy albite alteration. - contains patchs of epidote - does not contain pervasive hematite but has magnetite whisps and bands associated with patchs of epidote - magnetic susc. 0.33 CGS (x20-6) - lower contact tan colour with minor qtz. + chlorite veining.

28.30 56.00 DACITE LAPILLI TUFF:

Dark-grey-green matrix supported non-homogeneous pyroclastic unit. Interval is characterized by: - chaotic aggregate of lapilli/tuff fragments <1 mm to >1.5 cm - bleached chlorite-epidote healed fractures - pervasive but weak hematite alteration - pervasive weak chlorite alteration - Mag. Susc. 0.31x10-6 CGS - non-magnetic/locally weakly magnetic - rock is only weakly jointed, very good recovery.

28.30 34.50 - dark green chloritic locally banded; grey, tan felsic fragments 3 mm to 1 cm diffuse, banding at 40° W.C.A. At 32.0m

34.50 37.42 - dull white, grey tan colour, altered, silicified(?), felsic fragments up to 3 cm diam. Microfractures are healed with

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		chlorite + very fine grained black aphanitic material (hematite?).										
	36.95	- 4 mm magnetic veinlet at 40° W.C.A.										
	37.42 51.10	- crystal lithic tuff; section contains distinct scatter of white feldspar crystals in matrix as well as larger lapilli; matrix is distinctly speckled maroon (purple) with hematite.										
	46.00	- 18 cm. Felsic, feldspathic very hard, glassy, maroon, locally chl-epid-hem forms convoluted banded masses. Light and dark felsic fragments thoughout as jagged pieces and rounded constituents.										
	51.10 56.00	- dark green dacite lapilli: tuff; matrix contains abundant chlorite and lesser epidote; fragments vary in size to 2.5 cm diam., consist of tan maroon, grey, black felsic components.										
	53.75	- 15 cm. Bleached-silicified patch containing abundant chlorite-epidote in contorted swirls.										
56.00	58.20	BASALTIC DYKE: - dark green-grey, fine grained massive unit, magnetic (2.3x10-6 CGS) - contains numerous qtz veinlets 2-5 mm at 30° and 60° WCA - rock displays brittle jointing, very poor R.Q.D.										
58.20	83.90	DACITE FLOW: PROPYLITIC - Grey to dark green, texturally variant, pyroclastic felsic rock - locally strongly feldspathic - very weakly hematitic - microfractures healed with chl-epidote - bleached, albite altered haloes surrounding these - mag. Susc. 0.6x10-6 CGU, ie non-magnetic.										
	58.20 61.50	- crystal tuff, distinct feldspar crystals-resorbed; massive rock weak jointing at 45° WCA - patchs of epidote alteration associated closely with jointing.										
	61.50 62.44	BASALTIC DYKE: - Basalt dyke. Massive very fine grained - fine grained locally scattered augite crystals - upper contact sharp at 45° WCA, bottom 60° WCA.										
	62.44 66.80	- Feldspar phyric flow. Core surface is pale grey-green, deep maroon-brown colour, speckled with partially resorbed feldspar crystals <1 mm to 3 mm. Faint traces of hematite - Glassy brown-maroon patchs, contacts are diffuse.										
	66.80 67.40	BASALTIC DYKE: - Basaltic dyke. Augite porphyritic, contacts sharp at 60° top and 70° bottom.										
	67.40 83.90	- Mottled, whitish-pale green patchs set in a dark grey-green matrix. Rock is generally fine-med. Grained. - rock is still very hard - not so where chlorite is abundant.										
	69.15 69.30	BASALTIC DYKE: - Basaltic dyke - irregular contacts.										
	69.30 83.90	- Very hard felsic unit textures vague, irregular, patchy albite alteration.microfractures contain very fine grained black chlorite. Minor qtz. Veining, non-magnetic, only traces hematite.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
83.90	89.50	DACITE FLOW: CHLORITIC - Altered, very fine grained dark green to black - crackled, locally cemented with silica. Mag.susc. 0.14x10-6 CGU - chloritic - albite altered flows and flow breccias, bleached zones. 83.90 84.50 - intensely silicified - white with black whisps of very fine grained chlorite ± hematite. 84.50 89.50 - Patchy, white-pale green mottled, generally dark unit.										
89.50	121.60	BASALT UNDIFFERENTIATED: - Dark green, very fine grained, massive rock. Homogeneous over interval - Mag. Susc. 1.0x10-6CGU. Weak-moderate magnetic. Variable over core length - Locally blocky - chlorite coated fractures - About 2-3 joints per meter. 91.50 91.70 - Medium to coarse grained section - chloritic. 93.60 94.70 - Medium green chlorite swirled. 98.70 99.90 - Two joints 15° WCA - dry. 115.00 121.60 - Strongly fractured and crackled zone (RQD very low) - Locally thin bands magnetite contorted - Three qtz.-calcite veinlets 1-2 cm wide at 20° WCA, minor pale green chlorite alteration associated. 120.70 121.60 - Basalt is locally bleached, and albite altered. - bottom contact sharp at 45° WCA.										
121.60	172.50	DACITE FLOW: PROPYLITIC - Feldspar phyric, maroon and grey to grey-green to medium green. Where brecciated, groundmass is chlorite ± albite altered. - Rock is not magnetic (mag. Susc. 0.32-10-6 CGU) - Matrix is chloritic, often swirled. Minor amounts of epidote are present as fracture coatings - Microfractures are lined with fine grained, dark chlorite ± epidote. Some have 0.5 cm bleached halo envelope. 121.60 129.40 - Resorbed feldspar crystals are common, 1-3 mm diam. In a maroon, glassy matrix, very hard. Minor jointing 30° and 60° WCA - Bottom 50 cm is brecciated and silicified. 1 cm band magnetite 30° WCA - Bottom contact irregular but could be 30° WCA. 129.40 131.56 BASALTIC DYKE: - Basaltic dyke. Very fine grained, massive magnetic, crackled, weak chl.-epidote alteration along fractures. Mag. Susc. 1.5x10-6 CGU - Top contact ~30° WCA, bottom contact irregular. 131.56 136.35 - White partially resorbed feldspar crystals in a very hard slightly maroon fine grained matrix. 136.35 143.20 - Chloritic dacite flows, non-phyric, patchy albite, epidote, chlorite alteration. - Competent rock, weakly jointed. 143.20 156.30 - Flow breccia. Chaotic dumping of feldspathic felsic fragments. Matrix is fine grained chloritic material - Section is moderately hematitic, occasional patchs of										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		chlorite carbonate.										
		146.66 148.60 - Banding 25° to 30° WCA.										
		158.20 172.50 - Flow breccia, maroon, varying shades of grey and medium green. Feldspar phyric. Cross-cut by numerous chlorite-epidote veinlets and related white albite alteration halos. Hematitic. Section is non-magnetic.										
		165.20 172.50 - Section broken moderately, poor RQD. Jointing commonly 35-45° WCA. Hematitic.										
		170.00 171.00 - Calcite healed fracture parallel with CA. Rock is badly shattered, calcite healed.										
172.50	195.60	BASALT UNDIFFERENTIATED: CHLORITIC - Fine grained, dark green massive unit, homogeneous over entire length - Competent, very little jointing, no veining - Magnetic susc. 1.7x10-6 CGU, moderately magnetic - No fabric, felted texture - Uniform, fine grained over entire length - Very hard, locally moderate chlorite.										
195.60	221.20	DACITE FLOW: PROPYLITIC - Felsic, variably phyric rocks, dull grey to pale green, tinge maroon. Mag. Susc. 1.3x10-6 CGU (weakly magnetic) - Unit is uniform in felsic nature. Very hard, green colour due to weak chl. - Hematitic.										
		198.60 207.60 - Distinct feldspar porphyritc unit. Medium grey-slight maroon, very hard, glassy surface. Abundance of feldspar crystals varies from small virtually completely resorbed to 3 mm rounded over 1-1.5 m sections - Several thin qtz. Veins 15° WCA.										
		207.60 208.20 - Fine grained crushed dacite, pale green colour. 1 mm ghost white feldspar crystals locally.										
		208.20 214.50 - Light grey-green colour, aphanitic to feldspathic unit, moderately crackled.										
		214.50 216.10 - Dark green-black, chloritic section.										
		216.10 219.20 - Light to medium grey felsic unit locally, weakly phyric, Crackled, broken extensively. Poor RQD. Some fractures healed with dark green chlorite.										
		219.20 221.20 - Dacite breccia: mottled creamy-white - dark green rock with chloritic speckles over entire length. Rock is crackled, has numerous thin clay slips at 35-45° WCA. Lower contact may be 20° WCA.										
221.20	264.00	DACITE FLOW BRECCIA: CHLORITIC - Rock is dark grey-green containing white to creamy white felsic (rhyolite) fragments often with distinct qtz.-eyes. Matrix is often soft due to chlorite alteration. Abundant white sections, albite altered, locally pervasive. - Mag susc. Is 0.61x10-6 CGU. Weakly magnetic - Fractures are generally, bleached and line with chlorite and epidote.										
		221.20 228.30 - Medium to dark grey, Rock is mod. Hard (can be scratched) - Chlorite-hematite veinlets 4 mm wide have bleached										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		boundaries occasionally with epidote.										
		228.30 243.25 - Felsic flow breccias, selectively albite altered sections, feldspar phyric. Matrix is very dark, chloritic, weakly magneitc - Rock is moderately crackled and fracture healed with chlorite and hematite.										
		240.20 241.70 - Two sheared joints with ½ cm gouge run almost parallel WCA. Broken section.										
		243.25 254.15 - Similar to last section 228.3-243.25. Breccia fragments are white, and feldspar phyric, siliceous. The textural change is abrupt above and below. Matrix is med. Hard, but can be scratched.										
		254.15 260.45 - Occasional irregularly banded biotite whisps are interlayered with felsic bands. Weakly sericitic-chloritic-hematitic.										
		260.45 264.03 - Again distinct feldspar crystals dot core surfaces over entire interval, felsic fragments 0.5 cm - 10 cm Weakly ser.-chl.-hem.										
264.03	306.50	DACITE FLOW BRECCIA: CHLORITIC										
		Black dacite feldspar phyric flow breccia, intensely chloritic, with irregular patchs of albite alteration related to microfractures.										
		264.03 266.43 - Crudely banded, shades of grey and green. Several felsic fragments.										
		265.00 - Well banded 45° to 60° WCA.										
		266.10 - Banding 30° WCA. Weak ser.-chl.-hem.										
		266.43 272.08 - Flow breccia. Distinct white feldspar crystals hosted in a black chloritic matrix. Rock is autobrecciated, tumbled. Rock competent, solid. Weak ser.-chl.-hem.										
		272.08 295.40 - Dacite breccia, less crystal component hosted in dark green-black chloritic matrix. Matrix fine grained material weakly altered Ser.-chl.-hem.										
		295.40 299.70 - Several (3) bleached, albite altered, sections ~25 cm long with chl.and epidote healed fractures. Weakly locally contorted.										
		299.70 306.55 - Dacite lapilli tuff: banded, fairly uniform pyroclastic unit, dark grey -black. Fragments are crudely aligned and range in size from <1 mm to 8 mm commonly, only odd scattered fragment is larger. Weakly sericitic and chloritic										
		301.70 - Banding at 45° WCA.										
		302.20 - Banding at 50° WCA. Bottom two metres contain several white rhyolite fragments 2-6 cm diam. Bottom contact sharp at 35° WCA.										
306.50	307.30	EXHALITIC TUFF: SILICIFIED , WITH DISSEMINATED PYRITE										
		- A unit containing felsic pyroclastic material, siliceous chemical precipatate (chert gypsum and barite) and exhalite sulphide bands and dissem. - Unit is intensely altered to sericite, pyrite, locally chlorite	R9110626	306.55	307.11	.56	.01	.12	.04	.06	.34	66841
			R9110627	307.11	308.65	1.54	.01	.14	.02	.05	.04	66842

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		- Unit is generally bleached white to tan and brown dependent on sulphide content - Mag. Susc. 0.00x10-6 CGU, non-magnetic - Pyrite is ubiquitus throughout section.										
		306.55 307.10 DACITE LAPILLI TUFF: - Felsic lapilli tuff. Distinct rounded ovoid white, siliceous fragments are hosted by a matrix of pyrite, waxy green sericite ± chlorite - Fragment alignment is about 60° WCA. 1% dissem. Py.										
307.30	313.03	ZINC FACIES: SERICITIC , WITH MASSIVE SPHALERITE										
		Massive and banded sulphides, dominated by sphalerite, pyrite, galena, and chalcopyrite. Gangue is cherty, baritic, sericitic, with gypsum.	R9110628	308.65	309.50	.85	.16	4.80	.61	4.25	20.11	66843
			ZBL	308.65	316.25	7.60						
		307.30 307.65 - Massive pyrite. Good banding at 30° WCA.	R9110629	309.50	310.47	.97	.08	4.53	1.08	3.52	29.94	66844
		308.00 - 15 cm clast brown biotite altered material, edges are pale green epidote.	R9110630	310.47	311.83	1.36	.04	.33	.48	.05	.50	66845
			R9110631	311.83	313.03	1.20	.06	2.34	.70	2.12	12.38	66846
		308.65 310.47, With MASSIVE SPHALERITE - Very well mineralized section containing banded and massive sphalerite 35%, galena 2-3%, chalcopyrite <0.5%.										
		308.70 - Excellent banding sphalerite at 25° WCA - sphalerite distinct yellow-brown color - Best mineralized section in drill hole - Bottom contact at 55° WCA.										
		310.47 311.83 - Felsic Lapilli tuff: same as 306.55-307.10, about 2% dissem. Py., very siliceous rock.										
		311.83 313.03, With MASSIVE SPHALERITE - Banded to semi-massive sulphides. Sulphides, dominated by sphalerite 12%, chalcopyrite 1%, galena 1-2%, occur as bands and semi-massive in a waxy green,sericitic ground mass.										
		311.85 - 2 cm band of semi-massive chalcopyrite.										
313.03	316.25	EXHALITIC TUFF: SERICITIC , WITH BANDED PYRITE										
		- Dacite ash tuff. Scattered white rhyolite fragments range in size from 0.1 mm-1.5 cm. Groundmass is intensely sericitic, waxy green and very soft	R9110632	313.03	314.64	1.61	.04	1.54	.74	.03	.09	66847
			R9110633	314.64	316.25	1.61	.05	2.45	.50	.86	5.28	66848
		313.03 313.60 - Strongly pyritic 12% coarse crystalline. Minor chalcopyrite <1% - Banding at 10-30° WCA.										
		313.60 314.64 - Waxy green sericite, no sulphides.										
		314.64 316.25 - Clots, bands, patchs of coarse granular pyrite 15%, sphalerite 3%, minor galena.										
316.25	318.24	EXHALITIC TUFF: SERICITIC										
		- Dacite-rhyolite ash tuffs. Exceptionally well bedded uniformly at 35-45° WCA. Shades of green, grey and tan containing white 1-3 mm rounded fragments of resorbed feldspar crystals - Very siliceous, glassy surface.	R9110634	316.25	318.24	1.99	.00	.00	<.01	<.01	.01	66849
318.24	320.86	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE										
		- Dacite ash tuff. Similar to 306.55-307.10. Irregular, white rhyolitic bands are interbanded with pyritic-sericitic whisps, siliceous, very hard. Some lapilli up to 4 cm diam. Cherty, contains gypsum±barite. - Felsic component about 60% of rock - Pyrite 3-5%, Tr sphalerite.	R9110635	318.24	320.86	2.62	.00	.05	.05	<.01	.04	66850

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
320.86	324.42	EXHALITIC TUFF: SERICITIC , WITH BANDED PYRITE - Dacite ash tuff. A much greyer rock than previous. Contains abundant fine, whispy pyrite interbedded with thin bands of waxy, sericite with felsic lapilli scattered locally constituting 10% of rock, cherty ash tuff. - Pyrite 15-20%, chalcopyrite <<1%.										
324.42	330.27	EXHALITIC TUFF: SERICITIC , WITH BANDED PYRITE - Dacite ash tuff, lapilli tuff. Contorted and swirled banding. - Irregular bands of pyrite 10%, often coarse granular, sericitized. White, cherty ash tuff, locally pale grey. 328.70 - Irregular fracture filling chalcopyrite <1-3 mm wide, 6 cm long - Lower most 70 cm less chaotic, uniform felsic tuff only several 1-1.5 cm lapilli - Lower contact is sharp at 60° WCA.	R9110636 R9110637	326.00 327.50	327.50 329.00	1.50 1.50	.00 .01	.01 .03	.01 .11	<.01 <.01	<.01 <.01	68901 68902
330.27	348.87	CHERT: - Uniform sequence of chemical precipatates. White bands of chert, gypsum ± barite range in thickness commonly from 1 mm-7 cm. These are interbedded with thin whispy intercalated pyritic sediments altered to sericite - Bedding is excellent at 60° WCA at 332.0 m, shallowing to 25° at 338.0 and and steepening to 70° at 443.0 m. 334.00 334.60 - Coarse granular pyrite vein 0.5 to 1.5 cm wide cross-cutting bedding. 337.00 341.00 - Coarse granular pyrite scattered throughout, bedded + dissem and fracture controlled 7-8%. 343.65 344.91 - Almost massive chert/tuff and less gypsum. Dissem pyrite 4%. 344.90 348.87 - Chert-gypsum with thin pyritic bands and coarse granular aggregates. Well banded 50° WCA at 351.5 m.										
348.87	372.88	EXHALITIC TUFF: SERICITIC , WITH BANDED PYRITE - Felsic (dacite-rhyolite) ash and lapilli tuff. Sericitic, pyritic, cherty, ash tuffs. Abundant and irregular white cherty bands and lenses. Thick sequence of mottled felsic pyroclastic rocks. Fragment boundaries are vague generally. - Medium grey color - Whisps of bluish-grey felsic material interfingered with darker black sericitic pyritic bands - Pyrite is ubiquitos in section, from fine dissem. To coarse fine veinlets to very coarse, large aggregates. Py 10-15% - Rock is competent, very good recovery. 354.80 356.30 - 30% py., very coarse. 359.00 - Vague banding 35° WCA. Matrix is strongly sericitic.	R9110638 R9110639 R9110640 R9110641 R9110642 R9110643	353.30 354.80 360.50 362.00 369.25 370.75	354.80 356.30 362.00 363.50 370.75 372.25	1.50 1.50 1.50 1.50 1.50 1.50	.01 .00 .00 .00 .00 .00	.03 .14 .00 .00 .01 .02	<.01 .02 <.01 <.01 <.01 <.01	<.01 .08 <.01 <.01 <.01 <.01	.01 .22 <.01 <.01 <.01 <.01	68903 68904 68905 68906 68907 68908
372.88	381.50	EXHALITIC TUFF: SERICITIC , WITH BANDED PYRITE - Grey, tan dacite-rhyolite ash tuff, intensely sericitic, pyritic, and cherty. Thinly color banded, strongly pyritic, very hard, containing siliceous fragments throughout.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
	373.20	- Very well color banded 20° WCA. Alternating grey felsic, black pyritic/sericitic bands and pyritic veinlets. Banding is often contorted due to soft nature of sediments. - Pyrite pervasive, generally fine grained 10-12% dissem and banded.										
	380.00	- Banding 30° WCA.										
380.50	381.50	- Interval is crackled, minor clay. Poor RQD.										
381.50	391.50	EXHALITIC TUFF: SILICIFIED , WITH DISSEMINATED PYRITE - Rhyolite dust tuff. Distinct chaulky white-beige unit, very finely laminated with distinct rounded qtz-eyes <1 mm - 4 mm scattered through section - Thin, delicate banding often strongly contorted. - Clay altered-white-quite soft except for occasional felsic fragments. Fragments are grey and white rhyolitic up to 6 cm diam. - Pyrite variable 1-3% dissem. Local patchs -Bedding @0 to 20° to core axis.										
391.50	405.87	EXHALITIC TUFF: SERICITIC , WITH BANDED PYRITE - Dark grey-green, laminated crudely and irregularly banded unit containing a fine grained moderately sericitic, pyritic groundmass with soft grey fragments (to 2 cm long - wedged), dark chloritic whisps, and scattered siliceous fragments <5 mm. Py. Dissem 1-3% (low).										
	393.00	- Banding 15° WCA.										
	397.50	- Banding 15-20° WCA.										
404.50	405.10	- Shearing, minor gouge -15° WCA.										
405.10	405.87	- Mafic tuff(?) dark grey-green, med-grained, massive.										
405.87	413.40	EXHALITIC TUFF: SERICITIC , WITH BANDED PYRITE - Dacite ash tuff. Cherty fragments. Light colored unit somewhat similar to 381.5-391.51. Tan, medium to dark grey, thinly laminated tuffs with small lapilli component - Pyrite is ubiquitous 2-4% locally patchy aggregates and banded - Tan-white sections contain scattered qtz-eyes. Sericite altered - Banding is very prominent at 406.0 m: 20° WCA; 408.0 m 35° WCA; 411.0: 30° WCA; 412.7: 35° WCA - Bottom contact sharp at 45° WCA.										
413.40	420.30	EXHALITIC TUFF: SERICITIC , WITH BANDED PYRITE - Dacite ash tuff: grey matrix with black whisps and interlayered bands, peppered with 5-7% coarse granular pyrite. Cherty, siliceous component is milky white, irregular patchs and thin banded green tinged quartz with minor hematite. Two small specks sphalerite near 419.0 m.										
414.20	414.60	- fine grained basaltic dyke contacts sharp at 45° WCA. - magnetic suscep. 0.3x10-6 C.G.U.										
420.30		EOH										

Hole No: TCU91-34
Client: *REDFERN RESOURCES LTD.*
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.62
(metres) E: 10662.67

Azimuth: 181.4
Dip: -54.8
Length (m): 420.30
Elevation: 112.84
(metres)
Purpose: Test AB - H mineralization west of TCU91-32 /91-33.

Core Size: BQ
Drill Name: Connors
Contractor: *F. Boisvenu Diamond Drilling Ltd.*
Started: Aug. 24, 1991
Completed: Aug. 30, 1991
Recovery:

Date Logged: Aug. 27, 1991
Logged By: R.J.A.
Date Re-logged:
Re-logged By: W. Melnyk
Report Printed: 19 Feb, 1993 10:05pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9110626	306.55	307.11	.56		7.70	.01	.10	.04	.06	.34											
R9110627	307.11	308.65	1.54		4.80	.01	.12	.02	.05	.04											
R9110628	308.65	309.50	.85	4.37	216.65	.14	4.28	.61	4.25	20.11											
R9110629	309.50	310.47	.97	2.78	256.12	.07	4.05	1.08	3.52	29.94											
R9110630	310.47	311.83	1.36	4.39	23.00	.03	.30	.48	.05	.50											
R9110631	311.83	313.03	1.20	3.68	121.94	.05	2.09	.70	2.12	12.38											
R9110632	313.03	314.64	1.61	3.91	29.07	.04	1.37	.74	.03	.09											
R9110633	314.64	316.25	1.61	3.68	67.91	.05	2.19	.50	.86	5.28											
R9110634	316.25	318.24	1.99		.06	.00	.00	<.01	<.01	.01											
R9110635	318.24	320.86	2.62		1.02	.00	.05	.05	<.01	.04											
R9110636	326.00	327.50	1.50		1.64	.00	.00	.01	<.01	<.01											
R9110637	327.50	329.00	1.50		3.33	.01	.03	.11	<.01	<.01											
R9110638	353.30	354.80	1.50		2.40	.01	.02	<.01	<.01	.01											
R9110639	354.80	356.30	1.50		3.81	.00	.12	.02	.08	.22											
R9110640	360.50	362.00	1.50		.01	.00	.00	<.01	<.01	<.01											
R9110641	362.00	363.50	1.50		.00	.00	.00	<.01	<.01	<.01											
R9110642	369.25	370.75	1.50		.77	.00	.00	<.01	<.01	<.01											
R9110643	370.75	372.25	1.50		1.37	.00	.02	<.01	<.01	<.01											

Hole No: TCU91-35
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.44
(metres) E: 10662.31

Azimuth: 213.8
Dip: -76.6
Length (m): 529.10
Elevation: 112.78
(metres)
Purpose:

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: Aug. 31, 1991
Completed: Sept. 07, 1991
Recovery:

Date Logged: Sept. 01, 1991
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By: W. Melnyk
Report Printed: 9 Feb, 1993 4:18am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	213.8	-76.6															
3.0	213.9	-76.5	92.0	214.3	-76.5	180.0	214.7	-76.4	269.0	215.0	-76.3	358.0	215.1	-76.4	446.0	215.5	-75.9
9.0	213.9	-76.5	98.0	214.3	-76.5	187.0	214.7	-76.4	275.0	215.0	-76.2	364.0	215.1	-76.4	453.0	215.5	-75.9
12.0	213.9	-76.5	101.0	214.3	-76.5	190.0	214.7	-76.4	278.0	215.1	-76.1	367.0	215.1	-76.4	456.0	215.5	-75.9
15.0	213.9	-76.5	104.0	214.3	-76.5	193.0	214.7	-76.4	281.0	215.1	-76.2	370.0	215.1	-76.4	459.0	215.5	-75.9
18.0	214.0	-76.4	107.0	214.3	-76.5	196.0	214.7	-76.4	284.0	215.1	-76.2	373.0	215.1	-76.4	462.0	215.5	-75.9
21.0	214.0	-76.4	110.0	214.3	-76.5	199.0	214.7	-76.4	287.0	215.1	-76.2	376.0	215.1	-76.4	465.0	215.5	-75.9
24.0	214.0	-76.4	113.0	214.3	-76.5	202.0	214.7	-76.4	291.0	215.2	-76.2	379.0	215.1	-76.3	468.0	215.5	-75.9
28.0	214.0	-76.4	116.0	214.3	-76.5	205.0	214.7	-76.4	294.0	215.2	-76.2	382.0	215.1	-76.2	471.0	215.5	-75.9
31.0	214.0	-76.4	119.0	214.3	-76.5	208.0	214.7	-76.4	297.0	215.3	-76.2	385.0	215.1	-76.2	474.0	215.5	-75.9
34.0	214.0	-76.4	122.0	214.3	-76.5	211.0	214.8	-76.4	300.0	215.3	-76.3	388.0	215.1	-76.2	477.0	215.5	-75.9
37.0	214.0	-76.4	125.0	214.3	-76.5	214.0	214.8	-76.4	303.0	215.3	-76.3	391.0	215.1	-76.2	480.0	215.5	-75.9
40.0	214.1	-76.4	128.0	214.3	-76.5	217.0	214.8	-76.4	306.0	215.3	-76.3	394.0	215.1	-76.2	483.0	215.5	-75.9
43.0	214.1	-76.4	131.0	214.3	-76.5	220.0	214.8	-76.4	309.0	215.3	-76.3	398.0	215.2	-76.2	486.0	215.4	-75.9
46.0	214.1	-76.4	135.0	214.3	-76.5	223.0	214.8	-76.4	312.0	215.3	-76.3	401.0	215.2	-76.2	489.0	215.4	-75.9
49.0	214.2	-76.3	138.0	214.3	-76.5	226.0	214.9	-76.3	315.0	215.3	-76.3	404.0	215.2	-76.2	492.0	215.4	-75.9
52.0	214.3	-76.4	141.0	214.3	-76.6	229.0	214.9	-76.3	318.0	215.3	-76.3	407.0	215.2	-76.2	495.0	215.4	-75.9
55.0	214.3	-76.4	144.0	214.4	-76.5	232.0	214.9	-76.3	321.0	215.3	-76.3	410.0	215.3	-76.2	498.0	215.3	-75.9
58.0	214.3	-76.4	147.0	214.5	-76.5	235.0	214.9	-76.3	324.0	215.3	-76.4	413.0	215.4	-76.1	502.0	215.3	-75.8
61.0	214.3	-76.5	150.0	214.5	-76.5	239.0	214.9	-76.4	327.0	215.4	-76.4	416.0	215.4	-76.1	505.0	215.3	-75.8
64.0	214.3	-76.5	153.0	214.6	-76.4	242.0	214.9	-76.4	330.0	215.4	-76.4	419.0	215.4	-76.1	508.0	215.3	-75.8
67.0	214.3	-76.5	156.0	214.6	-76.4	245.0	214.9	-76.4	333.0	215.3	-76.5	422.0	215.4	-76.1	511.0	215.3	-75.8
70.0	214.3	-76.5	159.0	214.6	-76.4	248.0	215.0	-76.4	336.0	215.3	-76.5	425.0	215.4	-76.1	514.0	215.3	-75.8
73.0	214.3	-76.5	162.0	214.6	-76.4	251.0	215.1	-76.3	339.0	215.3	-76.5	428.0	215.4	-76.1	517.0	215.3	-75.8
76.0	214.3	-76.5	165.0	214.6	-76.4	254.0	215.1	-76.3	342.0	215.3	-76.5	431.0	215.4	-76.1	520.0	215.3	-75.8
80.0	214.3	-76.5	168.0	214.6	-76.4	257.0	215.0	-76.3	346.0	215.3	-76.5	434.0	215.4	-76.1	523.0	215.3	-75.7
83.0	214.3	-76.5	171.0	214.7	-76.4	260.0	215.0	-76.3	349.0	215.2	-76.5	437.0	215.4	-76.1	526.0	215.3	-75.7
86.0	214.3	-76.5	174.0	214.7	-76.4	263.0	215.0	-76.3	352.0	215.2	-76.4	440.0	215.4	-76.1			
89.0	214.3	-76.5	177.0	214.7	-76.4	266.0	215.0	-76.3	355.0	215.1	-76.4	443.0	215.5	-76.0			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	16.34	DACITE FLOW: PROPYLITIC - Distinct unit, varying shade of maroon, homogeneous, resorbed feldspar crystals throughout 1-3 mm often corroded. Rock is very hard porcelin, glassy surface - Contains 1-4 cm white bull qtz. Veins, all at 70° WCA - Jasper inclusions at 5.90, 8.40, 8.90. Rock is hematitic - Rock is blocky, jointing is at 40 and 60° to CA. 9.90 12.19 - Rock is crackled and very blocky. Poor RQD. Three joints at 15-30° WCA. 15.00 15.50 - Jointing at 10° WCA. Rock is bleached with minor gouge. Rock strongly fractured - Most hairline fractures healed with chl.-epidote - Mag. Susc. 0.92x10-6 CGU, weakly magnetic - Lower contact is irregular, no chill margin.										
16.34	44.04	DACITE FLOW BRECCIA: PROPYLITIC - Interval varies considerably texturally, tumbled and contorted.Locally rock is very blocky. - Rocks are variable shades of green and grey, and bleached, albite altered. - Mag. Susc. Is 0.3x10-6 CGU (non-magnetic). 16.34 24.60 - Green and blotchy maroon feldspathic unit Feldspar crystals are generally vague and resorbed and vary in size <1-3 mm. Rock has mottled appearance due to irregular patchs of bleaching, albite alteration. - Maroon feldspathic fragments are incorporated in this pyroclastic unit - Initial 3m, 3mm to 1 cm qtz. Veinlets with chlorite selveges 60-70° WCA - Epidote associated with some fractures - Lower 1.5 m is dark grey to black, at 24.0 m shear at 20° WCA - Abrupt transition to amphibole rich, no felsdapr crystals. 24.60 44.04 - Lapilli tuff, lithic tuff; similar to previous section except amphibole crystals dominant - Rock dark grey-green with lapilli size fragments and occasionally blocks to 8 cm diam. Local patchs of bleaching. 24.61 27.43 - Uniform medium grained crystals tuff. Chl.-epidote healed fractures at 60-70° WCA with related narrow (1 cm) bleached halos. 27.43 33.90 FAULT - Zone of mod. To intense shearing, very poor core recovery. Shearing at 15-30° WCA, locally some gouge (27.90-28.30). Rock is bleached over interval- deuteric alteration. 42.40 - Color banding 60° WCA larger blocks (7 cm) of white-green felsic material here. 43.00 44.04 - Mixed dacite pyroclastics and dacite intrusion.										
44.04	47.88	DACITE FLOW: PROPYLITIC - Similar to 0.0-16.34 - Maroon, coarse feldspathic. Top contact is irregular. 46.02 46.18 - Rock is fractured 40 and 70° WCQ. Some contain epidote. - Mag. Susc. 0.35x10-6 CGU - Bottom contact sharp, irregular -										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

no chilling, etc.

47.88 95.10 DACITE LAPILLI TUFF: PROPYLITIC
- Texturally variant unit, hap-hazard assortment of fragments intermingled, tumbled. Rock is dark-grey-green overall with fragments varying from white feldspar-rich felsic to black chloritic. - Mag. Susc. 0.35x10-6 CGU, non-magnetic, weakly hematitic.

48.77 60.68 - Irregular patchs of albite alteration. Amphibole crystals present at 51.0 m - Two bleached fractures contain abundant epidote. Avg. One joint per m - bleached, containing calcites 15-20° WCA.

53.30 - Good color banding at 40° WCA.

59.00 60.68 - Jointing parallel with CA. Minor calcite and epidote along shear.

60.68 95.10 - Dacite flow breccia. - Core surface is pale grey color and speckled with diffuse, rounded white feldspar crystals. Not hematitic - Most fragments are of lapilli size but several lithic pieces reach up to 8 cm, ± 1.0 mm qtz. Grains occur locally - Widespread qtz.-chlorite veinlets are at 60° WCA and have narrow <1 cm bleached halos surrounding them. Epidote ± chl. + hematite veinlets also have bleached, albite altered, halos.

69.10 - Augite porphyry dike 12 cm contact very sharp at 45° WCA. Chilled margins.

74.00 74.50 - Bleached shear. 2 cm infilled with calcite 20° WCA. Avg. Mag. Susc. 0.16x10-6 CGU, not magnetic.

93.10 - 2 qtz-chl.-epidote veins 20° WCA. Crackly and bleaching increases near the bottom contact - Bottom contact to 70° WCA. 20 cm silicified at contact.

95.10 96.23 BASALTIC DYKE:
- Black, very fine grained, massive unit. Contacts sharp at 70° WCA - Mag. Susc. 1.5x10-6 CGU, mod. Magnetic.

96.23 98.95 DACITE FLOW BRECCIA: PROPYLITIC
- Similar to 60.68-95.10. Section intensely shattered. Portions are silicified, glassy, crenulated. Albite and silica altered.

97.00 97.20 - Sheared, some gouge, approx. 30° WCA - Bottom contact sharp at 35° WCA. Rock is pulverized but cohesive. Calcite healed shear.

98.95 108.65 BASALTIC DYKE:
- Typical dark grey-green-black, fine grained rock, massive, uniform.

98.95 99.34 - Pulverized but cohesive. Comminuted fragments of dacite flow breccia.

99.34 99.44 - Piece of dacite flow breccia intact.

100.67 101.10 - Sheared, pulverized piece of dacite flow breccia. Shear

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

fabric 25° WCA.
108.45 - 4 cm shear 20° WCA, 0.5 cm gouge - Bottom contact irregular, very fine grained, chilled.

108.65 114.45 DACITE FLOW BRECCIA: PROPYLITIC
- Section may be volcaniclastic in part. Core surface is light grey color, with dark green chloritic bands, strongly foliated, soft. Large blocks of feldspathic dacite are incorporated in section. Clasts are white maroon felsic 2-4 mm, dark green chl. Fragments 1-4 mm fine grained feldspathic groundmass.
109.25 - Foliation at 35° WCA.
113.00 - Strongly foliated 40° WCA.
113.35 113.75 - Tan-brown clasts, soft, biotitic.
114.10 - STrongly foliated, banded; 30° WCA.

114.45 117.37 BASALTIC DYKE:
- Black, very fine grained, massive. Minor qtz. Veining at 114.55, four veins, 20° WCA, barren at 115.35, three veins at 40° WCA barren.

117.37 120.53 DACITE FLOW BRECCIA: PROPYLITIC
Pale green, dark grey, feldspar phyric, white bleached, albite altered section, related to chlorite-epidote veinlets.

120.53 121.92 BASALTIC DYKE:
- Black, very fine grained massive rock. Small pale feldspar crystals near bottom of interval. Both contacts irregular. Mag. Susc. 2.0x10-6 CGU, mod. Magnetic.

121.92 132.80 DACITE LAPILLI TUFF: PROPYLITIC
- Dark grey-green fine grained chloritic-feldspathic matrix speckled with white 1-3 mm feldspar crystals. White and grey felsic lapilli are widely scattered and range from 3-30mm diam. Hematitic. Mag. Susc, 0.29x10-6 CGU, not magnetic.
124.35 124.72 - Basalt dike. Top contact 70° WCA.
130.20 - 10 cm crushed zone - shear. Rock is pale green-white deuteric alteration.
132.00 - Good fragment banding at 45° WCA - Bottom contact sheared, clay, about 10 cm, shearing 45° WCA.
132.60 132.80 FAULT Gouge, sheared.

132.80 417.08 BASALT UNDIFFERENTIATED: CHLORITIC
- Dark grey and green, fine to med. Grained rock, homogeneous over entire interval. Locally indicating coarsening of feldspr crystals to 1.5 mm. Rock is competent, good recovery and RQD. Jointing is widespread at about 30° and 70° WCA - Mag. Susc. Is 1.0x10-6 CGU.
132.80 192.78 - Homogenous over interval, grain size increases; feldspar grains to 2 mm dark. Rock is dark grey to black - Excellent

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		core recovery - Minimal jointing at 45° WCA.										
192.78	194.40	- Bleached interval minor shearing 20° WCA Some silicification epidote alteration.										
197.00	197.77	- Bleaching, epidote alteration (no shearing, etc.).										
197.77	219.30	- Medium to coarse grained, no veining, structure or mineralization.										
219.30	249.38	- From 219.30 onward, irregular zones of biotite and silica alteration, with weak albitization.										
231.00		Chlorite-epidote altered shear.										
236.50	241.45	Tan, greenish-white, brown, green chlorite, biotite, silica alteration patchs.										
241.45	248.18	- Fine-medium grained, dark grey to black, locally rock very fine grained, glassy, silicified.										
249.38	257.55	- Medium grained, dark green to black, homogenous over entire length.										
252.40		- Three 0.5-1 cm qtz. Veins at 25° and 50° WCA with chlorite and magnetite.										
253.30		- 3 cm qtz-chlorite-magnetite vein at 60° WCA.										
257.55	301.80	Section of hornfelsed basalt, variable biotite, quartz alteration. Texture, colors, hardness varies significantly over interval. Where dacite pyroclastic material has been resorbed. The rocks assumes shades of brown, tan, beige, pale green and the adjacent basalt often is very fine grained black, hard,.										
258.40		- Excellent banding at 35° WCA.										
260.50		- Qtz.-chl.-epidote veinlet 7 mm 25° WCA contains specks of chalcopyrite and abundant magnetite.										
261.50	266.00	- Uniform section with very fine grained black matrix speckled with faint white 1 mm feldspar crystals.										
266.00	301.80	- Fine grained section overall, variable in color, generally dark grey-black to shades of pale grey-green and locally short intervals of tan - Widespread qtz.-chl veinlets 5 mm to 1 cm wide contain abundant magnetite - Mag. Susc. Measures 0.83x10-6 CGU, weak to moderately magnetic, however locally values can reach 12.0x10-6 CGU.										
284.00		- Small whisp of chalcopyrite at 60° WCA with olive green 1 cm band.										
295.80	296.10	Vague banding at 60° WCA.										
301.80	324.90	- Much more uniform section than previous. Rock is a medium grey to dark grey color, fine grained, Rock is jointed at 1 per 50 cm. Commonly 30° and 60°.										
308.60		- 1 cm qtz. Vein 45° WCA, contains chl.-epidote-magnetite - Mag. Susc. 0.59x10-6 CGU (weakly magnetic).										
324.90	331.90	Hornfelsed. Rock is competent, minor jointing.										
331.90	333.30	2-3cm patchs of white albite alteration.										
346.00		- 3 cm qtz.-chl. Vein 30-45° WCA contains dissem. Chalcopyrite and minor pyrite. Second 2 cm qtz.-chl vein at										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

30° WCA (but opposite orientation) is barren.
349.00 349.40 Albite altered section.
352.00 - 20 cm inclusion, bleached pale green, vague boundaries.
359.40 - 4 cm qtz.-carbonate-epidote vein 25° WCA.
360.00 375.00 - Uniform, fine grained basalt, medium grey, widespread epidote healed fractures.
372.90 - Irregular qtz. Vein 0.5-1.5 cm containing specks of chalcopyrite and chlorite.
375.00 383.00 Bands of tan, pale green, white, black hornfelsed patchs, variable chlorite, biotite, silica alteration. Banding is usually 30-45° WCA. - Mag. Susc. Avg. 0.5 to 1.1x10-6 CGU, moderately magnetic.
383.00 389.80 - Uniform, medium grey basalt.
389.80 392.35 - Variable colored grey, tan, pale green section. Massive.
390.10 - 8 cm qtz.-chl-epidote-magnetite vein at 30° WCA.
392.35 397.80 Uniform fine grained, dark grey. Wide spaced joints 60° WCA.
392.90 -.6 cm qtz. Vein 45°, chl.
393.10 - 1 cm irregular qtz. Vein chl., py, Tr cpy., magnetite.
393.15 - 2.5 cm qtz. Vein, chl.-epidote, weak magnetite at 20° WCA.
397.80 398.90 - Calcite vein 0.5 cm, parallel with core axis. Rock is bleached.
398.90 402.85 - Variable colored grey, tan, pale green, locally well banded. - basalt(?).
400.80 - Banding at 60-70° WCA.
402.85 417.08 Fine-medium grained, grey homogenous over entire interval. Jointing fairly widespread about 30° WCA (3 per meter). Several epidote healed fractures - Mag. Susc. 0.95x10-6 CGU, weakly to moderately magnetic - Bottom contact sharp 35° WCA. Basalt shows narrow chilled margin.

417.08 422.50 DACITE LAPILLI TUFF:
- Dark grey to black, very hard, glassy surface, speckled with feldspar crystals, locally fragments to 0.5 cm - Banding (bedding) is uniform throughout at 30° WCA.

422.50 423.80 DACITE FLOW: PROPYLITIC
- Brown, maroon feldspar porphyritic unit, glassy surface, very hard, moderately crackled with epidote healed fractures - Unit is probably a dacite flow. Top contact is autobrecciated 20 cm.
423.55 - 2 cm vein barite at 20° WCA.

423.80 436.85 DACITE LAPILLI TUFF:
Dark green-grey to black, banded tuffs containing felsic lapilli 3 mm to 2 cm with scattered white feldspar crystals and crystal fragments. Within this section are shorter intervals containing abundant feldspar crystals, and crystal aggregates up to 15%. The long axis of feldspar crystals are aligned conformably with bedded lapilli tuffs.

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		423.80 425.12 - Dacite lapilli tuff with minor crystal tuff. Vague bx texture.										
		425.12 425.82 - Dacite lapilli crystal tuff: abundant feldspar crystals and white lapilli fragments in a dark grey, fine grained matrix.										
		425.82 426.40 - Dacite tuff + lapilli tuff, vague banding 30° WCA. Top contact 30° WCA.										
		426.40 427.37 - Dacite lapilli crystal tuff, abundant white 1-3 mm feldspar crystals. Bottom contact 30° WCA.										
		427.37 428.90 - Dark green-grey dacite tuff with light grey felsic whisps, locally some hematite. Banding contorted but averages 30° WCA.										
		428.90 430.70 - Felsic feldspathic section, feldspar crystals randomly oriented.										
		430.70 431.40 - Dark grey-black, vague feldspar crystals-resorbed.										
		431.40 432.86 - Felsic feldspathic section.										
		432.86 434.50 - Dark grey-black, some scattered feldspar crystals, banding contorted but could be about 45° WCA.										
		434.50 435.16 - Dacite crystal tuff, abundant scattered white feldspar crystals.										
		435.16 435.75 - Dark felsic tuff bx?, contorted banding.										
		435.75 436.85 - Dacite crystal tuff. Bottom contact is irregular at 70° WCA - All above contacts were either vague or gradational.										
436.85	451.20	DACITE FLOW BRECCIA: Pale green and dark porphyritic fragments supported by a dark grey and black chloritic matrix - The pale green felsic clasts range from <.5 cm to 17 cm - Finer grained naroon fragments range in size up to 6 cm in diam.										
		438.70 - Banding 45° WCA - probably represents bedding.										
		440.00 - Banding 45° WCA.										
		440.10 441.00 - Large block of dacite phyric flow. Abundant white feldspar crystals are randomly scattered through interval - Top contact at 70° WCA, irregular - Bottom contact at 60° WCA sharp.										
		445.00 451.20 - Rounded felsic cobbles suspended in a black chloritic matrix. Cobbles not larger than 4 cm diam.										
		449.88 450.60 - Dacite lapilli crystal tuff. Upper contact vague, lower contact 60° WCA(?) - Mag. Susc. 0.26x10-6 CGU.										
451.20	458.29	DACITE LAPILLI TUFF: Rounded tan-maroon lapilli 3 to 10 mm diam. (20% by volume) supported by a dark green-grey chloritic matrix. Unit matrix is chlorite altered top 3 m and chloritic + sericitic beyond.	R9111636	458.20	459.65	1.45	.03	.92	.33	.30	1.60	68909
		452.50 - Bedding 45° WCA.										
		454.00 458.29 - Rock gets progressively more chloritic. Felsic clasts are clearly visible.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		455.60 - Good bedding at 45° WCA uniform, thinly bedded.										
458.29	459.60	EXHALITIC TUFF: SILICIFIED Intensely altered to quartz-sericite±chlorite, pyrite, containing zones of sulphides including sphalerite, pyrite, chalcopyrite, galena with accessory barite, gypsum and chert. 458.29 459.65 DACITE ASH TUFF: Intensely sericitized and pyritized dacite ash tuff. Pyrite occurs as dissem. Whisps and bands as fine-grained and coarse-grained aggregates - Pyrite averages about 25%. 458.90 459.23, With MASSIVE PYRITE 80% py. 459.00 - Bedding 45° WCA.										
459.60	469.00	ZINC FACIES: SILICIFIED , WITH BANDED SPHALERITE Zinc facies mineralization as follows;. 459.60 462.20, With BANDED SPHALERITE - Finely banded whispy sulphides to massive sulphides over interval. Locally banding is contorted and swirled. Host rock is dacite lapilli tuff where recognizable. Matrix contains abundant clear crystalline mineral - barite, and waxy dark green sericite - Grade estimates 5-6% cpy., 20-25% sphalerite, 2-3% galena, 10% pyrite. Sphalerite is fine-med-grained, light brown on core surface and honey colored on broken surface. Galena is med-grained disseminated and often will smear or polish on core surface. Chalcopyrite is whispy and irregularly banded. 461.01 461.29 - Basalt dyke. Top contact 60° sharp, bottom contact 70° sharp. 462.29 463.20, With MASSIVE SPHALERITE - Whispy bands of sphalerite, chalcopyrite, minor pyrite are intercalated with dark green sericitic bands and white siliceous clots. Banding is contorted midway through section. 462.30 - Banding uniform at 40° WCA - Grade estimated 2-3% cpy, 10-12% sphalerite, 2% galena, pyrite ~10%. 463.20 463.94 EXHALITIC TUFF: - Quartz-sericite-pyrite altered ash tuff, grey, vaguely banded with siliceous knots throughout. Minor sphalerite, 10% dissem, poddy pyrite. 463.94 464.97 EXHALITIC TUFF: - Whispy bands of sphalerite, chalcopyrite, minor pyrite are intercalated with dark green sericitic bands and less white silicic bands with milky-white siliceous clasts 3-8 mm diam. - Banding is very consistent, not disrupted at 30-45° WCA - Grade estimates are 1% cpy, 7% sphalerite, 1% galena. 464.97 466.00 EXHALITIC TUFF: - Light brown, tan colored unit intensely altered to sericite. Fragments 3-15 mm, lighter tan color are also sericitized. Also have several widespread siliceous fragments. Fragments constitute 5% rock volume.	R9111637	459.65	461.01	1.36	.12	6.45	2.45	3.26	17.32	68910
			ZBM	459.65	464.97	5.32						
			R9111638	461.01	462.16	1.15	.14	5.48	1.60	3.76	21.07	68911
			R9111639	462.16	463.20	1.04	.04	2.18	1.56	1.08	9.06	68912
			R9111640	463.20	463.94	.74	.01	.22	.12	.18	.91	68913
			R9111641	463.94	464.97	1.03	.09	4.30	1.18	2.25	13.52	68914
			R9111642	464.97	466.00	1.03	.01	.14	.12	.10	.71	68915
			R9111643	466.00	467.20	1.20	.03	.37	.37	.21	1.75	68916
			R9111644	467.20	468.48	1.28	.01	.16	.06	.11	.58	68917
			R9112036	468.48	470.00	1.52	.00	.02	.01	<.01	.02	68918

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		466.00 468.98 EXHALITIC TUFF: - Grey, siliceous, sericitic rock containing lithic fragments and sulphide fragments. Rock matrix is fine grained, siliceous + sericitic. Milky-white felsic fragments vary from 3-15 mm. Sericitic lithic fragments vary up to 3 cm - Unit contains 'rip-up' sulphide clasts grading from 4 cm at 466.0 to 3 mm at 468 m.										
		466.30 - Three, 4 cm rounded sulphide fragments; two sphalerite, one chalcopyrite.										
469.00	474.30	DACITE FLOW BRECCIA: SILICIFIED SERICITIC										
		Grey, pale green section containing large blocks of dacite. Rock is very hard, siliceous and contains disseminated pyrite from 3 to 4%.	R9112037	470.00	472.00	2.00	.00	.00	<.01	<.01	<.01	68919
		469.98 470.85 - Typical slightly maroon feldspar porphyritic rock, strong penetrating stress fabric 50° WCQ. Moderately sericite altered. Above and below rock has very irregular bleached blemishs centered on hairline fractures. These blemishs do appear like felsic fragment but aren't.	R9112038	472.00	474.35	2.35	.01	.05	.02	.02	.21	68920
		473.10 474.30 - Dacite lapilli tuff breccia or flow breccia. Lower contact diffuse. Widespread tiny 1-3 mm sulphide fragments.										
474.30	481.20	EXHALITIC TUFF: SILICIFIED , WITH DISSEMINATED PYRITE										
		Exhalite described as follows;.	R9112039	474.35	476.00	1.65	.03	.79	.29	.20	1.21	68921
		474.35 479.85 EXHALITIC TUFF: - Section is characterized by angular and rounded felsic fragments hosted by light grey, pale green matrix, moderatley altered to sericite±chlorite - This interval also contains abundant rounded fragments of sphalerite + pyrite (not sufficient to grade).	R9112040	476.00	477.50	1.50	.03	.53	.30	.22	1.29	68922
			R9112041	477.50	478.50	1.00	.03	.07	<.01	.01	.03	68923
			R9112042	478.50	479.85	1.35	.04	1.02	.30	.25	1.68	68924
			R9111645	479.85	481.17	1.32	.04	2.04	.94	.98	6.15	68925
			ZBN	479.85	488.60	8.75						
		475.80 - Good fragment lineation 15-20° WCA.	R9111646	481.17	482.50	1.33	.05	5.89	2.55	2.41	22.52	68926
		476.60 - Good foliation 40° WCA.										
		478.80 479.85 - Dacite ash tuff. White chert fragments up to 4 cm but commonly 5-10 mm supported by sericite matrix widespread whisps of sphalerite and rounded grain aggregate 2-10 mm of sphalerite, pyrite + chalcopyrite. Sphalerite 1%, pyrite 5%, chalcopyrite <<1% - Sulphide banding more coherent with depth.										
		479.85 481.17 DACITE ASH TUFF: - Similar to previous interval except sulphides are much more abundant here. Rock is swirled, contorted, constituents are hap-hazardly dumped - Sulphide + Felsic lapilli clasts are supported by a sericite ± chlorite, pyrite matrix. Pyrite ~10% - Grade estimates: 2% sphalerite, 1% chalcopyrite, <1% galena, bottom 20 cm tinely laminated at 45° WCA.										
481.20	483.60	ZINC FACIES: SERICITIC , WITH MASSIVE SPHALERITE										
		Zinc facies mineralization. Interval consists of banded and semi-massive sulphides in a gangue of sericite ± barite and silica. Banding near top of the interval is @20° to CA. And about 30° to CA. At 482.8. Hi-grade	R9111647	482.50	483.56	1.06	.05	7.99	4.54	3.38	23.41	68927
			R9111648	483.56	484.50	.94	.13	18.65	4.04	.13	1.39	68928

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		sphalerite down to 482.4m and chalcopyrite increases beyond. Grade estimate: 1-2% chalcopyrite, 20% spalerite, 5-7% galena. Visible gold at 481.17 and 482.1m.									
483.60	487.60	COPPER FACIES: , WITH MASSIVE PYRITE Copper facies mineralization. Massive, banded, contorted, medium grained sulphide zone, about 90% sulphides with minor barite. Zone is chalcopyrite-pyrite rich with very little sphalerite and galena. Grade estimates: 12-15% chalcopyrite, 2% sphalerite, 1% galena, 70% pyrite. 486.10 - Fine banding in pyrite ~45° WCA - Chalcopyrite appears as swirled and contorted bands through the pyrite.	R9111649	484.50	485.50	1.00	.13	19.62	3.45	.02	.20	68929
			R9111650	485.50	486.50	1.00	.04	1.67	7.64	<.01	2.77	68930
			R9111651	486.50	487.59	1.09	.04	4.94	4.89	<.01	.19	68931
			R9111652	487.59	488.60	1.01	.08	2.13	.98	.01	.11	68932
487.60	524.10	EXHALITIC TUFF: CHERT: SERICITIC DACITE ASH TUFF: Exhalite described as follows;. 487.61 489.88 EXHALITIC TUFF: - Similar to previous DAT. This section contains banded fine-medium grained pyrite, as coarse aggregates. No other sulphides. Pyrite 40% - Groundmass is sericitic, green waxy, occasional milky-white felsic fragments. 489.88 492.05 EXHALITIC TUFF: - Protolith unknown. Rock has been completely altered to a very soft waxy green sericite. 492.05 497.53 DACITE ASH TUFF: - Rock is intensely altered to quartz-sericite-pyrite, protolith difficult to establish. 492.05 493.50 - Siliceous grey-white bands interbedded with pyritic-sericite whisps. Siliceous clots upto 4 cm could be felsic fragments(?). Pyrite occurs as very fine grained whisps and coarse granular aggregates. 493.50 497.53 - Uniform, grey, granular rock locally 1-4 mm siliceous knots. Top 40 cm is cherty. 497.53 510.30 CHERT: - White, locally banded, very fine grained siliceous unit, very hard, laced throughout with a pyritic stockwork. Pyrite 10-15% generally coarse granular. 500.30 - Two - 1.5 cm qtz. Veins 30° WCA contain coarse pyrite and bluish mineral tetrahedrite. 503.00 - Banding (bedding?) 15° WCA. 507.50 Fine pyritic banding at 20° WCA. Lower contact at 30° WCA. 510.30 513.75 BASALTIC DYKE: - Uniform medium grained, pale-green, black, not magnetic - Bottom contact is irregular qtz. Vein ~8 cm, 15° WCA. 513.75 517.15 CHERT: - Same as 497.53-510.3 - Good irregular banding at 35-45° WCA throughout interval. 515.00 - 3 cm band of coarse grained pyrite 25° WCA - Bottom contact is irregular qtz vein. 0.5 cm gouge, 45° WCA. 517.15 517.75 EXHALITIC TUFF: - Fine-medium grained zone of semi-massive sulphide including pyrite, galena, + chalcopyrite in a barite matrix - Grade estimates are 2% chalcopyrite, 3% galena, 10% pyrite. Contains 1-2 mm sericitic and chloritic	R9111653	488.60	489.88	1.28	.05	.18	<.01	.01	.11	68933
			R9112043	489.88	492.05	2.17	.04	.00	<.01	<.01	<.01	68934
			R9112044	492.05	494.00	1.95	.01	.07	.03	<.01	.04	68935
			R9112045	494.00	496.00	2.00	.01	.06	.10	<.01	.04	68936
			R9112046	496.00	498.00	2.00	.01	.04	.06	<.01	.09	68937
			R9112047	498.00	500.00	2.00	.01	.08	.11	<.01	.04	68938
			R9112048	500.00	503.00	3.00	.01	.02	<.01	<.01	.01	68939
			R9112049	503.00	506.00	3.00	.01	.02	<.01	<.01	<.01	68940
			R9112050	506.00	509.00	3.00	.01	.02	<.01	<.01	<.01	68941
			R9112051	509.00	510.30	1.30	.00	.02	<.01	<.01	<.01	68942
			R9112052	513.75	515.10	1.35	.01	.03	<.01	<.01	<.01	68943
			R9112053	515.10	517.15	2.05	.01	.06	.03	<.01	.08	68944
			R9112054	517.15	517.75	.60	.06	2.55	1.80	1.89	12.90	68945
			R9112054	517.15	517.75	.60	.06	2.55	1.80	1.89	12.90	68945
			R9112055	518.80	520.80	2.00	.02	.40	.55	.11	1.31	68946
			R9112055	518.80	520.80	2.00	.02	.40	.55	.11	1.31	68946

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		tuff fragments.										
	517.76	518.80 BASALTIC DYKE: - Fine-medium grained, top contact is at 45° WCA, bottom at 30° WCA - Dark grey to black, homogenous - Mag. Susc. 2.0x10-6 CGU, moderately magnetic.										
	518.80	520.00 EXHALITIC TUFF: - Thinly laminated interval 15% WCA. Locally banding contorted. Rock is white sericite, very soft except where cherty, 3% dissem. Pyrite.										
	519.20	- 1.5 cm band massive chalcopyrite 30° WCA.										
	520.80	524.07 BASALTIC DYKE: - Black, magnetic, fine-medium grained - Top contact 30° WCA, bottom contact 70° WCA - Mag. Susc. 2.9x10-6 CGU.										
	521.20	521.63 - cherty tuff, sericitic, thinly banded at 30° WCA, contacts same at 30° WCA.										
	522.00	522.44 - Cherty tuff, sericitic, thinly banded at 30° WCA. Contacts same at ~30° WCA.										
524.10	528.49	EXHALITIC TUFF: SERICITIC - Intensely altered rock, qtz.-sericite, pyrite of unknown origin. May be basalt - no textural evidence for felsic composition - Unit is massive to finely banded at 527.5 at 15° WCA - Pyrite occurs as thin laminations and fine disseminations ~10% by volume - Lower contact is 10 cm coarse crystalline qtz. Vein.										
528.49	529.10	BASALTIC DYKE: - Same as 520.80-524.07 - Mag. Susc. 0.66x10-6 CGU, moderately magnetic.										
529.10		EOH										

Hole No: TCU91-35
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.44
(metres) E: 10662.31

Azimuth: 213.8
Dip: -76.6
Length (m): 529.10
Elevation: 112.78
(metres)
Purpose:

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: Aug. 31, 1991
Completed: Sept. 07, 1991
Recovery:

Date Logged: Sept. 01, 1991
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By: W. Melnyk
Report Printed: 19 Feb, 1993 10:00pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9111636	458.20	459.65	1.45		27.75	.03	.82	.33	.30	1.60											
R9111637	459.65	461.01	1.36	4.12	211.45	.11	5.76	2.45	3.26	17.32											
R9111638	461.01	462.16	1.15	3.71	230.03	.13	4.89	1.60	3.76	21.07											
R9111639	462.16	463.20	1.04	3.20	101.18	.04	1.95	1.56	1.08	9.06											
R9111640	463.20	463.94	.74	2.91	12.68	.01	.19	.12	.18	.91											
R9111641	463.94	464.97	1.03	3.48	152.29	.08	3.84	1.18	2.25	13.52											
R9111642	464.97	466.00	1.03		8.86	.01	.12	.12	.10	.71											
R9111643	466.00	467.20	1.20		27.27	.03	.33	.37	.21	1.75											
R9111644	467.20	468.48	1.28		7.09	.00	.14	.06	.11	.58											
R9112036	468.48	470.00	1.52		.84	.00	.01	.01	<.01	.02											
R9112037	470.00	472.00	2.00		.55	.00	.00	<.01	<.01	<.01											
R9112038	472.00	474.35	2.35		4.10	.01	.04	.02	.02	.21											
R9112039	474.35	476.00	1.65		24.13	.03	.71	.29	.20	1.21											
R9112040	476.00	477.50	1.50		23.17	.02	.47	.30	.22	1.29											
R9112041	477.50	478.50	1.00		10.45	.03	.06	<.01	.01	.03											
R9112042	478.50	479.85	1.35		31.29	.04	.91	.30	.25	1.68											
R9111645	479.85	481.17	1.32	3.09	71.98	.03	1.82	.94	.98	6.15											
R9111646	481.17	482.50	1.33	4.02	216.16	.04	5.26	2.55	2.41	22.52											
R9111647	482.50	483.56	1.06	3.94	256.33	.04	7.13	4.54	3.38	23.41											
R9111648	483.56	484.50	.94	4.26	154.04	.12	16.66	4.04	.13	1.39											
R9111649	484.50	485.50	1.00	4.31	142.87	.12	17.52	3.45	.02	.20											
R9111650	485.50	486.50	1.00	4.14	129.88	.03	1.49	7.64	<.01	2.77											
R9111651	486.50	487.59	1.09	4.27	88.85	.04	4.41	4.89	<.01	.19											
R9111652	487.59	488.60	1.01	3.62	43.86	.07	1.90	.98	.01	.11											
R9111653	488.60	489.88	1.28		17.75	.04	.16	<.01	.01	.11											
R9112043	489.88	492.05	2.17		11.82	.03	.00	<.01	<.01	<.01											
R9112044	492.05	494.00	1.95		4.40	.01	.07	.03	<.01	.04											
R9112045	494.00	496.00	2.00		3.87	.01	.05	.10	<.01	.04											
R9112046	496.00	498.00	2.00		3.52	.01	.03	.06	<.01	.09											
R9112047	498.00	500.00	2.00		5.98	.01	.07	.11	<.01	.04											

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
R9112048	500.00	503.00	3.00		2.17	.01	.01	<.01	<.01	.01											
R9112049	503.00	506.00	3.00		1.80	.00	.02	<.01	<.01	<.01											
R9112050	506.00	509.00	3.00		2.42	.01	.01	<.01	<.01	<.01											
R9112051	509.00	510.30	1.30		1.38	.00	.01	<.01	<.01	<.01											
R9112052	513.75	515.10	1.35		1.89	.00	.02	<.01	<.01	<.01											
R9112053	515.10	517.15	2.05		4.80	.01	.06	.03	<.01	.08											
R9112054	517.15	517.75	.60		138.73	.05	2.28	1.80	1.89	12.90											
R9112054	517.15	517.75	.60		138.73	.05	2.28	1.80	1.89	12.90											
R9112055	518.80	520.80	2.00		22.38	.02	.36	.55	.11	1.31											
R9112055	518.80	520.80	2.00		22.38	.02	.36	.55	.11	1.31											

APPENDIX 8

DIAMOND DRILL LOGS, ASSAYS, GEOCHEMICAL DETERMINATIONS and ROCK QUALITY DESIGNATIONS (1992)

Hole No: TCU92-36
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.96
(metres) E: 10596.43

Azimuth: 207.8
Dip: -84.8
Length (m): 813.82
Elevation: 113.51
(metres)
Purpose: To test H horizon down plunge from hole TCU90-23

Core Size: NQ to 616.31m then reduced to BQ to 813.82m (E.O.H.)
Drill Name: BOYLES 37A U/G
Contractor: F. BOISVENU DRILLING
Started: AUG. 7 1992
Completed: SEPT. 17, 1992
Recovery: GOOD

Date Logged: AUG.12 to SEPT.17, 1992
Logged By: D.J. HARRISON
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:24am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	207.8	-84.8															
3.0	207.8	-84.7	139.6	211.2	-85.1	276.1	214.4	-84.9	412.6	216.7	-84.6	549.2	214.3	-85.1	685.7	208.1	-86.1
9.1	207.8	-84.8	145.6	210.4	-85.2	282.2	214.4	-85.0	418.7	216.7	-84.7	555.2	214.3	-85.1	691.8	207.1	-86.1
12.1	207.8	-84.8	148.7	211.2	-85.2	285.2	214.4	-84.9	421.7	216.7	-84.7	558.3	214.3	-85.1	694.8	208.2	-86.2
15.2	207.8	-84.8	151.7	211.2	-85.2	288.2	214.4	-84.9	424.8	217.5	-84.6	561.3	214.3	-85.0	697.8	208.2	-86.2
18.2	207.8	-84.8	154.7	211.2	-85.2	291.3	215.2	-84.9	427.8	217.5	-84.6	564.3	214.3	-85.0	700.8	207.1	-86.3
21.2	207.8	-84.8	157.8	211.2	-85.2	294.3	216.0	-85.0	430.8	217.5	-84.6	567.4	213.5	-85.0	703.9	207.1	-86.3
24.3	208.6	-84.8	160.8	212.1	-85.2	297.3	215.2	-85.1	433.9	217.5	-84.5	570.4	214.3	-84.9	706.9	207.1	-86.3
27.3	207.8	-84.9	163.8	212.1	-85.2	300.4	215.2	-85.0	436.9	217.5	-84.5	573.4	214.3	-85.1	710.0	206.0	-86.3
30.3	207.0	-84.9	166.9	211.3	-85.1	303.4	215.2	-85.0	439.9	217.5	-84.6	576.5	214.3	-85.2	713.0	204.9	-86.4
33.4	207.8	-85.0	169.9	211.3	-85.0	306.4	215.2	-84.9	443.0	217.5	-84.6	579.5	215.1	-85.2	716.0	204.9	-86.4
36.4	207.8	-85.0	172.9	211.3	-85.0	309.5	215.2	-84.9	446.0	217.5	-84.6	582.5	215.1	-85.1	719.1	205.9	-86.3
39.4	207.8	-85.0	176.0	211.3	-85.1	312.5	215.2	-84.9	449.0	218.2	-84.5	585.6	214.3	-85.1	722.1	204.9	-86.2
42.5	207.8	-85.1	179.0	211.3	-85.0	315.5	216.0	-84.9	452.1	218.2	-84.6	588.6	214.3	-85.0	725.1	204.9	-86.2
45.5	207.8	-85.1	182.0	211.3	-85.0	318.6	216.0	-84.9	455.1	218.2	-84.6	591.6	215.1	-85.0	728.2	204.9	-86.2
48.5	207.8	-85.1	185.1	211.3	-85.0	321.6	216.0	-84.8	458.1	218.2	-84.7	594.7	215.9	-85.0	731.2	204.9	-86.3
51.6	207.8	-85.2	188.1	211.3	-85.1	324.6	216.0	-84.7	461.2	218.2	-84.8	597.7	215.9	-84.9	734.2	204.9	-86.3
54.6	207.8	-85.2	191.1	211.3	-85.0	327.7	216.0	-84.7	464.2	218.2	-84.8	600.7	215.1	-84.9	737.3	203.8	-86.4
57.7	207.8	-85.2	194.2	210.4	-85.0	330.7	216.8	-84.7	467.2	218.2	-84.8	603.8	215.9	-84.8	740.3	203.8	-86.5
60.7	207.8	-85.3	197.2	211.3	-85.0	333.7	216.0	-84.7	470.3	218.2	-84.8	606.8	215.9	-84.8	743.3	204.9	-86.4
63.7	207.8	-85.3	200.2	211.3	-85.0	336.8	216.0	-84.8	473.3	218.2	-84.7	609.8	215.9	-84.8	746.4	204.9	-86.4
66.8	207.8	-85.3	203.3	211.3	-85.0	339.8	216.0	-84.8	476.3	218.2	-84.7	612.9	216.7	-84.7	749.4	204.9	-86.4
69.8	207.8	-85.3	206.3	211.3	-85.0	342.8	215.2	-84.7	479.4	217.5	-84.6	615.9	217.4	-84.8	752.4	204.9	-86.4
72.8	207.8	-85.3	209.4	212.1	-85.0	345.9	214.5	-84.7	482.4	217.5	-84.6	618.9	217.4	-84.9	755.5	203.8	-86.4
75.8	207.8	-85.3	212.4	212.9	-84.9	348.9	214.5	-84.8	485.4	217.5	-84.6	622.0	217.4	-84.9	758.5	203.8	-86.5
78.9	208.7	-85.3	215.4	212.9	-84.9	351.9	215.3	-84.9	488.5	218.2	-84.6	625.0	218.2	-84.8	761.5	202.6	-86.6
81.9	208.7	-85.3	218.4	212.9	-84.9	355.0	215.3	-84.9	491.5	218.2	-84.6	628.0	219.0	-84.7	764.6	202.6	-86.6
84.9	208.7	-85.3	221.5	212.9	-84.9	358.0	214.5	-84.9	494.5	217.5	-84.7	631.1	219.0	-84.6	767.6	202.6	-86.6
88.0	208.7	-85.4	224.5	212.9	-84.8	361.0	213.7	-84.9	497.6	216.7	-84.7	634.1	219.0	-84.6	770.6	202.6	-86.7
91.0	208.7	-85.3	227.6	212.9	-84.8	364.1	213.7	-84.9	500.6	216.7	-84.7	637.1	219.7	-84.5	773.7	202.6	-86.8
94.1	209.5	-85.3	230.6	212.9	-84.8	367.1	213.7	-84.9	503.6	216.7	-84.8	640.2	219.7	-84.5	776.7	201.3	-86.9
97.1	209.5	-85.3	233.6	213.6	-84.8	370.1	212.9	-84.9	506.7	215.9	-84.9	643.2	219.7	-84.5	779.7	199.9	-87.0

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	207.8	-84.8															
100.1	209.5	-85.4	236.6	213.6	-84.8	373.2	212.1	-84.9	509.7	215.9	-84.9	646.2	219.7	-84.5	782.8	199.9	-87.0
103.2	209.5	-85.4	239.7	213.6	-84.8	376.2	212.9	-84.8	512.8	215.1	-84.9	649.3	220.5	-84.5	785.8	199.9	-87.0
106.2	209.5	-85.3	242.7	213.6	-84.8	379.3	212.9	-84.8	515.8	215.1	-84.9	652.3	221.2	-84.4	788.8	198.5	-87.1
109.2	209.5	-85.3	245.8	213.6	-84.7	382.3	212.9	-84.7	518.8	215.1	-84.9	655.3	220.5	-84.4	791.9	197.1	-87.1
112.3	209.5	-85.3	248.8	213.6	-84.8	385.3	213.6	-84.8	521.8	214.3	-85.0	658.4	219.0	-84.6	794.9	197.1	-87.0
115.3	209.5	-85.3	251.8	213.6	-84.9	388.4	214.4	-84.8	524.9	214.3	-85.0	661.4	216.6	-84.9	797.9	197.1	-87.0
118.3	209.5	-85.3	254.9	213.6	-84.9	391.4	214.4	-84.8	527.9	214.3	-85.1	664.4	212.1	-85.5	801.0	198.5	-87.0
121.4	210.4	-85.3	257.9	213.6	-84.9	394.4	214.4	-84.8	531.0	214.3	-85.1	667.5	209.2	-85.8	804.0	198.5	-87.0
124.4	210.4	-85.3	260.9	213.6	-85.0	397.5	215.2	-84.8	534.0	214.3	-85.1	670.5	209.2	-85.9	807.0	197.1	-86.9
127.4	210.4	-85.2	264.0	213.6	-84.9	400.5	216.0	-84.7	537.0	214.3	-85.2	673.5	209.2	-85.9	810.1	195.8	-87.0
130.5	210.4	-85.2	267.0	214.4	-84.9	403.5	216.0	-84.7	540.0	214.3	-85.1	676.6	209.2	-86.0	813.1	194.4	-87.1
133.5	211.2	-85.2	270.0	214.4	-85.0	406.6	216.0	-84.7	543.1	214.3	-85.1	679.6	209.2	-86.1			
136.5	211.2	-85.2	273.1	214.4	-84.9	409.6	216.7	-84.7	546.1	214.3	-85.1	682.7	209.2	-86.1			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	.61	CASING										
.61	46.00	BASALT UNDIFFERENTIATED: Dark green to black, fine grained to aphanitic, basaltic interval; pervasive propylitic alteration; weak to moderate veinlets and zones of quartz-epidote-chlorite from 0.5cm to 15cm wide, at varying angles; local flow-breccia over 20-50cm; silicification increases downwards with increase flow-breccia over 20-50cm; silicification increases downwards with increase in hairline fractures and greyish aphanitic silica flooding; lower 3m is flow brecciated; trace pyrite throughout. 29.75 30.50 FAULT Sheared and multiply brecciated fault zone, bleached to pale greenish grey; intense chlorite-clay-carbonate-quartz alteration; foliation at 70° to core axis.										
46.00	66.14	BASALT UNDIFFERENTIATED: Dark green to black, fine-grained feldspar porphyritic basalt with ~20% light grey feldspar phenocrysts, anhedral to euhedral, <1mm to 3mm; pervasive propylitic alteration, with moderate ubiquitous chlorite; local zones are bleached medium grey around high concentrations of chlorite veinlets; rare epidote-quartz veinlets; grey silica flooded envelope around hairline fractures; interval is very hard (>6), silicified. 49.85 50.45 FAULT Bleached pale grey-beige colour; strong clay altered, cut by calcite veinlets.										
66.14	82.35	BASALT ASH TUFF: SILICIFIED Dark grey aphanitic to fine-grained, very hard (>5), silicified, generally homogeneous dust to ash tuff; lower 6m have interlayered coarse ash tuff and occasional lapilli fragments; bedding is indistinct from fine to coarse layers at variable low angles to core axis (10°-30°); weak to moderately magnetic; possible flame structures indicate top is up.										
82.35	93.30	BASALT UNDIFFERENTIATED: Dark green to black, fine-grained to aphanitic matrix with ~5% anhedral to euhedral whitish to grey feldspar phenocrysts from 2-5mm; some appear to be spherical; no distinct quartz observed; very weak to non-magnetic; upper contact is brecciated with quartz-epidote-chlorite.										
93.30	100.85	BASALTIC TUFF: Dark green-grey at top changing downwards to dark brown-grey; distinct fine bedded basaltic to andesite ash tuffs; bedded at 35° to 50° to core axis; weak to non-magnetic; lower contact sharp at 90° to core axis.										
100.85	146.70	BASALT UNDIFFERENTIATED: CHLORITIC Dark green to black aphanitic to fine-grained matrix supporting faint greyish subhedral to euhedral laths of feldspar phenocrysts 0.5-3mm long, varying from 10% to locally crowded with ~40%; pervasive moderate										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

chlorite alteration with rare veins of epidote ± quartz, 1-5cm wide; very weak to non-magnetic; feldspar phenocrysts become less disinct downwards over the lower 6 metres.

146.70 158.30 BASALT ASH TUFF:
Medium to dark grey, coarse ash tuff to fine lapilli tuff, generally well sorted; upper 3m has ~5% black amphibole phenocrysts (chlorite replaced hornblende?) anhedral to euhedral, crudely aligned at 30°-40° to core axis; grains are distinct with fine whitish clay alteration around grains; interval is moderately soft; moderate to non-magnetic.

158.30 177.30 BASALT UNDIFFERENTIATED: SILICIFIED
Dark green to green-grey, fine-grained to aphanitic, weak to non-magnetic; Dark green to green-grey, fine-grained to aphanitic, weak to non-magnetic; non to weakly porphyritic with local zones of ~10-20% chlorite replaced amphiboles(?) and possible feldspar phenocrysts (masked by alteration); interval is hard, with moderate silica flooding(?); lower 8 metres is broken, blocky core with low RQD; moderate flow brecciation and quartz-chlorite ± epidote veins and veinlets.

177.30 185.20 BASALT ASH TUFF:
Indistinct upper contact; interval is similar to above basalt to andesite ash tuff from 146.70 to 158.30 metres.

185.20 193.40 BASALT UNDIFFERENTIATED: PROPYLITIC
Dark green to dark grey, fine-grained to aphanitic; moderate to strong propylitic alteration with pervasive chlorite and silicification; local breccia veins of epidote-chlorite, grey calcite and quartz; strongly altered along vein selvages; numerous zones of core chips with 0 RQD; non to strongly magnetic; lower part of interval is moderate to strongly silicified and brecciated; lower contact is sharp at 55° to core axis.

193.40 212.15 VOLCANIC SEDIMENTS:
Dark grey, very fine-grained volcanic derived sediments of fine dust tuff or dark grey to black silicified argillite with local distinct bedding; upper 1 metre is medium grey, brecciated and very siliceous, grading down to 196.5 m into pale grey to white chert beds ~0.5-1cm thick, rhythmically bedded at ~10° to core axis with minor folds and fracture offsets; bedding continues downward becoming less distinct at 199-200m. Central portion of interval is homogeneous and featureless; at 208.90m is bottom of coarse ash tuff layer fining upwards (tops up); from here to end of interval bedding is distinct at 40° to core axis; lower contact is sharp, marked by epidote-magnetite veinlet at 25° to core axis.

212.15 306.00 BASALT UNDIFFERENTIATED:
Fine to coarse-grained rarely aphanitic, dark green, generally feldspar phyric, weak to moderately magnetic; pervasive moderate propylitic

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

alteration; feldspar phenocrysts are locally crowded up to 30-50% as euhedral laths up to 2-3mm long; interval is very hard (>5-6); cut by quartz-epidote ± chlorite ± massive magnetite veins up to 15cm wide every ~3m.

212.15 222.90 Dark greenish grey, fine-grained with ~1-2% chlorite replaced anhedral amphibole(?) phenocrysts.

222.90 224.90 Bleached medium grey coloured zone, moderate to strongly silicified and weakly brecciated.

265.75 272.00 Zone of white quartz veins 10-20cm wide with ~25% epidote; 5-10% massive magnetite veins and pods and trace brown garnet, occur evey 1 to 2 metres consistently at 50° to core axis.

306.00 317.50 BASALTIC DYKE:
Fine-grained to aphanitic, black siliceous interval; moderately magnetic; faint whispy alignment in core may be bedding; local zones of up to 30% faint rounded greyish-blue grains of possible cordierite; undecided to label this rock type a siliceous argillite or fine-grained dyke.

317.50 438.95 BASALT UNDIFFERENTIATED:
Fine-grained, greyish green homogeneous basaltic interval with occasional veins and veinlets of white quartz, lesser epidote, minor magnetite and trace chalcopyrite, and rare acicular hornblende needles; andesite is evenly fine-grained throughout; rare epidote altered patches <20cm wide.

438.95 443.50 VOLCANIC SEDIMENTS:
Channel deposit with 2 to 3 cm rounded light grey chert ± dacite conglomerate clasts at bottom of interval; clast supported, grading upwards to finer grained chert/dacite pebble conglomerate-wacke (442.4-443.5m); upper section of interval is fine-grained water-lain andesite tuff with crude bedding at 50° to core axis.

443.50 503.70 BASALT ASH TUFF:
Dark green, variably fragmental basalt to andesite, weak to moderately magnetic; upper 48 meters is dominantly andesite ash tuff, locally amphibole phyric; rare intervals of waterlain epiclastic (~20-30cm wide) of greyish dacitic(?), rounded, bedded clasts at 60° to core axis; locally ash is finely well bedded (waterlain) at ~60° to core axis; rare lapilli fragments are intermixed throughout. Lower 12m is fine lapilli tuff with interlayered, bedded, fine ash tuff at 30° to core axis. Lower contact is gradational over ~1.5 metres.

461.75 470.30 PROPYLITIC Fracture zone with blocky, low RQD core; strong propylitic altered zone cut by fine (1-2mm) quartz-carbonate veinlets; chlorite alteration is moderate to strong; weak locallized clay alteration; rare gouge.

503.70 531.40 DACITE LAPILLI TUFF:

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

Light to medium grey, dominantly dacite lapilli tuff with lesser intermixed dark greenish andesite lapilli fragments; rare to 1% white chert fragments; ~2% hematitic whispy lenses and elongate fragments (at 543.45 is 10cm zone of magnetic red hematitic matrix); rare light grey coloured breccia-sized fragments; local small scale kink folds; foliated fabric is variable from 30° to 50° to core axis; lower contact is sharp and weakly fragmented with lower interval.

531.40 551.55 BASALT UNDIFFERENTIATED:
Dark greenish fine to medium-grained basaltic interval; feldspar phyric with up to 30% greenish grey, subhedral randomly oriented feldspar laths 0.5 to 3mm long, evenly distributed throughout; weak to moderately magnetic; rare massive magnetite bands over 1-3cm (massive magnetite from 540.21 to 540.24); moderate pervasive propylitic alteration, weakly quartz-epidote-chlorite veinleted; core is hard but not siliceous.

551.55 569.25 FAULT
Fault zone through dark greenish andesite flow as described above, with local 'young' faults as milled crush zones. Detailed footages documented below.
551.55 552.10 FAULT Milled crush-zone; sharp contacts with wall-rock; core is broken and milled to gravel and coarse sand, locally blocky and broken; weak to moderate chlorite alteration.
554.10 555.00 FAULT Same as above fault.
564.50 566.00 FAULT Same as above fault; minor clay gouge.
569.06 569.25 FAULT Broken, blocky core, strong chlorite on fractures.

569.25 638.60 BASALT UNDIFFERENTIATED:
Continuation of feldspar phyric basaltic interval described above from 531.40 metres. (Drilling discontinued on Aug. 24/92 due to ground problems from above fault zone. Drilling recommenced on Sept. 2/92) Lower 8 metres of interval is increasingly fractured and veinleted with epidote-chlorite ± quartz ± magnetite, with pale green epidote flooded haloes; lower contact is sharp at 60-70° to core axis.

638.60 662.10 DACITE FLOW:
Variably mottled light to dark grey, auto-brecciated, weakly feldspar phyric dacite flow; feldspar phenocrysts are most distinct against dark grey matrix; more obscured in patchy chlorite - albite flooded zones; local weak flow-banding or foliation at ~50° to core axis; minor white quartz veins from 3-10cm wide; lower contact is sharp but irregular.
641.00 643.60 BASALTIC DYKE: Dark geen to black, fine-grained to aphanitic, weak to strongly magnetic; rare xenoliths of dacite flow wall-rock (~8cm dia.); sharp contacts; upper contact at 80° to core axis; lower contact at 35-50° to core axis; wall-rock adjacent dyke is strongly fractured

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		and veinleted with siliceous dyke material and chlorite.										
		650.90 651.70 BASALTIC DYKE: Black, fine-grained to aphanitic; non-magnetic dyke with zero RQD; contacts are broken in core, rapid but indistinct.										
		652.25 652.55 BASALTIC DYKE: Black, aphanitic dyke; moderate to strongly magnetic; angle to core is 0° as hole has been drilled down along one contact; (other half of core is wall-rock).										
		655.40 658.10 FAULT Broken, rubbly core; RQD is less than 20; zone was cemented due to difficult drilling; zone appears to be flow-brecciated, quartz-veined with possible multiple episodes of quartz vein brecciation. (Hole stopped Sept. 5/92 at 663.55 metres due to difficult dilling conditions; zone was cemented. Drilling resumed Sept. 10/92).										
662.10	675.74	BASALT UNDIFFERENTIATED: Dark green, fine to medium-grained basaltic interval; variably non to strongly magnetic; pervasive moderate propylitic alteration; locally feldspar phenocrysts are vague; interval is weakly cut by quartz-epidote veinlets and veins with trace pyrite; lower contact is sharp, marked by a narrow, 5cm zone of core chips.										
675.74	696.00	DACITE FLOW: SERICITIC DACITE LAPILLI TUFF: Mottled, medium to dark greyish, strongly altered and auto-brecciated feldspar phyric dacite flow with lapilli-sized fragments at top of interval; dominant alteration is medium to light grey sericite(?) - clay with ~2-5% fine black specks; mottled pattern is dominant around intense chlorite altered 'patches' and veins, due to whitish albitic flooding; feldspar phenocysts are locally distinct; top and bottom 1 to 1.5 metres of interval have fragmental texture (probable flow brecciation).	25090	694.00	696.00	2.00	.01	.57	.03	.09	.03	
		688.70 690.60 BASALTIC DYKE: Medium grey-green, fine to medium-grained basaltic dyke, moderately magnetic; upper contact is sharp and irregularly sheared; lower contact is sharp at 40° to core axis.										
		693.70 694.05 BASALTIC DYKE: Fine-grained, dark grey dyke; sharp, irregular contacts; weak to moderately magnetic.										
696.00	697.85	BASALTIC DYKE: Dark greenish, fine-grained, moderate to strongly magnetic dyke; upper contact is sharp at 30° to core axis; lower contact of andesite dyke is irregular and brecciated.										
697.85	699.00	BASALTIC DYKE: Medium grey, weak to moderately magnetic; ~5% white feldspar and minor quartz porphyritic; lower contact is indistinct as core is rubbly over lower 10 cm.										
699.00	718.35	ZINC FACIES: SERICITIC , WITH BANDED SPHALERITE										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Sulphide exhalite zone of intense sericitized ash tuff with local grey to white chert fragments (~5%); up to 25% pyrite disseminated throughout, locally concentrated into massive bands from 10cm to 40cm, along variable foliation from 0° to 40° to core axis, locally contorted; ~12-15% sphalerite (greyish brown colour) disseminated to locally massive and crudely banded; ~2% chalcopyrite, locally concentrated as fine irregular veinlets with ~1% galena as fine to coarse disseminated grains. Interval is a mixed exhalitic ash/sulphide 'sediment' with local slumpage and debris flow zones.	Z116	699.00	701.00	2.00						
			25091	699.00	700.00	1.00	.05	1.95	.08	.49	.06	
			25092	700.00	701.00	1.00	.02	1.09	.93	.37	1.49	
			25093	701.00	702.00	1.00	.02	1.28	.68	1.28	10.71	
			ZBP	701.00	718.35	17.35						
			25094	702.00	703.00	1.00	.02	2.01	2.62	.39	10.22	
			25095	703.00	704.00	1.00	.03	1.79	.63	1.99	9.67	
			25096	704.00	705.00	1.00	.04	2.52	.61	1.37	7.27	
			25097	705.00	706.00	1.00	.05	4.33	.81	3.38	15.40	
			25098	706.00	707.00	1.00	.06	4.92	1.45	.45	5.35	
			25099	707.00	708.00	1.00	.02	1.20	.25	.95	5.88	
			25100	708.00	709.00	1.00	.01	1.64	.43	.97	6.43	
			25101	709.00	710.00	1.00	.01	1.58	.21	.45	2.28	
			25102	710.00	711.00	1.00	.04	2.24	1.34	1.54	12.22	
			25103	711.00	712.00	1.00	.03	4.10	1.01	2.11	11.69	
			25104	712.00	713.00	1.00	.02	2.59	.21	2.57	12.99	
			25105	713.00	714.00	1.00	.04	3.12	1.14	.59	10.56	
			25106	714.00	715.00	1.00	.02	2.42	.53	.45	8.16	
			25107	715.00	716.00	1.00	.00	.19	.08	.04	.21	
			25108	716.00	717.00	1.00	.01	.80	.22	.19	8.28	
			25109	717.00	718.35	1.35	.02	1.72	1.14	.38	8.76	
718.35	742.75	DACITE FLOW: Variably mottled light to dark grey, intermixed dacite lapilli tuff and flow brecciated feldspar phyric dacite flow. Upper 7.5 metres is pale greenish-grey moderate to strong albite-chlorite altered lapilli tuff with grey silica fractures, and trace pyrite. Middle 14 metres consists of dark to medium grey, breccia-sized fragments of feldspar phyric dacite, with ~10% whitish (bleached?) subangular dacite or rhyolite volcanic lapilli-sized fragments; ~5% pale green albite flooding. Lower 2.8 metres is feldspar phyric dacite flow with dark grey matrix supporting up to 20% white anhedral to subhedral feldspar phenocrysts from 1-3 millimetres long; ~10% patchy grey chlorite/sericite alteration and ~20% patchy whitish albitic flooding; lower contact is sharp at 45° to core axis.	25110	718.35	720.35	2.00	.00	.11	.03	.04	.07	
			25111	740.75	742.75	2.00	.00	.16	.01	.01	.05	
742.75	748.00	DACITE LAPILLI TUFF: SERICITIC , WITH BANDED PYRITE Medium to light greyish exhalitic interval; fine, well-bedded lapilli tuff with 10% fine disseminated pyrite throughout, locally bedded into massive (~50%) pyrite bands; lapilli fragments (~20%) are generally distinct and intermixed with sericitized ash tuff (~20%); local chert beds (<5cm wide) and narrow argillite beds show gentle folding and boudinage structure; entire interval is well-bedded or foliated at 0° to 35° to core axis (average ~20°); sphalerite is difficult to identify - apparent pale brownish-grey colour, up to 2-5%; trace to 1% local, irregular masses of chalcopyrite and trace disseminated galena; upper contact is sharp at 45° to core axis; lower contact with dyke is	25112	742.75	743.75	1.00	.02	.58	.30	.04	.68	
			25113	743.75	744.75	1.00	.12	6.76	.51	.92	4.93	
			ZBQ	743.75	750.00	6.25						
			25114	744.75	745.75	1.00	.07	2.01	.37	.31	5.59	
			25115	745.75	746.75	1.00	.03	.67	.37	.24	8.78	
			25116	746.75	748.00	1.25	.00	.01	.02	.01	.07	

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		irregular at low angle to core (<20° to core axis).										
748.00	756.50	BASALTIC DYKE: Drill has penetrated a dyke very close to a suphide horizon contact, as traces of pyrite (up to 2%), sphalerite (1%), chalcopyrite, and galena(?) are present in the alteration; dyke is fine-grained, mottled grey-green to dark green to black, basaltic; moderate propylitically altered and weakly cut by white to grey calcite stringers and veinlets; mottling is due to intense chlorite ± quartz ± epidote; upper contact is irregular (<20° to core axis) and core is broken; lower contact is sharp at 15° to core axis. 754.92 755.12, With MASSIVE PYRITE Possible xenolith or edge of sulphide horizon; 30% pyrite; ~5-10% sphalerite(?); 2-5% chalcopyrite; upper contact at 30° to core axis; lower contact is irregular.	25117	748.00	750.00	2.00	.02	2.21	1.10	.38	4.26	
			25118	750.00	752.00	2.00	.00	.17	.11	.07	.13	
			25119	752.00	754.00	2.00	.00	.46	.14	.48	.11	
			25120	754.00	756.00	2.00	.19	2.56	.45	.67	1.41	
			ZBO	754.00	774.40	20.40						
			25121	756.00	756.50	.50	.18	3.03	1.57	.88	1.63	
756.50	759.10	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED SPHALERITE Dacitic ash and lapilli tuff, strongly sericitized; 20% disseminated to locally massive pyrite throughout; 5-10% buff brownish sphalerite locally massive; trace to 1% chalcopyrite; trace disseminated galena; ~2-5% greyish chert fragments and beds < 3cm wide; interval is weakly banded with angles to core axis from ~10° to 40°.	25122	756.50	757.50	1.00	.10	2.33	.96	.29	8.07	
			25123	757.50	758.50	1.00	.03	1.11	.26	.47	3.03	
			25124	758.50	759.10	.60	.04	1.24	.91	.62	4.10	
759.10	761.50	BASALTIC DYKE: Fine-grained, dark green to black with light grey-green patches; moderate to strongly magnetic; upper contact sharp at 30° to core axis; lower contact sharp at 10° to core axis; (lower contact spans 30cm core length; end of interval taken at half way point).	25125	759.10	761.50	2.40	.14	1.28	.08	.24	.23	
761.50	770.00	ZINC FACIES: SERICITIC , WITH DISSEMINATED SPHALERITE Light grey coloured, strong sericite altered dacite lapilli tuff with 2-5% grey to whitish chert fragments; interval is weakly bedded at variable angles from 0° to 50° to core axis; 5-10% fine disseminated pyrite throughout ; possibly 15-20% sphalerite as yellow-brown-grey disseminations (at 768.15 to 768.3 is brown red band of ~50% sphalerite); 1-2% irregular disseminated and fine veinleted chalcopyrite; trace galena; lower contact sharp at 40° to core axis.	25126	761.50	762.50	1.00	.08	2.63	1.10	2.54	13.25	
			25127	762.50	763.50	1.00	.08	1.68	.58	.60	10.37	
			25128	763.50	764.50	1.00	.04	1.07	.17	.74	10.65	
			25129	764.50	765.50	1.00	.03	1.38	.53	1.53	10.35	
			25130	765.50	766.50	1.00	.05	2.23	.76	1.82	10.13	
			25131	766.50	767.50	1.00	.03	.89	.60	.74	3.64	
			25132	767.50	768.50	1.00	.05	1.59	.45	2.31	12.86	
			25133	768.50	769.50	1.00	.05	2.63	.45	1.24	9.72	
			25134	769.50	770.00	.50	.07	2.23	.34	.69	5.86	
770.00	770.75	BASALT ASH TUFF: Dark green, fine-grained basaltic layer; possible conformable ash tuff layer or sill; upper contact is sharp and weakly sheared with minor parallel quartz veinlets at 40° to core axis; lower contact is rapidly gradational over 5cm with trace pyrite, at 30° to core axis.	25135	770.00	770.75	.75	.09	1.85	1.08	.57	.23	
770.75	774.40	COPPER FACIES: SERICITIC , WITH BANDED CHALCOPYRITE:										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Interval of massive and banded sulphides in sericitized and chloritized exhalitic ash, or silicified, fractured chert. Upper ~1.65 metres is probable Zinc Facies which consists of banded pyrite varying from 10% at the top to ~60% at bottom, with 10% sphalerite; 2% chalcopyrite occurs as fine, whispy layers and rare disseminations; gangue is chloritic to sericitic ash with rare to 2% chert fragments. Lower 2 metres is Copper Facies consisting of ~10% chalcopyrite in dominantly siliceous, fractured chert(?), and/or fine-bedded, sericitized ash tuff; chalcopyrite is locally concentrated into near massive bands from 35° to 60° to core axis, rarely in irregular masses and fine veinlets; trace disseminated galena; possible trace to 1% sphalerite; lower contact is sharp at 50° to core axis.	25136	770.75	771.75	1.00	.04	1.45	1.83	.09	5.85	
			25137	771.75	772.75	1.00	.04	1.56	4.71	.44	6.98	
			25138	772.75	773.75	1.00	.16	4.84	1.89	.57	.59	
			25139	773.75	774.40	.65	.11	3.67	9.85	.11	2.74	
774.40	775.50	DACITE LAPILLI TUFF: SERICITIC Light grey coloured, strongly sericitized dacite lapilli tuff; weakly bedded at 40-50° to core axis; gradual change to darker grey towards bottom of interval; trace to 1% pyrite and chalcopyrite disseminated throughout; lower contact is sharp but irregular.	25140	774.40	775.50	1.10	.02	.37	.31	.06	.47	
775.50	788.00	DACITE LAPILLI TUFF: Variably medium to dark grey fragmental lapilli tuff varying in composition from dacitic to andesitic; weak sericitic alteration of more felsic intervals, with propylitic alteration (chlorite-quartz-epidote); local gradational intervals to dark green andesite ash tuff; upper contact is sharp but irregular; upper 3.5 metres is quartz-epidote-albite altered and strongly fractured, locally brecciated; lower contact is sharp and pyritic at 20° to core axis.										
788.00	813.82	BASALT FLOW: Dark green-grey, fine-grained, moderate to strongly magnetic basaltic ash tuff down to 796.75, then dark green to black, fine-grained basalt flow; non to moderately magnetic; entire interval is moderately propylitically altered, with minor veinlets and alteration 'patches' of epidote, quartz ± garnet.										
813.82		EOH										

Hole No: TCU92-36
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.96
(metres) E: 10596.43

Azimuth: 207.8
Dip: -84.8
Length (m): 813.82
Elevation: 113.51
(metres)
Purpose: To test H horizon down plunge from hole TCU90-23

Core Size: NQ to 616.31m then reduced to BQ to 813.82m (E.O.H.)
Drill Name: BOYLES 37A U/G
Contractor: F. BOISVENU DRILLING
Started: AUG. 7 1992
Completed: SEPT. 17, 1992
Recovery: GOOD

Date Logged: AUG.12 to SEPT.17, 1992
Logged By: D.J. HARRISON
Date Re-logged:
Re-logged By:
Report Printed: 19 Feb, 1993 10:05pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25090	694.00	696.00	2.00	2.78	7.31	.01	.51	.03	.09	.03		14.9	250	681	185	1.70	25	1	74	584	
25091	699.00	700.00	1.00	2.76	26.02	.05	1.74	.08	.49	.06		52.6	719	4125	502	1.45	114	3	753	112	
25092	700.00	701.00	1.00	3.52	31.37	.02	.97	.93	.37	1.49		28.9	9139	3179	13520	12.59	501	43	179	13	
25093	701.00	702.00	1.00	3.71	92.92	.02	1.14	.68	1.28	10.71		30.8	6424	10426	99999	9.52	217	413	101	16	
25094	702.00	703.00	1.00	3.63	113.19	.02	1.79	2.62	.39	10.22		51.8	21672	3065	99999	8.80	262	367	88	20	
25095	703.00	704.00	1.00	3.68	93.14	.03	1.60	.63	1.99	9.67		42.1	5535	14837	92027	5.56	279	339	126	16	
25096	704.00	705.00	1.00	3.45	79.20	.04	2.25	.61	1.37	7.27		58.8	5219	12067	69415	6.11	513	255	459	14	
25097	705.00	706.00	1.00	3.88	147.53	.04	3.86	.81	3.38	15.40		76.7	4098	21466	99999	7.05	1220	562	371	13	
25098	706.00	707.00	1.00	3.92	86.86	.05	4.40	1.45	.45	5.35		100.0	10653	4017	49851	15.32	3288	208	770	16	
25099	707.00	708.00	1.00	3.56	52.92	.02	1.07	.25	.95	5.88		25.8	1813	6839	47906	5.75	207	174	79	20	
25100	708.00	709.00	1.00	3.32	58.88	.01	1.46	.43	.97	6.43		38.8	3632	7857	57123	4.78	146	222	79	25	
25101	709.00	710.00	1.00	3.14	25.73	.01	1.41	.21	.45	2.28		37.2	1660	3590	18841	8.17	247	55	161	14	
25102	710.00	711.00	1.00	3.80	118.79	.03	2.00	1.34	1.54	12.22		55.4	11476	12665	99999	7.40	118	455	123	11	
25103	711.00	712.00	1.00	3.31	116.78	.03	3.66	1.01	2.11	11.69		59.5	4877	11916	69357	5.11	181	288	312	6	
25104	712.00	713.00	1.00	3.87	108.82	.02	2.31	.21	2.57	12.99		56.5	1499	18991	99999	7.29	176	429	229	15	
25105	713.00	714.00	1.00	3.25	105.90	.04	2.78	1.14	.59	10.56		62.1	8835	4928	91695	6.11	591	351	547	10	
25106	714.00	715.00	1.00	3.55	74.61	.02	2.16	.53	.45	8.16		55.4	4861	3801	80643	8.21	687	263	774	17	
25107	715.00	716.00	1.00	2.84	3.70	.00	.17	.08	.04	.21		6.9	677	276	1453	5.43	80	5	61	75	
25108	716.00	717.00	1.00	3.20	62.43	.01	.71	.22	.19	8.28		19.3	2083	1545	76562	4.46	130	305	165	19	
25109	717.00	718.35	1.35	3.32	83.13	.02	1.53	1.14	.38	8.76		40.7	10900	3093	84323	7.57	434	313	434	15	
25110	718.35	720.35	2.00		2.36	.00	.10	.03	.04	.07		3.9	240	330	466	1.53	10	2	5	848	
25111	740.75	742.75	2.00		1.26	.00	.14	.01	.01	.05		.6	75	43	389	1.60	6	1	5	826	
25112	742.75	743.75	1.00	2.90	17.29	.02	.52	.30	.04	.68		18.3	2680	304	5540	3.21	35	25	35	27	
25113	743.75	744.75	1.00	2.93	99.74	.11	6.04	.51	.92	4.93		211.2	4812	9451	43955	6.60	126	200	584	9	
25114	744.75	745.75	1.00	3.24	71.35	.07	1.79	.37	.31	5.59		63.2	3448	2857	50321	10.80	228	225	487	9	
25115	745.75	746.75	1.00	3.46	72.56	.02	.60	.37	.24	8.78		22.0	2336	2040	80001	13.00	58	385	76	9	
25116	746.75	748.00	1.25		1.09	.00	.01	.02	.01	.07		1.6	140	48	435	7.07	4	0	2	803	
25117	748.00	750.00	2.00		56.24	.02	1.97	1.10	.38	4.26		66.0	11249	3163	36767	15.72	89	164	96	9	
25118	750.00	752.00	2.00		4.38	.00	.15	.11	.07	.13		6.3	946	499	839	7.39	23	2	2	60	

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25119	752.00	754.00	2.00		6.75	.00	.41	.14	.48	.11		15.5	1161	4363	756	6.22	25	3	2	195	
25120	754.00	756.00	2.00		88.48	.17	2.28	.45	.67	1.41		79.3	3653	5858	11514	6.98	59	46	79	23	
25121	756.00	756.50	.50		100.07	.16	2.70	1.57	.88	1.63		96.9	13591	8331	14263	5.50	60	56	113	21	
25122	756.50	757.50	1.00	3.35	103.79	.09	2.08	.96	.29	8.07		69.5	8538	2751	73054	8.33	172	306	297	7	
25123	757.50	758.50	1.00	3.15	37.43	.03	.99	.26	.47	3.03		32.8	2185	4429	25331	8.20	145	108	208	11	
25124	758.50	759.10	.60	3.15	58.16	.04	1.11	.91	.62	4.10		42.5	8108	5680	35544	7.37	141	152	146	7	
25125	759.10	761.50	2.40		54.80	.13	1.14	.08	.24	.23		44.1	651	2125	1638	6.24	204	8	156	153	
25126	761.50	762.50	1.00	3.53	141.53	.07	2.35	1.10	2.54	13.25		75.0	9117	24700	99999	7.09	127	559	146	10	
25127	762.50	763.50	1.00	3.38	106.25	.07	1.50	.58	.60	10.37		49.9	4617	5669	91148	6.11	232	431	357	9	
25128	763.50	764.50	1.00	3.47	90.85	.04	.95	.17	.74	10.65		33.5	914	7178	99999	10.24	112	471	126	7	
25129	764.50	765.50	1.00	3.50	91.71	.03	1.23	.53	1.53	10.35		38.8	4095	16946	99407	7.92	259	476	113	5	
25130	765.50	766.50	1.00	3.66	103.92	.05	1.99	.76	1.82	10.13		57.2	6569	23232	99999	7.65	578	461	187	4	
25131	766.50	767.50	1.00	3.18	44.69	.02	.79	.60	.74	3.64		23.9	5563	6669	30302	8.30	96	124	47	6	
25132	767.50	768.50	1.00	3.44	117.57	.05	1.42	.45	2.31	12.86		35.5	1961	26096	99999	4.95	460	644	168	7	
25133	768.50	769.50	1.00	3.29	94.70	.04	2.35	.45	1.24	9.72		60.2	2335	13987	87502	6.05	671	431	236	5	
25134	769.50	770.00	.50	3.03	75.02	.07	1.99	.34	.69	5.86		62.1	2149	7591	54542	6.83	448	252	[illegible]	5	
25135	770.00	770.75	.75	2.90	50.76	.08	1.65	1.08	.57	.23		58.6	9584	4938	1507	3.65	326	10	153	25	
25136	770.75	771.75	1.00	3.98	79.55	.04	1.29	1.83	.09	5.85		41.8	17742	579	49953	15.98	594	248	175	12	
25137	771.75	772.75	1.00	4.00	123.21	.04	1.39	4.71	.44	6.98		42.2	43091	3787	57706	17.65	208	343	77	8	
25138	772.75	773.75	1.00	3.01	94.95	.14	4.32	1.89	.57	.59		137.5	17144	5296	4554	3.96	1110	29	550	15	
25139	773.75	774.40	.65	3.76	187.26	.10	3.27	9.85	.11	2.74		94.2	71690	855	20101	14.39	387	114	125	6	
25140	774.40	775.50	1.10		16.00	.02	.33	.31	.06	.47		11.0	2591	441	3272	2.83	100	16	76	23	

Hole No: TCU92-36
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15544.96
(metres) E: 10596.43

Azimuth: 207.8
Dip: -84.8
Length (m): 813.82
Elevation: 113.51
(metres)
Purpose: To test H horizon down plunge from hole TCU90-23

Core Size: NQ to 616.31m then reduced to BQ to 813.82m (E.O.H.)
Drill Name: BOYLES 37A U/G
Contractor: F. BOISVENU DRILLING
Started: AUG. 7 1992
Completed: SEPT. 17, 1992
Recovery: GOOD

Date Logged: AUG.12 to SEPT.17, 1992
Logged By: D.J. HARRISON
Date Re-logged:
Re-logged By:
Report Printed: 21 Feb, 1993 4:31pm

Sample No.	From (m)	To (m)	Interval (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25090	694.00	696.00	2.00	4	12	5	277	5	4	49	2	16	.57	8	18	.90	.08	2	2
Z116	699.00	701.00	2.00																
25091	699.00	700.00	1.00	1	4	4	277	5	4	49	2	4	.31	13	9	1.28	.05	3	1
25092	700.00	701.00	1.00	5	42	9	122	5	2	31	6	8	.40	2	59	.65	.02	2	1
25093	701.00	702.00	1.00	8	43	6	138	5	1	31	6	7	.24	2	45	.58	.01	2	1
25094	702.00	703.00	1.00	10	94	10	188	5	1	42	2	9	.72	2	26	.81	.01	2	1
25095	703.00	704.00	1.00	9	122	12	211	5	1	48	2	19	.85	2	132	1.77	.03	2	1
25096	704.00	705.00	1.00	8	58	7	150	5	1	44	2	8	.55	2	57	.92	.01	2	1
25097	705.00	706.00	1.00	7	9	3	47	5	1	21	2	1	.06	2	3	.08	.01	2	74
25098	706.00	707.00	1.00	4	10	4	55	5	2	17	6	1	.16	2	10	.15	.01	2	1
25099	707.00	708.00	1.00	4	33	12	543	5	1	28	2	60	.30	2	67	1.98	.12	2	1
25100	708.00	709.00	1.00	2	31	11	521	5	1	54	6	55	.42	2	61	2.06	.11	2	1
25101	709.00	710.00	1.00	5	37	14	564	5	1	40	2	61	.62	2	68	2.38	.08	2	1
25102	710.00	711.00	1.00	13	56	8	159	5	1	43	3	8	.92	2	28	.68	.01	2	1
25103	711.00	712.00	1.00	6	42	5	99	5	1	34	2	5	.74	2	24	.43	.01	2	18
25104	712.00	713.00	1.00	21	50	7	177	5	1	26	2	8	.42	2	23	.59	.01	2	1
25105	713.00	714.00	1.00	7	44	13	243	5	1	38	2	11	.62	2	10	.56	.01	2	1
25106	714.00	715.00	1.00	8	29	10	155	5	1	39	9	7	.24	2	8	.45	.01	2	1
25107	715.00	716.00	1.00	1	86	29	2006	5	1	39	2	139	.53	2	139	4.57	.13	2	5
25108	716.00	717.00	1.00	8	43	9	236	5	1	52	2	12	.37	2	53	.92	.01	2	1
25109	717.00	718.35	1.35	9	64	9	209	5	1	44	4	14	.67	2	87	1.39	.01	2	1
25110	718.35	720.35	2.00	3	25	5	261	5	4	55	2	7	.99	9	56	.76	.04	2	4
25111	740.75	742.75	2.00	2	11	4	230	5	2	49	2	12	.57	8	37	.77	.09	2	4
25112	742.75	743.75	1.00	4	200	19	235	5	1	107	2	22	1.97	2	218	1.90	.07	2	1
25113	743.75	744.75	1.00	9	56	12	175	5	1	66	3	13	.65	2	31	1.17	.05	11	1
25114	744.75	745.75	1.00	9	65	11	183	5	1	43	3	14	.62	2	89	1.32	.04	14	1
25115	745.75	746.75	1.00	7	20	7	156	5	1	31	2	13	.33	2	40	.97	.04	18	1
25116	746.75	748.00	1.25	1	28	27	486	5	1	62	2	212	1.37	2	35	3.41	.20	2	1
25117	748.00	750.00	2.00	6	70	11	196	5	1	46	2	26	1.09	2	75	1.22	.06	7	1
25118	750.00	752.00	2.00	1	26	28	702	5	1	160	2	187	4.43	2	11	3.62	.13	2	1

Sample No.	From (m)	To (m)	Inter-val (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25119	752.00	754.00	2.00	1	64	25	699	5	1	117	2	167	3.27	2	40	3.76	.15	2	1
25120	754.00	756.00	2.00	1	81	27	503	5	1	64	2	161	1.86	2	54	2.71	.25	2	1
25121	756.00	756.50	.50	1	41	13	505	5	1	95	2	165	2.66	2	44	2.64	.25	2	1
25122	756.50	757.50	1.00	8	83	13	274	5	1	91	7	29	1.55	2	117	1.80	.04	14	1
25123	757.50	758.50	1.00	6	49	9	143	5	1	61	2	15	.99	2	72	1.16	.04	2	1
25124	758.50	759.10	.60	6	114	19	295	5	1	66	3	36	1.49	2	132	1.87	.08	8	1
25125	759.10	761.50	2.40	1	94	29	483	5	1	86	2	201	1.51	2	58	3.33	.29	2	1
25126	761.50	762.50	1.00	9	92	17	307	5	2	85	7	30	1.88	2	82	1.16	.03	15	1
25127	762.50	763.50	1.00	8	43	6	188	5	2	59	5	11	1.19	2	30	.91	.03	13	1
25128	763.50	764.50	1.00	9	44	6	136	5	1	36	2	4	.57	2	14	.52	.02	17	1
25129	764.50	765.50	1.00	8	17	5	130	5	1	43	2	2	.16	2	11	.44	.01	15	2
25130	765.50	766.50	1.00	9	12	5	100	5	1	49	7	2	.07	2	13	.38	.01	14	1
25131	766.50	767.50	1.00	7	86	11	191	5	1	36	2	12	.31	2	81	1.48	.03	3	1
25132	767.50	768.50	1.00	8	9	6	129	8	3	55	4	3	.17	2	12	.55	.01	19	1
25133	768.50	769.50	1.00	8	9	5	105	6	3	62	2	2	.06	2	12	.50	.01	17	2
25134	769.50	770.00	.50	9	37	8	131	5	2	50	2	6	.16	2	42	1.05	.01	14	1
25135	770.00	770.75	.75	3	446	40	270	5	1	63	5	68	1.01	2	574	4.49	.08	2	1
25136	770.75	771.75	1.00	93	56	7	214	5	1	24	9	21	.15	2	23	1.88	.01	18	1
25137	771.75	772.75	1.00	92	26	5	225	5	1	27	30	9	.07	2	16	.49	.01	18	1
25138	772.75	773.75	1.00	10	17	2	501	5	1	107	5	7	.28	2	11	1.99	.05	2	1
25139	773.75	774.40	.65	65	69	8	200	5	1	38	13	11	.41	2	55	1.20	.02	2	1
25140	774.40	775.50	1.10	3	9	3	191	5	1	83	2	6	.57	3	8	1.15	.07	2	1

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF
HOLE NUMBER: TCU92-36

ROCK QUALITY DETERMINATIONS
DATE: Aug.21-Sept.17, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.16	1.83	1.67	1.19	71.26%	0.41	24.55%
1.83	5.18	3.35	2.93	87.46%	0.99	29.55%
5.18	8.23	3.05	2.81	92.13%	2.60	85.25%
8.23	11.28	3.05	3.05	100.00%	2.48	81.31%
11.28	14.33	3.05	2.95	96.72%	2.47	80.98%
14.33	17.37	3.04	3.04	100.00%	2.81	92.43%
17.37	20.42	3.05	3.05	100.00%	2.46	80.66%
20.42	23.47	3.05	2.94	96.39%	2.13	69.84%
23.47	26.52	3.05	2.96	97.05%	1.59	52.13%
26.52	29.57	3.05	3.05	100.00%	1.71	56.07%
29.57	32.61	3.04	2.85	93.75%	0.00	0.00%
32.61	35.66	3.05	3.05	100.00%	0.65	21.31%
35.66	38.71	3.05	3.05	100.00%	0.72	23.61%
38.71	41.76	3.05	3.05	100.00%	0.24	7.87%
41.76	44.81	3.05	3.03	99.34%	1.45	47.54%
44.81	47.85	3.04	3.04	100.00%	2.33	76.64%
47.85	50.90	3.05	3.05	100.00%	1.87	61.31%
50.90	53.95	3.05	3.05	100.00%	2.58	84.59%
53.95	57.00	3.05	3.05	100.00%	2.95	96.72%
57.00	60.05	3.05	3.05	100.00%	2.90	95.08%
60.05	63.09	3.04	3.04	100.00%	2.98	98.03%
63.09	66.14	3.05	3.03	99.34%	2.60	85.25%
66.14	69.20	3.06	3.05	99.67%	1.96	64.05%
69.20	72.24	3.04	3.04	100.00%	2.69	88.49%
72.24	75.29	3.05	3.05	100.00%	2.68	87.87%
75.29	78.33	3.04	3.04	100.00%	2.73	89.80%
78.33	81.38	3.05	3.04	99.67%	2.82	92.46%
81.38	84.43	3.05	3.05	100.00%	2.48	81.31%
84.43	87.48	3.05	3.05	100.00%	2.71	88.85%
87.48	90.53	3.05	3.05	100.00%	2.81	92.13%
90.53	93.57	3.04	3.04	100.00%	2.80	92.11%
93.57	96.62	3.05	2.99	98.03%	1.95	63.93%
96.62	99.67	3.05	2.98	97.70%	1.91	62.62%
99.67	102.72	3.05	3.05	100.00%	2.62	85.90%
102.72	105.78	3.06	3.06	100.00%	2.87	93.79%
105.78	108.81	3.03	3.03	100.00%	2.76	91.09%
108.81	111.86	3.05	3.05	100.00%	3.05	100.00%
111.86	114.91	3.05	3.05	100.00%	3.05	100.00%
114.91	117.96	3.05	3.05	100.00%	2.93	96.07%
117.96	121.01	3.05	3.05	100.00%	3.05	100.00%
121.01	124.05	3.04	3.04	100.00%	3.01	99.01%
124.05	127.10	3.05	3.05	100.00%	3.05	100.00%
127.10	130.15	3.05	3.05	100.00%	3.05	100.00%
130.15	133.20	3.05	3.05	100.00%	3.01	98.69%
133.20	136.25	3.05	3.05	100.00%	3.05	100.00%
136.25	139.29	3.04	3.04	100.00%	3.02	99.34%
139.29	142.34	3.05	3.05	100.00%	3.05	100.00%
142.34	145.39	3.05	3.05	100.00%	2.97	97.38%
145.39	148.44	3.05	3.05	100.00%	2.79	91.48%
148.44	150.88	2.44	2.40	98.36%	2.19	89.75%
150.88	152.70	1.82	1.82	100.00%	1.36	74.73%
152.70	154.53	1.83	1.83	100.00%	1.83	100.00%
154.53	157.58	3.05	2.97	97.38%	2.65	86.89%
157.58	160.63	3.05	3.05	100.00%	1.83	60.00%
160.63	163.68	3.05	3.05	100.00%	1.87	61.31%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: TCU92-36 DATE: Aug.21-Sept.17, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
163.68	166.73	3.05	3.05	100.00%	2.18	71.48%
166.73	169.77	3.04	3.01	99.01%	1.63	53.62%
169.77	172.82	3.05	3.03	99.34%	1.25	40.98%
172.82	175.87	3.05	3.05	100.00%	1.20	39.34%
175.87	178.92	3.05	3.05	100.00%	1.66	54.43%
178.92	181.97	3.05	3.05	100.00%	2.72	89.18%
181.97	185.01	3.04	3.04	100.00%	2.38	78.29%
185.01	188.06	3.05	3.05	100.00%	0.82	26.89%
188.06	191.11	3.05	3.05	100.00%	1.28	41.97%
191.11	194.16	3.05	3.05	100.00%	1.36	44.59%
194.16	197.21	3.05	3.05	100.00%	2.02	66.23%
197.21	200.25	3.04	3.04	100.00%	1.80	59.21%
200.25	203.30	3.05	3.05	100.00%	2.53	82.95%
203.30	206.35	3.05	3.05	100.00%	2.40	78.69%
206.35	209.40	3.05	3.05	100.00%	2.65	86.89%
209.40	212.45	3.05	3.05	100.00%	2.43	79.67%
212.45	215.49	3.04	3.04	100.00%	2.78	91.45%
215.49	218.54	3.05	3.05	100.00%	3.05	100.00%
218.54	221.59	3.05	3.05	100.00%	3.05	100.00%
221.59	224.64	3.05	3.02	99.02%	2.30	75.41%
224.64	227.69	3.05	2.98	97.70%	1.35	44.26%
227.69	230.73	3.04	3.04	100.00%	2.82	92.76%
230.73	233.78	3.05	3.05	100.00%	2.08	68.20%
233.78	236.83	3.05	3.05	100.00%	2.95	96.72%
236.83	239.88	3.05	3.05	100.00%	2.88	94.43%
239.88	242.93	3.05	3.05	100.00%	2.89	94.75%
242.93	245.36	2.43	2.43	100.00%	2.21	90.95%
245.36	248.41	3.05	3.05	100.00%	2.43	79.67%
248.41	249.02	0.61	0.61	100.00%	0.55	90.16%
249.02	252.07	3.05	3.05	100.00%	2.67	87.54%
252.07	255.12	3.05	3.05	100.00%	3.05	100.00%
255.12	258.17	3.05	3.05	100.00%	2.48	81.31%
258.17	261.21	3.04	3.04	100.00%	2.96	97.37%
261.21	264.26	3.05	3.05	100.00%	3.05	100.00%
264.26	267.31	3.05	3.05	100.00%	2.82	92.46%
267.31	270.36	3.05	3.05	100.00%	2.79	91.48%
270.36	273.41	3.05	3.05	100.00%	2.88	94.43%
273.41	276.45	3.04	3.04	100.00%	2.84	93.42%
276.45	279.50	3.05	3.05	100.00%	3.05	100.00%
279.50	282.55	3.05	3.05	100.00%	3.05	100.00%
282.55	285.60	3.05	3.05	100.00%	2.99	98.03%
285.60	288.65	3.05	3.05	100.00%	2.95	96.72%
288.65	291.69	3.04	2.95	97.04%	2.13	70.07%
291.69	294.74	3.05	2.99	98.03%	2.72	89.18%
294.74	297.79	3.05	3.05	100.00%	2.32	76.07%
297.79	300.84	3.05	3.02	99.02%	1.78	58.36%
300.84	303.89	3.05	3.02	99.02%	2.74	89.84%
303.89	306.93	3.04	3.04	100.00%	2.63	86.51%
306.93	309.98	3.05	3.05	100.00%	2.23	73.11%
309.98	313.03	3.05	3.03	99.34%	2.38	78.03%
313.03	315.01	1.98	1.98	100.00%	0.73	36.87%
315.01	317.14	2.13	2.08	97.65%	1.28	60.09%
317.14	319.13	1.99	1.99	100.00%	1.99	100.00%
319.13	322.17	3.04	3.04	100.00%	3.04	100.00%
322.17	325.22	3.05	3.05	100.00%	2.99	98.03%
325.22	328.27	3.05	3.05	100.00%	2.71	88.85%
328.27	331.32	3.05	3.05	100.00%	2.95	96.72%
331.32	334.37	3.05	3.05	100.00%	2.91	95.41%
334.37	337.41	3.04	3.04	100.00%	2.84	93.42%
337.41	340.46	3.05	3.05	100.00%	3.00	98.36%
340.46	343.51	3.05	3.05	100.00%	3.01	98.69%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: TCU92-36 DATE: Aug.21-Sept.17, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
343.51	346.56	3.05	3.05	100.00%	2.69	88.20%
346.56	349.61	3.05	3.02	99.02%	1.44	47.21%
349.61	352.55	2.94	2.94	100.00%	2.72	92.52%
352.55	355.70	3.15	3.05	96.83%	2.73	86.67%
355.70	358.75	3.05	3.05	100.00%	2.73	89.51%
358.75	361.80	3.05	3.05	100.00%	2.33	76.39%
361.80	364.85	3.05	3.05	100.00%	2.76	90.49%
364.85	367.89	3.04	3.04	100.00%	2.57	84.54%
367.89	370.94	3.05	3.05	100.00%	2.62	85.90%
370.94	373.99	3.05	3.05	100.00%	3.05	100.00%
373.99	377.04	3.05	3.05	100.00%	2.67	87.54%
377.04	380.09	3.05	3.05	100.00%	2.42	79.34%
380.09	383.13	3.04	2.98	98.03%	2.44	80.26%
383.13	386.18	3.05	2.97	97.38%	1.42	46.56%
386.18	389.23	3.05	3.01	98.69%	2.35	77.05%
389.23	391.36	2.13	2.10	98.59%	1.59	74.65%
391.36	392.28	0.92	0.92	100.00%	0.85	92.39%
392.28	395.33	3.05	3.05	100.00%	2.86	93.77%
395.33	398.37	3.04	3.04	100.00%	2.96	97.37%
398.37	401.42	3.05	3.05	100.00%	1.93	63.28%
401.42	404.47	3.05	3.05	100.00%	2.88	94.43%
404.47	407.52	3.05	3.05	100.00%	3.05	100.00%
407.52	410.57	3.05	3.05	100.00%	2.83	92.79%
410.57	413.61	3.04	3.04	100.00%	2.91	95.72%
413.61	416.66	3.05	3.05	100.00%	3.02	99.02%
416.66	419.71	3.05	3.05	100.00%	2.78	91.15%
419.71	422.76	3.05	3.05	100.00%	2.89	94.75%
422.76	425.81	3.05	3.05	100.00%	2.88	94.43%
425.81	428.85	3.04	3.04	100.00%	3.04	100.00%
428.85	431.90	3.05	3.05	100.00%	2.98	97.70%
431.90	434.95	3.05	3.05	100.00%	3.05	100.00%
434.95	438.00	3.05	3.05	100.00%	3.05	100.00%
438.00	440.44	2.44	2.44	100.00%	2.18	89.34%
440.44	443.48	3.04	3.04	100.00%	2.60	85.53%
443.48	444.09	0.61	0.61	100.00%	0.44	72.13%
444.09	447.14	3.05	3.05	100.00%	2.77	90.82%
447.14	450.19	3.05	3.05	100.00%	2.48	81.31%
450.19	453.24	3.05	3.05	100.00%	2.53	82.95%
453.24	456.29	3.05	3.05	100.00%	2.47	80.98%
456.29	457.81	1.52	1.04	68.42%	0.67	44.08%
457.81	460.86	3.05	2.98	97.70%	2.13	69.84%
460.86	463.91	3.05	2.91	95.41%	0.61	20.00%
463.91	464.21	0.30	0.30	100.00%	0.00	0.00%
464.21	465.43	1.22	1.20	98.36%	0.11	9.02%
465.43	468.48	3.05	3.02	99.02%	1.05	34.43%
468.48	471.53	3.05	2.99	98.03%	0.79	25.90%
471.53	474.57	3.04	3.04	100.00%	2.93	96.38%
474.57	477.62	3.05	3.05	100.00%	3.05	100.00%
477.62	480.67	3.05	3.05	100.00%	2.97	97.38%
480.67	483.72	3.05	3.05	100.00%	2.73	89.51%
483.72	486.77	3.05	3.05	100.00%	3.05	100.00%
486.77	489.81	3.04	3.04	100.00%	2.38	78.29%
489.81	492.86	3.05	3.05	100.00%	2.18	71.48%
492.86	495.91	3.05	3.05	100.00%	2.62	85.90%
495.91	498.96	3.05	3.02	99.02%	1.04	34.10%
498.96	502.01	3.05	3.03	99.34%	1.89	61.97%
502.01	505.05	3.04	3.04	100.00%	2.67	87.83%
505.05	508.10	3.05	3.05	100.00%	2.91	95.41%
508.10	511.15	3.05	3.05	100.00%	2.94	96.39%
511.15	514.20	3.05	3.05	100.00%	2.52	82.62%
514.20	517.25	3.05	3.05	100.00%	3.05	100.00%
517.25	520.29	3.04	3.04	100.00%	2.28	75.00%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: TCU92-36 DATE: Aug.21-Sept.17, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
520.29	523.34	3.05	3.05	100.00%	2.86	93.77%
523.34	526.39	3.05	3.05	100.00%	2.83	92.79%
526.39	529.44	3.05	3.05	100.00%	2.99	98.03%
529.44	531.57	2.13	2.13	100.00%	1.91	89.67%
531.57	532.49	0.92	0.92	100.00%	0.74	80.43%
532.49	535.53	3.04	3.04	100.00%	2.77	91.12%
535.53	538.58	3.05	3.05	100.00%	2.97	97.38%
538.58	541.63	3.05	3.05	100.00%	2.72	89.18%
541.63	544.68	3.05	3.05	100.00%	2.71	88.85%
544.68	547.73	3.05	3.05	100.00%	3.05	100.00%
547.73	550.77	3.04	3.04	100.00%	2.92	96.05%
550.77	553.82	3.05	2.92	95.74%	2.14	70.16%
553.82	556.87	3.05	3.01	98.69%	1.61	52.79%
556.87	559.92	3.05	3.05	100.00%	2.88	94.43%
559.92	562.96	3.04	3.04	100.00%	2.60	85.53%
562.96	565.10	2.14	2.19	102.34%	1.46	68.22%
565.10	566.01	0.91	0.68	74.73%	0.19	20.88%
566.01	569.06	3.05	3.05	100.00%	2.43	79.67%
569.06	572.11	3.05	3.02	99.02%	2.00	65.57%
572.11	575.16	3.05	3.05	100.00%	3.05	100.00%
575.16	578.21	3.05	3.05	100.00%	2.71	88.85%
578.21	581.25	3.04	3.04	100.00%	2.59	85.20%
581.25	584.30	3.05	3.05	100.00%	2.96	97.05%
584.30	587.35	3.05	3.05	100.00%	2.81	92.13%
587.35	590.40	3.05	3.05	100.00%	2.94	96.39%
590.40	593.45	3.05	3.05	100.00%	2.67	87.54%
593.45	596.49	3.04	3.04	100.00%	3.04	100.00%
596.49	599.54	3.05	3.05	100.00%	3.05	100.00%
599.54	602.59	3.05	3.05	100.00%	2.96	97.05%
602.59	605.64	3.05	3.05	100.00%	2.88	94.43%
605.64	608.68	3.04	3.04	100.00%	3.04	100.00%
608.68	611.73	3.05	3.05	100.00%	2.66	87.21%
611.73	614.78	3.05	3.05	100.00%	2.97	97.38%
614.78	616.31	1.53	1.53	100.00%	1.43	93.46%
616.31	617.83	1.52	1.52	100.00%	1.40	92.11%
617.83	620.88	3.05	3.05	100.00%	3.01	98.69%
620.88	623.93	3.05	3.05	100.00%	2.99	98.03%
623.93	626.97	3.04	3.04	100.00%	2.88	94.74%
626.97	630.02	3.05	3.05	100.00%	2.67	87.54%
630.02	633.07	3.05	3.05	100.00%	1.60	52.46%
633.07	636.12	3.05	3.05	100.00%	1.46	47.87%
636.12	639.17	3.05	3.05	100.00%	2.37	77.70%
639.17	642.21	3.04	3.04	100.00%	2.09	68.75%
642.21	645.26	3.05	3.05	100.00%	2.03	66.56%
645.26	648.31	3.05	3.05	100.00%	1.43	46.89%
648.31	650.44	2.13	2.13	100.00%	1.01	47.42%
650.44	652.88	2.44	2.44	100.00%	0.15	6.15%
652.88	655.93	3.05	3.05	100.00%	0.62	20.33%
655.93	657.30	1.37	1.37	100.00%	0.00	0.00%
657.30	660.35	3.05	3.05	100.00%	1.55	50.82%
660.35	663.35	3.00	3.04	100.00%	1.55	51.67%
663.35	665.98	2.63	2.43	92.40%	1.59	60.46%
665.98	666.60	0.62	0.62	100.00%	0.23	37.10%
666.60	669.65	3.05	3.05	100.00%	1.82	59.67%
669.65	672.69	3.04	3.04	100.00%	2.61	85.86%
672.69	674.83	2.14	2.14	100.00%	0.65	30.37%
674.83	675.74	0.91	0.88	96.70%	0.19	20.88%
675.74	676.66	0.92	0.92	100.00%	0.46	50.00%
676.66	679.55	2.89	2.89	100.00%	2.28	78.89%
679.55	681.99	2.44	2.44	100.00%	2.31	94.67%
681.99	684.89	2.90	2.90	100.00%	2.05	70.69%
684.89	687.93	3.04	3.04	100.00%	3.04	100.00%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF
HOLE NUMBER: TCU92-36

ROCK QUALITY DETERMINATIONS
DATE: Aug.21-Sept.17, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
687.93	690.98	3.05	3.05	100.00%	1.69	55.41%
690.98	694.03	3.05	3.05	100.00%	2.32	76.07%
694.03	697.08	3.05	3.05	100.00%	2.18	71.48%
697.08	700.13	3.05	3.05	100.00%	2.33	76.39%
700.13	703.17	3.04	3.04	100.00%	2.60	85.53%
703.17	706.22	3.05	3.05	100.00%	2.23	73.11%
706.22	709.27	3.05	3.06	100.33%	2.46	80.66%
709.27	712.34	3.07	2.94	95.77%	1.75	57.00%
712.34	715.37	3.03	3.03	100.00%	2.81	92.74%
715.37	718.41	3.04	3.04	100.00%	1.59	52.30%
718.41	720.55	2.14	2.14	100.00%	0.68	31.78%
720.55	721.77	1.22	0.73	59.84%	0.00	0.00%
721.77	723.90	2.13	2.40	112.68%	0.25	11.74%
723.90	725.27	1.37	1.39	101.46%	0.11	8.03%
725.27	727.56	2.29	2.50	109.17%	0.94	41.05%
727.56	730.61	3.05	3.09	101.31%	1.98	64.92%
730.61	731.22	0.61	0.57	93.44%	0.31	50.82%
731.22	731.52	0.30	0.25	83.33%	0.12	40.00%
731.52	733.35	1.83	1.83	100.00%	1.00	54.64%
733.35	736.40	3.05	3.05	100.00%	2.20	72.13%
736.40	739.44	3.04	3.04	100.00%	2.69	88.49%
739.44	742.49	3.05	3.05	100.00%	2.03	66.56%
742.49	743.71	1.22	1.05	86.07%	0.36	29.51%
743.71	746.91	3.20	3.17	99.06%	2.80	87.50%
746.91	749.96	3.05	2.80	91.80%	1.17	38.36%
749.96	751.94	1.98	2.30	116.16%	1.53	77.27%
751.94	754.99	3.05	3.05	100.00%	2.54	83.28%
754.99	758.04	3.05	3.05	100.00%	2.66	87.21%
758.04	761.09	3.05	3.00	98.36%	2.70	88.52%
761.09	764.13	3.04	3.11	102.30%	3.03	99.67%
764.13	767.18	3.05	3.08	100.98%	2.83	92.79%
767.18	770.23	3.05	3.01	98.69%	2.82	92.46%
770.23	773.28	3.05	3.05	100.00%	2.52	82.62%
773.28	776.33	3.05	3.05	100.00%	2.78	91.15%
776.33	779.37	3.04	3.04	100.00%	2.12	69.74%
779.37	781.81	2.44	2.20	90.16%	0.89	36.48%
781.81	782.73	0.92	0.85	92.39%	0.00	0.00%
782.73	784.56	1.83	1.83	100.00%	0.32	17.49%
784.56	787.60	3.04	3.04	100.00%	1.57	51.64%
787.60	790.65	3.05	3.05	100.00%	1.81	59.34%
790.65	793.70	3.05	3.05	100.00%	1.75	57.38%
793.70	796.90	3.20	3.15	98.44%	2.40	75.00%
796.90	797.97	1.07	1.12	104.67%	0.88	82.24%
797.97	800.71	2.74	2.66	97.08%	1.91	69.71%
800.71	803.71	3.00	2.74	91.33%	1.83	61.00%
803.71	806.50	2.79	3.00	107.53%	2.05	73.48%
806.50	809.55	3.05	3.05	100.00%	2.32	76.07%
809.55	812.75	3.20	3.20	100.00%	2.33	72.81%
812.75	813.82	1.07	1.07	100.00%	0.17	15.89%

813.82 END OF HOLE

* Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU92-37
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.30
(metres) E: 10663.27

Azimuth: 163.0
Dip: -54.2
Length (m): 493.47
Elevation: 112.55
(metres)
Purpose: To test H horizon in vicinity of hole TCU91-32

Core Size: BQ
Drill Name: CONNORS U/G
Contractor: F.BOISVENU DIAMOND DRILLING LTD.
Started: AUGUST 26, 1992
Completed: SEPT. 2, 1992
Recovery:

Date Logged: AUG. 28 to SEPT. 2, 1992
Logged By: D.J. HARRISON
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:24am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip
0.0	163.0	-54.2
3.0	163.1	-54.0
9.0	163.2	-54.0
12.0	163.3	-54.0
15.0	163.4	-54.1
18.0	163.5	-54.1
21.1	163.5	-54.2
24.1	163.6	-54.2
27.1	163.6	-54.1
30.1	163.7	-54.0
33.1	163.9	-53.8
36.1	163.9	-53.8
39.1	163.9	-53.8
42.1	164.0	-53.8
45.1	164.1	-53.8
48.1	164.1	-53.8
51.1	164.1	-53.7
54.1	164.3	-53.6
57.2	164.3	-53.5
60.2	164.4	-53.4
63.2	164.5	-53.3
66.2	164.7	-53.1
69.2	165.0	-52.9
72.2	165.1	-52.8
75.2	165.4	-52.7
78.2	165.4	-52.7
81.2	165.6	-52.6
84.2	165.7	-52.6
87.2	165.8	-52.6
93.3	165.9	-52.6
96.3	166.0	-52.6
99.3	166.1	-52.6
102.3	166.1	-52.6
105.3	166.1	-52.6
108.3	166.1	-52.5
111.3	166.2	-52.4
114.3	166.3	-52.4
117.3	166.4	-52.5
120.3	166.5	-52.2
123.3	166.6	-52.2
126.3	166.7	-52.2
129.3	166.8	-52.1
132.4	166.8	-52.1
135.4	166.9	-52.0
138.4	167.1	-51.9
141.4	167.1	-51.9
144.4	167.1	-51.9
147.4	167.2	-51.9
150.4	167.3	-51.9
153.4	167.4	-51.9
156.4	167.4	-51.9
159.4	167.5	-51.9
162.4	167.5	-52.0
165.4	167.5	-52.0
168.4	167.5	-52.1
171.5	167.6	-52.0
177.5	167.9	-51.9
180.5	167.9	-51.9
183.5	168.2	-51.7
186.5	168.2	-51.7
189.5	168.4	-51.7
192.5	168.5	-51.7
195.5	168.5	-51.6
198.5	168.6	-51.6
201.5	168.6	-51.7
204.5	168.6	-51.8
207.6	168.7	-51.8
210.6	168.7	-51.8
213.6	168.7	-51.8
216.6	168.7	-51.8
219.6	168.8	-51.8
222.6	168.8	-51.9
225.6	168.9	-51.8
228.6	168.9	-51.8
231.6	168.9	-51.7
234.6	168.9	-51.8
237.6	169.0	-51.7
240.6	169.1	-51.7
243.6	169.1	-51.8
246.7	169.3	-51.7
249.7	169.4	-51.6
252.7	169.4	-51.6
255.7	169.4	-51.6
261.7	169.5	-51.5
264.7	169.6	-51.6
267.7	169.6	-51.5
270.7	169.6	-51.5
273.7	169.6	-51.2
276.7	169.7	-51.2
279.7	169.8	-51.0
282.8	169.8	-51.1
285.8	169.9	-50.8
288.8	170.0	-50.6
291.8	170.0	-50.5
294.8	170.0	-50.4
297.8	170.0	-50.4
300.8	170.0	-50.4
303.8	170.0	-50.4
306.8	170.0	-50.3
309.8	170.1	-50.2
312.8	170.2	-50.1
315.8	170.2	-50.1
318.9	170.2	-50.2
321.9	170.3	-50.2
324.9	170.4	-50.0
327.9	170.4	-49.9
330.9	170.4	-49.8
333.9	170.4	-49.8
336.9	170.4	-49.7
339.9	170.4	-49.8
345.9	170.5	-49.8
348.9	170.7	-49.7
351.9	170.8	-49.6
354.9	170.8	-49.5
358.0	170.8	-49.6
361.0	170.9	-49.6
364.0	171.0	-49.5
367.0	171.1	-49.5
370.0	171.1	-49.5
373.0	171.1	-49.5
376.0	171.2	-49.4
379.0	171.3	-49.3
382.0	171.4	-49.3
385.0	171.4	-49.3
388.0	171.6	-49.1
391.0	171.7	-49.1
394.0	171.8	-49.0
397.1	171.8	-49.0
400.1	171.9	-48.9
403.1	172.0	-48.8
406.1	172.1	-48.7
409.1	172.2	-48.6
412.1	172.2	-48.6
415.1	172.4	-48.4
418.1	172.5	-48.3
421.1	172.6	-48.2
424.1	172.7	-48.1
430.1	172.8	-48.0
433.1	172.9	-47.9
436.2	172.9	-47.9
439.2	173.0	-47.9
442.2	173.1	-47.8
445.2	173.2	-47.8
448.2	173.3	-47.7
451.2	173.3	-47.6
454.2	173.3	-47.6
457.2	173.3	-47.6
460.2	173.3	-47.6
463.2	173.3	-47.6
466.2	173.3	-47.6
469.3	173.4	-47.5
472.3	173.5	-47.5
475.3	173.5	-47.4
478.3	173.6	-47.3
481.3	173.6	-47.2
484.3	173.6	-47.2
487.3	173.6	-47.2
490.3	173.6	-47.1
493.3	173.7	-47.0

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	16.90	DACITE FLOW: Medium grey to pinkish maroon feldspar porphyritic, hematitic dacite flow; feldspar phenocrysts are whitish, sub to anhedral up to ~2mm, between 3-5% and occasionally faint or indistinct due to alteration (weak to moderate silica flooding); interval is cut by hairline epidote veinlets, and minor quartz veins and veinlets (<2cm wide) with minor albitic(?) flooding into wallrock; Lower 3 metres is less hematitic, and dominantly greyish green colour; Lower contact is sharp and sheared at 50° to core axis.										
16.90	27.10	DACITE LAPILLI TUFF: Pale greyish to green-grey fragmental with lapilli and breccia-sized fragments; rare fragments are feldspar porphyritic; most fragments are fine-grained, greyish and strongly silicified with vague textures; probable mixed fragmental flow-top breccia of underlying dacite flow; local fracture zones over ~10-20 cm with core broken into chips.										
27.10	31.45	BASALTIC DYKE: Dark green to black, fine-grained dyke, propylitic altered; moderate to strongly magnetic; sharp upper and lower contacts at 70° and 30° to core axis, respectively.										
31.45	97.70	DACITE FLOW: Pinkish maroon feldspar porphyritic, hematitic dacite flow, same as above from 0 to 16.90 metres; from top of interval to 60.66m is variably grey to pinkish grey, cut by numerous chlorite stringers related to cross-cutting dykes; silica(?)-albite flooding around chlorite veins and veinlets throughout interval; lower 9 metres is greyish green, weakly chloritic and flow brecciated; lower contact is faulted and brecciated. 35.00 38.35 BASALTIC DYKE: Fine-grained, dark green to black dyke, moderate to strongly magnetic with sharp contacts; upper contact at 45°, lower at 50° to core axis. 43.30 43.70 BASALTIC DYKE: Same as above; upper contact at 50°, lower contact at 60° to core axis. 47.85 49.55 BASALTIC DYKE: Same as above; weak to strongly magnetic with ~2% massive magnetite at contacts and in fine irregular masses; upper contact at 50° to core axis; lower contact at 45° to core axis. 50.30 51.90 BASALTIC DYKE: Same as above; trace magnetite; sharp upper and lower contacts at 45° to core axis. 53.05 55.40 BASALTIC DYKE: Same as above, with internal quartz flooding along minor veinlets and weak brecciation; weakly magnetic; magnetite at upper contact; sharp upper contact at 30° to core axis; sharp lower contact at 50° to core axis. 58.85 60.52 BASALTIC DYKE: Same as above; weak to moderately magnetic; local traces of magnetite and pyrite; sharp contacts, upper										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Dark grey with local white feldspar phenocrysts (~0.5-2.0mm); variably mottled due to alteration; cut by dark green chlorite veinlets and stringers with white and grey albite and silica flooding.	25001	297.43	298.93	1.50	.00	.01	.00	.01	.01	
			25002	298.93	300.43	1.50	.00	.01	.00	.01	.01	
300.43	306.65	ZINC FACIES: SERICITIC , WITH DISSEMINATED SPHALERITE										
		Greyish coloured, strong to intense sericite altered exhalitic dacite ash tuff with ~10-20% disseminated pyrite throughout; ~5% yellow-green intense sericite altered lapilli fragments; ~5-10% white chert fragments and dissrupted chert beds up to 6 cm wide; up to ~10% light brownish yellow sphalerite as granular disseminations and diffuse masses; ~1-2% chalcopyrite as fine disseminations or coarse masses and rare cross-cutting veinlets; trace to 2% disseminated galena; entire interval is foliated at 30-50° to core axis, with local micro-folds; upper contact is sharp but indistinct.	ZBR	300.43	305.43	5.00						
			25003	300.43	301.43	1.00	.12	1.82	.81	1.11	5.83	
			25004	301.43	302.43	1.00	.12	3.94	1.16	1.79	6.55	
			25005	302.43	303.43	1.00	.06	2.07	.76	1.07	5.42	
			25006	303.43	304.43	1.00	.05	2.33	.78	.76	4.70	
			25007	304.43	305.43	1.00	.03	1.44	.72	.79	4.01	
			25008	305.43	306.65	1.22	.02	.37	.23	.61	1.99	
			Z124	305.43	313.77	8.34						
306.65	310.55	DACITE FLOW:										
		Light grey feldspar phyric dacitic flow with ~10% white anhedral to euhedral feldspar phenocrysts up to 2mm (phenocrysts indistinct in upper 2 metres due to weak to moderate silicification); interval cut by rare quartz veinlets and veins up to 1.5cm wide.	25009	306.65	308.65	2.00	.00	.03	.01	.01	.05	
			25010	308.65	310.55	1.90	.00	.02	.00	.01	.02	
310.55	313.77	EXHALITIC TUFF: SERICITIC										
		Light grey, fine lapilli-size fragmental to ash tuff, intense sericite altered with ~5% chert fragments; fine cherty tuff over lower 1.5m with whisps of sericite foliated at ~50° to core axis; interval is probable debris flow; ~1% disseminated pyrite grains.	25011	310.55	312.05	1.50	.01	.37	.11	.16	1.03	
			25012	312.05	313.77	1.72	.01	.02	.01	.02	.06	
313.77	320.75	ZINC FACIES: , WITH BANDED SPHALERITE										
		Massive, fine-grained to coarse pyrite (60-65%) with 20-25% disseminated and intermixed and banded sphalerite; ~5-10% fine-grained chalcopyrite disseminated or in concentrated masses and veinlets; trace 2% white chert fragments. Upper contact is sharp at 60° to core axis; lower contact sharp at 50° to core axis; sulphide 'bedding' varies from 50° to 10° to core axis.	ZBS	313.77	321.90	8.13						
			25013	313.77	314.77	1.00	.17	5.19	1.85	2.59	7.14	
			25014	314.77	315.77	1.00	.11	2.11	2.14	.57	5.31	
			25015	315.77	316.77	1.00	.04	1.24	1.10	.86	19.76	
			25016	316.77	317.77	1.00	.12	1.47	1.52	.09	1.94	
			25017	317.77	318.77	1.00	.11	1.81	2.03	.38	8.86	
			25018	318.77	319.77	1.00	.15	2.50	5.54	.10	17.49	
			25019	319.77	320.75	.98	.29	2.37	1.38	.42	25.83	
320.75	327.45	CHERT: SERICITIC , WITH DISSEMINATED SPHALERITE										
		Light grey to whitish; up to 80% chert with disseminated to whispy, and rarely fragmental pyrite (Σ pyrite ~5%); ~5-10% buff-beige sericitized zones of volcanic ash or fragments; 2-5% disseminated and fine fracture controlled sphalerite; trace to 2% for both chalcopyrite and galena, as very fine veinlets; ~2% very fine quartz veinlets throughout (<2mm wide).	25020	320.75	321.15	.40	.06	.28	.41	.07	1.27	
			25021	321.15	321.90	.75	.21	4.23	.32	8.36	11.80	
			25022	321.90	322.90	1.00	.03	1.19	.23	1.20	2.27	
			Z126	321.90	327.45	5.55						
		321.15 321.90, With DISSEMINATED SPHALERITE Dark grey cherty zone with 15-20% light brown-yellow net-texture and veinleted sphalerite; ~5-10% disseminated and veinleted galena; 2-3% disseminated and veinleted chalcopyrite; one speck of	25023	322.90	323.90	1.00	.02	.26	.02	.21	.79	
			25024	323.90	324.90	1.00	.03	.27	.01	.07	.14	
			25025	324.90	325.90	1.00	.01	.11	.01	.05	.08	
			25026	325.90	326.90	1.00	.01	.09	.01	.04	.25	
			25027	326.90	327.45	.55	.00	.06	.00	.04	.16	

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

at 25°, lower at 90° to core axis.

97.70 98.10 FAULT
Brecciated fault contact with strongly chloritic altered angular fragments cemented with white quartz; open space filling with fine drussy quartz.

98.10 248.72 BASALT UNDIFFERENTIATED:
Dark green to black, fine-grained to medium-grained basaltic interval; variably fine feldspar phyric with ~2-20% fine feldspar laths, subhedral to euhedral up to 1-2mm long; pervasive moderate propylitic alteration; homogeneous throughout with very rare quartz veins and veinlets up to 5cm wide; weak to strongly magnetic.

125.75 126.10 FAULT White quartz healed brecciated fault zone; quartz matrix supports intense chloritic altered, grey-green wallrock fragments; contacts are irregular.

167.00 167.70 Fracture zone (with broken core chips) at low angle (0-10°) to core axis; thin (<1mm) coatings of white, soft, prehnite on fractures.

217.60 218.15 FAULT Pale grey green, strongly clay-chlorite altered and gougy throughout, with minor prehnite-filled fractures; contacts are sharp and marked by 0.5-1.0cm wide quartz veinlets; upper contact at 30° to core axis; lower contact at 40° to core axis.

219.15 220.10 FAULT Fracture zone with broken core chips; local intense clay-chlorite alteration; local gouge; partially quartz-healed, minor prehnite coated fractures; fractures and veinlets at 0-25° to core axis.

248.72 254.75 DACITE BRECCIA:
Dark to medium grey, mottled; large dark grey feldspar phyric fragments up to ~30cm; matrix appears to be chloritic ash tuff; interval cut by white quartz veins up to 8cm wide; numerous veinlets and stringers of chlorite; white to pale green albitic flooding along selvages. Upper and lower contacts are sharp at 70° and 60° to core axis, respectively.

251.80 253.67 SLOKO RYHOLITE DYKE: Variably banded light to dark grey, 'dirty' rhyolite to dacite dyke; weakly (1-2%) whitish feldspar phyric; flow-banded throughout; sharp, irregular contacts at high angle to core axis (>60°).

254.75 258.56 BASALT UNDIFFERENTIATED:
Dark green, fine-grained, similar to thick basaltic interval above; very weakly fractured; weak to moderately magnetic; moderate pervasive propylitic alteration; non-porphyritic; lower contact sharp at 70° to core axis.

258.56 300.43 DACITE FLOW BRECCIA:

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		VISIBLE GOLD ~1mm dia., and possibly two more much finer nearby, at 321.62 metres.										
327.45	329.85	ZINC FACIES: SILICIFIED , WITH DISSEMINATED SPHALERITE Well-bedded sulphides within cherty matrix with up to 40% massive, banded pyrite and interlayered white chert beds up to 11cm wide; ~5% brownish-red sphalerite along bedding plane fractures and as granular disseminations; trace to 2% disseminated galena. Upper contact is sharp at 70° to core axis, however upper 95cm is not bedded - possible biotitized breccia fragments intermixed with chert and up to 30% sphalerite; rest of interval has consistent bedding, including lower contact at 45-55° to core axis.	ZBT	327.45	331.35	3.90						
			25028	327.45	328.40	.95	.11	3.85	.20	4.75	11.79	
			25029	328.40	329.40	1.00	.03	.63	.04	.16	.34	
			25030	329.40	329.85	.45	.02	.53	.06	.06	1.11	
329.85	346.70	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Medium grey coloured cherty exhalite with variable bedded to fragmental textures with average ~10% pyrite as very fine-grained 'whisps' to coarse granular vein fillings with silica; 2-3% brownish-yellow sphalerite as granular disseminations or as veinlets; trace to 1% chalcopyrite; from 341.2 - 341.5 m bedding changes downwards from 40° to 0° and remains parallel to core axis to 344.1 m, then changes to fragmental. 335.20 335.70 Foliation or bedding varies from 30° to core axis at top to 10° to core axis at bottom. 335.70 336.80 Bedding varies from 10° to 0° to core axis from gentle waves to parallel, straight beds. 336.80 337.00 Foliation or bedding changes from 0° to 30° to core axis. 341.20 341.50 Bedding changes downwards from 40° to 0° to core axis. 341.50 344.10 Bedding remains at 0° to core axis. 344.10 346.70 Fragmental with no bedding, to local bedding at 30° to core axis.	25031	329.85	331.35	1.50	.01	.77	.13	.05	.75	
			25032	331.35	332.85	1.50	.01	.20	.02	.04	1.16	
			25033	332.85	334.35	1.50	.01	.10	.01	.03	.36	
			25034	334.35	335.85	1.50	.01	.11	.03	.02	.96	
			25035	335.85	337.35	1.50	.00	.20	.09	.04	1.37	
			25036	337.35	338.85	1.50	.01	.17	.08	.03	.98	
			25037	338.85	340.35	1.50	.01	.10	.01	.01	.32	
			25038	340.35	341.85	1.50	.00	.17	.05	.01	.38	
			25039	341.85	343.35	1.50	.01	.08	.01	.01	.03	
			25040	343.35	344.85	1.50	.00	.07	.01	.01	.02	
			25041	344.85	346.70	1.85	.00	.06	.09	.01	.32	
346.70	357.98	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Medium to dark greenish grey dacite lapilli tuff with fragmental texture distinct despite strong sericitization. Rare grey chert beds are contorted to broken; ~2% whitish chert fragments; 5-10% fine disseminated pyrite throughout, varying from very fine-grained to coarse, granular (~1-2 mm), rarely euhedral cubes; trace disseminated chalcopyrite.	25042	346.70	348.70	2.00	.00	.09	.02	.01	.01	
			25043	348.70	350.70	2.00	.00	.16	.00	.01	.02	
			25044	350.70	352.70	2.00	.00	.02	.01	.01	.03	
			25045	352.70	354.70	2.00	.01	.12	.28	.01	.04	
			25046	354.70	356.70	2.00	.00	.12	.38	.01	.05	
			25047	356.70	357.98	1.28	.01	.10	.20	.01	.01	
357.98	371.00	EXHALITIC TUFF: SILICIFIED , WITH DISSEMINATED PYRITE Light greyish to white, dominantly chert fragments rounded to irregular shaped ('swirled' or 'marbled' texture), probable debris flow; intermixed with 'dirty' tuffaceous chert (~10-20%), ~5-10% disseminated pyrite throughout, dominantly in 'dirty' tuffaceous matrix; trace disseminated brown sphalerite; trace to 1% chalcopyrite along late veinlets (remobilized into fractures). Some pyrite in siliceous cross-cutting veins and veinlets up to ~ 2 cm wide, as weak stringer zone (?).	25048	357.98	359.50	1.52	.01	.03	.01	.01	.01	
			25049	359.50	361.00	1.50	.00	.07	.06	.01	.02	
			25050	361.00	362.50	1.50	.00	.09	.03	.01	.03	
			25051	362.50	364.00	1.50	.01	.07	.01	.01	.03	
			25052	364.00	365.50	1.50	.01	.13	.03	.01	.05	
			25053	365.50	367.00	1.50	.00	.01	.00	.01	.02	
			25054	367.00	368.50	1.50	.00	.03	.01	.01	.01	
			25055	368.50	370.00	1.50	.00	.03	.09	.01	.06	

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
			25056	370.00	371.00	1.00	.00	.03	.07	.01	.16	
371.00	397.70	EXHALITIC TUFF: SILICIFIED , WITH DISSEMINATED PYRITE Medium grey colour, locally dark grey dacite lapilli tuff to dacite breccia tuff; upper half of interval is moderately sericitic altered, changing downwards to dominantly siliceous over lower half; ~ 2% white chert fragments, lenticular to rounded; strong chlorite alteration in dark patches; occasional large pumaceous breccia fragments are increasingly abundant downwards; entire interval is weakly cut by late white barren quartz veins up to 3 cm wide; rare grey pyritic stringer veins and veinlets cut interval at low angle to core axis. 2-5% red-brown sphalerite over upper 1 m, with ~2-3% chalcopyrite; both occur within a 2 cm vein at the upper contact (contact at 35° to C.A.) with ~10% pyrite, as well as in diffuse, disseminated masses; pyrite varies from 2-10% throughout, disseminated, or massive in veins with grey cherty quartz. Rare brownish sphalerite grains (trace) throughout. 372.20 373.10 Apparent bedding and fracturing at 0 - 10° to core axis. 373.90 374.35 BASALTIC DYKE: Dark green, fine-grained dyke with quartz phenocrysts(?) along upper contact; upper contact is sheared and gougy, both upper and lower contacts are sharp at 50° to core axis; non-magnetic. 394.40 394.90 BASALTIC DYKE: Dark green to black fine-grained dyke with sharp, chilled contact margins; weak to moderately magnetic; upper and lower contacts at 50° to core axis.	25057	371.00	372.00	1.00	.01	.19	.71	.02	2.17	
			25058	372.00	373.00	1.00	.01	.06	.26	.01	.17	
			25059	373.00	373.90	.90	.00	.02	.04	.01	.07	
			25060	373.90	374.35	.45	.00	.01	.01	.01	.03	
			25061	374.35	376.35	2.00	.00	.04	.28	.01	.06	
			25062	376.35	378.35	2.00	.01	.03	.03	.01	.02	
			25063	378.35	380.35	2.00	.00	.04	.11	.01	.01	
			25064	380.35	382.35	2.00	.00	.01	.01	.02	.05	
			25065	382.35	384.35	2.00	.00	.01	.00	.01	.02	
			25066	384.35	386.35	2.00	.00	.01	.01	.01	.01	
			25067	386.35	388.35	2.00	.00	.01	.01	.01	.03	
			25068	388.35	390.35	2.00	.00	.02	.03	.01	.01	
			25069	390.35	392.35	2.00	.00	.06	.13	.01	.01	
			25070	392.35	394.40	2.05	.00	.01	.03	.01	.01	
			25071	394.40	394.90	.50	.00	.01	.01	.01	.01	
			25072	394.90	396.90	2.00	.00	.06	.03	.03	.21	
			25073	396.90	397.70	.80	.00	.08	.01	.02	.03	
397.70	412.95	CHERT: SERICITIC , WITH DISSEMINATED PYRITE Light grey to whitish chert rich exhalite fragmental; up to 70% chert, as aphanitic matrix supporting greenish translucent sericite-replaced lenticular dacite lapilli and breccia-sized fragments. Local intervals are aphanitic, light grey with ~ 2% disseminated pyrite; pyrite is disseminated throughout, locally concentrated into disseminated masses or rarely in thin veinlets. Trace red-brown sphalerite grains, and trace chalcopyrite. Lower contact is gradational, as dacite lapilli tuff becomes darker in colour, and less silicified. Parts of interval are probable debris flow.	25074	397.70	399.70	2.00	.00	.13	.04	.04	.10	
			25075	399.70	401.70	2.00	.00	.10	.02	.02	.06	
			25076	401.70	403.70	2.00	.00	.04	.04	.01	.03	
			25077	403.70	405.70	2.00	.01	.06	.01	.02	.12	
			25078	405.70	407.70	2.00	.00	.01	.01	.01	.07	
			25079	407.70	409.70	2.00	.00	.06	.01	.01	.04	
			25080	409.70	411.70	2.00	.01	.03	.05	.01	.09	
			25081	411.70	412.95	1.25	.01	.01	.01	.01	.02	
412.95	416.20	DACITE LAPILLI TUFF: , WITH DISSEMINATED PYRITE Medium grey dacitic fragmental tuff with lapilli to breccia-size pumaceous fragments weakly sericite altered; weakly silicified; ~2% white chert fragments; upper contact is gradational with increased silicification; trace sphalerite, chalcopyrite; ~5% disseminated pyrite, dominantly in matrix around fragments.	25082	412.95	414.45	1.50	.01	.02	.01	.01	.12	
			25083	414.45	416.20	1.75	.00	.06	.02	.01	.03	
416.20	427.70	BASALT LAPILLI TUFF: CORDIERITE , WITH DISSEMINATED PYRITE Dark greyish-brown with beige/buff coloured rounded cordierite porphyroblasts throughout (~20-40%), average 0.5 cm to 1 cm; within tuffaceous biotite altered groundmass fragmental texture is vague to	25084	416.20	418.20	2.00	.00	.01	.01	.01	.06	
			25085	418.20	420.20	2.00	.00	.01	.01	.01	.04	
			25086	420.20	422.20	2.00	.00	.01	.01	.01	.03	

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		obscured. Quartz vein with epidote and red jasper at 424.15 m (~10 cm wide). Approximately 5% disseminated pyrite throughout, as fine rounded grains to coarse (0.5 cm) euhedral cubic porphyrocrysts; trace brown sphalerite at 418.50 m, 0.5 cm wide; 'young' gouge zone at 25° to core axis.	25087	422.20	424.20	2.00	.00	.01	.01	.01	.06
			25088	424.20	426.20	2.00	.00	.01	.01	.01	.08
			25089	426.20	427.70	1.50	.00	.01	.01	.01	.03
427.70	428.75	BASALTIC DYKE: Fine-grained, dark green dyke with sharp contacts above and below at 40° and 35° to core axis respectively; moderate to strongly magnetic.										
428.75	447.32	BASALT LAPILLI TUFF: BIOTITIC , WITH DISSEMINATED PYRITE Variably light grey to dark brown-grey pyritic basaltic fragmental tuff; upper 3.5 m is dark brown, domimantly strong biotite altered; similar to interval above dyke, however, non-porphyroblastic; non-biotite altered zones are medium to light grey with fragmental textures clear (from 432.30 - 435.20 m and from 442.9 to 445.20 m). Disseminated pyrite from 2-15% throughout as fine disseminations to coarse granules to euhederal cubes up to 0.5 cm. 80% of interval is weak to strongly biotite altered. 435.28 436.14 BASALTIC DYKE: Dark greenish, fine-grained, moderate to strongly magnetic dyke, cut by rare quartz veins; sharp upper and lower contacts at 90° to core axis. 436.75 437.00 BASALTIC DYKE: Same as above without quartz veinlets, contacts at 90° to core axis.										
447.32	476.45	BASALT FLOW: BIOTITIC , WITH DISSEMINATED PYRITE Dark green, fine-grained basaltic flow with local flow-breccia zones. Upper contact is sharp at 60° to core axis and cordierite porphyroblastic over upper 3 metres with local porphyroblasts throughout; moderate quartz-epidote veins ~5 cm wide and frequent hairline fractures.										
476.45	493.47	BASALT FLOW: SILICIFIED , WITH DISSEMINATED PYRITE Dark greyish lapilli fragmental with ~ 20% breccia fragments, dacitic(?) ash tuff or weakly silicified layer in central part of interval;. 476.45 482.70 Dark greyish to brown lapilli tuff with ~ 20% breccia fragments; ~ trace to 2% white chert fragments; interval is moderately biotitic altered with fine (~1 mm) greyish cordierite porphyroblasts(?), locally indistinct, merging into greyish patches; trace to 2% disseminated pyrite, very fine-grained, rarely localized within veinlets; lower contact is sharp from 482.55 to 482.80 m, at ~10° to core axis. 482.70 486.05 BASALT ASH TUFF: Medium greyish, fine-grained and well-sorted ash tuff, trace to 2% disseminated pyrite; numerous fine dark sinuous fractures or stringers filled with chlorite, subparallel throughout at 20-30° to core axis; lower contact is indistinct. 486.05 493.47 BASALT FLOW BRECCIA: Dark grey to black fragmental with										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		~10-20% breccia-size fragments of quartz-filled scoriaceous blocks; moderate to strongly chloritized-biotized, ~10% vague cordierite porphyroblasts(?) up to ~2 cm, some irregularly shaped or cherty lapilli fragments; 1-3% disseminated and veinleted pyrite.										
493.47	EOH											

Hole No: TCU92-37
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.30
(metres) E: 10663.27

Azimuth: 163.0
Dip: -54.2
Length (m): 493.47
Elevation: 112.55
(metres)
Purpose: To test H horizon in vicinity of hole TCU91-32

Core Size: BQ
Drill Name: CONNORS U/G
Contractor: F.BOISVENU DIAMOND DRILLING LTD.
Started: AUGUST 26, 1992
Completed: SEPT. 2, 1992
Recovery:

Date Logged: AUG. 28 to SEPT. 2, 1992
Logged By: D.J. HARRISON
Date Re-logged:
Re-logged By:
Report Printed: 19 Feb, 1993 10:05pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25001	297.43	298.93	1.50		.53	.00	.01	.00	.01	.01		.1	10	41	76	1.39	9	1	2	132	
25002	298.93	300.43	1.50		.53	.00	.01	.00	.01	.01		.1	22	8	70	1.42	9	0	2	917	
25003	300.43	301.43	1.00	3.14	96.37	.11	1.62	.81	1.11	5.83		56.5	7358	11498	53109	6.38	472	263	208	7	
25004	301.43	302.43	1.00	3.26	113.04	.11	3.51	1.16	1.79	6.55		108.1	11578	19674	62083	10.11	905	282	396	5	
25005	302.43	303.43	1.00	3.21	73.76	.05	1.85	.76	1.07	5.42		60.4	7210	10866	49676	9.27	391	221	187	7	
25006	303.43	304.43	1.00	3.06	66.75	.05	2.08	.78	.76	4.70		67.8	7302	7647	41050	6.12	665	202	297	6	
25007	304.43	305.43	1.00	3.20	51.81	.03	1.28	.72	.79	4.01		41.6	7155	7922	36082	10.52	227	170	120	5	
25008	305.43	306.65	1.22	3.01	25.88	.02	.33	.23	.61	1.99		11.5	2018	5605	16162	5.33	43	81	6	9	
25009	306.65	308.65	2.00	2.68	.92	.00	.03	.01	.01	.05		.6	71	96	366	1.11	12	2	2	50	
25010	308.65	310.55	1.90	2.70	.64	.00	.02	.00	.01	.02		.3	29	41	149	1.23	14	1	2	62	
25011	310.55	312.05	1.50	2.80	13.24	.01	.33	.11	.16	1.03		10.8	971	1524	8173	2.01	22	39	2	24	
25012	312.05	313.77	1.72	2.79	3.29	.01	.02	.01	.02	.06		1.0	105	207	529	1.72	28	3	2	24	
25013	313.77	314.77	1.00	4.25	148.73	.15	4.64	1.85	2.59	7.14		116.4	13917	5311	64247	16.18	3246	301	419	2	
25014	314.77	315.77	1.00	4.57	103.95	.10	1.88	2.14	.57	5.31		62.2	21897	5473	49011	19.65	1397	242	169	4	
25015	315.77	316.77	1.00	4.07	161.10	.04	1.11	1.10	.86	19.76		38.9	8990	9062	99999	18.62	446	956	94	4	
25016	316.77	317.77	1.00	4.28	74.66	.10	1.31	1.52	.09	1.94		42.6	14572	849	18705	19.71	511	82	42	4	
25017	317.77	318.77	1.00	4.48	125.45	.10	1.61	2.03	.38	8.86		58.8	21690	4103	87465	19.38	410	447	106	4	
25018	318.77	319.77	1.00	4.31	238.44	.13	2.23	5.54	.10	17.49		77.7	56668	955	99999	24.82	312	905	98	5	
25019	319.77	320.75	.98	4.36	287.68	.26	2.11	1.38	.42	25.83		66.1	10236	3943	99999	18.91	743	1279	217	6	
25020	320.75	321.15	.40	2.73	34.51	.05	.25	.41	.07	1.27		8.2	3620	581	10231	3.67	151	50	19	6	
25021	321.15	321.90	.75	3.25	188.06	.18	3.77	.32	8.36	11.80		129.9	1572	22772	99999	8.19	836	581	290	1	
25022	321.90	322.90	1.00	2.77	36.37	.03	1.06	.23	1.20	2.27		38.0	2089	12619	20161	2.12	235	92	125	14	
25023	322.90	323.90	1.00	2.81	14.20	.02	.23	.02	.21	.79		8.1	170	2037	6458	3.54	93	26	13	11	
25024	323.90	324.90	1.00	2.92	13.65	.03	.24	.01	.07	.14		7.7	87	588	1138	3.45	240	5	14	9	
25025	324.90	325.90	1.00	2.69	4.08	.01	.10	.01	.05	.08		3.3	62	486	667	.98	69	3	12	38	
25026	325.90	326.90	1.00	2.78	5.89	.01	.08	.01	.04	.25		2.9	119	326	1965	2.66	99	8	10	22	
25027	326.90	327.45	.55	2.69	2.87	.00	.05	.00	.04	.16		1.9	39	353	1362	.90	36	5	6	45	

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25028	327.45	328.40	.95	3.20	142.25	.10	3.43	.20	4.75	11.79		112.2	920	19891	99999	8.05	817	496	235	7	
25029	328.40	329.40	1.00	2.95	15.09	.03	.56	.04	.16	.34		17.9	347	1551	2952	7.48	369	12	46	9	
25030	329.40	329.85	.45	3.08	15.17	.02	.47	.06	.06	1.11		16.1	541	534	9667	11.09	439	42	42	3	
25031	329.85	331.35	1.50		13.57	.01	.69	.13	.05	.75		22.7	1070	484	6610	7.90	667	31	93	5	
25032	331.35	332.85	1.50		11.37	.01	.18	.02	.04	1.16		4.5	157	383	9781	5.33	252	40	19	10	
25033	332.85	334.35	1.50		5.10	.01	.09	.01	.03	.36		2.7	123	239	3012	4.15	221	14	15	12	
25034	334.35	335.85	1.50		8.80	.01	.10	.03	.02	.96		3.2	278	150	8132	4.56	302	33	20	12	
25035	335.85	337.35	1.50		12.10	.00	.18	.09	.04	1.37		5.5	750	358	11598	4.91	611	47	49	11	
25036	337.35	338.85	1.50		10.51	.01	.15	.08	.03	.98		4.8	668	317	8280	8.89	507	32	36	5	
25037	338.85	340.35	1.50		4.80	.01	.09	.01	.01	.32		2.3	141	77	2773	4.31	171	10	11	14	
25038	340.35	341.85	1.50		5.08	.00	.15	.05	.01	.38		4.5	483	48	3177	4.41	356	14	20	15	
25039	341.85	343.35	1.50		2.39	.01	.07	.01	.01	.03		1.7	59	69	261	4.73	70	1	6	15	
25040	343.35	344.85	1.50		1.62	.00	.06	.01	.01	.02		1.2	104	32	196	3.64	76	0	6	20	
25041	344.85	346.70	1.85		4.08	.00	.05	.09	.01	.32		1.7	806	48	2669	6.18	329	11	27	13	
25042	346.70	348.70	2.00		1.32	.00	.08	.02	.01	.01		2.8	163	24	102	6.07	116	0	3	16	
25043	348.70	350.70	2.00		1.39	.00	.14	.00	.01	.02		5.0	42	19	150	5.26	241	0	5	22	
25044	350.70	352.70	2.00		.74	.00	.02	.01	.01	.03		.9	68	20	214	4.98	191	0	2	25	
25045	352.70	354.70	2.00		6.29	.01	.11	.28	.01	.04		3.1	2731	35	402	7.45	125	1	4	9	
25046	354.70	356.70	2.00		6.47	.00	.11	.38	.01	.05		3.5	3640	33	472	10.48	201	0	5	6	
25047	356.70	357.98	1.28		4.77	.01	.09	.20	.01	.01		2.9	1981	40	90	10.72	185	0	6	7	
25048	357.98	359.50	1.52		2.19	.01	.03	.01	.01	.01		1.4	85	89	123	5.19	74	0	3	16	
25049	359.50	361.00	1.50		2.57	.00	.06	.06	.01	.02		3.0	539	64	176	8.73	147	0	6	7	
25050	361.00	362.50	1.50		2.35	.00	.08	.03	.01	.03		2.4	275	75	252	10.63	141	0	2	8	
25051	362.50	364.00	1.50		3.56	.01	.06	.01	.01	.03		1.3	117	106	327	6.28	116	1	5	12	
25052	364.00	365.50	1.50		4.51	.01	.12	.03	.01	.05		3.9	314	93	466	6.65	148	2	25	11	
25053	365.50	367.00	1.50		1.01	.00	.01	.00	.01	.02		.4	47	37	190	4.53	66	0	2	21	
25054	367.00	368.50	1.50		1.40	.00	.03	.01	.01	.01		.7	60	65	130	6.43	107	0	2	15	
25055	368.50	370.00	1.50		2.70	.00	.03	.09	.01	.06		.7	817	97	502	7.27	113	1	2	14	
25056	370.00	371.00	1.00		2.80	.00	.03	.07	.01	.16		.7	669	78	1271	7.45	133	4	4	17	
25057	371.00	372.00	1.00		25.63	.01	.17	.71	.02	2.17		4.8	7561	183	21104	14.41	517	76	32	8	
25058	372.00	373.00	1.00		6.40	.01	.05	.26	.01	.17		1.8	2399	91	1318	12.79	143	4	2	11	
25059	373.00	373.90	.90		1.42	.00	.02	.04	.01	.07		.5	375	53	532	6.07	81	2	2	16	
25060	373.90	374.35	.45		.76	.00	.01	.01	.01	.03		.1	103	10	225	4.90	30	0	2	557	
25061	374.35	376.35	2.00		5.08	.00	.04	.28	.01	.06		1.7	2618	62	502	9.70	87	1	2	10	
25062	376.35	378.35	2.00		2.54	.01	.03	.03	.01	.02		1.0	320	95	185	7.88	108	0	2	11	
25063	378.35	380.35	2.00		3.12	.00	.04	.11	.01	.01		1.4	1060	47	122	5.63	146	0	2	13	
25064	380.35	382.35	2.00		1.28	.00	.01	.01	.02	.05		.5	100	168	422	7.11	146	1	2	13	
25065	382.35	384.35	2.00		.62	.00	.01	.00	.01	.02		.3	59	30	186	5.23	68	0	2	21	
25066	384.35	386.35	2.00		1.40	.00	.01	.01	.01	.01		.6	120	67	88	9.53	144	0	2	12	
25067	386.35	388.35	2.00		1.12	.00	.01	.01	.01	.03		.3	88	48	284	7.06	103	0	2	17	
25068	388.35	390.35	2.00		1.28	.00	.02	.03	.01	.01		.2	284	48	80	5.46	137	0	2	7	
25069	390.35	392.35	2.00		2.61	.00	.05	.13	.01	.01		1.9	1193	50	78	5.15	73	0	4	8	
25070	392.35	394.40	2.05		.88	.00	.01	.03	.01	.01		.8	297	22	72	5.38	60	0	2	37	
25071	394.40	394.90	.50		.63	.00	.01	.01	.01	.01		.2	50	44	145	5.87	20	0	2	22	
25072	394.90	396.90	2.00		2.73	.00	.05	.03	.03	.21		1.6	308	368	1895	6.68	174	8	6	11	
25073	396.90	397.70	.80		1.73	.00	.07	.01	.02	.03		2.3	111	238	275	7.12	202	1	5	13	
25074	397.70	399.70	2.00		2.02	.00	.12	.04	.04	.10		3.9	328	454	921	3.34	193	5	17	20	

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25075	399.70	401.70	2.00		1.35	.00	.09	.02	.02	.06		2.6	182	187	604	3.36	96	3	10	17	
25076	401.70	403.70	2.00		1.60	.00	.04	.04	.01	.03		1.8	355	173	267	4.16	136	1	14	10	
25077	403.70	405.70	2.00		3.37	.01	.05	.01	.02	.12		1.6	118	257	1112	5.69	84	5	4	7	
25078	405.70	407.70	2.00		1.39	.00	.01	.01	.01	.07		.6	98	136	670	3.80	80	3	3	12	
25079	407.70	409.70	2.00		1.32	.00	.05	.01	.01	.04		2.0	109	215	421	6.79	141	2	5	6	
25080	409.70	411.70	2.00		3.20	.01	.03	.05	.01	.09		2.0	523	184	877	5.98	172	4	15	7	
25081	411.70	412.95	1.25		2.19	.01	.01	.01	.01	.02		1.2	85	114	230	6.29	194	1	5	10	
25082	412.95	414.45	1.50		3.99	.01	.02	.01	.01	.12		1.2	112	232	1063	11.83	226	4	2	13	
25083	414.45	416.20	1.75		2.13	.00	.05	.02	.01	.03		1.7	188	191	313	6.91	101	1	2	13	
25084	416.20	418.20	2.00		.95	.00	.01	.01	.01	.06		.1	46	71	504	10.90	32	0	2	10	
25085	418.20	420.20	2.00		.82	.00	.01	.01	.01	.04		.1	34	96	339	7.44	2	0	2	13	
25086	420.20	422.20	2.00		.76	.00	.01	.01	.01	.03		.1	31	87	310	6.85	2	0	2	16	
25087	422.20	424.20	2.00		.95	.00	.01	.01	.01	.06		.1	74	105	601	8.41	2	2	2	13	
25088	424.20	426.20	2.00		1.08	.00	.01	.01	.01	.08		.1	45	177	778	8.27	5	3	2	12	
25089	426.20	427.70	1.50		.76	.00	.01	.01	.01	.03		.1	25	78	331	7.58	5	1	2	12	

Hole No: TCU92-37
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15375.30
(metres) E: 10663.27

Azimuth: 163.0
Dip: -54.2
Length (m): 493.47
Elevation: 112.55
(metres)
Purpose: To test H horizon in vicinity of hole TCU91-32

Core Size: BQ
Drill Name: CONNORS U/G
Contractor: F.BOISVENU DIAMOND DRILLING LTD.
Started: AUGUST 26, 1992
Completed: SEPT. 2, 1992
Recovery:

Date Logged: AUG. 28 to SEPT. 2, 1992
Logged By: D.J. HARRISON
Date Re-logged:
Re-logged By:
Report Printed: 21 Feb, 1993 4:31pm

Sample No.	From (m)	To (m)	Inter-val (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25001	297.43	298.93	1.50	1	9	3	174	5	2	45	2	7	.54	8	15	.25	.05	2	4
25002	298.93	300.43	1.50	1	6	4	272	5	3	54	2	7	.40	13	32	.81	.07	2	3
25003	300.43	301.43	1.00	11	19	6	243	5	2	61	8	8	.53	2	33	.68	.02	17	2
25004	301.43	302.43	1.00	13	10	6	214	5	1	27	14	4	.27	2	14	.58	.01	18	2
25005	302.43	303.43	1.00	10	11	5	199	6	1	31	8	3	.23	2	15	.60	.01	17	1
25006	303.43	304.43	1.00	8	9	4	179	7	2	34	7	2	.28	2	13	.45	.01	15	1
25007	304.43	305.43	1.00	10	10	5	103	5	1	27	7	2	.23	2	14	.19	.01	12	2
25008	305.43	306.65	1.22	3	6	4	318	5	1	33	2	3	.27	2	6	.72	.02	2	1
25009	306.65	308.65	2.00	3	9	3	407	5	2	43	2	3	.51	7	16	.12	.03	2	1
25010	308.65	310.55	1.90	2	7	3	581	5	2	35	2	3	.82	7	12	.26	.05	2	4
25011	310.55	312.05	1.50	4	7	4	321	5	2	48	2	3	.39	6	9	.47	.02	2	1
25012	312.05	313.77	1.72	2	6	5	107	5	4	35	2	1	.26	10	5	.18	.01	3	1
25013	313.77	314.77	1.00	17	7	4	98	6	1	9	14	2	.13	2	12	.02	.01	23	1
25014	314.77	315.77	1.00	10	7	4	109	5	1	13	19	2	.06	2	12	.02	.01	23	1
25015	315.77	316.77	1.00	29	14	5	186	5	1	14	31	5	.19	2	22	.27	.01	30	1
25016	316.77	317.77	1.00	7	13	3	61	5	1	11	12	3	.13	2	13	.19	.01	2	1
25017	317.77	318.77	1.00	15	13	4	113	5	1	14	69	3	.09	2	16	.04	.01	27	1
25018	318.77	319.77	1.00	19	28	6	248	5	1	15	47	5	.18	2	29	.13	.01	36	1
25019	319.77	320.75	.98	16	15	4	146	5	1	14	28	2	.12	2	19	.02	.01	33	1
25020	320.75	321.15	.40	11	17	3	72	5	1	47	2	2	.06	2	21	.03	.01	2	1
25021	321.15	321.90	.75	27	12	3	126	6	1	12	8	2	.15	2	19	.01	.01	22	2
25022	321.90	322.90	1.00	11	14	2	106	5	1	27	2	2	.09	2	19	.05	.01	2	1
25023	322.90	323.90	1.00	5	38	8	150	5	1	40	2	8	.28	2	35	.28	.01	2	1
25024	323.90	324.90	1.00	5	12	5	69	5	1	66	2	4	.18	2	12	.08	.01	2	4
25025	324.90	325.90	1.00	5	13	3	70	5	1	27	2	3	.16	3	17	.05	.01	2	5
25026	325.90	326.90	1.00	2	54	11	423	5	1	50	2	38	.45	2	81	1.14	.08	2	1
25027	326.90	327.45	.55	5	12	2	59	5	1	28	2	3	.10	3	18	.07	.01	2	4

Sample No.	From (m)	To (m)	Inter-val (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25028	327.45	328.40	.95	9	58	15	316	7	1	45	6	25	.68	2	65	.51	.03	20	1
25029	328.40	329.40	1.00	2	24	28	95	5	1	16	2	10	.36	2	8	.03	.01	2	1
25030	329.40	329.85	.45	6	48	37	95	5	1	4	2	8	.12	2	16	.01	.01	2	1
25031	329.85	331.35	1.50	3	8	3	84	5	1	2	2	2	.05	2	10	.02	.01	2	1
25032	331.35	332.85	1.50	8	9	4	65	5	1	3	2	1	.02	4	4	.01	.01	2	3
25033	332.85	334.35	1.50	8	6	2	65	5	1	2	2	1	.03	3	6	.02	.01	2	1
25034	334.35	335.85	1.50	8	5	5	67	5	1	1	2	1	.02	8	1	.02	.01	2	1
25035	335.85	337.35	1.50	7	5	4	102	5	1	2	2	1	.05	6	2	.02	.01	2	1
25036	337.35	338.85	1.50	3	8	4	75	6	1	1	2	1	.02	3	2	.02	.01	4	1
25037	338.85	340.35	1.50	4	7	3	58	5	1	2	2	1	.03	5	3	.03	.01	3	1
25038	340.35	341.85	1.50	5	8	4	46	5	1	2	2	1	.03	6	4	.01	.01	2	1
25039	341.85	343.35	1.50	4	8	3	60	5	1	2	2	1	.04	6	3	.01	.01	2	1
25040	343.35	344.85	1.50	4	5	3	63	5	1	5	2	1	.09	6	4	.05	.01	2	1
25041	344.85	346.70	1.85	2	5	3	90	5	1	17	2	1	.32	3	6	.16	.01	2	1
25042	346.70	348.70	2.00	1	4	3	307	5	1	18	2	1	.28	5	4	.83	.03	2	1
25043	348.70	350.70	2.00	3	108	11	489	5	1	33	2	22	.39	3	205	1.71	.04	2	1
25044	350.70	352.70	2.00	1	198	19	920	5	1	53	2	43	.91	2	316	3.35	.07	3	1
25045	352.70	354.70	2.00	2	27	6	127	5	1	23	2	5	.33	2	52	.48	.01	2	1
25046	354.70	356.70	2.00	1	9	3	69	5	1	11	2	1	.26	2	9	.29	.01	2	1
25047	356.70	357.98	1.28	1	7	6	50	5	1	8	2	1	.10	3	6	.16	.01	2	1
25048	357.98	359.50	1.52	5	7	4	43	5	1	8	2	1	.12	3	6	.14	.01	4	1
25049	359.50	361.00	1.50	4	10	4	46	5	1	11	2	1	.20	2	11	.13	.01	2	1
25050	361.00	362.50	1.50	2	5	7	69	5	1	11	2	1	.29	2	6	.13	.01	2	1
25051	362.50	364.00	1.50	3	13	9	64	5	1	8	2	6	.15	2	13	.11	.01	2	2
25052	364.00	365.50	1.50	2	11	11	61	5	1	5	3	7	.10	2	9	.07	.01	2	2
25053	365.50	367.00	1.50	5	10	3	89	5	1	4	2	2	.11	2	11	.08	.01	2	3
25054	367.00	368.50	1.50	3	8	4	35	5	1	9	2	2	.21	2	7	.07	.01	3	2
25055	368.50	370.00	1.50	3	6	8	65	5	1	9	2	1	.40	2	6	.09	.01	2	1
25056	370.00	371.00	1.00	4	5	11	57	5	1	40	2	2	.59	2	6	.14	.01	2	1
25057	371.00	372.00	1.00	21	7	8	88	5	1	17	4	1	.39	2	10	.12	.01	3	1
25058	372.00	373.00	1.00	4	4	11	68	5	1	56	2	2	.56	2	5	.21	.01	2	1
25059	373.00	373.90	.90	2	7	9	229	5	1	44	2	7	.70	2	7	.67	.04	3	1
25060	373.90	374.35	.45	1	471	42	1057	5	1	28	2	107	.59	2	750	6.48	.09	2	3
25061	374.35	376.35	2.00	1	9	11	117	5	1	26	2	4	.61	2	17	.40	.02	2	1
25062	376.35	378.35	2.00	1	12	11	105	5	1	23	2	4	.58	2	21	.42	.02	2	1
25063	378.35	380.35	2.00	2	5	13	146	5	1	30	2	5	.81	2	3	.42	.02	2	1
25064	380.35	382.35	2.00	1	3	9	338	5	1	37	2	8	.74	2	4	.85	.07	2	1
25065	382.35	384.35	2.00	2	4	8	574	5	1	33	2	12	.89	2	5	1.50	.12	2	1
25066	384.35	386.35	2.00	1	4	9	224	5	1	42	2	6	.68	2	6	.59	.04	2	1
25067	386.35	388.35	2.00	2	5	8	345	5	1	59	2	7	.64	2	6	.83	.06	2	1
25068	388.35	390.35	2.00	1	5	8	132	5	1	83	2	4	.65	2	6	.25	.02	2	2
25069	390.35	392.35	2.00	2	6	7	89	5	1	88	2	3	.72	2	7	.15	.01	2	2
25070	392.35	394.40	2.05	1	199	25	353	5	1	164	2	65	1.84	2	223	2.43	.12	2	1
25071	394.40	394.90	.50	1	40	18	484	5	1	228	2	93	2.46	3	31	2.04	.31	2	1
25072	394.90	396.90	2.00	2	9	10	92	5	1	30	2	7	.60	2	10	.29	.02	2	1
25073	396.90	397.70	.80	1	8	6	101	5	1	21	2	2	.35	3	8	.22	.01	2	1
25074	397.70	399.70	2.00	3	8	3	75	5	1	9	2	1	.10	5	9	.12	.01	2	2

Sample No.	From (m)	To (m)	Inter-val (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25075	399.70	401.70	2.00	3	8	2	63	5	1	10	2	1	.08	5	9	.07	.01	2	2
25076	401.70	403.70	2.00	2	6	2	42	5	1	7	2	1	.05	5	9	.04	.01	2	3
25077	403.70	405.70	2.00	2	7	7	74	5	1	18	2	2	.23	2	7	.05	.01	2	1
25078	405.70	407.70	2.00	1	8	7	62	5	1	33	2	2	.36	4	10	.07	.01	3	2
25079	407.70	409.70	2.00	1	7	10	55	5	1	20	2	2	.35	3	7	.07	.01	2	1
25080	409.70	411.70	2.00	1	6	9	68	5	1	28	2	2	.33	3	6	.08	.01	2	1
25081	411.70	412.95	1.25	2	7	9	105	5	1	21	2	3	.47	2	8	.29	.02	2	1
25082	412.95	414.45	1.50	4	7	10	315	5	1	41	2	8	.87	2	10	1.05	.07	2	1
25083	414.45	416.20	1.75	1	4	13	388	5	1	14	2	7	.39	2	4	1.01	.08	2	1
25084	416.20	418.20	2.00	1	7	8	857	5	1	10	2	21	.42	2	9	3.05	.25	3	1
25085	418.20	420.20	2.00	1	7	9	731	5	1	9	2	35	.41	2	7	3.22	.24	2	1
25086	420.20	422.20	2.00	1	7	9	720	5	1	10	2	39	.43	2	8	3.42	.26	2	1
25087	422.20	424.20	2.00	1	9	9	712	5	1	10	2	38	.48	2	9	3.13	.26	2	1
25088	424.20	426.20	2.00	1	6	8	691	5	1	11	2	31	.45	2	8	2.79	.26	2	1
25089	426.20	427.70	1.50	1	8	10	693	5	1	26	2	23	.61	2	10	2.45	.24	2	2

GEOTECHNICAL RECORD

PROPERTY: Tulsequah Chief ROCK QUALITY DETERMINATION
HOLE NUMBER: TCU92-37
RECORDED BY: John Ridley DATE: _____

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.50	2.44	1.94	1.83	94.33%	0.98	50.52%
2.44	5.79	3.35	3.18	94.93%	1.68	50.15%
5.79	8.84	3.05	3.05	100.00%	1.76	57.70%
8.84	11.89	3.05	3.05	100.00%	2.37	77.70%
11.89	14.94	3.05	3.05	100.00%	2.47	80.98%
14.94	17.37	2.43	2.23	91.77%	0.65	26.75%
17.37	20.42	3.05	3.05	100.00%	1.84	60.33%
20.42	23.47	3.05	3.05	100.00%	1.85	60.66%
23.47	26.82	3.35	3.35	100.00%	1.25	37.31%
26.82	29.87	3.05	3.05	100.00%	2.00	65.57%
29.87	32.92	3.05	3.03	99.34%	2.15	70.49%
32.92	35.97	3.05	3.05	100.00%	2.07	67.87%
35.97	39.32	3.35	3.35	100.00%	2.13	63.58%
39.32	42.37	3.05	3.05	100.00%	2.64	86.56%
42.37	45.42	3.05	3.05	100.00%	2.60	85.25%
45.42	48.46	3.04	3.04	100.00%	3.02	99.34%
48.46	51.51	3.05	3.05	100.00%	2.48	81.31%
51.51	54.56	3.05	3.05	100.00%	2.61	85.57%
54.56	57.61	3.05	3.05	100.00%	2.57	84.26%
57.61	60.66	3.05	3.05	100.00%	1.38	45.25%
60.66	63.70	3.04	3.04	100.00%	1.83	60.20%
63.70	66.75	3.05	3.05	100.00%	2.01	65.90%
66.75	69.80	3.05	3.05	100.00%	1.67	54.75%
69.80	72.85	3.05	3.05	100.00%	2.07	67.87%
72.85	75.90	3.05	3.02	99.02%	1.68	55.08%
75.90	78.94	3.04	3.04	100.00%	1.57	51.64%
78.94	80.77	1.83	1.83	100.00%	1.65	90.16%
80.77	82.91	2.14	2.11	98.60%	1.70	79.44%
82.91	84.73	1.82	1.82	100.00%	1.22	67.03%
84.73	87.78	3.05	3.00	98.36%	1.96	64.26%
87.78	90.83	3.05	3.05	100.00%	2.26	74.10%
90.83	94.03	3.20	3.20	100.00%	2.50	78.12%
94.03	97.23	3.20	3.20	100.00%	2.55	79.69%
97.23	100.28	3.05	2.98	97.70%	1.89	61.97%
100.28	103.33	3.05	3.05	100.00%	2.52	82.62%
103.33	106.38	3.05	3.05	100.00%	2.71	88.85%
106.38	109.42	3.04	3.04	100.00%	2.40	78.95%
109.42	111.86	2.44	2.40	98.36%	2.15	88.11%
111.86	114.30	2.44	2.44	100.00%	2.05	84.02%
114.30	115.52	1.22	1.22	100.00%	1.14	93.44%
115.52	118.57	3.05	3.05	100.00%	2.72	89.18%
118.57	121.62	3.05	3.05	100.00%	2.90	95.08%
121.62	124.66	3.04	3.04	100.00%	2.18	71.71%
124.66	126.19	1.53	1.53	100.00%	0.33	21.57%
126.19	127.71	1.52	1.52	100.00%	0.79	51.97%
127.71	130.76	3.05	3.05	100.00%	2.20	72.13%
130.76	133.81	3.05	3.05	100.00%	2.49	81.64%
133.81	136.55	2.74	2.74	100.00%	0.91	33.21%
136.55	139.60	3.05	3.05	100.00%	2.33	76.39%
139.60	142.80	3.20	3.04	95.00%	2.00	62.50%
142.80	145.85	3.05	3.05	100.00%	2.06	67.54%
145.85	149.05	3.20	3.14	98.12%	2.66	83.12%
149.05	152.10	3.05	3.05	100.00%	2.80	91.80%
152.10	155.14	3.04	3.04	100.00%	2.93	96.38%
155.14	158.19	3.05	3.05	100.00%	2.82	92.46%
158.19	161.24	3.05	3.05	100.00%	2.62	85.90%
161.24	164.29	3.05	3.05	100.00%	2.20	72.13%
164.29	167.39	3.10	3.10	100.00%	2.00	64.52%
167.39	170.38	2.99	2.99	100.00%	1.15	38.46%

GEOTECHNICAL RECORD

PROPERTY: Tulsequah Chief ROCK QUALITY DETERMINATION
HOLE NUMBER: TCU92-37
RECORDED BY: John Ridley DATE: _____

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
170.38	173.43	3.05	3.05	100.00%	2.82	92.46%
173.43	176.48	3.05	3.05	100.00%	2.71	88.85%
176.48	179.53	3.05	3.05	100.00%	2.45	80.33%
179.53	182.58	3.05	3.05	100.00%	2.84	93.11%
182.58	185.62	3.04	3.04	100.00%	2.76	90.79%
185.62	188.67	3.05	3.05	100.00%	2.60	85.25%
188.67	191.72	3.05	3.05	100.00%	2.50	81.97%
191.72	194.77	3.05	3.05	100.00%	2.95	96.72%
194.77	197.82	3.05	3.05	100.00%	2.85	93.44%
197.82	200.86	3.04	3.04	100.00%	2.84	93.42%
200.86	203.91	3.05	3.05	100.00%	2.48	81.31%
203.91	206.96	3.05	3.05	100.00%	2.55	83.61%
206.96	210.00	3.04	3.04	100.00%	2.88	94.74%
210.00	213.97	3.97	3.95	99.50%	3.40	85.64%
213.97	216.10	2.13	2.10	98.59%	2.10	98.59%
216.10	219.15	3.05	3.05	100.00%	1.82	59.67%
219.15	222.20	3.05	3.03	99.34%	2.04	66.89%
222.20	225.25	3.05	3.05	100.00%	2.80	91.80%
225.25	227.99	2.74	2.74	100.00%	2.40	87.59%
227.99	231.04	3.05	3.05	100.00%	3.00	98.36%
231.04	233.93	2.89	2.81	97.23%	0.87	30.10%
233.93	237.13	3.20	3.20	100.00%	3.05	95.31%
237.13	240.18	3.05	3.05	100.00%	2.48	81.31%
240.18	243.23	3.05	3.05	100.00%	1.07	35.08%
243.23	246.28	3.05	3.05	100.00%	1.94	63.61%
246.28	249.33	3.05	3.05	100.00%	2.69	88.20%
249.33	252.68	3.35	3.35	100.00%	2.42	72.24%
252.68	255.73	3.05	3.05	100.00%	2.05	67.21%
255.73	258.78	3.05	3.05	100.00%	2.97	97.38%
258.78	261.82	3.04	3.04	100.00%	1.82	59.87%
261.82	264.87	3.05	3.05	100.00%	3.00	98.36%
264.87	267.92	3.05	3.05	100.00%	2.91	95.41%
267.92	270.97	3.05	3.05	100.00%	2.56	83.93%
270.97	273.56	2.59	2.59	100.00%	1.23	47.49%
273.56	276.30	2.74	2.74	100.00%	1.51	55.11%
276.30	279.35	3.05	3.05	100.00%	1.85	60.66%
279.35	282.24	2.89	2.89	100.00%	1.85	64.01%
282.24	285.29	3.05	3.05	100.00%	1.98	64.92%
285.29	287.73	2.44	2.44	100.00%	1.50	61.48%
287.73	289.26	1.53	1.53	100.00%	1.53	100.00%
289.26	290.47	1.21	1.21	100.00%	0.98	80.99%
290.47	293.52	3.05	3.05	100.00%	3.05	100.00%
293.52	295.35	1.83	1.82	99.45%	1.59	86.89%
295.35	298.40	3.05	3.05	100.00%	2.46	80.66%
298.40	301.45	3.05	3.05	100.00%	2.54	83.28%
301.45	304.50	3.05	3.05	100.00%	2.59	84.92%
304.50	306.93	2.43	2.43	100.00%	2.15	88.48%
306.93	309.68	2.75	2.75	100.00%	2.42	88.00%
309.68	310.59	0.91	0.91	100.00%	0.71	78.02%
310.59	313.64	3.05	3.05	100.00%	2.72	89.18%
313.64	316.69	3.05	3.05	100.00%	3.05	100.00%
316.69	319.74	3.05	3.05	100.00%	2.81	92.13%
319.74	322.78	3.04	3.04	100.00%	2.51	82.57%
322.78	325.83	3.05	3.05	100.00%	2.93	96.07%
325.83	328.88	3.05	3.05	100.00%	2.66	87.21%
328.88	331.93	3.05	3.05	100.00%	2.68	87.87%
331.93	334.98	3.05	3.05	100.00%	2.92	95.74%
334.98	338.02	3.04	3.04	100.00%	2.98	98.03%
338.02	341.07	3.05	3.05	100.00%	2.73	89.51%

GEOTECHNICAL RECORD

PROPERTY: Tulsequah Chief ROCK QUALITY DETERMINATION
HOLE NUMBER: TCU92-37
RECORDED BY: John Ridley DATE: _____
Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
341.07	344.12	3.05	3.05	100.00%	2.97	97.38%
344.12	346.86	2.74	2.74	100.00%	2.25	82.12%
346.86	349.91	3.05	3.05	100.00%	2.27	74.43%
349.91	351.74	1.83	1.83	100.00%	1.31	71.58%
351.74	354.94	3.20	3.20	100.00%	1.82	56.88%
354.94	356.31	1.37	1.37	100.00%	1.25	91.24%
356.31	359.36	3.05	3.05	100.00%	2.78	91.15%
359.36	362.41	3.05	3.05	100.00%	3.05	100.00%
362.41	365.00	2.59	2.59	100.00%	2.53	97.68%
365.00	368.05	3.05	3.05	100.00%	3.00	98.36%
368.05	371.25	3.20	3.20	100.00%	2.79	87.19%
371.25	374.29	3.04	3.04	100.00%	2.41	79.28%
374.29	377.50	3.21	3.21	100.00%	2.76	85.98%
377.50	380.54	3.04	3.04	100.00%	3.04	100.00%
380.54	383.74	3.20	3.20	100.00%	2.99	93.44%
383.74	386.79	3.05	3.05	100.00%	3.02	99.02%
386.79	389.23	2.44	2.44	100.00%	1.36	55.74%
389.23	392.28	3.05	3.05	100.00%	3.00	98.36%
392.28	395.33	3.05	3.05	100.00%	2.50	81.97%
395.33	398.37	3.04	3.04	100.00%	3.04	100.00%
398.37	401.42	3.05	3.05	100.00%	2.80	91.80%
401.42	404.47	3.05	3.05	100.00%	3.05	100.00%
404.47	407.52	3.05	3.05	100.00%	2.26	74.10%
407.52	410.57	3.05	3.05	100.00%	1.66	54.43%
410.57	413.61	3.04	3.04	100.00%	3.04	100.00%
413.61	416.81	3.20	3.20	100.00%	2.84	88.75%
416.81	419.86	3.05	3.05	100.00%	2.73	89.51%
419.86	422.91	3.05	3.05	100.00%	2.69	88.20%
422.91	426.11	3.20	3.20	100.00%	3.15	98.44%
426.11	429.16	3.05	3.05	100.00%	2.95	96.72%
429.16	432.21	3.05	3.05	100.00%	2.84	93.11%
432.21	435.25	3.04	3.04	100.00%	2.59	85.20%
435.25	438.30	3.05	3.05	100.00%	2.56	83.93%
438.30	441.35	3.05	3.05	100.00%	2.56	83.93%
441.35	444.70	3.35	3.35	100.00%	2.83	84.48%
444.70	447.75	3.05	3.05	100.00%	2.34	76.72%
447.75	448.97	1.22	1.22	100.00%	0.97	79.51%
448.97	450.49	1.52	1.52	100.00%	1.48	97.37%
450.49	452.63	2.14	2.14	100.00%	0.33	15.42%
452.63	455.68	3.05	3.03	99.34%	2.37	77.70%
455.68	459.03	3.35	3.35	100.00%	2.01	60.00%
459.03	462.08	3.05	3.05	100.00%	2.22	72.79%
462.08	465.12	3.04	3.04	100.00%	2.56	84.21%
465.12	466.04	0.92	0.92	100.00%	0.78	84.78%
466.04	469.09	3.05	3.05	100.00%	2.37	77.70%
469.09	472.14	3.05	3.05	100.00%	2.42	79.34%
472.14	475.18	3.04	3.04	100.00%	2.31	75.99%
475.18	478.23	3.05	3.05	100.00%	2.63	86.23%
478.23	481.28	3.05	3.05	100.00%	2.99	98.03%
481.28	484.33	3.05	3.05	100.00%	2.90	95.08%
484.33	487.38	3.05	3.05	100.00%	3.05	100.00%
487.38	487.98	0.60	0.60	100.00%	0.51	85.00%
487.98	490.42	2.44	2.44	100.00%	2.28	93.44%
490.42	493.47	3.05	3.05	100.00%	2.84	93.11%

493.47 END OF HOLE

* Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU92-38
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15185.01
(metres) E: 10735.57

Azimuth: 137.9
Dip: -.4
Length (m): 224.94
Elevation: 112.28
(metres)
Purpose:

Core Size: BQ
Drill Name: Conners
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: September 16, 1992
Completed: September 18, 1992
Recovery:

Date Logged: Sept. 22, 1992
Logged By: G. L. Dawson
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:25am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	137.9	-.4															
3.1	138.0	-.2	40.6	138.2	.2	78.1	138.8	1.1	115.6	139.9	2.8	153.1	141.3	4.2	190.5	142.4	5.7
9.4	138.1	-.2	46.8	138.2	.2	84.3	138.9	1.3	121.8	140.1	2.8	159.3	141.5	4.2	196.8	142.6	5.9
12.5	138.1	-.2	50.0	138.2	.2	87.5	139.0	1.5	124.9	140.2	2.9	162.4	141.6	4.2	199.9	142.7	6.1
15.6	138.1	-.2	53.1	138.2	.2	90.6	139.1	1.6	128.1	140.4	3.1	165.6	141.7	4.4	203.0	142.8	6.1
18.7	138.1	.0	56.2	138.2	.2	93.7	139.2	1.8	131.2	140.5	3.3	168.7	141.8	4.6	206.2	142.9	6.3
21.9	138.1	.0	59.3	138.3	.3	96.8	139.3	2.0	134.3	140.5	3.3	171.8	141.9	4.8	209.3	143.0	6.4
25.0	138.1	.0	62.5	138.4	.5	100.0	139.3	2.0	137.4	140.6	3.5	174.9	142.0	5.0	212.4	143.1	6.4
28.1	138.1	.0	65.6	138.5	.7	103.1	139.3	2.0	140.6	140.7	3.7	178.1	142.0	5.0	215.5	143.1	6.4
31.2	138.2	.2	68.7	138.6	.7	106.2	139.4	2.0	143.7	140.8	3.9	181.2	142.1	5.2	218.6	143.2	6.6
34.4	138.2	.2	71.8	138.7	.9	109.3	139.5	2.2	146.8	141.0	4.0	184.3	142.2	5.3	221.8	143.3	6.8
37.5	138.2	.2	75.0	138.8	1.1	112.4	139.7	2.6	149.9	141.1	4.2	187.4	142.3	5.5	224.9	143.4	7.0

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	7.70	BASALT FLOW: Dark greenish grey, fine grained basalt flow; weak to moderately magnetic and hard (>5). Rare randomly orientated quartz veins with trace pyrite. Lower contact sharp and irregular @ 50-70° to CA.										
7.70	15.15	DACITE LAPILLI TUFF: Dark grey, siliceous homolithic dacite lapilli tuff with rare breccia size clasts; some feldspar (<2mm) phyric zones and clasts. Weak hematite and chlorite alteration cut by rare chlorite + quartz veins with albite envelopes. Lower 0.5 metres of interval is fractured and chlorite + quartz + albite altered.										
15.15	17.88	SLOKO RYHOLITE DYKE: Buff to brown, fine grained to aphanitic rhyolite dyke with minor dark										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

flow bands @ 70° to CA. Upper and lower contacts are sharp @ 65° to CA.

17.88 51.21 DACITE LAPILLI TUFF: HEMATITIC
Light to dark grey ± maroon, homolithic dacite lapilli tuff similar to 7.70 - 15.15 metres. Grey ash matrix is locally feldspar (10-15%) phyric. Some zones of hematite alteration; minor chlorite + quartz veinlets with albite + epidote envelopes. Trace cubic magnetite (4mm) after pyrite. Lower contact @ 80° to CA.

51.21 75.30 BASALT LAPILLI TUFF: SERICITIC , WITH DISSEMINATED PYRITE
Grey to beige, sericite + silica + pyrite altered basalt (?) lapilli tuff. Lapilli types include: (i) grey silicified amygdaloidal basalt clasts, (ii) white chert, and (iii) black chloritic basalt. Lapilli range in size from 4 to <0.5 cm and are clast supported. Disseminated and stringer pyrite (fine grained, 5-10 %) is mainly confined to the matrix. Lower contact @ 40-50° to CA.

52.73 53.68 BASALTIC DYKE: Dark green to black, fine grained basalt dyke. Upper and lower contact @ 60° to CA. From 52.89 - 53.06 metres quartz + calcite + chlorite altered shear zone @ 60° to CA.

60.67 61.18 BASALTIC DYKE: Similar to 52.73-53.68 metres. Upper contact sharp @ 60° to CA (chlorite shear). Lower contact irregular @ 60-80° to CA.

75.30 127.91 BASALT LAPILLI TUFF: SERICITIC , WITH DISSEMINATED PYRITE
Grey, buff and brown sericite + biotite + pyrite altered basalt (?) ash and lapilli tuff; similar to 51.23-75.30 metres except for decreased silica and pyrite. Lapilli (<3cm, subangular) consist of grey to buff sericite ± dolomite (?) altered mafic volcanic clasts. Matrix consists of brown biotite + sericite + chlorite + pyrite altered ash tuff. Disseminated and stringer fine grained pyrite (5-10%) is confined mainly to the matrix. Lower contact gradational over 1.0 metres.

86.10 86.46 BASALTIC DYKE: Dark green to black basalt dyke. Upper contact chlorite slip @ 30° to CA. Lower contact irregular @ 60° to CA.

90.50 90.65 Broken core; vuggy quartz vein (<1cm) infilling chlorite + pyrite altered shear zone @ 60° to CA.

102.80 103.30 Broken and ground core.

118.40 118.70 Broken core; chlorite + sericite altered shear @ 30° to CA. Minor gouge (<5mm).

127.91 171.63 BASALT LAPILLI TUFF: SILICIFIED , WITH DISSEMINATED PYRITE
Grey and brownish black altered fragmental unit that grades from a homolithic lapilli tuff at the top of the interval to basalt flow breccia at the bottom. Grey silica altered basalt fragments (angular, <4cm) in a brownish black chlorite + pyrite + biotite ± cordierite matrix. Fragments are larger and in part interlocking towards bottom of the interval.

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Cordierite (pale brown, <5mm, subhedral) increase towards bottom of interval. Pyrite (3%) occurs as heavy disseminations mainly confined to the matrix. Lower contact brecciated.										
171.63	177.57	BASALT FLOW: SILICIFIED , WITH DISSEMINATED PYRITE Blackish brown, silica + chlorite + biotite altered, amygdaloidal (<1cm, oval to wispy and infilled by quartz ± pyrite), fine grained to aphanitic basalt flow. Quartz ± pyrite (2-3%) veinlets throughout interval.										
177.57	178.00	FAULT Broken core and minor (<1cm) sandy gouge. Chlorite slips @ 25° to CA.										
178.00	203.50	BASALT LAPILLI TUFF: SILICIFIED , WITH DISSEMINATED PYRITE Similar to 127.91-171.63 metres; this interval may be repeated by fault above (177.5-178.00 metres). Trace disseminated chalcopyrite. Lower contact brecciated. 185.40 185.80 FAULT Broken core; minor gouge (<1cm) @ 50° to CA. 201.65 201.95 FAULT Broken core, minor gouge (5mm) @ 20° to CA.										
203.50	219.55	BASALT FLOW: SILICIFIED , WITH DISSEMINATED PYRITE Greyish brown to black, fine grained to aphanitic basalt flow. Silica + pyrite (3-5%) veinlets and irregular zones crosscut pervasive biotite + chlorite + cordierite (<5mm, subhedral) + pyrite (disseminated) alteration. Lower contact sharp @ 60° to CA.										
219.55	224.94	BASALT FLOW: PROPYLITIC Dark green to black, propylitically altered, fine grained to aphanitic basalt flow. Chlorite + epidote veinlets with albite envelopes at top of interval (219.35 - 220.00 metres). Trace disseminated pyrite.										
224.94		EOH										

GEOTECHNICAL RECORD

PROPERTY: Tulsequah Chief ROCK QUALITY DETERMINATIONS
HOLE NUMBER: TCU92-38 DATE: Sept.17-18, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.00	2.45	2.45	2.25	91.84%	1.78	72.65%
2.45	5.49	3.04	3.04	100.00%	3.05	100.33%
5.49	8.53	3.04	3.04	100.00%	2.86	94.08%
8.53	11.58	3.05	3.05	100.00%	2.68	87.87%
11.58	14.63	3.05	3.05	100.00%	2.75	90.16%
14.63	17.68	3.05	2.96	97.05%	1.27	41.64%
17.68	20.73	3.05	3.05	100.00%	2.55	83.61%
20.73	23.77	3.04	3.04	100.00%	2.60	85.53%
23.77	26.82	3.05	3.07	100.66%	2.83	92.79%
26.82	29.26	2.44	2.44	100.00%	2.06	84.43%
29.26	32.31	3.05	3.04	99.67%	2.38	78.03%
32.31	35.36	3.05	2.96	97.05%	2.61	85.57%
35.36	39.01	3.65	3.84	105.21%	3.50	95.89%
39.[illegible]	42.06	3.05	2.98	97.70%	2.69	88.20%
42.06	45.11	3.05	3.05	100.00%	2.63	86.23%
45.11	48.16	3.05	3.03	99.34%	2.41	79.02%
48.16	51.21	3.05	3.05	100.00%	2.79	91.48%
51.21	54.25	3.04	3.04	100.00%	2.01	66.12%
54.25	57.30	3.05	3.05	100.00%	2.74	89.84%
57.30	60.35	3.05	3.05	100.00%	2.00	65.57%
60.35	63.40	3.05	3.05	100.00%	2.61	85.57%
63.40	66.45	3.05	3.05	100.00%	2.99	98.03%
66.45	69.49	3.04	3.04	100.00%	2.84	93.42%
69.49	72.54	3.05	3.02	99.02%	2.87	94.10%
72.54	75.59	3.05	3.07	100.66%	3.00	98.36%
75.59	78.64	3.05	3.03	99.34%	2.94	96.39%
78.64	81.69	3.05	3.05	100.00%	2.96	97.05%
81.69	84.73	3.04	2.99	98.36%	2.85	93.75%
84.73	87.78	3.05	3.09	101.31%	2.47	80.98%
87.78	90.83	3.05	3.04	99.67%	1.67	54.75%
90.83	93.88	3.05	3.04	99.67%	2.99	98.03%
93.88	96.93	3.05	3.05	100.00%	2.85	93.44%
96.93	99.97	3.04	2.90	95.39%	2.12	69.74%
99.97	103.02	3.05	3.03	99.34%	1.45	47.54%
103.02	106.07	3.05	3.05	100.00%	2.46	80.66%
106.07	109.12	3.05	3.05	100.00%	3.05	100.00%
109.12	112.17	3.05	3.02	99.02%	2.57	84.26%
112.17	115.21	3.04	3.02	99.34%	2.82	92.76%
115.21	118.26	3.05	3.04	99.67%	2.51	82.30%
118.26	121.31	3.05	3.02	99.02%	2.15	70.49%
121.31	124.36	3.05	3.02	99.02%	2.22	72.79%
124.36	127.41	3.05	3.10	101.64%	2.37	77.70%
127.41	130.45	3.04	3.04	100.00%	1.62	53.29%
130.45	133.50	3.05	3.05	100.00%	1.98	64.92%
133.50	136.55	3.05	3.05	100.00%	2.35	77.05%
136.55	139.60	3.05	3.05	100.00%	2.74	89.84%
139.60	142.65	3.05	3.05	100.00%	2.56	83.93%
142.65	145.65	3.00	3.04	101.33%	2.71	90.33%
145.65	148.74	3.09	3.02	97.73%	2.85	92.23%
148.74	151.79	3.05	3.08	100.98%	2.8	91.80%
151.79	154.84	3.05	3.03	99.34%	2.97	97.38%
154.84	157.89	3.05	3.07	100.66%	2.78	91.15%
157.89	160.93	3.04	3.04	100.00%	2.54	83.55%
160.93	163.98	3.05	3.07	100.66%	2.83	92.79%
163.98	167.03	3.05	3.03	99.34%	2.76	90.49%
167.03	170.08	3.05	3.00	98.36%	2.81	92.13%
170.08	173.13	3.05	3.10	101.64%	2.71	88.85%
173.13	176.17	3.04	2.99	98.36%	2.76	90.79%
176.17	179.22	3.05	2.84	93.11%	0.82	26.89%
179.22	182.27	3.05	3.00	98.36%	2.58	84.59%
182.27	185.32	3.05	3.07	100.66%	2.84	93.11%

Hole No: TCU92-39
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15185.78
(metres) E: 10735.89

Azimuth: 109.0
Dip: .6
Length (m): 182.57
Elevation: 112.30 (metres)
Purpose: Test G-Zone.

Core Size: BQ
Drill Name: Connors
Contractor: Boisvenu Drilling Limited
Started: September 19, 1992
Completed: September 21, 1992
Recovery: Good

Date Logged: September 22, 1992
Logged By: G.L. Dawson
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:25am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	109.0	.6															
3.0	108.9	.7	33.3	110.0	1.2	63.7	110.9	2.1	94.0	112.0	3.1	124.3	113.2	3.8	154.6	114.2	4.6
9.1	109.0	.6	39.4	110.2	1.5	69.7	111.1	2.2	100.1	112.2	3.3	130.4	113.4	3.9	160.7	114.3	4.7
12.1	109.1	.5	42.5	110.2	1.6	72.8	111.2	2.3	103.1	112.2	3.3	133.4	113.5	4.0	163.7	114.3	4.7
15.2	109.2	.5	45.5	110.3	1.6	75.8	111.3	2.4	106.1	112.3	3.4	136.4	113.6	4.1	166.8	114.3	4.7
18.2	109.4	.6	48.5	110.4	1.7	78.8	111.4	2.6	109.2	112.4	3.5	139.5	113.7	4.2	169.8	114.3	4.7
21.2	109.6	.8	51.5	110.5	1.8	81.9	111.6	2.7	112.2	112.5	3.5	142.5	113.8	4.2	172.8	114.3	4.7
24.3	109.7	.9	54.6	110.5	1.8	84.9	111.7	2.8	115.2	112.5	3.5	145.5	113.9	4.3	175.9	114.3	4.7
27.3	109.8	1.0	57.6	110.7	1.9	87.9	111.8	2.9	118.3	112.8	3.5	148.6	114.0	4.4	178.9	114.3	4.7
30.3	109.9	1.1	60.6	110.8	2.0	91.0	111.8	2.9	121.3	113.0	3.6	151.6	114.1	4.5			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	10.10	BASALT FLOW: Medium to dark green, fine grained basalt flow. Rare quartz + chlorite veins. Lower contact sharp and wavy @ 50° to CA.										
10.10	15.24	DACITE FLOW: PROPYLITIC Greyish green to buff, fine grained dacite flow and flow breccia. Chlorite veinlets with albite envelopes (<1cm) and irregular zones of pervasive albite. Lower contact sharp @ 60° to CA.										
15.24	18.20	DACITE LAPILLI TUFF: HEMATITIC Green and maroon, propylitically altered, heterolithic dacite lapilli tuff. Lapilli (<1cm) are mainly felsic volcanic, subangular and matrix supported. Rare chlorite ± epidote veinlets with albite envelopes (<5mm). Lower contact sharp @ 50° to CA.										
18.20	22.80	SLOKO RYHOLITE DYKE:										

GEOTECHNICAL RECORD

PROPERTY: Tulsequah Chief ROCK QUALITY DETERMINATIONS
HOLE NUMBER: TCU92-38 DATE: Sept.17-18, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
185.32	188.37	3.05	2.90	95.08%	2.18	71.48%
188.37	191.41	3.04	3.04	100.00%	2.11	69.41%
191.41	194.46	3.05	3.17	103.93%	2.56	83.93%
194.46	197.51	3.05	3.05	100.00%	2.04	66.89%
197.51	200.56	3.05	3.00	98.36%	1.24	40.66%
200.56	203.61	3.05	2.90	95.08%	1.46	47.87%
203.61	206.65	3.04	3.34	109.87%	2.86	94.08%
206.65	209.70	3.05	2.95	96.72%	2.60	85.25%
209.70	212.75	3.05	3.02	99.02%	2.64	86.56%
212.75	215.80	3.05	3.05	100.00%	2.66	87.21%
215.80	218.85	3.05	3.05	100.00%	2.28	74.75%
218.85	221.89	3.04	3.10	101.97%	2.59	85.20%
221.89	224.94	3.05	3.00	98.36%	1.82	59.67%

224.94 END OF HOLE

* Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Buff, fine grained to aphanitic Sloko rhyolite dyke. Flow banded @ lower contact (50° to CA). Lower contact sharp @ 60° to CA.										
22.80	26.00	DACITE LAPILLI TUFF: HEMATITIC Similar to 15.24-18.20 metres. Weak layering or foliation @ 70° to CA.										
26.00	50.20	DACITE FLOW: PROPYLITIC Greyish green and maroon grey, propylitically altered, fine grained dacite flow and flow breccia; feldspar (1-2mm) phyric in part. Chlorite veinlets and microfractures with albite envelopes. Irregular zones of albite alteration. Lower contact @ 70° to CA. 35.06 36.02 BASALTIC DYKE: Dark green to black, fine grained to aphanitic basalt dyke. Upper contact sharp @ 30° to CA. Lower contact sharp @ 50° to CA. 36.52 39.52 BASALTIC DYKE: Similar to 35.06-36.02 metres. Upper contact sharp @ 45° to CA. Lower contact irregular @ 60° to CA.										
50.20	51.38	VOLCANIC SEDIMENTS: Thinly bedded, brownish black, tuffaceous argillite and cream to grey chert. Foliation @ 70° to CA. Lower contact sharp @ 50° to CA.										
51.38	182.57	BASALT FLOW: SILICIFIED Dark green to black, siliceous, fine grained to aphanitic basalt flow and flow breccia; locally feldspar (<2mm) phyric and amygdaloidal (quartz ± chlorite). Minor interflow ash tuff. Irregular zones of epidote + chlorite + albite alteration; chlorite veinlets with bluish green silica envelopes (<1cm). Disseminated and stringer pyrite (1%). 67.30 67.50 FAULT Broken core with clay gouge (5mm) @ 45 to CA. 68.12 68.36 FAULT Broken core with clay gouge (1cm) @ 45° to CA. 71.93 75.17 BASALT FLOW: Buff and maroon, carbonate + silica + hematite altered aphanitic basalt flow. Black mineral (tourmaline ?) in veinlets and microfractures. Upper and lower contact @ 75° to CA. 105.62 106.04 FAULT Carbonate + quartz healed fault breccia; 1cm clay gouge @ 70° to CA. 167.15 167.30 FAULT Broken core with clay gouge (<1cm); carbonate and chlorite altered.										
182.57		EOH										

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: TCU92-39 DATE: Sept. 20-22, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.00	4.57	4.57	4.25	93.00%	3.95	86.43%
4.57	6.10	1.53	1.62	105.88%	1.16	75.82%
6.10	9.14	3.04	3.02	99.34%	2.39	78.62%
9.14	12.19	3.05	3.05	100.00%	2.36	77.38%
12.19	15.24	3.05	3.05	100.00%	2.75	90.16%
15.24	18.29	3.05	3.05	100.00%	2.62	85.90%
18.29	21.34	3.05	2.96	97.05%	1.91	62.62%
21.34	24.38	3.04	3.07	100.99%	2.43	79.93%
24.38	27.43	3.05	3.11	101.97%	2.24	73.44%
27.43	30.48	3.05	3.01	98.69%	2.40	78.69%
30.48	33.53	3.05	3.07	100.66%	2.35	77.05%
33.53	36.58	3.05	3.05	100.00%	2.32	76.07%
36.58	39.62	3.04	3.05	100.33%	2.14	70.39%
39.62	42.67	3.05	3.05	100.00%	2.41	79.02%
42.67	45.72	3.05	3.05	100.00%	2.28	74.75%
45.72	48.77	3.05	3.05	100.00%	1.82	59.67%
48.77	51.82	3.05	3.05	100.00%	2.18	71.48%
51.82	54.86	3.04	3.08	101.32%	2.16	71.05%
54.86	57.91	3.05	3.10	101.64%	1.39	45.57%
57.91	60.96	3.05	2.92	95.74%	1.50	49.18%
60.96	64.01	3.05	3.05	100.00%	1.76	57.70%
64.01	67.06	3.05	3.09	101.31%	2.45	80.33%
67.06	68.88	1.82	1.82	100.00%	0.35	19.23%
68.88	71.93	3.05	3.05	100.00%	2.22	72.79%
71.93	74.98	3.05	3.07	100.66%	1.24	40.66%
74.98	78.03	3.05	2.95	96.72%	1.83	60.00%
78.03	81.08	3.05	2.91	95.41%	2.06	67.54%
81.08	84.12	3.04	3.00	98.68%	1.31	43.09%
84.12	87.17	3.05	3.30	108.20%	2.13	69.84%
87.17	90.22	3.05	3.05	100.00%	2.28	74.75%
90.22	93.27	3.05	3.00	98.36%	2.38	78.03%
93.27	96.32	3.05	2.96	97.05%	1.37	44.92%
96.32	97.53	1.21	1.25	103.31%	1.02	84.30%
97.53	100.58	3.05	3.03	99.34%	2.36	77.38%
100.58	103.63	3.05	3.05	100.00%	2.46	80.66%
103.63	106.68	3.05	3.05	100.00%	0.67	21.97%
106.68	109.73	3.05	3.05	100.00%	2.10	68.85%
109.73	112.78	3.05	3.05	100.00%	2.47	80.98%
112.78	115.82	3.04	2.94	96.71%	2.05	67.43%
115.82	118.87	3.05	3.08	100.98%	1.69	55.41%
118.87	121.92	3.05	2.93	96.07%	1.01	33.11%
121.92	124.97	3.05	3.05	100.00%	0.83	27.21%
124.97	128.02	3.05	3.05	100.00%	2.56	83.93%
128.02	131.06	3.04	3.04	100.00%	2.04	67.11%
131.06	134.11	3.05	3.07	100.66%	1.66	54.43%
134.11	137.16	3.05	3.03	99.34%	2.00	65.57%
137.16	140.21	3.05	3.04	99.67%	2.66	87.21%
140.21	143.26	3.05	2.90	95.08%	2.05	67.21%
143.26	146.30	3.04	3.04	100.00%	2.56	84.21%
146.30	149.35	3.05	3.05	100.00%	2.86	93.77%
149.35	152.40	3.05	3.05	100.00%	2.25	73.77%
152.40	155.45	3.05	3.05	100.00%	2.57	84.26%
155.45	158.50	3.05	3.04	99.67%	2.66	87.21%
158.50	160.63	2.13	2.37	111.27%	1.59	74.65%
160.63	163.68	3.05	3.11	101.97%	2.81	92.13%
163.68	167.03	3.35	3.12	93.13%	2.27	67.76%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: TCU92-39 DATE: Sept. 20-22, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
167.03	170.08	3.05	3.07	100.66%	1.96	64.26%
170.08	173.13	3.05	2.92	95.74%	2.69	88.20%
173.13	176.17	3.04	3.08	101.32%	2.68	88.16%
176.17	179.22	3.05	2.98	97.70%	2.65	86.89%
179.22	182.57	3.35	3.46	103.28%	2.91	86.87%

182.57 END OF HOLE

- Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU92-40
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15184.20
(metres) E: 10735.27

Azimuth: 155.3
Dip: .0
Length (m): 229.21
Elevation: 112.28
(metres)
Purpose:

Core Size: BQ
Drill Name: Connors
Contractor: Boisvenu Drilling Limited
Started: September 22, 1992
Completed: September 24, 1992
Recovery: Good

Date Logged: September 25, 1992
Logged By: G.L. Dawson
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:25am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	155.3	.0															
2.9	155.5	.0	41.1	156.4	.8	79.3	157.3	2.0	117.4	158.3	3.3	155.6	159.4	5.1	193.8	161.2	7.1
8.8	155.5	.1	47.0	156.4	1.1	85.1	157.5	2.3	123.3	158.4	3.6	161.5	159.6	5.4	199.6	161.5	7.3
11.7	155.6	.1	49.9	156.5	1.2	88.1	157.6	2.3	126.3	158.5	3.7	164.4	159.7	5.5	202.6	161.6	7.5
14.7	155.7	.2	52.8	156.6	1.3	91.0	157.7	2.4	129.2	158.6	3.9	167.4	159.8	5.7	205.5	161.8	7.6
17.6	155.9	.3	55.8	156.6	1.4	93.9	157.9	2.5	132.1	158.7	4.0	170.3	160.0	5.9	208.5	161.9	7.8
20.5	156.0	.3	58.7	156.7	1.5	96.9	157.9	2.6	135.1	158.8	4.1	173.2	160.1	6.1	211.4	162.1	8.0
23.5	156.1	.3	61.7	156.8	1.6	99.8	158.1	2.7	138.0	158.9	4.3	176.2	160.2	6.3	214.3	162.3	8.2
26.4	156.2	.3	64.6	156.8	1.6	102.8	158.2	2.8	140.9	159.0	4.4	179.1	160.4	6.4	217.3	162.4	8.3
29.4	156.3	.4	67.5	156.9	1.7	105.7	158.3	2.9	143.9	159.1	4.6	182.0	160.5	6.5	220.2	162.5	8.4
32.3	156.3	.4	70.5	157.0	1.8	108.6	158.4	3.0	146.8	159.1	4.7	185.0	160.7	6.6	223.1	162.7	8.6
35.2	156.4	.5	73.4	157.1	1.8	111.6	158.4	3.1	149.7	159.2	4.8	187.9	160.9	6.8	226.1	162.7	8.6
38.2	156.4	.7	76.3	157.1	1.9	114.5	158.4	3.2	152.7	159.3	5.0	190.8	161.0	6.9	229.0	162.9	8.8

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	.13	CASING										
.13	7.60	BASALT FLOW: CHLORITIC Dark green to black, chlorite altered aphanitic basalt flow and flow breccia; silicified in part. Rare quartz ± chlorite veins (<3cm) @ 50° to CA. Lower contact sharp and irregular @ 65° to CA.										
7.60	14.65	DACITE LAPILLI TUFF: HEMATITIC Dark green and maroon, propylitically altered, heterolithic dacite lapilli tuff. Lapilli (<2cm) are subangular and matrix supported. Chlorite + epidote veinlets with albite envelopes (<1cm). Lower contact sharp @ 55° to CA. 13.50 14.00 Broken and ground core.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
14.65	18.26	SLOKO RYHOLITE DYKE: Flow banded, buff to pinkish brown, fine grained to aphanitic Sloko rhyolite dyke. Flow banding @ 70° to CA. Lower contact @ 60° to CA.										
18.26	29.50	DACITE LAPILLI TUFF: HEMATITIC Similar to 7.60-14.65 metres; some large lapilli (>3cm) to breccia size clasts of underlying feldspar phyric dacite flow. Lower contact infilled by basalt dyke (10cm) @ 40° to CA.										
29.50	34.95	DACITE FLOW: PROPYLITIC Maroon (hematitic), propylitically altered, feldspar (<3mm) phyric fine grained to aphanitic dacite flow and flow breccia. Quartz veins (<1cm) @ 50° to CA. Lower contact gradational over 10cm.										
34.95	57.32	DACITE FLOW: PROPYLITIC Greyish green ± maroon, propylitically altered, feldspar (<3mm) phyric, fine grained to aphanitic dacite flow and flow breccia. Chlorite + epidote veinlets with albite envelopes (<4cm). Minor quartz ± chlorite ± epidote veins (<4cm) @ 50° to CA. Lower contact sharp @ 45° to CA. 55.88 56.12 BASALTIC DYKE: Medium to dark green, fine grained to aphanitic basalt dyke. Upper contact sharp and irregular @ 80° to CA. Lower contact sharp @ 40° to CA.										
57.32	62.75	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Layered (<1cm), grey to buff, sericite ± chlorite altered dacite ash tuff, grey chert, minor gypsum (?), and pyrite. Some lapilli size felsic volcanic clasts. Disseminated and bands of pyrite (3-5%) throughout interval. Banding @ 80° to CA. Lower contact (fault) sharp @ 40° to CA.	25144 25145 25146	57.32 59.32 61.32	59.32 61.32 62.75	2.00 2.00 1.43	.00 .00 .00	.07 .08 .07	.01 .02 .01	.01 .01 .01	.05 .01 .01	
62.75	62.98	FAULT Broken core and minor gouge. Chlorite + clay altered @ 30° to CA.										
62.98	64.10	BASALTIC DYKE: Dark green to black, aphanitic basalt dyke. Lower contact sharp @ 40° to CA. (dyke infilling above fault zone).										
64.10	66.87	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Foliated, wispy layers of white to grey chert and black chlorite ± sericite altered dacite ash and lapilli tuff. Disseminated fine grained pyrite (5-7%). Layering @ 50-60° to CA.	25147 25148	64.10 66.10	66.10 66.87	2.00 .77	.00 .00	.02 .06	.00 .00	.01 .01	.01 .01	
66.87	68.65	BASALTIC DYKE: Dark green to black, fine grained to aphanitic basalt dyke. Lower contact sharp @ 60° to CA.										
68.65	78.42	BASALT LAPILLI TUFF: SILICIFIED , WITH DISSEMINATED PYRITE										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Grey, silica + sericite + chlorite altered basalt (?) lapilli tuff; in part biotite altered. Disseminated pyrite (3-5%). Weak foliation @ 50-60° to CA.	25149	68.65	70.65	2.00	.00	.01	.01	.01	.01	
			25150	70.65	72.65	2.00	.00	.01	.01	.01	.01	
			25151	72.65	74.65	2.00	.00	.09	.04	.01	.01	
			25152	74.65	76.65	2.00	.00	.04	.02	.01	.01	
			25153	76.65	78.42	1.77	.00	.01	.05	.01	.01	
78.42	79.02	BASALTIC DYKE: Black, aphanitic basalt dyke. Upper and lower contact sharp and irregular @ 80° to CA. 78.42 78.75 Broken and ground core.										
79.02	89.50	BASALT LAPILLI TUFF: SILICIFIED , WITH DISSEMINATED PYRITE Similar to 68.65-78.42 metres.	25154	79.02	81.02	2.00	.00	.03	.06	.01	.01	
			25155	81.02	83.02	2.00	.00	.01	.01	.01	.01	
			25156	83.02	85.02	2.00	.00	.02	.01	.01	.01	
			25157	85.02	87.02	2.00	.00	.03	.00	.01	.01	
			25158	87.02	89.02	2.00	.00	.07	.01	.01	.01	
			25159	89.02	89.50	.48	.00	.01	.00	.01	.01	
89.50	97.62	BASALTIC DYKE: Dark green to black, aphanitic basalt dyke. Carbonate + clay ± albite + chlorite altered brecciated section @ upper (89.50-94.50 metres) and lower (96.70-97.62 metres) contact. Lower contact sharp @ 50° to CA.										
97.62	118.86	BASALT LAPILLI TUFF: SILICIFIED , WITH DISSEMINATED PYRITE White to grey, silica + sericite + pyrite altered basalt lapilli tuff; lapilli are quartz amygdaloidal basalt. Lower contact sharp @ 118.86 metres. 101.14 103.78 Brecciated clay + chlorite altered interval. 108.03 110.61 Section with increased white chert, disseminated and stringer pyrite (7%), and minor disseminated chalcopyrite. Weak banding @ 50° to CA.	25160	97.62	99.62	2.00	.00	.01	.00	.01	.01	
			25161	99.62	101.14	1.52	.00	.01	.00	.01	.01	
			25162	101.14	103.78	2.64	.00	.02	.01	.01	.01	
			25163	103.78	105.78	2.00	.00	.03	.01	.01	.01	
			25164	105.78	108.03	2.25	.00	.03	.01	.01	.02	
			25165	108.03	110.61	2.58	.00	.11	.24	.01	.01	
			25166	110.61	112.61	2.00	.00	.02	.00	.01	.01	
			25167	112.61	114.61	2.00	.00	.03	.00	.01	.03	
			25168	114.61	116.61	2.00	.00	.02	.01	.01	.05	
			25169	116.61	118.61	2.00	.00	.01	.00	.01	.02	
118.86	143.87	BASALT LAPILLI TUFF: SILICIFIED , WITH STRINGER PYRITE Dark greyish green to black, silica + chlorite altered, basalt lapilli tuff. Lapilli (<3cm, subangular) consist of altered amygdaloidal basalt, white chert (subrounded, <1cm), and pyrite clasts. Stringer and disseminated pyrite (5-7%). Lower contact gradational. 135.65 135.94 Broken and ground core.										
143.87	190.00	BASALT ASH TUFF: SERICITIC , WITH DISSEMINATED PYRITE Grey, sericite + pyrite (disseminated and stringer, 2-5%) altered basalt ash tuff. Pyrite + quartz stringers with chlorite envelopes envelopes (<1cm). Minor light brown zones of biotite + cordierite (<4mm)										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		alteration. Weak foliation @ 50° to CA. Lower contact sharp @ 40° to CA.										
190.00	229.21	BASALT FLOW: SILICIFIED , WITH DISSEMINATED PYRITE Dark grey to black, amygdaloidal, aphanitic basalt flow and flow breccia; some feldspar (<1mm) phyric and silicified sections. Amygdules (<5mm) infilled by quartz ± pyrite ± epidote. Disseminated and stringer pyrite (2-3%). 205.25 205.44 Broken and ground core. 209.92 210.20 Broken and ground core.										
229.21		EOH										

Hole No: TCU92-40
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15184.20
(metres) E: 10735.27

Azimuth: 155.3
Dip: .0
Length (m): 229.21
Elevation: 112.28
(metres)
Purpose:

Core Size: BQ
Drill Name: Connors
Contractor: Boisvenu Drilling Limited

Started: September 22, 1992
Completed: September 24, 1992
Recovery: Good

Date Logged: September 25, 1992
Logged By: G.L. Dawson

Date Re-logged:
Re-logged By:

Report Printed: 19 Feb, 1993
10:06pm

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25144	57.32	59.32	2.00		2.20	.00	.06	.01	.01	.05		3.2	129	102	719	4.99	108	3	28	11	
25145	59.32	61.32	2.00		1.29	.00	.07	.02	.01	.01		1.6	192	38	133	5.77	67	0	7	13	
25146	61.32	62.75	1.43		1.11	.00	.06	.01	.01	.01		2.1	89	36	36	5.23	103	0	4	12	
25147	64.10	66.10	2.00		.56	.00	.02	.00	.01	.01		.4	33	29	95	6.54	95	0	2	16	
25148	66.10	66.87	.77		.64	.00	.05	.00	.01	.01		.1	23	19	65	5.42	72	0	2	20	
25149	68.65	70.65	2.00		.67	.00	.01	.01	.01	.01		.1	135	14	81	6.12	65	0	4	13	
25150	70.65	72.65	2.00		.69	.00	.01	.01	.01	.01		.3	149	11	84	5.75	58	0	3	23	
25151	72.65	74.65	2.00		1.21	.00	.08	.04	.01	.01		.3	369	11	94	5.97	58	0	2	21	
25152	74.65	76.65	2.00		.87	.00	.04	.02	.01	.01		.3	204	10	103	6.74	46	0	2	23	
25153	76.65	78.42	1.77		1.12	.00	.01	.05	.01	.01		.2	474	6	97	5.09	31	0	2	29	
25154	79.02	81.02	2.00		1.33	.00	.03	.06	.01	.01		.2	586	15	80	4.80	39	0	3	28	
25155	81.02	83.02	2.00		.58	.00	.01	.01	.01	.01		.1	63	12	76	5.29	29	0	2	22	
25156	83.02	85.02	2.00		.72	.00	.02	.01	.01	.01		.3	145	10	110	5.59	20	0	2	39	
25157	85.02	87.02	2.00		.60	.00	.03	.00	.01	.01		.3	49	14	55	3.94	53	0	2	28	
25158	87.02	89.02	2.00		.77	.00	.06	.01	.01	.01		1.4	95	27	65	7.49	48	0	2	21	
25159	89.02	89.50	.48		.52	.00	.01	.00	.01	.01		.7	13	26	69	5.66	33	0	2	16	
25160	97.62	99.62	2.00		.52	.00	.01	.00	.01	.01		.5	27	19	105	7.41	36	0	2	16	
25161	99.62	101.14	1.52		.53	.00	.01	.00	.01	.01		.3	15	14	29	3.26	47	0	2	32	
25162	101.14	103.78	2.64		.61	.00	.02	.01	.01	.01		1.2	68	23	77	6.07	48	0	9	18	
25163	103.78	105.78	2.00		.66	.00	.03	.01	.01	.01		.1	78	15	164	3.67	44	1	2	42	
25164	105.78	108.03	2.25		.75	.00	.03	.01	.01	.02		.4	102	50	191	6.97	51	1	6	14	
25165	108.03	110.61	2.58		3.70	.00	.10	.24	.01	.01		2.3	2248	37	94	7.35	26	1	32	12	
25166	110.61	112.61	2.00		.58	.00	.02	.00	.01	.01		.3	40	13	137	5.02	36	0	2	25	
25167	112.61	114.61	2.00		.73	.00	.03	.00	.01	.03		.3	20	9	322	5.26	54	2	2	24	
25168	114.61	116.61	2.00		.89	.00	.02	.01	.01	.05		.3	70	9	539	5.09	31	3	2	40	
25169	116.61	118.61	2.00		.58	.00	.01	.00	.01	.02		.2	21	9	229	5.51	28	0	2	24	

Hole No: TCU92-40
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15184.20
(metres) E: 10735.27

Azimuth: 155.3
Dip: .0
Length (m): 229.21
Elevation: 112.28
(metres)
Purpose:

Core Size: BQ
Drill Name: Connors
Contractor: Boisvenu Drilling Limited

Started: September 22, 1992
Completed: September 24, 1992
Recovery: Good

Date Logged: September 25, 1992
Logged By: G.L. Dawson

Date Re-logged:
Re-logged By:

Report Printed: 21 Feb, 1993
4:31pm

Sample No.	From (m)	To (m)	Inter-val (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25144	57.32	59.32	2.00	2	5	9	149	5	1	44	2	3	.53	3	15	.17	.01	2	1
25145	59.32	61.32	2.00	2	3	14	431	5	1	29	3	8	.94	3	4	.55	.01	2	1
25146	61.32	62.75	1.43	2	5	13	136	5	1	18	2	4	.49	3	3	.16	.01	2	1
25147	64.10	66.10	2.00	1	2	20	780	5	1	86	2	16	.79	3	2	1.18	.02	2	1
25148	66.10	66.87	.77	1	3	14	941	5	1	72	2	16	.74	3	10	1.35	.02	2	1
25149	68.65	70.65	2.00	1	4	13	1242	5	1	25	2	26	.42	2	7	2.13	.09	2	1
25150	70.65	72.65	2.00	1	3	13	1732	5	2	14	2	32	.30	5	3	2.47	.11	2	1
25151	72.65	74.65	2.00	1	1	15	1931	5	1	15	2	39	.28	3	1	3.07	.08	4	1
25152	74.65	76.65	2.00	1	2	20	1542	5	1	20	2	27	.34	3	6	3.00	.06	4	1
25153	76.65	78.42	1.77	1	2	17	1574	5	1	19	2	25	.49	4	2	2.60	.08	2	1
25154	79.02	81.02	2.00	1	3	18	1219	5	1	28	2	17	.44	4	1	1.98	.03	3	1
25155	81.02	83.02	2.00	1	1	10	1048	5	1	33	2	12	.62	5	2	1.84	.01	2	1
25156	83.02	85.02	2.00	4	2	12	1101	5	1	24	2	17	.41	4	7	2.47	.03	2	1
25157	85.02	87.02	2.00	4	2	10	640	5	1	37	2	10	.47	5	3	1.10	.01	2	1
25158	87.02	89.02	2.00	2	6	19	846	5	1	70	3	22	.97	2	6	1.85	.01	5	1
25159	89.02	89.50	.48	1	1	13	1560	5	1	117	2	6	2.14	2	3	1.39	.01	2	1
25160	97.62	99.62	2.00	2	3	12	1361	5	1	28	2	16	.49	2	9	2.99	.02	2	1
25161	99.62	101.14	1.52	1	2	11	433	5	1	23	3	5	.45	4	3	.80	.01	2	1
25162	101.14	103.78	2.64	1	3	17	1075	5	1	54	2	5	1.48	2	4	1.49	.01	3	1
25163	103.78	105.78	2.00	1	1	12	813	5	1	24	2	7	.43	5	1	1.40	.01	2	1
25164	105.78	108.03	2.25	8	4	18	580	5	1	26	2	8	.41	2	15	1.05	.01	2	1
25165	108.03	110.61	2.58	9	4	13	194	5	1	34	2	4	.42	2	4	.23	.01	2	1
25166	110.61	112.61	2.00	1	3	11	1026	5	1	43	2	14	.65	3	4	1.79	.01	2	1
25167	112.61	114.61	2.00	1	1	12	1026	5	1	26	2	15	.45	3	1	1.92	.01	2	1
25168	114.61	116.61	2.00	1	4	10	1373	5	1	62	2	12	1.57	3	14	2.13	.01	2	1
25169	116.61	118.61	2.00	1	2	12	1212	5	1	12	2	36	.36	2	3	3.14	.05	4	1

GEOTECHNICAL RECORD

PROPERTY: Tulsequah Chief
HOLE NUMBER: TCU92-40

ROCK QUALITY DETERMINATIONS
Sept. 23-25, 1992

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.00	2.13	2.13	1.93	90.61%	1.56	73.24%
2.13	5.18	3.05	3.04	99.67%	2.48	81.31%
5.18	8.23	3.05	3.01	98.69%	2.74	89.84%
8.23	10.67	2.44	2.67	109.43%	1.93	79.10%
10.67	13.72	3.05	3.11	101.97%	1.82	59.67%
13.72	16.15	2.43	2.43	100.00%	0.68	27.98%
16.15	18.29	2.14	1.68	78.50%	0.81	37.85%
18.29	20.42	2.13	2.25	105.63%	1.78	83.57%
20.42	23.45	3.03	3.07	101.32%	1.58	52.15%
23.45	26.52	3.07	3.05	99.35%	2.20	71.66%
26.52	29.57	3.05	3.05	100.00%	1.24	40.66%
29.57	32.61	3.04	3.02	99.34%	0.54	17.76%
32.61	35.66	3.05	2.82	92.46%	2.25	73.77%
35.66	38.71	3.05	2.96	97.05%	2.64	86.56%
38.71	41.76	3.05	3.04	99.67%	2.71	88.85%
41.76	44.81	3.05	3.05	100.00%	2.42	79.34%
44.81	47.85	3.04	3.04	100.00%	2.37	77.96%
47.85	50.90	3.05	3.05	100.00%	2.38	78.03%
50.90	53.95	3.05	3.07	100.66%	2.30	75.41%
53.95	57.00	3.05	3.06	100.33%	2.26	74.10%
57.00	60.05	3.05	3.04	99.67%	2.27	74.43%
60.05	63.09	3.04	3.09	101.64%	1.91	62.83%
63.09	66.14	3.05	2.99	98.03%	2.85	93.44%
66.14	69.19	3.05	3.04	99.67%	2.71	88.85%
69.19	72.24	3.05	3.04	99.67%	2.80	91.80%
72.24	75.29	3.05	3.04	99.67%	2.19	71.80%
75.29	78.33	3.04	2.99	98.36%	2.01	66.12%
78.33	81.38	3.05	2.76	90.49%	1.92	62.95%
81.38	84.43	3.05	3.05	100.00%	1.37	44.92%
84.43	87.48	3.05	3.08	100.98%	1.83	60.00%
87.48	90.53	3.05	3.03	99.34%	1.81	59.34%
90.53	93.57	3.04	3.07	100.99%	2.40	78.95%
93.57	96.62	3.05	3.05	100.00%	2.24	73.44%
96.62	99.67	3.05	3.04	99.67%	2.60	85.25%
99.67	102.72	3.05	3.06	100.33%	1.94	63.61%
102.72	105.77	3.05	3.11	101.97%	2.59	84.92%
105.77	108.81	3.04	3.00	98.68%	2.81	92.43%
108.81	111.86	3.05	3.02	99.02%	2.36	77.38%
111.86	114.91	3.05	3.00	98.36%	2.51	82.30%
114.91	117.96	3.05	3.05	100.00%	2.34	76.72%
117.96	119.78	1.82	1.95	107.14%	1.18	64.84%
119.78	123.14	3.36	3.12	92.86%	2.73	81.25%
123.14	126.19	3.05	3.00	98.36%	1.66	54.43%
126.19	129.24	3.05	3.18	104.26%	2.28	74.75%
129.24	131.37	2.13	2.01	94.37%	0.75	35.21%
131.37	133.20	1.83	1.87	102.19%	1.31	71.58%
133.20	135.94	2.74	2.64	96.35%	1.45	52.92%
135.94	138.38	2.44	2.4	98.36%	0.67	27.46%
138.38	140.82	2.44	2.47	101.23%	1.60	65.57%
140.82	143.87	3.05	2.86	93.77%	2.16	70.82%
143.87	146.00	2.13	2.38	111.74%	1.61	75.59%
146.00	148.44	2.44	2.35	96.31%	1.12	45.90%
148.44	151.49	3.05	3.03	99.34%	1.14	37.38%
151.49	153.62	2.13	2.2	103.29%	1.60	75.12%
153.62	156.67	3.05	2.97	97.38%	2.64	86.56%
156.67	159.72	3.05	2.97	97.38%	2.45	80.33%
159.72	163.07	3.35	3.33	99.40%	1.88	56.12%
163.07	166.12	3.05	2.91	95.41%	2.15	70.49%
166.12	168.86	2.74	2.88	105.11%	1.63	59.49%
168.86	171.91	3.05	3.00	98.36%	2.62	85.90%
171.91	174.96	3.05	3.05	100.00%	2.00	65.57%

GEOTECHNICAL RECORD

PROPERTY: Tulsequah Chief — ROCK QUALITY DETERMINATIONS
HOLE NUMBER: TCU92-40 — Sept. 23-25, 1992

Note: All units are in metres —

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
174.96	178.00	3.04	3.06	100.66%	2.64	86.84%
178.00	181.05	3.05	2.96	97.05%	1.32	43.28%
181.05	183.18	2.13	2.14	100.47%	1.46	68.54%
183.18	186.23	3.05	2.97	97.38%	1.81	59.34%
186.23	187.76	1.53	1.67	109.15%	1.15	75.16%
187.76	190.50	2.74	2.71	98.91%	1.82	66.42%
190.50	192.02	1.52	1.62	106.58%	0.89	58.55%
192.02	194.16	2.14	2.10	98.13%	1.53	71.50%
194.16	196.60	2.44	2.38	97.54%	1.86	76.23%
196.60	199.64	3.04	3.15	103.62%	2.04	67.11%
199.64	202.69	3.05	3.01	98.69%	1.84	60.33%
202.69	205.44	2.75	2.83	102.91%	1.65	60.00%
205.44	208.48	3.04	3.15	103.62%	2.73	89.80%
208.48	210.92	2.44	2.19	89.75%	1.26	51.64%
210.92	213.66	2.74	2.64	96.35%	1.72	62.77%
213.66	216.71	3.05	2.76	90.49%	0.81	26.56%
216.71	219.76	3.05	3.04	99.67%	2.31	75.74%
219.76	222.81	3.05	2.98	97.70%	2.57	84.26%
222.81	226.16	3.35	3.37	100.60%	2.63	78.51%
226.16	229.21	3.05	3.10	101.64%	2.28	74.75%

229.21 END OF HOLE

* Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU92-41
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15543.90
(metres) E: 10596.39

Azimuth: 196.1
Dip: -56.2
Length (m): 663.25
Elevation: 113.51
(metres)
Purpose: To test AB Zone.

Core Size: NQ
Drill Name: Boyles 37A
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: September 22, 1992.
Completed: October 5, 1992.
Recovery:

Date Logged: October 5, 1992.
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:25am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip
0.0	196.1	-56.2
3.2	196.1	-56.2
9.7	196.1	-56.3
12.9	196.0	-56.3
16.1	196.0	-56.3
19.3	196.1	-56.3
22.5	196.1	-56.3
25.8	196.1	-56.3
29.0	196.1	-56.3
32.2	196.2	-56.3
35.4	196.2	-56.3
38.6	196.1	-56.3
41.8	196.1	-56.3
45.1	196.1	-56.4
48.3	196.1	-56.4
51.5	196.1	-56.5
54.7	196.1	-56.5
58.0	196.1	-56.6
61.2	196.1	-56.6
64.4	196.1	-56.7
67.6	196.1	-56.7
70.8	196.1	-56.7
74.1	196.2	-56.7
77.3	196.2	-56.7
80.5	196.3	-56.7
83.7	196.3	-56.6
86.9	196.3	-56.7
90.1	196.4	-56.6
93.4	196.4	-56.7
96.6	196.4	-56.6
99.8	196.4	-56.6
103.0	196.4	-56.6
106.2	196.5	-56.6
109.5	196.5	-56.6
112.7	196.6	-56.6
115.9	196.6	-56.6
122.3	196.7	-56.6
125.6	196.7	-56.7
128.8	196.8	-56.7
132.0	196.8	-56.7
135.2	196.9	-56.7
138.4	196.9	-56.7
141.6	196.9	-56.7
144.9	197.0	-56.7
148.1	197.0	-56.7
151.3	197.1	-56.7
154.5	197.1	-56.7
157.8	197.1	-56.7
161.0	197.1	-56.7
164.2	197.2	-56.7
167.4	197.3	-56.7
170.6	197.3	-56.7
173.9	197.4	-56.7
177.1	197.5	-56.7
180.3	197.6	-56.7
183.5	197.6	-56.7
186.7	197.6	-56.7
189.9	197.7	-56.7
193.2	197.7	-56.7
196.4	197.7	-56.7
199.6	197.8	-56.7
202.8	197.9	-56.7
206.0	197.9	-56.7
209.3	197.9	-56.8
212.5	197.9	-56.8
215.7	197.9	-56.8
218.9	197.9	-56.8
222.1	197.9	-56.8
225.4	197.9	-56.8
228.6	198.0	-56.8
235.0	198.1	-56.8
238.2	198.1	-56.8
241.5	198.1	-56.8
244.7	198.1	-56.8
247.9	198.1	-56.9
251.1	198.2	-56.9
254.3	198.2	-56.9
257.5	198.3	-56.9
260.8	198.3	-56.9
264.0	198.4	-56.9
267.2	198.4	-56.9
270.4	198.5	-56.9
273.6	198.6	-56.8
276.9	198.7	-56.7
280.1	198.8	-56.7
283.3	198.8	-56.7
286.5	198.8	-56.7
289.8	198.8	-56.7
293.0	198.8	-56.7
296.2	198.8	-56.7
299.4	198.9	-56.7
302.6	198.9	-56.7
305.8	199.0	-56.7
309.1	199.1	-56.7
312.3	199.1	-56.7
315.5	199.2	-56.7
318.7	199.2	-56.7
321.9	199.2	-56.6
325.2	199.2	-56.5
328.4	199.2	-56.5
331.6	199.2	-56.5
334.8	199.2	-56.5
338.0	199.2	-56.4
341.3	199.2	-56.4
347.7	199.2	-56.3
350.9	199.2	-56.3
354.1	199.3	-56.3
357.4	199.3	-56.3
360.6	199.3	-56.3
363.8	199.3	-56.2
367.0	199.4	-56.1
370.2	199.4	-56.1
373.5	199.4	-56.1
376.7	199.4	-56.1
379.9	199.4	-56.1
383.1	199.4	-56.1
386.3	199.5	-56.1
389.5	199.6	-56.0
392.8	199.6	-56.0
396.0	199.6	-56.0
399.2	199.6	-56.0
402.4	199.7	-56.0
405.6	199.8	-55.9
408.9	199.9	-55.8
412.1	199.9	-55.8
415.3	199.9	-55.8
418.5	199.9	-55.8
421.7	199.9	-55.8
425.0	200.0	-55.7
428.2	200.0	-55.7
431.4	200.0	-55.6
434.6	200.0	-55.6
437.8	200.0	-55.5
441.1	200.0	-55.5
444.3	200.0	-55.5
447.5	200.1	-55.4
450.7	200.2	-55.3
453.9	200.2	-55.3
460.4	200.2	-55.2
463.6	200.2	-55.2
466.8	200.2	-55.2
470.0	200.2	-55.2
473.3	200.2	-55.2
476.5	200.2	-55.2
479.7	200.2	-55.2
482.9	200.2	-55.2
486.1	200.3	-55.1
489.4	200.3	-55.1
492.6	200.3	-55.1
495.8	200.3	-55.0
499.0	200.3	-55.0
502.2	200.3	-55.0
505.5	200.3	-54.8
508.7	200.3	-54.9
511.9	200.3	-54.8
515.1	200.4	-54.8
518.3	200.4	-54.8
521.5	200.5	-54.8
524.8	200.5	-54.8
528.0	200.6	-54.8
531.2	200.5	-54.8
534.4	200.5	-54.8
537.6	200.5	-54.8
540.9	200.5	-54.7
544.1	200.5	-54.7
547.3	200.5	-54.7
550.5	200.5	-54.7
553.7	200.5	-54.7
557.0	200.5	-54.7
560.2	200.4	-54.7
563.4	200.4	-54.7
566.6	200.5	-54.8
573.0	200.6	-54.8
576.3	200.6	-54.7
579.5	200.6	-54.7
582.7	200.6	-54.7
585.9	200.6	-54.7
589.2	200.6	-54.7
592.4	200.6	-54.7
595.6	200.6	-54.7
598.8	200.6	-54.7
602.0	200.5	-54.7
605.3	200.5	-54.7
608.5	200.5	-54.7
611.7	200.5	-54.7
614.9	200.5	-54.7
618.1	200.5	-54.7
621.3	200.5	-54.7
624.6	200.4	-54.7
627.8	200.4	-54.7
631.0	200.4	-54.7
634.2	200.4	-54.7
637.4	200.4	-54.7
640.7	200.4	-54.7
643.9	200.5	-54.7
647.1	200.5	-54.7
650.3	200.5	-54.7
653.5	200.5	-54.7
656.8	200.5	-54.7
660.0	200.5	-54.7
663.2	200.5	-54.7

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	24.70	BASALT ASH TUFF: Massive, dark green, fine grained, uniform, locally well bedded @30-35° to CA. 12.20 24.70 Dark green, siliceous, very hard, thinly laminated. Blocky, broken ground.										
24.70	35.60	BASALT ASH TUFF: CHLORITIC Pale green-grey, altered and intensely broken section. Chlorite and carbonate altered tuff, albite altered where glassy and white. Shearing at 15-30° to CA. Minor gouge. Bleaching associated with intense shearing. 24.70 25.20 Intensely sheared @30° to CA. Minor bleaching and gouge. 30.00 35.60 Intensely shattered, bleached.										
35.60	43.00	BASALT FLOW: Massive, dark green, feldspar and pyroxene phyric flow, thin chlorite-epidote-magnetite veinlets with thin albite alteration envelopes. Sections up to 0.5m long are shattered and albite altered.										
43.00	58.00	BASALT ASH TUFF: Massive brown, biotite altered, weakly pyritic, fine grained, thin whisps pyrite @30° WCA. Interval cut by numerous chlorite-epidote-magnetite veinlets with albite alteration envelopes @30°-60° WCA. Bottom contact is quartz-chlorite vein @30° WCA.										
58.00	215.20	BASALT FLOW: Massive, dark green, medium grained feldspar and pyroxene phyric flows, homogenous, locally short intervals silica and biotite altered. Unit intact, locally minor shearing and widespread chlorite-epidote-magnetite veinlets. 78.10 81.10 Weak shearing @25-30° WCA. 133.80 134.20 Weak shearing. Quartz-epidote lined fractures @15° WCA. 176.00 215.20 Fine grained, dark green flows. 186.2: 30cm bleached, sheared section, shearing @15° WCA. 194.0-195.2: Albite altered section, silicified, pyritic, chloritic. Banding prominent at 30° WCA. Bottom contact sharp @20° WCA.										
215.20	242.30	DACITE LAPILLI TUFF: HEMATITIC Dacite ash tuff, and lapilli tuff, grey-green and maroon. Bedded @60° WCA., uniform, whispy reddish hematitic streaks. Minor cherty component, chloritic throughout. Lapilli are siliceous, rounded 2-10mm, hematitic. Flattened altered pumice fragments, sericitic ± silicified. 239.70 240.50 Intensely sheared interval @15-30° WCA. Chloritic. 240.8: 10cm broken core.										
242.30	346.60	DACITE FLOW: PROPYLITIC Massive, pale grey-light green and maroon, feldspar phyric, medium										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

grained flows and lesser flow breccias. Intermittent chlorite-epidote veinlets with white albite alteration envelopes.
279.30 279.80 BASALTIC DYKE: Dark green, fine grained.
281.90 282.40 BASALTIC DYKE: Dark green, fine grained. Interval between basalt dykes is crushed and chlorite altered. Shearing @15° WCA.
282.40 283.20 FAULT Intensely sheared, silicified, calcite veined.
283.20 284.20 Intensely jointed, crackled, jointing @15° WCA.
284.20 321.90 Maroon, feldspar phyric, massive flows. Strongly hematitic. 310.7-311.1: BDY; Contacts @65° WCA. Widespread epidote healed fractures.
321.90 346.60 Dark green feldspar phyric dacite flows and flow breccias. Epidote-chlorite veining with albite alteration envolopes. Bottom contact gradational.

346.60 360.73 EXHALITIC TUFF: SERICITIC CHERT:
Grey, pale green-grey, locally thinly laminated @60-70° WCA. Cherty fragments and irregular cherty bands. Intensely sericitic, waxy-green, dacite ash tuff. Pyritic(3-7%) disseminated, commonly thinly laminated and whispy. Minor barite.

360.73 364.94 DACITE ASH TUFF: CORDIERITE
Massive, dark green, fine grained unit. Large(7mm) porphyroblasts cordierite-biotite. Groundmass is chloritic, dark green. Homogenous. Pyrite(3-5%) disseminated. Contacts irregular.

364.94 372.00 EXHALITIC TUFF: SERICITIC CHERT:
Similar to 346.6 to 360.73. Dark grey, intensely sericitic, pyritic(7%) disseminated and banded, chloritic, minor barite, minor chert.

372.00 374.45 DACITE ASH TUFF:
Similar to 360.72 to 364.94. Porphyroblasts cordierite and biotite, in dark chloritic groundmass. Pyrite(3%) disseminated. Upper contact sharp @20° WCA.

374.45 402.25 EXHALITIC TUFF: DACITE ASH TUFF: CHERT:
Grey, cherty, abundant banded barite. Pyritic(10%) disseminated and whispy-banded.
374.45 386.60 DACITE ASH TUFF: Dacite ash tuff, cherty, strongly sericitic, dark grey, pyritic throughout (8-10%), disseminated, banded, and patchy.
386.60 402.25 CHERT: Chert, barite, pyrite, lesser dacite ash tuff. Barite is well bedded especially bottom of section at 30-45° WCA. Trace chalcopyrite in cherty section.

402.25 413.30 DACITE FLOW:
Massive, grey, weakly hematitic, patchy albite alteration,

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		chlorite-epidote healed fractures. Bull quartz veins to 10cm are abundant.										
413.30	434.64	DACITE ASH TUFF: DACITE LAPILLI TUFF: Felsic section, non phyric, pyroclastic fragments generally <2mm. 413.30 417.86 Dark green, fine grained, chloritic and sericitic, strongly foliated parallel with core axis, and intensely sheared. Abundant slickensiding @30° WCA. 417.86 420.90 Pale green, sericitic-chloritic, dacite ash tuff, massive. 420.90 434.64 Bleached, carbonate, silica flooded for the most part. 424.0-431.8: FAULT: Intensely fractured, bleached, cemented with silica and calcite. Many quartz-calcite veins are sub-parallel with core axis. Protolith difficult to identify.										
434.64	442.00	DACITE FLOW: Massive, feldspar phyric, maroon felsic flows and lesser flow breccias. Several widespread chlorite-epidote-magnetite veinlets with albite alteration halos.										
442.00	451.38	VOLCANIC SEDIMENTS: DACITE LAPILLI TUFF: Grey-green unit containing fragments and clasts from <1mm to 3cm, mainly rounded, including altered dacite fragments, cherty, reddish hematitic siliceous, and dark-green chloritic fragments. Crude banding @45° WCA.										
451.38	458.20	BASALTIC DYKE: Massive,dark green, fine grained, homogenous. Several quartz-epidote-garnet veins @20 to 60° WCA.										
458.20	465.83	DACITE FLOW: CHLORITIC Massive, feldspar phyric, maroon felsic flows and flow breccias. Patchy albite alteration. Chloritic toward bottom of section.										
465.83	470.57	DACITE LAPILLI TUFF: SERICITIC CHLORITIC Distinct coarse pyroclastic flow. Large chloritic-sericitic fragments(commonly 3-7cm), matrix supported, by pale green altered fine grained dacite ash component. Intensely altered to sericite and chlorite. Prominent lineation @40° WCA. 469.50 470.57 Fragments uniform @<1cm, rounded, including sphalerite+galena, chalcopyrite, and pyrite. Several cherty fragments up to 3-4cm, generally <1cm lensoid.										
470.57	472.28	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED SPHALERITE , WITH DISSEMINATED CHALCOPYRITE: Debris flow. Tan, grey, dacite ash, cherty,tumbled accumulation of tuff, chert clasts, and sulphide clasts. Intensely sericitic. Sulphide estimate: 2-3% sphalerite, 0.5% galena, <0.5% chalcopyrite, 6% pyrite. Upper and lower contacts sharp @60° WCA.	25201	470.57	472.28	1.71	.01	.49	.12	.31	1.20	

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
472.28	518.20	BASALT LAPILLI TUFF: SERICITIC , WITH BANDED PYRITE Pale green-grey, fine grained, generally thinly laminated @30° WCA. Sericitic with patchy silicification. Intermittent sections of; pyrite, pyrite+sericite, and pyrite+cordierite+biotite alteration. Pyrite is both very fine grained and coarse granular(8-12%). 472.28 477.01 Fine grained cherty dacite ash tuff, fine grained pyrite laminated @60° WCA, minor disseminated sphalerite. 477.01 477.70 BASALTIC DYKE: Pale yellow-green, pyroxene phyric. 477.70 483.80 BASALT ASH TUFF: Cherty, pyritic, waxy green sericitic. Cherty lenses. Narrow bands pyrite(25%). 479.6: 10cm band coarse pyrite(25%). 479.8: 10cm band coarse pyrite. 482.35-483.73: 80% pyrite, conacts @45° WCA. 483.80 485.40 BASALTIC DYKE: Similar to 477.01-477.70. Contacts @30° WCA. 485.40 486.58 BASALT ASH TUFF: Cherty, crudely banded @45° WCA, dark green, abundant waxy green sericite. 486.58 489.00 BASALTIC DYKE: Similar to 477.01 to 477.70; Along entire core length 25% core is massive pyrite. 489.00 494.60 BASALT ASH TUFF: Uniform, light-grey, pyritic stringers, cherty, minor blebs(1-2mm), chalcopyrite. Thinly laminated @45° WCA. Pyrite as stringers and laminations(7%). 494.60 498.00 BASALT ASH TUFF: Dark green, distinct black cordierite-biotite porphyroblasts(1-4mm), small spherical quartz-coarse pyrite aggregates. Chlorite altered. 498.00 500.65 BASALT ASH TUFF: Similar to 489.00 to 494.60m. 500.65 503.20 BASALT ASH TUFF: Similar to 494.60 to 498.00, pyritic stringers @40° WCA, pyrite 7%. 503.20 518.20 BASALT ASH TUFF: Similar to 489.00-494.60. Grey, fine grained basalt ash tuff. Pyrite(8%) occurs as coarse granular clusters <1 to 10cm. Very fine grained cherty sections, intensely sericitic. Scattered granular aggregates chalcopyrite <<1%.	25202	472.28	474.00	1.72	.01	.20	.01	.06	.12
			25203	474.00	475.50	1.50	.01	.13	.01	.02	.06
			25204	475.50	477.00	1.50	.01	.03	.00	.01	.18
			25205	477.70	479.70	2.00	.01	.16	.05	.17	.48
			25206	479.70	482.30	2.60	.01	.38	.14	.03	.81
			25207	482.30	483.80	1.50	.00	.08	.09	.01	.36
518.20	529.13	BASALT ASH TUFF: CHLORITIC , WITH DISSEMINATED PYRITE Dark green brown-black unit, altered to chlorite-biotite-cordierite, distinctly porphyroblastic. Rounded quartz-pyrite inclusions. Locally pyrite occurs as coarse granular aggregates, disseminations, and as fine grained whispy bands(10-12%). Chalcopyrite occurs as coarse granular clusters.	25208	519.00	521.00	2.00	.00	.01	.04	.01	.28
			25209	521.00	523.00	2.00	.00	.01	.01	.01	.03
			25210	523.00	525.00	2.00	.00	.01	.07	.01	.16
			25211	525.00	527.00	2.00	.00	.02	.22	.01	.67
			25212	527.00	529.13	2.13	.00	.01	.02	.01	.07
529.13	591.18	BASALT ASH TUFF: SERICITIC , WITH DISSEMINATED PYRITE Grey, fine grained,homogenous,pyritic, thinly laminated at 30° WCA. Pyrite occurs as coarse aggregates up to 30cm in core length and as fine pervasive disseminations throughout. Pyrite, chalcopyrite and quartz clots(2-8mm) also occur. Thick pyritic veins crosscut laminated ash tuff. 529.13 544.37 BASALT ASH TUFF: Grey-brown, chlorite-biotite-sericite altered. Disseminated and poddy pyrite, fine grained and	25213	542.00	543.50	1.50	.00	.25	.24	.01	.02
			25214	543.50	545.00	1.50	.00	.01	.04	.01	.01
			25215	545.00	546.50	1.50	.00	.11	.05	.01	.01
			25216	546.50	548.00	1.50	.02	.89	.03	.01	.01
			25217	548.00	550.00	2.00	.00	.44	.02	.01	.01

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		coarse granular respectively. Trace disseminated chalcopyrite. Several large crosscutting pyrite veins. 542.28-542.58: 80% coarse granular pyrite, 2% fracture controlled chalcopyrite. 545.08-545.50: 3 semi-parallel bands pyrite, 5cm, @20° WCA. 546.83-547.25: Massive pyrite, 60%, coarse granular. 549.54-549.70: Massive pyrite and quartz vein, 40% pyrite.										
	544.37 565.71	BASALT ASH TUFF: Uniform, light-grey, pyritic(7-10%), banded @30-40° WCA. Sericitic-pyritic, less biotite.										
	565.71 568.15	Dark-green, large black porphyroblasts(5mm) cordierite+chlorite±biotite. Contacts sharp at 45-50° WCA.										
	568.15 591.18	BASALT ASH TUFF: Debris flow(?), tumbled, grey, fine grained, intensely altered to quartz-sericite-pyrite. Pyrite is disseminated, banded, and occurs as crosscutting veins.										
591.18	594.20	BASALTIC DYKE: Mottled, olive-green with black matrix. Medium to coarse grained. Dyke is sub-parallel with drill hole. Intensely chloritic.										
594.20	595.80	BASALT ASH TUFF: SERICITIC , WITH DISSEMINATED PYRITE Debris flow(?). Intensely pyritic, sericitic and silicified. Lower conact @30° WCA. Pyrite(8-10%), as disseminations, veinlets, and irregular clots.										
595.80	599.24	BASALTIC DYKE: Massive,dark-green, black, fine grained, small vesicles(2-4mm) infilled with quartz and calcite. Top contact @30° WCA. Bottom contact irregular. 598.67-598.97: Dacite ash tuff(?), quartz-sericite-pyrite altered and brecciated, silicified. 20% pyrite.										
599.24	612.30	BASALT LAPILLI TUFF: SILICIFIED , WITH STRINGER PYRITE Grey, massive, quartz-sericite-pyrite altered section, abundant pyritic stringers, disseminations, and clots(12-15%). Good pyritic stockwork. Trace chalcopyrite. Large dark fragments are chlorite±sericite altered where silicification is not as intense. Crude banding is at 30° WCA.										
612.30	614.50	BASALTIC DYKE: Similar to 595.80 to 599.24m. Chlorite-epidote-albite bands.										
614.50	617.62	BASALT LAPILLI TUFF: CHLORITIC , WITH DISSEMINATED PYRITE Grey-green mottled, crudely banded @30° WCA, dark chlorite-sericite altered fragments elongate(15mm), thin whisps(1-5mm) chalcopyrite. Light colored bands are altered to sericite and quartz. Pyrite occurs as disseminations, 1-2%.										
617.62	638.14	BASALT ASH TUFF: SERICITIC , WITH DISSEMINATED PYRITE Massive, homogenous, light-grey, fine grained, banded, tuff. Uniformly										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		bedded @45° WCA, thin(2mm to 2cm) seams pyrite conformable with tuffaceous bedding. Pyrite generally fine grained, disseminated, although where veinlets,coarse granular. Intensely altered to quartz-sericite-pyrite. Interbanded material is very siliceous.										
		634.70 635.66 BASALTIC DYKE: Black, fine grained, massive, contacts sharp @60° WCA, chloritic, two 10cm quartz veins @60° WCA with chlorite, epidote and garnet.										
		636.38 636.79 BASALTIC DYKE: Dark green, fine grained,massive, contacts sharp @60° WCA.										
638.14	641.20	BASALTIC DYKE: Black, dark-green, fine grained, chloritic. Two quartz-chlorite-epidote veins, irregular, 2cm thick each. Two 2cm pyritic bands @45° WCA.										
641.20	663.25	BASALT LAPILLI TUFF: SILICIFIED , WITH DISSEMINATED PYRITE Light-grey silicified to dark-green chloritic, pyritic throughout.										
		641.20 642.47 Intensely silicified and crackled. Very fine grained, 4% pyrite fracture controlled.										
		642.47 642.78 BASALTIC DYKE: Dark green, fine grained, contacts @45° WCA.										
		642.78 647.61 Silicified and chloritic. Coarse granular pyrite where chloritic.										
		647.61 648.74 BASALTIC DYKE: Fine grained, dark green, contacts @45° WCA.										
		648.74 663.25 Uniformly dark green, chloritic, biotitic. Weakly hematitic. Pyrite coarse granular(7%). Jointing top 3m of section is parallel WCA.										
663.25		EOH										

Hole No: TCU92-41
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15543.90
(metres) E: 10596.39

Azimuth: 196.1
Dip: -56.2
Length (m): 663.25
Elevation: 113.51 (metres)
Purpose: To test AB Zone.

Core Size: NQ
Drill Name: Boyles 37A
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: September 22, 1992.
Completed: October 5, 1992.
Recovery:

Date Logged: October 5, 1992.
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 19 Feb, 1993 10:06pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25201	470.57	472.28	1.71		14.25	.01	.44	.12	.31	1.20		14.4	1171	3034	9699	3.29	32	36	56	72	
25202	472.28	474.00	1.72		5.74	.01	.18	.01	.06	.12		5.8	76	594	1140	4.20	46	4	7	81	
25203	474.00	475.50	1.50		5.40	.01	.12	.01	.02	.06		3.9	51	137	492	5.92	69	1	3	61	
25204	475.50	477.00	1.50		5.46	.01	.03	.00	.01	.18		1.2	45	45	1536	9.46	88	1	2	53	
25205	477.70	479.70	2.00		8.08	.01	.14	.05	.17	.48		4.2	471	505	3697	8.50	44	14	21	79	
25206	479.70	482.30	2.60		11.02	.01	.34	.14	.03	.81		9.8	1224	210	6072	6.65	48	22	50	63	
25207	482.30	483.80	1.50		4.83	.00	.07	.09	.01	.36		2.5	762	31	2716	13.77	42	7	2	64	
25208	519.00	521.00	2.00		2.72	.00	.01	.04	.01	.28		.3	369	12	2293	6.75	34	7	2	93	
25209	521.00	523.00	2.00		.82	.00	.01	.01	.01	.03		.1	161	18	266	7.10	67	1	2	99	
25210	523.00	525.00	2.00		2.33	.00	.01	.07	.01	.16		.4	659	18	1272	6.43	25	4	2	86	
25211	525.00	527.00	2.00		7.44	.00	.02	.22	.01	.67		1.6	2071	10	5052	7.02	26	17	2	100	
25212	527.00	529.13	2.13		1.16	.00	.01	.02	.01	.07		.3	213	27	580	6.08	81	1	2	84	
25213	542.00	543.50	1.50		5.34	.00	.22	.24	.01	.02		7.1	2473	20	92	12.45	127	0	2	71	
25214	543.50	545.00	1.50		.99	.00	.01	.04	.01	.01		.9	363	7	129	5.87	54	1	2	98	
25215	545.00	546.50	1.50		2.51	.00	.10	.05	.01	.01		4.1	463	21	30	13.71	112	0	2	75	
25216	546.50	548.00	1.50		8.90	.02	.79	.03	.01	.01		24.5	298	24	27	14.08	103	0	2	86	
25217	548.00	550.00	2.00		2.28	.00	.39	.02	.01	.01		13.1	180	21	20	10.06	108	0	2	111	

Hole No: TCU92-41
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15543.90
(metres) E: 10596.39

Azimuth: 196.1
Dip: -56.2
Length (m): 663.25
Elevation: 113.51 (metres)
Purpose: To test AB Zone.

Core Size: NQ
Drill Name: Boyles 37A
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: September 22, 1992.
Completed: October 5, 1992.
Recovery:

Date Logged: October 5, 1992.
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 21 Feb, 1993 4:31pm

Sample No.	From (m)	To (m)	Inter-val (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25201	470.57	472.28	1.71	7	9	5	238	5	3	61	2	2	.65	3	7	1.17	.01	2	3
25202	472.28	474.00	1.72	9	22	9	145	5	6	17	2	3	.36	2	7	.65	.01	2	17
25203	474.00	475.50	1.50	8	36	11	304	5	4	18	2	3	.42	2	5	1.52	.01	2	16
25204	475.50	477.00	1.50	15	129	30	252	12	1	23	2	16	.53	2	47	1.80	.01	2	15
25205	477.70	479.70	2.00	24	50	14	400	6	4	47	2	11	.81	2	14	2.64	.01	2	2
25206	479.70	482.30	2.60	21	100	14	560	5	3	84	2	22	1.54	2	99	3.08	.01	2	1
25207	482.30	483.80	1.50	5	200	21	488	5	3	30	2	36	.86	2	184	3.62	.01	2	1
25208	519.00	521.00	2.00	1	15	24	2678	5	1	21	2	106	.53	2	21	3.45	.20	2	1
25209	521.00	523.00	2.00	1	13	25	2993	5	1	16	2	105	.53	2	19	3.60	.17	2	1
25210	523.00	525.00	2.00	1	12	25	3253	5	2	11	2	151	.53	2	20	4.35	.24	2	1
25211	525.00	527.00	2.00	1	14	25	2803	5	1	12	2	111	.55	2	22	3.80	.18	2	1
25212	527.00	529.13	2.13	1	16	35	2521	5	1	12	2	101	.56	2	18	3.99	.15	2	1
25213	542.00	543.50	1.50	1	17	29	616	5	2	10	2	40	.69	2	14	1.04	.04	2	1
25214	543.50	545.00	1.50	1	12	26	1299	5	1	8	2	59	.57	2	7	2.02	.10	2	1
25215	545.00	546.50	1.50	1	19	33	253	5	2	12	8	28	.52	2	12	.33	.02	2	2
25216	546.50	548.00	1.50	1	17	27	192	5	2	9	2	24	.46	2	7	.26	.01	2	3
25217	548.00	550.00	2.00	1	16	30	191	5	1	10	2	27	.46	2	5	.27	.02	2	2

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER : HOLE TCU92-41 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.00	4.88	4.88	3.86	79.10%	2.24	45.90%
4.88	6.71	1.83	1.78	97.27%	0.79	43.17%
6.71	7.92	1.21	1.21	100.00%	0.73	60.33%
7.92	9.14	1.22	1.06	86.89%	0.25	20.49%
9.14	10.97	1.83	1.85	101.09%	0.40	21.86%
10.97	13.72	2.75	3.03	110.18%	1.46	53.09%
13.72	16.61	2.89	2.37	82.01%	0.49	16.96%
16.61	19.51	2.90	2.88	99.31%	0.27	9.31%
19.51	20.61	1.10	0.72	65.45%	0.19	17.27%
20.61	21.95	1.34	1.60	119.40%	0.46	34.33%
21.95	23.16	1.21	0.75	61.98%	0.14	11.57%
23.16	26.21	3.05	3.35	109.84%	0.92	30.16%
26.21	28.04	1.83	1.83	100.00%	0.23	12.57%
28.04	28.96	0.92	0.78	84.78%	0.00	0.00%
28.96	32.31	3.35	3.20	95.52%	0.29	8.66%
32.31	33.53	1.22	0.58	47.54%	0.00	0.00%
33.53	35.36	1.83	1.27	69.40%	0.00	0.00%
35.36	36.58	1.22	1.22	100.00%	0.00	0.00%
36.58	36.89	0.31	0.43	138.71%	0.00	0.00%
36.89	39.01	2.12	1.43	67.45%	0.00	0.00%
39.01	39.67	0.66	0.70	106.06%	0.15	22.73%
39.67	41.45	1.78	- -	0.00%	- -	0.00%
41.45	42.67	1.22	- -	0.00%	- -	0.00%
42.67	42.98	0.31	- -	0.00%	- -	0.00%
42.98	44.15	1.17	- -	0.00%	- -	0.00%
44.15	44.50	0.35	0.35	100.00%	0.11	31.43%
44.50	46.94	2.44	2.35	96.31%	0.89	36.48%
46.94	48.77	1.83	1.85	101.09%	0.68	37.16%
48.77	50.60	1.83	1.85	101.09%	0.49	26.78%
50.60	52.12	1.52	1.52	100.00%	0.32	21.05%
52.12	53.64	1.52	1.55	101.97%	0.17	11.18%
53.64	54.41	0.77	0.77	100.00%	0.17	22.08%
54.41	56.69	2.28	2.13	93.42%	0.91	39.91%
56.69	59.74	3.05	3.05	100.00%	2.02	66.23%
59.74	62.79	3.05	3.02	99.02%	2.48	81.31%
62.79	65.84	3.05	3.11	101.97%	2.36	77.38%
65.84	68.88	3.04	2.75	90.46%	1.35	44.41%
68.88	71.93	3.05	3.17	103.93%	2.06	67.54%
71.93	74.98	3.05	3.11	101.97%	2.75	90.16%
74.98	78.03	3.05	3.12	102.30%	1.90	62.30%
78.03	81.08	3.05	3.15	103.28%	1.15	37.70%
81.08	84.12	3.04	3.10	101.97%	2.43	79.93%
84.12	87.17	3.05	2.98	97.70%	2.70	88.52%
87.17	90.22	3.05	2.98	97.70%	2.09	68.52%
90.22	93.27	3.05	2.70	88.52%	1.75	57.38%
93.27	96.32	3.05	3.05	100.00%	2.57	84.26%
96.32	99.39	3.07	3.01	98.05%	2.34	76.22%
99.39	102.41	3.02	3.07	101.66%	2.56	84.77%
102.41	105.46	3.05	2.95	96.72%	2.78	91.15%
105.46	106.98	1.52	1.52	100.00%	0.98	64.47%
106.98	108.51	1.53	1.55	101.31%	0.92	60.13%
108.51	110.34	1.83	1.79	97.81%	0.83	45.36%
110.34	111.56	1.22	1.22	100.00%	0.74	60.66%
111.56	114.60	3.04	3.02	99.34%	2.29	75.33%
114.60	117.65	3.05	2.92	95.74%	1.87	61.31%
117.65	120.70	3.05	3.05	100.00%	2.98	97.70%
120.70	123.75	3.05	2.97	97.38%	2.31	75.74%
123.75	126.80	3.05	3.01	98.69%	2.52	82.62%
126.80	129.84	3.04	3.07	100.99%	2.75	90.46%
129.84	132.89	3.05	3.01	98.69%	2.31	75.74%
132.89	134.11	1.22	1.12	91.80%	0.28	22.95%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER : HOLE TCU92-41 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
134.11	137.16	3.05	2.87	94.10%	1.50	49.18%
137.16	138.99	1.83	1.72	93.99%	0.71	38.80%
138.99	142.04	3.05	3.05	100.00%	2.45	80.33%
142.04	145.08	3.04	3.05	100.33%	2.82	92.76%
145.08	148.13	3.05	3.04	99.67%	2.59	84.92%
148.13	151.18	3.05	3.05	100.00%	2.44	80.00%
151.18	154.23	3.05	3.07	100.66%	2.63	86.23%
154.23	157.28	3.05	3.05	100.00%	1.36	44.59%
157.28	160.32	3.04	3.05	100.33%	2.20	72.37%
160.32	163.37	3.05	3.06	100.33%	2.51	82.30%
163.37	166.42	3.05	3.04	99.67%	2.24	73.44%
166.42	169.47	3.05	3.03	99.34%	2.51	82.30%
169.47	172.52	3.05	3.10	101.64%	2.27	74.43%
172.52	175.56	3.04	3.05	100.33%	2.57	84.54%
175.56	178.61	3.05	3.00	98.36%	2.45	80.33%
178.61	181.66	3.05	3.14	102.95%	1.95	63.93%
181.66	183.79	2.13	2.08	97.65%	0.29	13.62%
183.79	184.71	0.92	0.89	96.74%	0.00	0.00%
184.71	187.76	3.05	2.64	86.56%	0.71	23.28%
187.76	190.80	3.04	3.17	104.28%	1.06	34.87%
190.80	193.86	3.06	3.04	99.35%	2.73	89.22%
193.86	196.90	3.04	3.05	100.33%	2.10	69.08%
196.90	199.94	3.04	3.05	100.33%	2.31	75.99%
199.94	203.00	3.06	3.02	98.69%	2.71	88.56%
203.00	206.04	3.04	2.92	96.05%	2.18	71.71%
206.04	209.09	3.05	3.08	100.98%	2.41	79.02%
209.09	212.14	3.05	3.11	101.97%	2.47	80.98%
212.14	215.19	3.05	2.98	97.70%	1.65	54.10%
215.19	218.24	3.05	3.10	101.64%	2.32	76.07%
218.24	221.28	3.04	3.00	98.68%	2.30	75.66%
221.28	224.33	3.05	3.05	100.00%	2.33	76.39%
224.33	227.38	3.05	3.00	98.36%	2.59	84.92%
227.38	230.43	3.05	3.10	101.64%	2.85	93.44%
230.43	233.48	3.05	3.03	99.34%	2.46	80.66%
233.48	236.52	3.04	3.01	99.01%	2.21	72.70%
236.52	239.57	3.05	3.07	100.66%	2.06	67.54%
239.57	240.79	1.22	1.14	93.44%	0.21	17.21%
240.79	243.84	3.05	3.08	100.98%	2.52	82.62%
243.84	245.67	1.83	1.83	100.00%	1.34	73.22%
245.67	248.72	3.05	3.05	100.00%	2.49	81.64%
248.72	251.76	3.04	3.00	98.68%	2.62	86.18%
251.76	254.81	3.05	3.09	101.31%	2.81	92.13%
254.81	257.86	3.05	3.03	99.34%	2.35	77.05%
257.86	260.91	3.05	3.03	99.34%	2.84	93.11%
260.91	263.96	3.05	3.08	100.98%	2.67	87.54%
263.96	267.00	3.04	3.04	100.00%	2.90	95.39%
267.00	270.05	3.05	3.05	100.00%	2.60	85.25%
270.05	273.10	3.05	3.05	100.00%	2.72	89.18%
273.10	276.15	3.05	3.03	99.34%	2.30	75.41%
276.15	279.20	3.05	2.98	97.70%	1.68	55.08%
279.20	281.94	2.74	2.75	100.36%	0.26	9.49%
281.94	284.99	3.05	3.06	100.33%	0.13	4.26%
284.99	288.34	3.35	3.30	98.51%	1.63	48.66%
288.34	291.39	3.05	3.12	102.30%	1.98	64.92%
291.39	294.44	3.05	3.02	99.02%	2.72	89.18%
294.44	297.48	3.04	3.01	99.01%	2.60	85.53%
297.48	300.53	3.05	3.05	100.00%	2.08	68.20%
300.53	303.59	3.06	3.10	101.31%	2.77	90.52%
303.59	306.63	3.04	3.08	101.32%	2.09	68.75%
306.63	309.68	3.05	3.02	99.02%	2.14	70.16%
309.68	312.72	3.04	3.08	101.32%	1.66	54.61%
312.72	315.77	3.05	2.97	97.38%	2.42	79.34%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER : HOLE TCU92-41 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
315.77	318.82	3.05	3.05	100.00%	2.29	75.08%
318.82	321.87	3.05	3.11	101.97%	2.64	86.56%
321.87	324.92	3.05	3.08	100.98%	2.34	76.72%
324.92	327.96	3.04	3.04	100.00%	2.61	85.86%
327.96	331.01	3.05	3.11	101.97%	2.04	66.89%
331.01	334.06	3.05	3.06	100.33%	1.88	61.64%
334.06	337.11	3.05	3.05	100.00%	1.84	60.33%
337.11	340.16	3.05	3.01	98.69%	1.58	51.80%
340.16	343.20	3.04	3.10	101.97%	2.18	71.71%
343.20	346.25	3.05	3.03	99.34%	1.65	54.10%
346.25	349.30	3.05	3.04	99.67%	2.73	89.51%
349.30	352.35	3.05	3.03	99.34%	2.70	88.52%
352.35	355.40	3.05	3.02	99.02%	2.76	90.49%
355.40	358.44	3.04	3.07	100.99%	2.34	76.97%
358.44	361.49	3.05	3.04	99.67%	2.61	85.57%
361.49	364.54	3.05	3.05	100.00%	2.75	90.16%
364.54	367.59	3.05	2.98	97.70%	2.51	82.30%
367.59	370.64	3.05	3.07	100.66%	2.50	81.97%
370.64	373.68	3.04	3.07	100.99%	2.72	89.47%
373.68	376.73	3.05	3.08	100.98%	2.72	89.18%
376.73	379.78	3.05	3.07	100.66%	2.92	95.74%
379.78	382.83	3.05	3.02	99.02%	2.72	89.18%
382.83	385.88	3.05	3.08	100.98%	2.50	81.97%
385.88	388.92	3.04	3.02	99.34%	2.28	75.00%
388.92	391.97	3.05	3.02	99.02%	2.22	72.79%
391.97	395.02	3.05	3.09	101.31%	2.57	84.26%
395.02	398.07	3.05	3.05	100.00%	2.77	90.82%
398.07	401.12	3.05	3.03	99.34%	2.45	80.33%
401.12	404.16	3.04	3.02	99.34%	1.86	61.18%
404.16	407.21	3.05	3.10	101.64%	2.01	65.90%
407.21	410.26	3.05	2.99	98.03%	2.58	84.59%
410.26	413.31	3.05	3.05	100.00%	0.71	23.28%
413.31	416.36	3.05	3.05	100.00%	0.94	30.82%
416.36	419.40	3.04	3.10	101.97%	1.78	58.55%
419.40	422.45	3.05	2.93	96.07%	2.36	77.38%
422.45	425.50	3.05	3.20	104.92%	0.83	27.21%
425.50	428.55	3.05	2.87	94.10%	0.80	26.23%
428.55	431.60	3.05	2.93	96.07%	1.17	38.36%
431.60	434.64	3.04	3.08	101.32%	1.26	41.45%
434.64	437.69	3.05	3.06	100.33%	1.67	54.75%
437.69	440.74	3.05	3.03	99.34%	2.10	68.85%
440.74	443.79	3.05	3.05	100.00%	2.19	71.80%
443.79	446.84	3.05	3.11	101.97%	2.34	76.72%
446.84	449.88	3.04	3.04	100.00%	2.19	72.04%
449.88	452.93	3.05	3.05	100.00%	2.21	72.46%
452.93	455.98	3.05	3.03	99.34%	2.02	66.23%
455.98	459.03	3.05	2.91	95.41%	1.90	62.30%
459.03	462.08	3.05	3.17	103.93%	1.75	57.38%
462.08	465.12	3.04	2.80	92.11%	2.54	83.55%
465.12	468.17	3.05	3.05	100.00%	2.15	70.49%
468.17	471.22	3.05	3.11	101.97%	2.51	82.30%
471.22	473.96	2.74	2.74	100.00%	2.21	80.66%
473.96	477.01	3.05	3.10	101.64%	2.62	85.90%
477.01	480.06	3.05	3.05	100.00%	2.16	70.82%
480.06	483.11	3.05	3.00	98.36%	1.63	53.44%
483.11	486.16	3.05	3.05	100.00%	1.62	53.11%
486.16	489.51	3.35	3.15	94.03%	2.05	61.19%
489.51	492.56	3.05	3.01	98.69%	2.28	74.75%
492.56	495.60	3.04	3.10	101.97%	2.75	90.46%
495.60	498.66	3.06	3.06	100.00%	2.60	84.97%
498.66	501.70	3.04	3.01	99.01%	2.62	86.18%
501.70	504.75	3.05	2.97	97.38%	2.63	86.23%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER : HOLE TCU92-41 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
504.75	507.80	3.05	3.00	98.36%	2.65	86.89%
507.80	510.84	3.04	3.10	101.97%	2.91	95.72%
510.84	513.89	3.05	3.01	98.69%	2.24	73.44%
513.89	516.64	2.75	2.75	100.00%	1.94	70.55%
516.64	519.68	3.04	3.15	103.62%	2.88	94.74%
519.68	522.73	3.05	3.04	99.67%	2.26	74.10%
522.73	525.78	3.05	3.02	99.02%	2.43	79.67%
525.78	529.13	3.35	3.20	95.52%	2.46	73.43%
529.13	532.18	3.05	3.08	100.98%	2.44	80.00%
532.18	535.23	3.05	3.07	100.66%	2.57	84.26%
535.23	538.28	3.05	3.09	101.31%	2.41	79.02%
538.28	541.32	3.04	3.05	100.33%	2.53	83.22%
541.32	544.37	3.05	3.06	100.33%	2.50	81.97%
544.37	547.42	3.05	3.08	100.98%	2.57	84.26%
547.42	550.47	3.05	3.03	99.34%	2.52	82.62%
550.47	553.52	3.05	2.97	97.38%	2.25	73.77%
553.52	556.56	3.04	3.02	99.34%	2.11	69.41%
556.56	559.61	3.05	3.01	98.69%	2.16	70.82%
559.61	562.66	3.05	3.01	98.69%	2.49	81.64%
562.66	565.71	3.05	3.21	105.25%	2.48	81.31%
565.71	568.76	3.05	2.71	88.85%	1.86	60.98%
568.76	571.80	3.04	3.04	100.00%	2.78	91.45%
571.80	574.85	3.05	2.89	94.75%	2.41	79.02%
574.85	577.90	3.05	3.06	100.33%	2.38	78.03%
577.90	580.95	3.05	3.12	102.30%	2.63	86.23%
580.95	584.00	3.05	3.10	101.64%	2.61	85.57%
584.00	587.04	3.04	3.04	100.00%	2.60	85.53%
587.04	590.09	3.05	3.06	100.33%	2.66	87.21%
590.09	593.14	3.05	3.02	99.02%	1.85	60.66%
593.14	596.19	3.05	3.08	100.98%	1.80	59.02%
596.19	599.24	3.05	3.07	100.66%	1.98	64.92%
599.24	602.28	3.04	3.01	99.01%	2.81	92.43%
602.28	605.33	3.05	2.97	97.38%	2.75	90.16%
605.33	608.38	3.05	3.04	99.67%	2.43	79.67%
608.38	611.43	3.05	3.07	100.66%	2.80	91.80%
611.43	614.48	3.05	3.03	99.34%	2.10	68.85%
614.48	617.52	3.04	2.97	97.70%	1.71	56.25%
617.52	620.57	3.05	3.09	101.31%	2.85	93.44%
620.57	623.62	3.05	3.03	99.34%	2.59	84.92%
623.62	626.67	3.05	3.05	100.00%	2.48	81.31%
626.67	629.72	3.05	3.05	100.00%	2.75	90.16%
629.72	632.76	3.04	3.04	100.00%	2.67	87.83%
632.76	635.81	3.05	3.01	98.69%	2.58	84.59%
635.81	638.86	3.05	2.97	97.38%	2.51	82.30%
638.86	641.91	3.05	3.04	99.67%	1.39	45.57%
641.91	644.96	3.05	3.06	100.33%	1.68	55.08%
644.96	648.01	3.05	3.00	98.36%	2.15	70.49%
648.01	648.61	0.60	0.68	113.33%	0.18	30.00%
648.61	651.05	2.44	2.40	98.36%	0.71	29.10%
651.05	654.10	3.05	3.12	102.30%	1.92	62.95%
654.10	657.15	3.05	3.00	98.36%	2.22	72.79%
657.15	660.20	3.05	3.10	101.64%	2.10	68.85%
660.20	663.25	3.05	2.98	97.70%	2.25	73.77%

663.25 END OF HOLE

* Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU92-42
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15369.13
(metres) E: 10670.60

Azimuth: 112.6
Dip: -46.1
Length (m): 312.10
Elevation: 112.58
(metres)
Purpose:

Core Size: BQ
Drill Name: Conners
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: September 26, 1992
Completed: September 30, 1992
Recovery:

Date Logged: Sept. 27, 1992
Logged By: G. Dawson
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:25am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	112.6	-46.1															
3.1	112.6	-45.7	55.6	113.9	-44.3	108.1	114.9	-43.5	160.6	115.3	-42.1	213.1	116.9	-40.4	265.6	119.4	-37.6
9.3	112.7	-45.3	61.8	114.1	-44.2	114.3	115.0	-43.2	166.8	115.4	-41.9	219.3	117.0	-40.2	271.8	119.6	-37.5
12.4	112.8	-45.2	64.9	114.2	-44.1	117.4	115.1	-43.1	169.9	115.5	-41.8	222.4	117.2	-40.0	274.9	119.8	-37.3
15.4	112.8	-45.0	68.0	114.3	-44.0	120.5	115.1	-42.9	173.0	115.5	-41.8	225.5	117.4	-39.8	278.0	119.9	-37.2
18.5	112.9	-44.9	71.1	114.3	-44.0	123.6	115.1	-42.8	176.1	115.6	-41.7	228.6	117.5	-39.5	281.1	120.0	-37.1
21.6	113.0	-44.8	74.1	114.4	-44.0	126.7	115.1	-42.7	179.2	115.7	-41.7	231.7	117.7	-39.3	284.2	120.1	-37.0
24.7	113.1	-44.6	77.2	114.5	-44.0	129.7	115.2	-42.7	182.3	115.7	-41.7	234.8	117.9	-39.1	287.3	120.3	-36.8
27.8	113.1	-44.5	80.3	114.5	-44.0	132.8	115.2	-42.7	185.3	115.8	-41.6	237.9	118.0	-39.0	290.4	120.5	-36.6
30.9	113.2	-44.4	83.4	114.6	-43.9	135.9	115.2	-42.7	188.4	115.8	-41.4	240.9	118.1	-38.8	293.5	120.7	-36.4
34.0	113.3	-44.3	86.5	114.7	-43.8	139.0	115.2	-42.6	191.5	116.1	-41.2	244.0	118.3	-38.5	296.5	120.7	-36.3
37.1	113.3	-44.3	89.6	114.8	-43.8	142.1	115.2	-42.5	194.6	116.2	-41.1	247.1	118.5	-38.5	299.6	120.9	-36.1
40.2	113.4	-44.3	92.7	114.8	-43.8	145.2	115.2	-42.5	197.7	116.4	-40.9	250.2	118.6	-38.4	302.7	121.0	-35.9
43.3	113.5	-44.3	95.8	114.9	-43.8	148.3	115.3	-42.4	200.8	116.5	-40.7	253.3	118.7	-38.4	305.8	121.1	-35.7
46.3	113.6	-44.3	98.8	114.9	-43.8	151.4	115.3	-42.3	203.9	116.5	-40.6	256.4	118.9	-38.2	308.9	121.2	-35.4
49.4	113.7	-44.3	101.9	114.9	-43.8	154.4	115.3	-42.2	207.0	116.7	-40.6	259.5	119.0	-38.0	312.0	121.4	-35.1
52.5	113.8	-44.3	105.0	114.9	-43.8	157.5	115.3	-42.2	210.1	116.8	-40.5	262.6	119.2	-37.8			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	.15	CASING										
.15	39.16	DACITE FLOW: HEMATITIC Maroon ± greyish green, propylitically altered, feldspar(1-2mm) phyric, aphanitic dacite flow and lesser flow breccia. Chlorite+ epidote ± garnet veinlets with albite envelopes grade into irregular zones of pervasive albite alteration. Interval is blocky with numerous chlorite ± calcite coated fractures @50-70° to CA. Lower contact sharp @40° to CA. 6.00 6.37 FAULT Broken and ground core, 20cm core missing. Chlorite +										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		quartz cemented breccia @60-80° CA.										
		33.75 34.30 FAULT Broken core. Calcite cemented breccia @40-50° to CA.										
		35.90 37.75 BASALTIC DYKE: Dark green, chloritic, fine grained basalt dyke. Upper contact sharp @35° to CA. Lower contact irregular @80° to CA.										
39.16	58.15	BASALT FLOW: PROPYLITIC Dark green, propylitically altered fine grained to aphanitic basalt flow. Chlorite + epidote ± calcite ± magnetite veinlets @50-70° to CA. Interval from 39.16 to 46.00 metres is blocky with chlorite + calcite + blue mineral (hydrozincite ?) coated fractures.										
58.15	58.50	FAULT Chlorite + calcite + quartz altered fault. Broken core with 5cm gouge @ 50° to CA.										
58.50	65.15	DACITE FLOW: CHLORITIC Greyish-black ± maroon tinge, chlorite altered, feldspar(<2mm) phyric, aphanitic dacite flow. Interval is blocky with numerous chlorite ± calcite coated fractures. Lower contact is sharp @45° to CA.										
		60.15 60.55 FAULT Broken and ground core. Chlorite coated fractures @45° to CA.										
		62.45 62.70 Broken and fractured (chlorite) core.										
65.15	84.58	BASALT FLOW: PROPYLITIC Dark green, propylitically altered, fine grained to aphanitic basalt flow; some feldspar ± pyroxene phyric sections. Calcite and chlorite veins (<1cm) @50-60° to CA.										
		66.78 66.85 FAULT Calcite cemented fault breccia @ 60° to CA.										
		68.58 69.85 FAULT Broken core. Chlorite shears and fractures @ 10-30° to CA. Blue mineral (hydrozincite) coating fractures.										
		84.38 84.58 FAULT Broken core with minor gouge (<5mm). Chlorite shear @ 30° to CA.										
84.58	99.50	BASALT FLOW BRECCIA: SILICIFIED Dark greyish green, silica + albite altered basalt flow breccia(?).										
		96.90 96.95 FAULT Silica cemented fault breccia @60° to CA.										
99.50	108.00	FAULT Broken and ground core, minor gouge. Chlorite altered fault zone; fractures and shears @30-50° to CA.										
108.00	117.35	QUARTZ FELDSPAR PORPHYRY DYKE: Grey, feldspar (<1cm) and quartz (<1mm, minor) phyric fine grained dacite dyke infilling fault zone. Calcite ± pyrite ± chlorite fractures. Lower contact sharp @ 25° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
117.35	202.72	BASALT UNDIFFERENTIATED: PROPYLITIC Undifferentiated, dark green to black, propylitically altered, feldspar(<2mm) phyric, fine grained to aphanitic basalt. Widespread quartz + epidote + albite ± magnetite veinlets. 182.10 182.15 Sheared, chloritic. 202.13 202.18 Fractured section (6cm) infilled with chalcopyrite and pyrite.										
202.72	210.00	DACITE FLOW: PROPYLITIC Greyish green, propylitically altered, feldspar (1-2mm) phyric, fine grained dacite flow and flow breccia. Epidote + chlorite + magnetite veinlets with albite envelopes grade into irregular zones of pervasive albite alteration.	25170	208.50	210.00	1.50	.00	.06	.02	.02	.08	
210.00	211.55	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Thinly laminated, pale greenish grey, sericite + pyrite (7%) altered, dacite ash tuff; several 1-5cm chert clasts. Bedding @ 45° to CA. 210.00 210.77 Ash flow chaotic assemblage, minor chlorite, sericite. 210.77 211.14 Uniformly bedded dacite ash tuff at 60° WCA. 211.14 211.55 Banded sulphides at 70° WCA; tr. Sphal, 4% galena, 2% chalcopyrite.	25171	210.00	211.55	1.55	.10	2.12	.35	.97	2.66	
211.55	245.42	DACITE FLOW: Dark grey to pale green, feldspar phyric, dacite flow and flow breccia. Pervasive albite alteration overprints 40% of interval. Numerous chlorite ± epidote fractures. 215.19 215.48 BASALTIC DYKE: Dark green, fine grained basalt dyke. Contacts sharp @ 75° to CA.	25172	211.55	213.00	1.45	.01	.15	.07	.06	.29	
245.42	246.47	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Thinly laminated (contorted), tan to grey, dacite ash tuff; minor lapilli of albite altered dacite flow. Disseminated pyrite and sphalerite (5%). Bottom contact sharp at 30° to CA; minor shearing with clay gouge.	25173 ZBV	245.42 245.42	246.47 250.24	1.05 4.82	.00	.78	.83	.52	3.10	
246.47	248.74	ZINC FACIES: Banded massive sulphides (60%) including sphalerite (12%), chalcopyrite (1%), galena (1%) and pyrite (50%). Gangue consists of dark-green chlorite and sericite altered fragments. 247.55 247.65 Crushed section (10 cm); clay gouge at 80° and 30° to CA. 248.40 248.74 Crushed section, clay gouge @ 50° to CA.	25174 25175	246.47 247.47	247.47 248.74	1.00 1.27	.02 .01	2.38 2.18	2.06 1.49	1.11 .82	9.50 6.49	
248.74	254.86	DACITE ASH TUFF: Grey, fine grained, hematitic dacite ash tuff. Bottom contact sharp at 50° to CA.	25176	248.74	250.24	1.50	.00	.09	.10	.02	.10	
254.86	258.10	BASALT FLOW: Dark green and black, pyroxene phyric, fine grained basalt flow; light	25177	257.14	258.10	.96	.01	.20	.33	.02	.28	

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		patches of albite alteration. Several irregular quartz + chlorite veins.	ZBU	257.14	260.92	3.78						
258.10	260.92	COPPER FACIES: , WITH MASSIVE PYRITE Massive sulphide (60%) including sphalerite (5%), chalcopyrite (7%), galena (1%), pyrite (50%); one speck of VISIBLE GOLD @ 258 metres. Banded sulphides are locally slumped and contorted. Banding is at 30° to CA. Gangue consists of thin (1-3mm) bands of chert, dark green chlorite, and sericite. Bottom contact 50° to CA.	25178 25179 25180	258.10 259.10 260.10	259.10 260.10 260.92	1.00 1.00 .82	.09 .16 .10	1.84 2.67 1.81	1.98 2.73 2.26	.31 .56 .40	2.84 4.00 3.88	
260.92	262.55	BASALT LAPILLI TUFF: SILICIFIED Dark bluish grey, silica and albite altered, basalt lapilli and ash tuff. Chlorite fractures. Vague banding @ 30° to CA.	25181	260.92	262.55	1.63	.00	.01	.03	.01	.05	
262.55	266.33	BASALT FLOW: Black to grey, fine grained basalt flows; in part pyroxene phyric. Lower contact @ 20° to CA.										
266.33	267.20	EXHALITIC TUFF: Grey to yellowish brown, sericite altered tuff, chert and sulphides. Sulphides include sphalerite (1%), galena (2%), chalcopyrite (trace), and pyrite (12%). Lower 40 cm mixed with basalt.	25182 25183	266.33 267.00	267.00 269.00	.67 2.00	.03 .00	.62 .04	.29 .04	.30 .01	1.38 .06	
267.20	269.00	BASALT LAPILLI TUFF: SILICIFIED Similar to 260.22 to 262.55 metres. Widespread patchy albite alteration.										
269.00	312.10	BASALT FLOW: Black, fine grained basalt flow; in part feldspar phyric. Widespread quartz + epidote + chlorite veins with albite envelopes. 276.45 276.75 FAULT Broken core (30cm); minor gouge @ 30° to CA. 303.55 303.65 FAULT Broken core (30cm); 3cm gouge @ 30° to CA.										
312.10		EOH										

Hole No: TCU92-42
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15369.13
(metres) E: 10670.60

Azimuth: 112.6
Dip: -46.1
Length (m): 312.10
Elevation: 112.58
(metres)
Purpose:

Core Size: BQ
Drill Name: Conners
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: September 26, 1992
Completed: September 30, 1992
Recovery:

Date Logged: Sept. 27, 1992
Logged By: G. Dawson
Date Re-logged:
Re-logged By:
Report Printed: 19 Feb, 1993
10:06pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25170	208.50	210.00	1.50		1.73	.00	.05	.02	.02	.08		1.5	208	124	783	1.94	11	2	12	478	
25171	210.00	211.55	1.55		64.64	.09	1.89	.35	.97	2.66		83.8	3431	10271	22456	3.80	19	102	79	46	
25172	211.55	213.00	1.45		5.58	.01	.13	.07	.06	.29		5.2	744	536	2708	2.13	7	13	5	97	
25173	245.42	246.47	1.05	2.81	35.58	.00	.70	.83	.52	3.10		23.8	8761	4733	26228	7.97	7	107	12	35	
25174	246.47	247.47	1.00	3.59	104.64	.02	2.12	2.06	1.11	9.50		89.8	22898	7967	86383	19.40	9	395	24	7	
25175	247.47	248.74	1.27	3.56	73.34	.01	1.94	1.49	.82	6.49		72.2	15902	7702	55480	16.14	2	255	28	7	
25176	248.74	250.24	1.50		2.57	.00	.08	.10	.02	.10		3.4	1024	118	865	3.10	5	4	5	317	
25177	257.14	258.10	.96		9.89	.01	.18	.33	.02	.28		7.6	3482	129	2486	4.31	2	9	2	118	
25178	258.10	259.10	1.00	3.61	77.38	.08	1.64	1.98	.31	2.84		54.3	20324	2564	23914	18.18	2	104	7	25	
25179	259.10	260.10	1.00	3.59	120.89	.14	2.38	2.73	.56	4.00		84.0	28033	4772	33769	17.46	2	157	54	15	
25180	260.10	260.92	.82	3.50	92.62	.09	1.61	2.26	.40	3.88		51.2	23417	3113	32332	18.07	2	150	15	19	
25181	260.92	262.55	1.63		1.51	.00	.01	.03	.01	.05		.8	244	78	364	2.22	3	2	5	600	
25182	266.33	267.00	.67		23.79	.02	.55	.29	.30	1.38		26.1	2788	2688	10455	5.65	5	48	20	48	
25183	267.00	269.00	2.00		1.79	.00	.04	.04	.01	.06		1.9	396	105	540	2.43	6	2	4	987	

Hole No: TCU92-42
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15369.13
(metres) E: 10670.60

Azimuth: 112.6
Dip: -46.1
Length (m): 312.10
Elevation: 112.58
(metres)
Purpose:

Core Size: BQ
Drill Name: Conners
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: September 26, 1992
Completed: September 30, 1992
Recovery:

Date Logged: Sept. 27, 1992
Logged By: G. Dawson
Date Re-logged:
Re-logged By:
Report Printed: 21 Feb, 1993 4:31pm

Sample No.	From (m)	To (m)	Inter-val (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25170	208.50	210.00	1.50	1	6	4	268	5	3	84	2	7	1.19	5	20	.70	.07	6	1
25171	210.00	211.55	1.55	7	20	6	171	5	2	84	2	9	1.05	3	33	.55	.05	6	2
25172	211.55	213.00	1.45	1	2	4	257	5	3	80	2	7	1.26	3	2	.51	.06	6	1
25173	245.42	246.47	1.05	1	14	13	680	5	3	107	2	25	4.39	3	10	1.87	.01	6	1
25174	246.47	247.47	1.00	38	12	10	474	5	5	22	25	17	1.22	2	27	1.44	.01	33	1
25175	247.47	248.74	1.27	36	6	7	701	7	7	39	14	14	2.79	2	14	.96	.01	26	1
25176	248.74	250.24	1.50	7	4	4	460	5	2	49	2	5	2.82	15	11	.61	.01	2	1
25177	257.14	258.10	.96	1	40	8	595	5	1	82	2	25	1.98	3	104	1.80	.10	2	1
25178	258.10	259.10	1.00	12	10	4	315	5	1	13	6	11	.47	2	17	.76	.02	8	2
25179	259.10	260.10	1.00	15	5	4	331	5	1	16	13	10	.28	2	12	.82	.04	13	1
25180	260.10	260.92	.82	11	8	3	238	5	1	15	7	10	.20	2	13	.63	.03	13	9
25181	260.92	262.55	1.63	1	20	4	192	5	2	58	2	13	.75	7	39	.63	.10	3	1
25182	266.33	267.00	.67	3	161	26	368	5	1	74	2	57	1.25	2	331	2.57	.14	2	1
25183	267.00	269.00	2.00	1	25	8	182	5	1	88	2	38	.88	5	59	.92	.15	2	1

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-42 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.00	2.14	2.14	2.14	100.00%	1.41	65.89%
2.14	3.96	1.82	1.55	85.16%	0.84	46.15%
3.96	5.49	1.53	1.63	106.54%	1.33	86.93%
5.49	7.01	1.52	1.24	81.58%	0.34	22.37%
7.01	8.53	1.52	1.55	101.97%	0.88	57.89%
8.53	10.06	1.53	1.49	97.39%	1.16	75.82%
10.06	10.97	0.91	0.94	103.30%	0.68	74.73%
10.97	11.58	0.61	0.64	104.92%	0.35	57.38%
11.58	14.63	3.05	2.88	94.43%	1.37	44.92%
14.63	17.68	3.05	3.05	100.00%	1.31	42.95%
17.68	20.73	3.05	2.58	84.59%	0.34	11.15%
20.73	23.77	3.04	3.14	103.29%	0.84	27.63%
23.77	26.82	3.05	3.09	101.31%	0.79	25.90%
26.82	29.87	3.05	2.90	95.08%	0.14	4.59%
29.87	32.92	3.05	3.15	103.28%	0.26	8.52%
32.92	33.83	0.91	0.91	100.00%	0.00	0.00%
33.83	35.97	2.14	2.02	94.39%	0.29	13.55%
35.97	39.01	3.04	3.04	100.00%	0.37	12.17%
39.01	42.06	3.05	3.01	98.69%	0.12	3.93%
42.06	45.11	3.05	2.88	94.43%	0.59	19.34%
45.11	48.16	3.05	3.18	104.26%	1.55	50.82%
48.16	51.21	3.05	3.11	101.97%	1.72	56.39%
51.21	54.25	3.04	3.01	99.01%	2.46	80.92%
54.25	57.30	3.05	3.07	100.66%	2.73	89.51%
57.30	60.35	3.05	2.90	95.08%	0.43	14.10%
60.35	63.40	3.05	2.75	90.16%	0.25	8.20%
63.40	66.45	3.05	3.24	106.23%	0.62	20.33%
66.45	69.49	3.04	3.21	105.59%	0.15	4.93%
69.49	72.54	3.05	3.04	99.67%	0.65	21.31%
72.54	75.59	3.05	3.08	100.98%	1.27	41.64%
75.59	78.64	3.05	3.09	101.31%	3.00	98.36%
78.64	81.69	3.05	3.14	102.95%	0.57	18.69%
81.69	87.78	6.09	6.04	99.18%	1.62	26.60%
87.78	90.83	3.05	3.05	100.00%	2.23	73.11%
90.83	93.88	3.05	3.09	101.31%	1.97	64.59%
93.88	96.93	3.05	3.00	98.36%	1.63	53.44%
96.93	99.97	3.04	3.05	100.33%	0.72	23.68%
99.97	103.02	3.05	2.12	69.51%	0.00	0.00%
103.02	106.07	3.05	2.70	88.52%	0.11	3.61%
106.07	109.12	3.05	2.30	75.41%	0.00	0.00%
109.12	112.17	3.05	2.90	95.08%	0.14	4.59%
112.17	115.21	3.04	3.10	101.97%	2.22	73.03%
115.21	118.26	3.05	3.12	102.30%	1.74	57.05%
118.26	121.31	3.05	3.17	103.93%	1.92	62.95%
121.31	123.14	1.83	2.22	121.31%	1.84	100.55%
123.14	126.49	3.35	3.05	91.04%	2.62	78.21%
126.49	129.54	3.05	3	98.36%	1.99	65.25%
129.54	130.45	0.91	1.03	113.19%	0.67	73.63%
130.45	133.5	3.05	3.07	100.66%	2.56	83.93%
133.50	136.55	3.05	2.99	98.03%	2.83	92.79%
136.55	139.6	3.05	3.01	98.69%	2.53	82.95%
139.60	142.65	3.05	3.08	100.98%	2.58	84.59%
142.65	145.69	3.04	3.01	99.01%	2.95	97.04%
145.69	148.74	3.05	3.03	99.34%	2.31	75.74%
148.74	151.79	3.05	3.05	100.00%	2.38	78.03%
151.79	154.84	3.05	3.03	99.34%	2.88	94.43%
154.84	157.89	3.05	3.05	100.00%	2.87	94.10%
157.89	160.93	3.04	3	98.68%	2.28	75.00%
160.93	163.98	3.05	3.08	100.98%	2.50	81.97%
163.98	167.03	3.05	3.04	99.67%	2.34	76.72%
167.03	170.08	3.05	3.10	101.64%	2.71	88.85%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-42 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
170.08	173.13	3.05	2.98	97.70%	2.57	84.26%
173.13	176.17	3.04	3.04	100.00%	2.54	83.55%
176.17	179.22	3.05	3.08	100.98%	2.68	87.87%
179.22	182.27	3.05	3.07	100.66%	2.07	67.87%
182.27	185.32	3.05	3.01	98.69%	2.05	67.21%
185.32	188.37	3.05	3.05	100.00%	2.51	82.30%
188.37	191.41	3.04	3.12	102.63%	2.88	94.74%
191.41	194.46	3.05	3.10	101.64%	2.72	89.18%
194.46	197.51	3.05	2.96	97.05%	2.71	88.85%
197.51	200.56	3.05	3.04	99.67%	2.70	88.52%
200.56	203.61	3.05	3.02	99.02%	2.74	89.84%
203.61	206.65	3.04	3.03	99.67%	2.34	76.97%
206.65	209.70	3.05	3.09	101.31%	2.43	79.67%
209.70	212.75	3.05	3.11	101.97%	2.48	81.31%
212.75	215.80	3.05	3.02	99.02%	2.01	65.90%
215.80	218.85	3.05	3.00	98.36%	2.01	65.90%
218.85	221.89	3.04	3.05	100.33%	2.20	72.37%
221.89	224.94	3.05	3.02	99.02%	2.29	75.08%
224.94	227.99	3.05	3.03	99.34%	2.44	80.00%
227.99	231.04	3.05	3.05	100.00%	2.13	69.84%
231.04	234.09	3.05	3.10	101.64%	1.77	58.03%
234.09	237.13	3.04	3.04	100.00%	1.44	47.37%
237.13	238.05	0.92	1.01	109.78%	0.43	46.74%
238.05	240.18	2.13	2.06	96.71%	1.47	69.01%
240.18	243.23	3.05	2.99	98.03%	2.04	66.89%
243.23	246.28	3.05	3.02	99.02%	1.65	54.10%
246.28	249.33	3.05	3.05	100.00%	1.99	65.25%
249.33	252.37	3.04	3.05	100.33%	1.89	62.17%
252.37	255.24	2.87	3.11	108.36%	1.63	56.79%
255.24	258.47	3.23	3.03	93.81%	1.37	42.41%
258.47	261.52	3.05	3.06	100.33%	1.87	61.31%
261.52	264.57	3.05	3.05	100.00%	1.99	65.25%
264.57	267.31	2.74	2.75	100.36%	1.07	39.05%
267.31	270.36	3.05	3.14	102.95%	2.04	66.89%
270.36	273.56	3.20	3.16	98.75%	0.96	30.00%
273.56	276.61	3.05	3.05	100.00%	1.42	46.56%
276.61	279.81	3.20	3.21	100.31%	1.03	32.19%
279.81	282.85	3.04	2.96	97.37%	1.52	50.00%
282.85	285.90	3.05	2.95	96.72%	1.98	64.92%
285.90	288.95	3.05	3.03	99.34%	1.92	62.95%
288.95	292.00	3.05	3.02	99.02%	2.26	74.10%
292.00	295.05	3.05	3.08	100.98%	2.26	74.10%
295.05	298.09	3.04	3.03	99.67%	2.34	76.97%
298.09	301.14	3.05	3.06	100.33%	2.02	66.23%
301.14	304.19	3.05	3	98.36%	0.93	30.49%
304.19	307.24	3.05	2.97	97.38%	1.63	53.44%
307.24	310.29	3.05	3.07	100.66%	2.39	78.36%
310.29	312.12	1.83	1.85	101.09%	1.36	74.32%

312.12 END OF HOLE

* Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU92-43
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15369.46
(metres) E: 10669.85

Azimuth: 110.9
Dip: -61.1
Length (m): 349.91
Elevation: 112.52
(metres)
Purpose: To test G Zone.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 1, 1992.
Completed: October 6, 1992.
Recovery:

Date Logged: October 6, 1992.
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:25am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	110.9	-61.1															
3.1	111.1	-60.9	62.5	111.8	-60.4	121.8	111.3	-60.0	181.2	112.0	-59.4	240.6	112.3	-58.6	299.9	113.2	-58.4
9.4	111.1	-60.9	68.7	111.6	-60.1	128.1	111.3	-60.0	187.4	112.0	-59.3	246.8	112.4	-58.6	306.2	113.2	-58.4
12.5	111.2	-60.9	71.8	111.4	-60.0	131.2	111.3	-59.9	190.6	112.1	-59.2	249.9	112.5	-58.6	309.3	113.2	-58.4
15.6	111.2	-60.9	75.0	111.4	-60.0	134.3	111.3	-59.9	193.7	112.1	-58.8	253.1	112.6	-58.6	312.4	113.3	-58.4
18.7	111.4	-60.9	78.1	111.4	-60.0	137.5	111.4	-59.9	196.8	112.1	-58.8	256.2	112.7	-58.5	315.5	113.3	-58.4
21.9	111.4	-60.8	81.2	111.4	-60.0	140.6	111.5	-59.9	199.9	112.1	-58.8	259.3	112.8	-58.5	318.7	113.3	-58.4
25.0	111.4	-60.9	84.3	111.4	-60.0	143.7	111.6	-59.8	203.1	112.1	-58.7	262.4	112.9	-58.5	321.8	113.3	-58.4
28.1	111.4	-60.8	87.5	111.4	-60.0	146.8	111.6	-59.8	206.2	112.1	-58.8	265.5	112.9	-58.5	324.9	113.3	-58.4
31.2	111.4	-60.7	90.6	111.4	-60.0	150.0	111.6	-59.7	209.3	112.1	-58.7	268.7	113.0	-58.5	328.0	113.3	-58.4
34.4	111.4	-60.7	93.7	111.4	-60.0	153.1	111.7	-59.7	212.4	112.1	-58.7	271.8	113.0	-58.5	331.1	113.3	-58.4
37.5	111.4	-60.7	96.8	111.4	-60.0	156.2	111.7	-59.7	215.6	112.1	-58.7	274.9	113.1	-58.5	334.3	113.4	-58.4
40.6	111.4	-60.7	100.0	111.4	-60.0	159.3	111.7	-59.7	218.7	112.1	-58.7	278.0	113.1	-58.5	337.4	113.5	-58.4
43.7	111.4	-60.7	103.1	111.4	-60.0	162.4	111.8	-59.7	221.8	112.1	-58.7	281.2	113.2	-58.4	340.5	113.5	-58.4
46.9	111.4	-60.6	106.2	111.4	-60.0	165.6	111.8	-59.7	224.9	112.1	-58.7	284.3	113.2	-58.4	343.6	113.5	-58.4
50.0	111.4	-60.5	109.3	111.4	-60.0	168.7	111.8	-59.7	228.1	112.1	-58.7	287.4	113.2	-58.3	346.8	113.6	-58.4
53.1	111.4	-60.4	112.5	111.4	-60.0	171.8	111.9	-59.7	231.2	112.1	-58.7	290.5	113.2	-58.4	349.9	113.7	-58.3
56.2	111.4	-60.4	115.6	111.3	-60.0	174.9	112.0	-59.7	234.3	112.2	-58.6	293.7	113.2	-58.4			
59.4	111.5	-60.4	118.7	111.3	-60.0	178.1	112.0	-59.7	237.4	112.2	-58.6	296.8	113.2	-58.4			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	.61	CASING										
.61	60.67	DACITE FLOW: PROPYLITIC Massive, maroon, greyish-green, feldspar(1-2mm) phyric, fine grained dacite flow and lesser flow breccia. Chlorite and epidote veinlets with albite envelopes grade into patchy zones of pervasive albite alteration. Interval is blocky with several zones intensely fractured. Bottom contact										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

is sharp @50° WCA.
7.49 7.59 10cm interval sheared, 2cm gouge @70° WCA.
10.90 11.28 FAULT Gouge and dark green chlorite @40° WCA.
19.30 22.70 FAULT Very blocky, minor clay.
32.93 33.30 FAULT Very blocky, chloritic slips.
34.54 35.80 BASALTIC DYKE: Massive, dark green, fine grained, bottom contact @35° WCA.
37.28 41.89 BASALTIC DYKE: Massive, medium green, fine grained, bottom contact sharp @45° WCA.
42.89 43.70 BASALTIC DYKE: Massive, medium green, fine grained, contacts @45° WCA.
44.20 45.90 BASALTIC DYKE: Massive, medium green, fine grained, contacts @35° WCA.
45.12 48.10 FAULT Blocky, sheared, chloritic slips @30-60° WCA.
51.29 52.74 BASALTIC DYKE: Massive, black, fine grained, bottom contact sharp @45° WCA.
53.20 54.20 BASALTIC DYKE: Massive, black, fine grained, contacts sharp @30° WCA. Top, and @45° bottom.

60.67 158.30 BASALT UNDIFFERENTIATED: PROPYLITIC
Massive, dark green, fine to medium grained basalt flow. Feldspar and pyroxene phyric. Locally blocky. Minor chlorite-epidote veining. Propylitically altered. Intermittent, irregular, patchy-pervasive albite alteration.
64.84 65.90 Dacite flow breccia, Grey, crackled with chloritic fracture healings.
65.90 67.97 FAULT Blocky, chloritic, shearing @45° WCA.
125.00 125.15 Shearing, calcite healed, @45° WCA.

158.30 209.50 FAULT
Major structure. Gouge, broken and ground-up core, calcite-chlorite-hematite altered zone, fractures and shears @30° WCA.
158.30 162.98 Intensely shattered and sheared basalt flows. 158.3-158.5: Gouge and calcite healed fractures @25° WCA.
162.98 170.00 Broken ground, fine grained basalt flows, minor crushing and no gouge.
170.00 174.93 Intensly crushed, deuteric bleaching, clay alteration, gouge, quartz-calcite healed fractures, hematitic.
174.93 182.58 Broken ground but reasonably intact. Feldspar and pyroxene phyric, biotite-chlorite±albite altered.
182.58 209.50 Intensely sheared and shattered rock, much gouge, carbonate healed fractures. Shearing commonly @30° WCA. Abundant hematite. Much of section is pale green and deuterically bleached. Rock is chlorite±biotite altered.

209.50 278.56 BASALT FLOW: CHLORITIC
Dark grey-green-black, medium grained, basaltic flows and flow-breccia.

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Massive, and homogenous, feldspar and pyroxene phyric. Chloritic, patchy albite alteration. Widespread quartz-epidote± chlorite veinlets with albite alteration halos.										
278.56	288.56	DACITE FLOW: PROPYLITIC Mottled grey-green-white, massive,feldspar phyric, with light patchs of albite alteration. Numerous quartz-epidote-chlorite veinlets mainly at 60° WCA. 280.11 281.33 Sheared and fractured, chloritic slips at 10° WCA.	25218	287.50	288.56	1.06	.00	.01	.01	.01	.02	
288.56	295.33	ZINC FACIES: Debris flow. Pale grey-cream colored unit, consisting of sulphide,barite, and felsic volcanic fragments(.3-10cm) in a fine grained matrix of dacite ash tuff and fine grained sulphides. The unit is clay altered. Upper contact is sharp @75° WCA., bottom contact is vague. Internal banding is at 45° WCA. Sulphide clasts consist mainly of galena-sphalerite-pyrite, with lesser chalcopyrite-pyrite. Large fragments are angular, while small clasts are ovoid or lensoid. Sulphide estimates; 3% sphalerite, 3% galena, <1% chalcopyrite, 10% pyrite. 292.3: 5cm shear, minor clay gouge @55° WCA.	25219	288.56	289.50	.94	.13	3.07	.60	1.15	3.86	
			ZBW	288.56	294.50	5.94						
			25220	289.50	290.50	1.00	.06	2.28	.70	1.12	3.84	
			25221	290.50	291.50	1.00	.04	2.57	.81	.63	3.20	
			25222	291.50	292.50	1.00	.12	5.27	1.21	1.66	4.41	
			25223	292.50	293.50	1.00	.07	.96	.45	.37	2.49	
			25224	293.50	294.50	1.00	.06	3.00	1.33	1.15	4.45	
			25225	294.50	295.33	.83	.04	1.95	.47	.57	1.38	
295.33	310.86	DACITE FLOW: Mottled dark grey-green, massive, feldspar phyric with light patchs of albite alteration. Weakly hematitic. Epidote-magnetite-chlorite veins @30-45° WCA. 309.10 310.86 Fine grained, dark green-black, albite altered, possibly altered mafic rock.	25226	295.33	296.50	1.17	.02	.36	.06	.09	1.51	
			25227	309.00	310.86	1.86	.00	.03	.01	.02	.06	
310.86	312.06	ZINC FACIES: Massive, vaguely banded massive sulphide section, 60% total sulphides. Upper and lower contacts are@60° WCA. Gangue is dacite ash tuff. Sulphide estimates; 3% sphalerite, 1% galena, 5% chalcopyrite, 50% pyrite.	25228	310.86	312.06	1.20	.05	4.28	1.62	.15	1.95	
312.06	317.04	DACITE ASH TUFF: Dark grey, massive, homogenous, fine grained, chloritic, weakly hematitic. Patchy albite alteration, ± biotite. Upper contact @60° WCA., lower contact sharp @60° WCA.	25229	312.06	314.50	2.44	.01	.11	.02	.02	.08	
			25230	314.50	317.04	2.54	.00	.01	.00	.01	.06	
317.04	319.58	EXHALITIC TUFF: Pyroclastic flow. Tan, grey-brown. Sulphide clasts up to 4cm diameter. Unit is crudely laminated-banded @60-70° WCA. Coarse aggregates pyrite 12%, whispy sphalerite 3%, galena 1%, spotty chalcopyrite 0.5%, Thin barite lenses. 318.69 319.00 Dark green basaltic inclusion, 1cm band pyrite @60° WCA.	25231	317.04	318.69	1.65	.07	2.33	.89	.63	2.70	
			25232	318.69	319.58	.89	.02	.64	.18	.16	1.85	
319.58	349.91	BASALT FLOW: PROPYLITIC Massive, dark green and grey, locally feldspar phyric(1-2mm), commonly	25233	319.58	321.00	1.42	.00	.01	.02	.01	.03	

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		fine grained. Propylitically altered, numerous epidote-chlorite veinlets @60° WCA., and light patchs albite alteration.										
		322.78 325.30 Blocky ground, calcite healed fractures @60° WCA.										
		325.75 326.06 FAULT Gouge, 10cm, quartz healed with angular pieces of basalt. Shearing @60° WCA.										
349.91		EOH										

Hole No: TCU92-43
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15369.46
(metres) E: 10669.85

Azimuth: 110.9
Dip: -61.1
Length (m): 349.91
Elevation: 112.52
(metres)
Purpose: To test G Zone.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 1, 1992.
Completed: October 6, 1992.
Recovery:

Date Logged: October 6, 1992.
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 19 Feb, 1993 10:06pm

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25218	287.50	288.56	1.06		1.43	.00	.01	.01	.01	.02		.3	74	25	174	1.48	3	0	2	1003	
25219	288.56	289.50	.94	2.92	87.65	.12	2.74	.60	1.15	3.86		86.2	5453	9993	38259	4.51	44	140	209	176	
25220	289.50	290.50	1.00	3.21	62.86	.05	2.03	.70	1.12	3.84		61.4	5761	9637	36747	5.02	35	139	118	163	
25221	290.50	291.50	1.00	3.07	52.92	.04	2.29	.81	.63	3.20		62.6	7351	5633	30425	10.56	46	125	128	148	
25222	291.50	292.50	1.00	3.11	104.66	.11	4.71	1.21	1.66	4.41		123.8	10432	14965	43557	9.60	205	162	460	164	
25223	292.50	293.50	1.00	3.23	47.25	.06	.86	.45	.37	2.49		41.3	4313	3498	23490	4.46	37	103	54	122	
25224	293.50	294.50	1.00	3.10	77.39	.05	2.68	1.33	1.15	4.45		89.8	12148	10534	46114	5.07	28	192	37	112	
25225	294.50	295.33	.83	2.83	35.14	.04	1.74	.47	.57	1.38		58.9	4482	5270	12845	2.41	17	51	11	144	
25226	295.33	296.50	1.17		19.98	.02	.32	.06	.09	1.51		12.4	561	857	12932	1.95	6	46	27	246	
25227	309.00	310.86	1.86		1.07	.00	.03	.01	.02	.06		.9	111	139	509	1.61	2	1	7	455	
25228	310.86	312.06	1.20		61.02	.04	3.82	1.62	.15	1.95		96.0	15867	1218	17476	16.69	63	76	176	409	
25229	312.06	314.50	2.44		4.11	.01	.10	.02	.02	.08		4.6	175	164	713	2.03	2	1	4	532	
25230	314.50	317.04	2.54		.87	.00	.01	.00	.01	.06		.5	52	35	526	2.21	2	0	2	844	
25231	317.04	318.69	1.65		59.73	.06	2.08	.89	.63	2.70		73.8	8801	5554	25637	8.20	19	102	17	131	
25232	318.69	319.58	.89		24.30	.02	.57	.18	.16	1.85		20.7	1821	1407	16146	5.30	14	76	2	234	
25233	319.58	321.00	1.42		1.31	.00	.01	.02	.01	.03		1.5	234	50	248	2.56	5	1	7	490	

Hole No: TCU92-43
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15369.46
(metres) E: 10669.85

Azimuth: 110.9
Dip: -61.1
Length (m): 349.91
Elevation: 112.52
(metres)
Purpose: To test G Zone.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 1, 1992.
Completed: October 6, 1992.
Recovery:

Date Logged: October 6, 1992.
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 21 Feb, 1993 4:31pm

Sample No.	From (m)	To (m)	Interval (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25218	287.50	288.56	1.06	2	7	3	241	5	3	89	2	7	.99	6	11	.55	.05	2	3
25219	288.56	289.50	.94	9	12	4	131	5	2	59	2	2	1.10	2	43	.22	.01	3	1
25220	289.50	290.50	1.00	7	13	3	96	5	2	58	2	1	.71	2	37	.19	.01	2	1
25221	290.50	291.50	1.00	20	13	3	99	5	2	37	2	1	.43	2	35	.20	.01	4	1
25222	291.50	292.50	1.00	19	10	2	73	5	2	35	2	1	.23	2	26	.17	.01	4	4
25223	292.50	293.50	1.00	8	11	4	203	5	3	48	2	2	1.80	2	26	.25	.01	2	1
25224	293.50	294.50	1.00	8	10	3	126	5	3	83	2	1	.67	3	36	.22	.01	3	1
25225	294.50	295.33	.83	2	8	4	192	5	3	92	2	4	1.24	6	14	.40	.01	2	3
25226	295.33	296.50	1.17	2	6	2	409	5	3	66	3	11	1.06	7	12	1.09	.07	2	1
25227	309.00	310.86	1.86	1	4	3	281	5	4	67	2	4	.73	8	7	1.18	.05	2	2
25228	310.86	312.06	1.20	6	10	1	108	5	1	45	3	2	.43	2	17	.53	.01	3	1
25229	312.06	314.50	2.44	1	5	4	388	5	4	80	2	5	.99	7	5	1.54	.08	2	2
25230	314.50	317.04	2.54	1	4	4	420	5	5	68	2	5	.64	13	4	1.59	.13	2	1
25231	317.04	318.69	1.65	10	11	5	271	5	2	88	3	9	.83	2	22	.84	.05	2	1
25232	318.69	319.58	.89	6	86	18	399	5	1	122	2	42	1.39	2	99	1.32	.12	2	3
25233	319.58	321.00	1.42	1	47	8	278	5	2	84	2	79	2.07	4	61	.86	.17	2	4

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-43 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.00	0.61	0.61	0.20	32.79%	0.00	0.00%
0.61	3.05	2.44	2.69	110.25%	1.78	72.95%
3.05	5.79	2.74	2.48	90.51%	1.00	36.50%
5.79	8.84	3.05	2.80	91.80%	0.74	24.26%
8.84	11.89	3.05	3.13	102.62%	1.27	41.64%
11.89	14.94	3.05	2.93	96.07%	0.96	31.48%
14.94	17.98	3.04	3.25	106.91%	1.46	48.03%
17.98	21.03	3.05	2.49	81.64%	0.22	7.21%
21.03	24.08	3.05	2.77	90.82%	0.11	3.61%
24.08	27.13	3.05	3.04	99.67%	0.96	31.48%
27.13	29.57	2.44	2.25	92.21%	0.39	15.98%
29.57	32.61	3.04	2.37	77.96%	0.79	25.99%
32.61	33.22	0.61	0.75	122.95%	0.31	50.82%
33.22	36.27	3.05	2.40	78.69%	1.60	52.46%
36.27	39.32	3.05	3.11	101.97%	1.83	60.00%
39.32	42.37	3.05	3.15	103.28%	1.47	48.20%
42.37	44.20	1.83	1.77	96.72%	0.77	42.08%
44.20	45.42	1.22	1.22	100.00%	0.24	19.67%
45.42	48.46	3.04	3.15	103.62%	0.11	3.62%
48.46	51.05	2.59	2.43	93.82%	0.54	20.85%
51.05	53.80	2.75	3.15	114.55%	1.35	49.09%
53.80	57.00	3.20	3.14	98.12%	1.18	36.87%
57.00	57.30	0.30	0.30	100.00%	0.24	80.00%
57.30	60.35	3.05	3.15	103.28%	1.62	53.11%
60.35	63.70	3.35	3.04	90.75%	1.44	42.99%
63.70	66.45	2.75	2.63	95.64%	1.09	39.64%
66.45	67.97	1.52	1.52	100.00%	0.00	0.00%
67.97	71.32	3.35	3.03	90.45%	1.34	40.00%
71.32	74.37	3.05	3.08	100.98%	1.95	63.93%
74.37	75.90	1.53	1.38	90.20%	0.15	9.80%
75.90	77.72	1.82	1.68	92.31%	0.11	6.04%
77.72	78.94	1.22	1.22	100.00%	0.75	61.48%
78.94	81.99	3.05	3.10	101.64%	2.36	77.38%
81.99	85.04	3.05	3.00	98.36%	2.32	76.07%
85.04	88.09	3.05	3.06	100.33%	2.78	91.15%
88.09	91.13	3.04	3.00	98.68%	2.37	77.96%
91.13	94.18	3.05	3.10	101.64%	2.77	90.82%
94.18	97.23	3.05	3.00	98.36%	2.49	81.64%
97.23	100.28	3.05	2.93	96.07%	2.20	72.13%
100.28	103.33	3.05	3.03	99.34%	2.59	84.92%
103.33	106.38	3.05	2.99	98.03%	2.29	75.08%
106.38	109.43	3.05	2.98	97.70%	2.28	74.75%
109.43	112.47	3.04	3.13	102.96%	2.72	89.47%
112.47	115.52	3.05	3.01	98.69%	2.69	88.20%
115.52	118.57	3.05	3.05	100.00%	2.51	82.30%
118.57	121.62	3.05	3.03	99.34%	2.34	76.72%
121.62	124.66	3.04	3.10	101.97%	2.78	91.45%
124.66	127.71	3.05	2.94	96.39%	1.71	56.07%
127.71	130.76	3.05	2.98	97.70%	2.20	72.13%
130.76	133.20	2.74	2.27	82.85%	1.51	55.11%
133.20	133.50	0.30	0.34	113.33%	0.00	0.00%
133.50	136.55	3.05	3.11	101.97%	2.37	77.70%
136.55	139.90	3.35	3.09	92.24%	2.29	68.36%
139.90	142.95	3.05	3.12	102.30%	2.58	84.59%
142.95	146.00	3.05	3.09	101.31%	2.95	96.72%
146.00	149.05	3.05	2.99	98.03%	1.77	58.03%
149.05	152.10	3.05	3.10	101.64%	2.83	92.79%
152.10	155.10	3.00	3.05	101.67%	2.57	85.67%
155.10	158.19	3.09	3.02	97.73%	2.78	89.97%
158.19	161.24	3.05	2.35	77.05%	0.13	4.26%
161.24	163.98	2.74	1.98	72.26%	0.23	8.39%
163.98	165.51	1.53	1.61	105.23%	0.14	9.15%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-43 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
165.51	167.34	1.83	1.63	89.07%	0.55	30.05%
167.34	170.38	3.04	2.73	89.80%	1.07	35.20%
170.38	173.43	3.05	3.05	100.00%	0.67	21.97%
173.43	176.48	3.05	3.03	99.34%	0.71	23.28%
176.48	179.53	3.05	2.13	69.84%	0.22	7.21%
179.53	182.58	3.05	3.09	101.31%	1.98	64.92%
182.58	185.32	2.74	1.65	60.22%	0.00	0.00%
185.32	187.45	2.13	1.30	61.03%	1.34	62.91%
187.45	190.50	3.05	3.10	101.64%	0.00	0.00%
190.50	193.55	3.05	2.84	93.11%	0.12	3.93%
193.55	196.29	2.74	3.12	113.87%	0.27	9.85%
196.29	197.82	1.53	1.69	110.46%	0.52	33.99%
197.82	201.78	3.96	1.19	30.05%	0.12	3.03%
201.78	203.30	1.52	1.46	96.05%	0.00	0.00%
203.30	204.83	1.53	1.55	101.31%	0.00	0.00%
204.83	206.96	2.13	1.97	92.49%	0.28	13.15%
206.96	209.40	2.44	2.54	104.10%	0.44	18.03%
209.40	212.45	3.05	3.08	100.98%	1.78	58.36%
212.45	215.65	3.20	3.16	98.75%	1.16	36.25%
215.65	218.85	3.20	3.15	98.44%	1.83	57.19%
218.85	222.05	3.20	3.19	99.69%	1.23	38.44%
222.05	225.09	3.04	3.09	101.64%	2.59	85.20%
225.09	228.30	3.21	3.11	96.88%	2.67	83.18%
228.30	231.34	3.04	3.07	100.99%	2.84	93.42%
231.34	234.39	3.05	3.05	100.00%	2.52	82.62%
234.39	237.44	3.05	3.03	99.34%	2.83	92.79%
237.44	240.49	3.05	3.05	100.00%	2.84	93.11%
240.49	243.54	3.05	3.07	100.66%	2.78	91.15%
243.54	246.58	3.04	3.04	100.00%	2.70	88.82%
246.58	249.63	3.05	3.05	100.00%	2.60	85.25%
249.63	252.68	3.05	3.05	100.00%	2.39	78.36%
252.68	255.73	3.05	3.04	99.67%	1.33	43.61%
255.73	258.78	3.05	3.04	99.67%	2.06	67.54%
258.78	261.82	3.04	3.07	100.99%	2.07	68.09%
261.82	264.87	3.05	3.05	100.00%	2.15	70.49%
264.87	267.92	3.05	3.03	99.34%	2.51	82.30%
267.92	270.97	3.05	3.06	100.33%	2.72	89.18%
270.97	274.01	3.04	3.08	101.32%	2.53	83.22%
274.01	277.06	3.05	3.01	98.69%	2.40	78.69%
277.06	280.11	3.05	2.97	97.38%	2.07	67.87%
280.11	281.33	1.22	0.93	76.23%	0.00	0.00%
281.33	283.46	2.13	2.38	111.74%	1.36	63.85%
283.46	286.21	2.75	2.75	100.00%	2.20	80.00%
286.21	289.26	3.05	3.01	98.69%	1.67	54.75%
289.26	292.30	3.04	3.05	100.33%	1.80	59.21%
292.30	295.33	3.03	3.05	100.66%	1.60	52.81%
295.33	298.40	3.07	3.01	98.05%	2.30	74.92%
298.40	301.45	3.05	3.03	99.34%	2.19	71.80%
301.45	304.50	3.05	2.98	97.70%	1.56	51.15%
304.50	307.54	3.04	2.96	97.37%	2.01	66.12%
307.54	310.59	3.05	3.02	99.02%	1.50	49.18%
310.59	313.64	3.05	3.10	101.64%	2.35	77.05%
313.64	316.69	3.05	3.00	98.36%	1.81	59.34%
316.69	319.74	3.05	3.10	101.64%	1.90	62.30%
319.74	322.78	3.04	3.01	99.01%	0.82	26.97%
322.78	325.83	3.05	2.75	90.16%	0.12	3.93%
325.83	328.88	3.05	2.98	97.70%	1.26	41.31%
328.88	331.93	3.05	2.93	96.07%	2.33	76.39%
331.93	334.98	3.05	3.08	100.98%	2.56	83.93%
334.98	338.03	3.05	2.20	72.13%	1.12	36.72%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-43 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
338.03	341.07	3.04	3.17	104.28%	2.35	77.30%
341.07	344.12	3.05	3.04	99.67%	1.86	60.98%
344.12	347.17	3.05	2.98	97.70%	1.39	45.57%
347.17	349.91	2.74	2.51	91.61%	1.17	42.70%

349.91 END OF HOLE

- Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU92-44
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15370.38
(metres) E: 10669.56

Azimuth: 87.6
Dip: -26.1
Length (m): 313.30
Elevation: 113.04
(metres)
Purpose: To test G Zone.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 9, 1992
Completed: October 15, 1992
Recovery:

Date Logged: October 15, 1992
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:25am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	87.6	-26.1															

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	65.65	DACITE FLOW: PROPYLITIC Massive, grey-green, maroon, fine grained feldspar phyric. Cross-cutting chlorite-epidote veinlets @ 50-70° to CA with associated narrow albite alteration haloes. Section is variably fractured, blocky, poor RQD. 7.70 8.02 FAULT Intensely sheared, chloritic, 7cm gouge. Upper contact @70° to CA, lower contact @60° to CA. 14.02 15.50 Intensely jointed rock, chloritic joint surfaces @30° and 70° to CA. 17.68 19.20 Same as 14.02 to 15.50m. 20.73 21.30 Same as 14.02 to 15.50m, chloritic, calcite healed fractures. 24.48 25.95 Same as 14.02 to 15.50m, chloritic, minor shearing. 25.95 43.43 Weakly maroon, strongly jointed, no gouge. Most jointing, 60 to 80° to CA. 40.50 65.65 DACITE FLOW BRECCIA: Pale green-yellow, locally bleached-albite altered. Chloritic. Strongly jointed, calcite healed fractures. Lower contact sharp @70° to CA, 1cm gouge at contact, 20cm bleached at contact. 43.43 44.32 FAULT Sheared, chloritic, with 3cm gouge. Shearing @70° to CA.										
65.65	71.00	QUARTZ FELDSPAR PORPHYRY DYKE: Massive, homogenous, medium to dark green, strongly jointed. Feldspar crystals are zoned and vary from 1 to 10cm. Quartz-eyes are ubiquitous(1-4mm). Bottom contact is sharp @45° to CA.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
71.00	72.17	FAULT Shattered and sheared zone. Chloritic, 25cm gouge, clay. Bottom contact is sharp @60° to CA.										
72.17	107.06	D Grey-maroon, massive, feldspar phyric, homogenous, felsic flows, chlorite healed microfractures with associated albite alteration haloes. Moderately jointed. Infrequent quartz-epidote veinlets @60° to CA. At 103.12: 10cm basalt dyke @30° to CA. Lower contact sharp @60° to CA. Chloritic.										
107.06	136.10	BASALT UNDIFFERENTIATED: PROPYLITIC Massive, dark green-grey fine grained to aphanitic flows, homogenous, chloritic. Widespread quartz-chlorite-magnetite veinlets(1-5mm). Bottom contact @60° to CA, sharp.										
136.10	152.84	DACITE FLOW: PROPYLITIC Grey-maroon, massive, feldspar phyric(1-3mm), homogenous, felsic flows. Quartz-chlorite-epidote healed fractures with white-bleached albite altered haloes. 145.73 146.20 BASALTIC DYKE: Dark grey, fine grained-aphanitic. Contacts chilled at 30° to CA.										
152.84	182.56	BASALT FLOW: PROPYLITIC Massive, dark green-grey, pyroxene phyric flows and flow breccias. Propylitically altered zones(up to 70cm) epidote+chlorite±garnet+magnetite. Minor albite alteration. Contacts are vague.										
182.56	186.90	BASALT ASH TUFF: Black, very fine grained, thinly laminated unit @20 to 40° WCA. Dark green dust component. Several narrow quartz-chlorite-albite altered zones @60° to CA.										
186.90	199.52	VOLCANIC SEDIMENTS: PROPYLITIC Light to dark-grey and dark-green where chloritic. Uniform polymictic unit consisting of rounded hematitic siliceous fragments(1-5mm), dark green chloritic fragments(to 5mm), cherty white fragments(1-3mm), and grey felsic volcanic fragments(1-6mm). Bedding is vague @45° to CA. Section is chloritic and epidote altered. Bottom contact @45° to CA. 198.30m: Basalt dyke, 15cm, contacts @45° and 30° to CA.	25251	198.00	199.52	1.52	.00	.04	.04	.03	.09	
199.52	202.43	EXHALITIC TUFF: SERICITIC Debris flow. Greyish-brown unit, contorted bedding with cherty, felsic volcanic, and sulphide clasts. Locally crude banding @45° to CA. Sericite-pyrite-clay alteration. Clasts up to 4cm, average 2 to 10mm. Sulphide clasts include; sphalerite+galena, pyrite+chalcopyrite, and	25252 ZBX 25253	199.52 199.52 201.02	201.02 204.63 202.43	1.50 5.11 1.41	.04 .02	1.97 1.10	.33 .17	.62 .47	2.51 1.35	

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		galena+pyrite. Sulphide estimates; 2% sphalerite, 2% galena, 0.5% chalcopyrite, 8% pyrite(disseminated and vein). Bottom contact @70° to CA.										
202.43	204.63	EXHALITIC TUFF: SERICITIC Grey, thinly bedded dacite ash tuff. Whisps and thin bands of sulphides with minor interbedded chert and barite. Bedding sharp @60° WCA. Sulphide estimates; 3% sphalerite, 2% galena, 0.5% chalcopyrite, 10% pyrite. 203.26 203.43 BASALTIC DYKE: Basalt dyke, black, fine grained. Contacts @60° to CA.	25254 25255	202.43 203.60	203.60 204.63	1.17 1.03	.05 .04	1.58 2.85	.29 2.00	.92 1.17	3.04 3.42	
204.63	205.24	VOLCANIC SEDIMENTS: Similar to 186.90 to 199.52. Bedding @60° to CA.	25256	204.63	205.24	.61	.00	.03	.03	.05	.22	
205.24	208.85	BASALT FLOW: SILICIFIED Dark grey-black, fine grained, locally feldspar phyric flows. Massive. Irregular patchy albite-epidote alteration. Both contacts are irregular.										
208.85	215.21	BASALT ASH TUFF: Dark grey-black, very fine grained basalt ash or dust tuffs, or tuffaceous argillite. Massive. Faint bedding @45° to CA. Albite alteration localized along fractures as white haloes, locally pervasive.										
215.21	232.58	BASALT FLOW BRECCIA: PROPYLITIC Fine grained, dark green-black basalt flow breccia. Interlocking dark chloritic fragments in a limey green whispy matrix. Intense epidote-magnetite alteration through section. Crude flow banding @45° to CA. 223.4: 40cm tuffaceous section 4mm siliceous hematitic fragments.										
232.58	264.06	BASALT FLOW: Massive, fine grained, dark green to black flows and flow breccias. Quartz filled vesicles. Faint resorbed feldspar crystals <1-2mm. Very hard. Widespread quartz-chlorite-garnet veins with narrow albite alteration envelopes. Flow breccias generally have an increase in chlorite-epidote and magnetite.										
264.06	269.10	BASALT ASH TUFF: Massive, black, fine grained to aphanitic. No bedding or banding. Bottom contact approximate.										
269.10	313.30	BASALT FLOW: Massive, dark green to black, fine grained flows and flow breccias. Widespread patchs of quartz±chlorite filled vesicles(1-4mm) circular or ovoid. Interflow patchs of chlorite-epidote alteration. Short sections of white feldspar(<1-2mm) crystals, lineated @60° to CA. 295.60 308.15 Prominent banding @65° to CA. Pale green laminea and darker fine grained material.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
313.30		EOH										

Hole No: TCU92-44
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15370.38
(metres) E: 10669.56

Azimuth: 87.6
Dip: -26.1
Length (m): 313.30
Elevation: 113.04
(metres)
Purpose: To test G Zone.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 9, 1992
Completed: October 15, 1992
Recovery:

Date Logged: October 15, 1992
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 19 Feb, 1993
10:06pm

Sample No.	From (m)	To (m)	Inter-val (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25251	198.00	199.52	1.52		2.79	.00	.04	.04	.03	.09		3.5	400	276	717	3.70	9	3	2	1115	
25252	199.52	201.02	1.50		41.59	.04	1.76	.33	.62	2.51		61.0	2990	5464	24247	3.31	40	93	23	59	
25253	201.02	202.43	1.41		23.61	.02	.98	.17	.47	1.35		34.7	1656	4355	13176	2.66	82	53	63	68	
25254	202.43	203.60	1.17		45.88	.04	1.41	.29	.92	3.04		46.7	2621	7701	28523	6.30	42	112	76	60	
25255	203.60	204.63	1.03		71.55	.04	2.54	2.00	1.17	3.42		80.0	18798	8233	33701	10.80	148	135	194	42	
25256	204.63	205.24	.61		3.20	.00	.03	.03	.05	.22		2.2	316	460	1764	2.87	14	7	3	214	

Hole No: TCU92-44
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15370.38
(metres) E: 10669.56

Azimuth: 87.6
Dip: -26.1
Length (m): 313.30
Elevation: 113.04
(metres)
Purpose: To test G Zone.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 9, 1992
Completed: October 15, 1992
Recovery:

Date Logged: October 15, 1992
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 21 Feb, 1993 4:31pm

Sample No.	From (m)	To (m)	Interval (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25251	198.00	199.52	1.52	1	21	11	437	5	3	191	2	35	1.10	8	36	2.38	.16	11	1
25252	199.52	201.02	1.50	5	9	6	136	5	1	58	11	3	.16	2	7	.73	.04	12	1
25253	201.02	202.43	1.41	4	4	7	83	5	1	69	6	5	.12	2	6	.44	.03	9	1
25254	202.43	203.60	1.17	6	16	13	232	5	1	58	10	35	.73	2	13	.94	.07	7	1
25255	203.60	204.63	1.03	14	10	13	93	5	1	31	2	4	.16	2	1	.24	.01	10	2
25256	204.63	205.24	.61	2	13	9	296	5	3	50	2	12	.68	8	8	1.88	.13	4	1

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-44 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.00	3.05	3.05	3.25	106.56%	2.07	67.87%
3.05	5.49	2.44	2.34	95.90%	1.17	47.95%
5.49	8.53	3.04	3.02	99.34%	1.42	46.71%
8.53	10.97	2.44	2.33	95.49%	0.73	29.92%
10.97	14.02	3.05	3.05	100.00%	1.22	0.40
14.02	17.68	3.66	3.66	100.00%	0.70	0.19
17.68	20.73	3.05	3.07	100.66%	0.36	0.12
20.73	23.77	3.04	2.97	97.70%	0.73	0.24
23.77	26.82	3.05	3.07	100.66%	0.58	0.19
26.82	29.87	3.05	2.89	94.75%	1.21	0.40
29.87	32.92	3.05	3.10	101.64%	0.71	0.23
32.92	35.97	3.05	3.01	98.69%	0.29	0.10
35.97	39.01	3.04	3.02	99.34%	0.79	0.26
39.01	42.06	3.05	2.89	94.75%	1.14	0.37
42.06	45.11	3.05	3.07	100.66%	0.42	0.14
45.11	48.16	3.05	3.07	100.66%	1.41	0.46
48.16	51.21	3.05	3.05	100.00%	1.91	0.63
51.21	54.25	3.04	3.03	99.67%	1.19	0.39
54.25	56.08	1.83	2.02	110.38%	0.39	0.21
56.08	58.22	2.14	1.98	92.52%	0.13	0.06
58.22	60.35	2.13	1.94	91.08%	0.00	0.00
60.35	63.40	3.05	2.92	95.74%	0.34	0.11
63.40	66.45	3.05	2.95	96.72%	0.00	0.00
66.45	69.49	3.04	3.07	100.99%	0.48	0.16
69.49	72.54	3.05	3.13	102.62%	0.00	0.00
72.54	75.59	3.05	3.05	100.00%	1.01	0.33
75.59	78.64	3.05	3.05	100.00%	1.23	0.40
78.64	81.69	3.05	2.93	96.07%	1.24	0.41
81.69	84.73	3.04	3.13	102.96%	1.54	0.51
84.73	87.78	3.05	3.00	98.36%	1.10	0.36
87.78	90.83	3.05	3.02	99.02%	2.14	0.70
90.83	93.88	3.05	3.02	99.02%	2.01	0.66
93.88	96.93	3.05	3.01	98.69%	1.12	0.37
96.93	99.97	3.04	3.02	99.34%	1.65	0.54
99.97	103.02	3.05	3.07	100.66%	2.28	0.75
103.02	106.07	3.05	3.05	100.00%	1.33	0.44
106.07	109.12	3.05	3.01	98.69%	2.02	0.66
109.12	112.17	3.05	3.01	98.69%	2.59	0.85
112.17	115.21	3.04	3.03	99.67%	2.88	0.95
115.21	118.26	3.05	3.01	98.69%	2.67	0.88
118.26	121.31	3.05	3.06	100.33%	3.01	0.99
121.31	124.36	3.05	3.06	100.33%	2.57	0.84
124.36	127.41	3.05	3.06	100.33%	2.76	0.90
127.41	130.45	3.04	3.04	100.00%	2.92	0.96
130.45	133.50	3.05	3.08	100.98%	2.83	0.93
133.50	136.55	3.05	3.05	100.00%	1.66	0.54
136.55	139.60	3.05	3.04	99.67%	1.79	0.59
139.60	142.65	3.05	3.04	99.67%	0.97	0.32
142.65	145.69	3.04	3.02	99.34%	1.68	0.55
145.69	146.30	0.61	0.68	111.48%	0.34	0.56
146.30	148.74	2.44	2.39	97.95%	1.29	0.53
148.74	151.79	3.05	3.04	99.67%	2.72	0.89
151.79	154.84	3.05	2.95	96.72%	1.54	0.50
154.84	157.89	3.05	3.03	99.34%	1.15	0.38
157.89	160.93	3.04	3.02	99.34%	1.79	0.59
160.93	163.98	3.05	3.04	99.67%	1.56	0.51
163.98	167.03	3.05	3.01	98.69%	2.60	0.85
167.03	170.08	3.05	3.08	100.98%	2.19	0.72
170.08	173.13	3.05	3.10	101.64%	2.24	0.73
173.13	176.17	3.04	2.96	97.37%	2.01	0.66
176.17	179.22	3.05	3.05	100.00%	2.01	0.66

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-44 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
179.22	182.27	3.05	2.99	98.03%	1.75	0.57
182.27	185.32	3.05	3.03	99.34%	1.75	0.57
185.32	188.37	3.05	3.00	98.36%	1.30	0.43
188.37	191.41	3.04	3.24	106.58%	1.68	0.55
191.41	194.46	3.05	3.11	101.97%	2.08	0.68
194.46	197.51	3.05	2.97	97.38%	1.85	0.61
197.51	200.56	3.05	3.08	100.98%	1.26	0.41
200.56	203.61	3.05	2.93	96.07%	0.00	0.00
203.61	204.83	1.22	1.22	100.00%	0.00	0.00
204.83	207.87	3.04	3.08	101.32%	2.55	0.84
207.87	211.23	3.36	3.13	93.15%	2.67	0.79
211.23	212.75	1.52	1.65	108.55%	1.43	0.94
212.75	215.80	3.05	3.07	100.66%	2.12	0.70
215.80	218.85	3.05	3.02	99.02%	2.20	0.72
218.85	221.90	3.05	3.05	100.00%	2.00	0.66
221.90	224.94	3.04	3.09	101.64%	1.26	0.41
224.94	228.00	3.06	3.02	98.69%	1.58	0.52
228.00	231.04	3.04	3.04	100.00%	2.54	0.84
231.04	234.09	3.05	3.08	100.98%	2.88	0.94
234.09	237.13	3.04	3.09	101.64%	2.58	0.85
237.13	238.66	1.53	1.47	96.08%	1.32	0.86
238.66	241.71	3.05	3.05	100.00%	2.21	0.72
241.71	244.45	2.74	2.63	95.99%	1.01	0.37
244.45	247.50	3.05	3.08	100.98%	2.77	0.91
247.50	250.55	3.05	3.11	101.97%	2.16	0.71
250.55	253.90	3.35	3.02	90.15%	2.78	0.83
253.90	256.95	3.05	3.10	101.64%	2.08	0.68
256.95	259.38	2.43	2.50	102.88%	1.58	0.65
259.38	261.52	2.14	2.09	97.66%	1.17	0.55
261.52	264.57	3.05	3.07	100.66%	1.80	0.59
264.57	267.61	3.04	3.04	100.00%	2.00	0.66
267.61	270.66	3.05	3.00	98.36%	1.94	0.64
270.66	273.71	3.05	3.01	98.69%	1.70	0.56
273.71	276.76	3.05	3.03	99.34%	1.72	0.56
276.76	279.81	3.05	3.00	98.36%	2.36	0.77
279.81	281.33	1.52	1.57	103.29%	0.76	0.50
281.33	284.38	3.05	3.06	100.33%	2.14	0.70
284.38	285.90	1.52	1.48	97.37%	1.29	0.85
285.90	288.95	3.05	2.98	97.70%	2.62	0.86
288.95	292.00	3.05	3.00	98.36%	2.30	0.75
292.00	295.05	3.05	3.12	102.30%	1.44	0.47
295.05	298.09	3.04	2.97	97.70%	2.39	0.79
298.09	300.23	2.14	2.29	107.01%	1.83	0.86
300.23	301.14	0.91	0.56	61.54%	0.49	0.54
301.14	304.20	3.06	3.15	102.94%	2.82	0.92
304.20	307.24	3.04	3.06	100.66%	1.64	0.54

307.24 END OF HOLE

- Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU92-45
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15369.21
(metres) E: 10670.49

Azimuth: 109.9
Dip: 15.9
Length (m): 301.14
Elevation: 114.43
(metres)
Purpose: To test G Zone.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 17, 1992
Completed: October 19, 1992
Recovery:

Date Logged: October 19, 1992.
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:26am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	109.9	15.9															
3.3	110.0	16.1	55.6	111.8	18.1	108.0	113.3	20.0	160.4	115.0	20.6	212.7	116.7	21.8	265.1	118.7	23.0
9.8	110.1	16.5	62.2	112.0	18.5	114.6	113.5	20.0	166.9	115.2	20.8	219.3	116.8	21.8	271.7	119.0	23.1
13.1	110.3	16.5	65.5	112.1	18.7	117.8	113.7	20.1	170.2	115.3	20.9	222.6	116.9	21.8	274.9	119.0	23.2
16.4	110.5	16.8	68.7	112.2	18.8	121.1	113.7	20.1	173.5	115.4	21.2	225.8	117.0	21.8	278.2	119.1	23.3
19.6	110.6	16.9	72.0	112.3	19.0	124.4	113.8	20.2	176.7	115.6	21.3	229.1	117.1	21.9	281.5	119.3	23.5
22.9	110.6	16.9	75.3	112.3	19.0	127.7	113.9	20.2	180.0	115.7	21.3	232.4	117.2	22.1	284.8	119.4	23.6
26.2	110.7	16.9	78.6	112.4	19.1	130.9	114.1	20.4	183.3	115.8	21.4	235.7	117.4	22.1	288.0	119.4	23.7
29.5	110.8	17.1	81.8	112.6	19.4	134.2	114.2	20.4	186.6	115.9	21.3	238.9	117.5	22.1	291.3	119.5	23.8
32.7	111.0	17.2	85.1	112.7	19.4	137.5	114.3	20.4	189.8	116.0	21.3	242.2	117.6	22.1	294.6	119.6	23.9
36.0	111.0	17.3	88.4	112.8	19.4	140.7	114.4	20.4	193.1	116.2	21.3	245.5	117.7	22.2	297.8	119.9	24.0
39.3	111.3	17.5	91.6	112.9	19.6	144.0	114.6	20.4	196.4	116.3	21.4	248.8	117.7	22.3	301.1	119.9	24.0
42.5	111.4	17.7	94.9	113.0	19.7	147.3	114.6	20.4	199.6	116.3	21.5	252.0	117.8	22.4			
45.8	111.4	17.8	98.2	113.1	19.9	150.6	114.7	20.4	202.9	116.4	21.5	255.3	118.1	22.6			
49.1	111.6	17.8	101.5	113.2	20.0	153.8	114.8	20.4	206.2	116.5	21.6	258.6	118.3	22.6			
52.4	111.7	18.0	104.7	113.3	20.0	157.1	114.9	20.5	209.5	116.6	21.6	261.8	118.6	22.9			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	2.05	DACITE FLOW BRECCIA: PROPYLITIC Grey to light green, maroon,chloritic, hematitic, feldspar phyric, medium grained, siliceous. Chlorite veinlets crosscutting @70° to CA., with thin albite altered haloes grading to pervasive albitization.										
2.05	8.60	BASALTIC DYKE: Dark green to grey, fine grained, chloritic, irregular pervasive albite alteration. Bottom contact sharp @70° to CA.										
8.60	29.80	DACITE FLOW BRECCIA: PROPYLITIC										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		Similar to 0.0-2.05m.Chloritic, albitic, silicified, very blocky. Jointing intense @60-75° to CA. 11.05 11.50 FAULT Intensely sheared @60°-75° to CA. Gouge, crushed dacite. RQD is very low, rock is shattered.										
29.80	32.62	QUARTZ FELDSPAR PORPHYRY DYKE: Medium to dark grey, fine grained, large(1-7mm) zoned feldspar crystals, and 1-4mm quartz eyes. Contacts irregular, approximately @60-70° to CA.										
32.62	45.53	DACITE FLOW BRECCIA: PROPYLITIC Grey, pale-green, maroon, locally feldspar phyric, matrix is very fine grained, aphanitic, glassy, silicified, albitic. Intensely jointed @70-80° to CA. Calcite healed fractures. Joint surfaces are chloritic.										
45.53	50.30	FAULT Sheared, crenulated dacitic section, chloritic, gouge, clayey, weakly hematitic. Abundant shearing @30° to CA. Major shear direction @70-80° to CA.										
50.30	58.47	DACITE FLOW BRECCIA: PROPYLITIC Grey-green, silicified, fine grained, sheared. Chlorite and clay along shear planes. Intense jointing @60-75° to CA.										
58.47	62.70	FAULT Intensely sheared and crackled dacite flows. Abundant gouge and chlorite altered slip planes. Major shearing @70° to CA.										
62.70	117.52	DACITE FLOW: Pale green-grey to maroon, fine-medium grained, feldspar phyric. Spotty albite, chlorite, epidote, hematite alteration. Widespread quartz-chlorite-epidote veins at various angles. Moderate Jointing at 60-70° to CA. Short sections may represent pyroclastic flow debris. 98.00 106.00 Maroon, strongly hematitic.										
117.52	184.10	BASALT FLOW: PROPYLITIC Grey-pale green, massive, fine-medium grained flows with minor flow breccias. Chloritic, vaguely feldspar ± pyroxene phyric. Minor veining, widespread quartz veins @35° to CA. Patchy albite alteration(minor). 178.00 184.10 Dark-grey to black, fine grained, silicified ± hornfelsed.										
184.10	187.15	SLOKO RYHOLITE DYKE: Rhyolitic, white, cream, tan,light grey-green, color banding @70° to CA. Massive. Upper contact @70° to CA., Lower contact broken, approximately the same attitude.										
187.15	187.55	FAULT Chlorite healed shear @70° to CA. Jointing @80° to CA. 3cm gouge.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
187.55	301.14	BASALT FLOW: PROPYLITIC Black, dark-grey, very fine grained, feldspar phyric, vesiculated flows and flow breccias. Hard, dense. Vesicles are 2 to 7mm, quartz infilled. Interflow breccias are chlorite-epidote altered with magnetite. 193.66 201.10 Crowded, feldspar phyric. Densely packed feldspar crystals and crystal fragments(<1-2mm) hosted in a black fine grained matrix. Narrow bleached zones to 4cm. 210.56 211.74 Interflow breccia, contorted, laminated, siliceous, chloritic volcanic debris. Thinly laminated @45° to CA. Chlorite-epidote-albite altered. 211.74 262.00 Primarily flow breccia, patchy feldspar phyric sections. Grey, dark green, fine grained. Sections are bleached, siliceous, very fine grained, alteration is fracture controlled. Alteration consists of chlorite, epidote, quartz, and albite. 245.9-247.36: Intense, quartz-albite altered, flow breccia. 262.00 272.00 Light green and grey, medium grained, feldspar phyric(1-3mm) flows, massive, epidote-chlorite altered, groundmass is grey altered. 272.00 301.14 Fine grained, dark grey and black basalt flows. 277.37-278.75m: Quartz veined, crackled, chlorite and epidote altered. Banding @30° to CA. 285.6-295.05m: Blocky, strongly jointed @60-80° to CA. Patchy epidote-chlorite-albite alteration. Glassy, silicified patchs. 295.05-301.14: Scattered, sparse, white(1-2mm) feldspar crystals. Quartz filled amygdules(2-3mm). Patchy silicification, albite alteration.									
301.14		EOH										

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-45 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.00	3.05	3.05	3.05	100.00%	2.25	73.77%
3.05	5.49	2.44	2.28	93.44%	1.03	42.21%
5.49	8.53	3.04	2.92	96.05%	2.15	70.72%
8.53	11.58	3.05	2.75	90.16%	1.49	48.85%
11.58	13.72	2.14	1.57	73.36%	0.45	21.03%
13.72	16.76	3.04	3.00	98.68%	1.41	46.38%
16.76	19.81	3.05	3.27	107.21%	0.78	25.57%
19.81	22.86	3.05	2.97	97.38%	0.62	20.33%
22.86	26.82	3.96	3.36	84.85%	0.67	16.92%
26.82	29.87	3.05	3.15	103.28%	0.76	24.92%
29.87	32.92	3.05	3.05	100.00%	2.11	69.18%
32.92	35.97	3.05	3.05	100.00%	0.98	32.13%
35.97	39.01	3.04	3.00	98.68%	1.24	40.79%
39.01	42.06	3.05	2.97	97.38%	0.70	22.95%
42.06	45.11	3.05	3.06	100.33%	0.11	3.61%
45.11	48.16	3.05	3.00	98.36%	0.11	3.61%
48.16	51.21	3.05	2.60	85.25%	0.23	7.54%
51.21	54.25	3.04	3.05	100.33%	0.32	10.53%
54.25	57.30	3.05	3.10	101.64%	0.54	17.70%
57.30	60.35	3.05	3.04	99.67%	0.12	3.93%
60.35	63.40	3.05	2.42	79.34%	0.15	4.92%
63.40	66.45	3.05	3.10	101.64%	2.40	78.69%
66.45	69.49	3.04	3.03	99.67%	2.91	95.72%
69.49	72.54	3.05	3.01	98.69%	2.66	87.21%
72.54	75.59	3.05	3.03	99.34%	2.80	91.80%
75.59	78.64	3.05	3.04	99.67%	2.81	92.13%
78.64	81.69	3.05	3.03	99.34%	2.71	88.85%
81.69	84.73	3.04	2.97	97.70%	2.72	89.47%
84.73	87.78	3.05	3.02	99.02%	1.66	54.43%
87.78	90.83	3.05	3.05	100.00%	1.84	60.33%
90.83	93.88	3.05	3.12	102.30%	1.30	42.62%
93.88	96.93	3.05	3.05	100.00%	2.32	76.07%
96.93	99.97	3.04	3.01	99.01%	2.58	84.87%
99.97	103.02	3.05	3.12	102.30%	2.54	83.28%
103.02	106.07	3.05	3.02	99.02%	2.42	79.34%
106.07	109.12	3.05	2.85	93.44%	1.11	36.39%
109.12	112.17	3.05	3.04	99.67%	2.63	86.23%
112.17	115.21	3.04	3.09	101.64%	2.81	92.43%
115.21	118.26	3.05	3.00	98.36%	2.57	84.26%
118.26	121.31	3.05	3.02	99.02%	1.33	43.61%
121.31	124.36	3.05	3.03	99.34%	2.30	75.41%
124.36	127.41	3.05	3.06	100.33%	3.06	100.33%
127.41	130.45	3.04	3.07	100.99%	2.85	93.75%
130.45	133.50	3.05	3.40	111.48%	2.75	90.16%
133.50	136.55	3.05	2.98	97.70%	2.78	91.15%
136.55	139.60	3.05	3.10	101.64%	3.10	101.64%
139.60	142.65	3.05	3.05	100.00%	3.05	100.00%
142.65	145.69	3.04	3.05	100.33%	2.30	75.66%
145.69	148.74	3.05	3.03	99.34%	2.75	90.16%
148.74	151.79	3.05	3.04	99.67%	2.70	88.52%
151.79	154.84	3.05	3.08	100.98%	2.90	95.08%
154.84	157.89	3.05	3.04	99.67%	3.04	99.67%
157.89	160.93	3.04	3.03	99.67%	3.03	99.67%
160.93	163.98	3.05	3.02	99.02%	3.02	99.02%
163.98	167.03	3.05	3.02	99.02%	2.90	95.08%
167.03	170.08	3.05	3.03	99.34%	2.82	92.46%
170.08	173.13	3.05	3.05	100.00%	3.05	100.00%
173.13	176.17	3.04	3.04	100.00%	1.90	62.50%
176.17	179.22	3.05	3.05	100.00%	2.36	77.38%
179.22	182.27	3.05	3.05	100.00%	2.73	89.51%
182.27	185.32	3.05	3.05	100.00%	1.25	40.98%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-45 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
185.32	188.37	3.05	3.02	99.02%	2.01	65.90%
188.37	191.41	3.04	3.04	100.00%	2.30	75.66%
191.41	194.46	3.05	3.05	100.00%	3.00	98.36%
194.46	197.51	3.05	3.05	100.00%	2.68	87.87%
197.51	200.56	3.05	3.01	98.69%	2.86	93.77%
200.56	203.60	3.04	3.04	100.00%	2.85	93.75%
203.60	206.65	3.05	2.98	97.70%	2.91	95.41%
206.65	209.70	3.05	3.05	100.00%	2.93	96.07%
209.70	212.75	3.05	3.03	99.34%	2.18	71.48%
212.75	215.80	3.05	3.05	100.00%	2.75	90.16%
215.80	218.85	3.05	3.00	98.36%	2.01	65.90%
218.85	221.89	3.04	3.15	103.62%	2.30	75.66%
221.89	224.94	3.05	3.15	103.28%	2.08	68.20%
224.94	227.99	3.05	3.00	98.36%	2.75	90.16%
227.99	231.04	3.05	3.05	100.00%	1.54	50.49%
231.04	234.09	3.05	3.07	100.66%	3.07	100.66%
234.09	237.13	3.04	3.01	99.01%	2.75	90.46%
237.13	240.18	3.05	3.02	99.02%	2.30	75.41%
240.18	243.23	3.05	3.05	100.00%	2.40	78.69%
243.23	246.28	3.05	3.12	102.30%	1.10	36.07%
246.28	249.33	3.05	3.05	100.00%	1.47	48.20%
249.33	252.37	3.04	3.05	100.33%	1.90	62.50%
252.37	255.42	3.05	3.00	98.36%	2.51	82.30%
255.42	258.47	3.05	3.02	99.02%	1.88	61.64%
258.47	261.52	3.05	2.98	97.70%	2.90	95.08%
261.52	264.57	3.05	3.04	99.67%	2.90	95.08%
264.57	267.61	3.04	3.00	98.68%	2.86	94.08%
267.61	270.66	3.05	3.14	102.95%	2.78	91.15%
270.66	273.71	3.05	3.09	101.31%	2.90	95.08%
273.71	276.76	3.05	3.09	101.31%	2.51	82.30%
276.76	279.81	3.05	3.02	99.02%	2.80	91.80%
279.81	282.85	3.04	3.03	99.67%	3.03	99.67%
282.85	285.70	2.85	2.98	104.56%	1.74	61.05%
285.70	288.95	3.25	3.09	95.08%	1.10	33.85%
288.95	291.39	2.44	2.45	100.41%	0.49	20.08%
291.39	292.61	1.22	1.20	98.36%	0.50	40.98%
292.61	295.05	2.44	2.20	90.16%	0.26	10.66%
295.05	298.09	3.04	3.06	100.66%	2.24	73.68%
298.09	301.14	3.05	3.07	100.66%	2.39	78.36%

301.14 END OF HOLE

* Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

Hole No: TCU92-46
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15367.79
(metres) E: 10667.11

Azimuth: 179.8
Dip: -32.1
Length (m): 368.43
Elevation: 112.64 (metres)
Purpose: To test 'A' stope area, beneath 5200 level.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 19, 1992
Completed: October 25, 1992.
Recovery:

Date Logged: October 25, 1992
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 9 Feb, 1993 4:26am

DOWN HOLE SURVEY TESTS:

Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip	Depth (m)	Azimuth	Dip
0.0	179.8	-32.1															
3.2	179.6	-31.7	66.1	180.9	-29.1	129.1	181.8	-26.5	192.1	182.6	-23.2	255.1	183.4	-20.4	318.1	184.6	-18.0
9.4	179.6	-31.5	72.4	181.0	-29.0	135.4	181.8	-26.2	198.4	182.6	-22.9	261.4	183.4	-20.2	324.4	184.7	-17.9
12.6	179.7	-31.5	75.6	181.1	-28.8	138.6	182.0	-25.9	201.6	182.6	-22.8	264.6	183.4	-20.0	327.5	184.7	-17.7
15.8	179.8	-31.5	78.7	181.2	-28.8	141.7	182.1	-25.8	204.7	182.5	-22.7	267.7	183.5	-19.8	330.7	184.6	-17.7
18.9	179.8	-31.5	81.9	181.2	-28.7	144.9	182.1	-25.7	207.9	182.5	-22.6	270.9	183.5	-19.8	333.9	184.6	-17.6
22.0	179.9	-31.5	85.0	181.2	-28.5	148.0	182.1	-25.5	211.0	182.5	-22.5	274.0	183.5	-19.7	337.0	184.6	-17.5
25.2	180.0	-31.3	88.2	181.2	-28.2	151.2	182.2	-25.2	214.2	182.8	-22.2	277.2	183.6	-19.5	340.1	184.6	-17.4
28.4	180.2	-31.2	91.3	181.2	-28.1	154.3	182.5	-25.0	217.3	182.8	-22.2	280.3	183.7	-19.4	343.3	184.6	-17.3
31.5	180.3	-31.0	94.5	181.4	-27.9	157.5	182.6	-24.8	220.5	182.9	-21.9	283.5	183.8	-19.2	346.4	184.6	-17.2
34.6	180.3	-30.7	97.6	181.6	-27.8	160.6	182.6	-24.6	223.6	182.9	-21.7	286.6	183.8	-19.0	349.6	184.8	-17.0
37.8	180.4	-30.6	100.8	181.6	-27.7	163.8	182.6	-24.4	226.8	182.9	-21.6	289.8	183.9	-18.8	352.7	184.9	-16.9
40.9	180.3	-30.4	103.9	181.7	-27.6	166.9	182.7	-24.1	229.9	182.9	-21.6	292.9	183.9	-18.8	355.9	184.9	-16.8
44.1	180.3	-30.2	107.1	181.7	-27.5	170.1	182.7	-24.0	233.1	182.9	-21.5	296.0	184.0	-18.7	359.0	185.0	-16.8
47.2	180.3	-30.1	110.2	181.7	-27.3	173.2	182.7	-23.9	236.2	183.0	-21.4	299.2	184.1	-18.6	362.2	185.0	-16.7
50.4	180.3	-30.0	113.4	181.7	-27.1	176.4	182.7	-23.8	239.4	183.2	-21.3	302.4	184.2	-18.5	365.3	185.0	-16.6
53.5	180.3	-29.8	116.5	181.7	-27.0	179.5	182.7	-23.6	242.5	183.2	-21.2	305.5	184.2	-18.4	368.5	185.0	-16.5
56.7	180.5	-29.5	119.7	181.7	-26.9	182.7	182.7	-23.5	245.7	183.4	-21.0	308.6	184.3	-18.4			
59.8	180.5	-29.4	122.8	181.7	-26.8	185.8	182.7	-23.4	248.8	183.4	-20.8	311.8	184.4	-18.3			
63.0	180.8	-29.2	126.0	181.7	-26.6	189.0	182.7	-23.3	252.0	183.4	-20.6	315.0	184.5	-18.1			

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
.00	57.84	DACITE FLOW BRECCIA: PROPYLITIC Light green-grey, fine grained, intermittently feldspar phyric, propylitically altered. Intermittent silicification. Chlorite-epidote±magnetite veinlets @45-60° to CA, with narrow albite alteration envelopes. Patchy hematite alteration.										
.00	13.15	Chlorite-epidote altered, medium green, glassy with white										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number

irregular feldspar crystals(1-3mm). Moderately jointed @60° to CA.

13.15 14.65 FAULT Crushed, shattered section, minor gouge, chlorite @30-45° to CA. Fabric trending parallel to core axis.

14.65 15.50 Chlorite altered dacite flow breccia, non-phyric, mottled texture.

15.50 16.75 FAULT Sheared, shattered section, gouge, chloritic slip surfaces. Deuteric clay alteration(white, chaulky). Shearing @45° to CA and sub-parallel with the core axis.

16.75 31.20 Saussuritized dacite flow. Pale yellow-white, epidote-clay-silica altered. Mottled grey-yellow-white core surface, hard. Many fractures are lined with epidote, and are weakly hematitic. Jointing is moderate @5 to 30° to CA. Chlorite-epidote-magnetite veinlets @30° to CA.

31.20 34.70 Silicified and locally chloritic, very hard, textures vague. Fine grained, glassy, milky white to dark-grey.

34.70 57.84 Intensely maroon, feldspar phyric flows. Blocky and sheared. Major shear direction parallel with the core axis. Crosscut by widespread epidote-chlorite veinlets @45-60° to CA. RQD's very low. 42.34-42.61: BDY: Black, fine grained, contacts irregular. 43.3: BDY: 25cm, black, fine grained, sheared @45° to CA. 48.6-49.26: BDY: Black, fine grained, chloritic, contacts @80° to CA. 54.38-54.98: BDY: Black, fine grained, contacts @70° to CA. 54.98-57.84: Dacite flow. Feldspar phyric, maroon.hearing sub-parallel to CA. Bleached extensively(albite alteration).

57.84 106.59 BASALT FLOW: PROPYLITIC
Grey, fine grained, massive, homogenous, uniform unit over it's entirety. Feldspar grains to 1mm are altered and vague. Chloritic. Top contact sharp @85° to CA. Bottom contact @70° to CA. No veining, or albite alteration. 87.4-88.2: Intense epidote-chlorite alteration. Minimal jointing.

106.59 109.00 DACITE FLOW: PROPYLITIC
Similar to 34.7-57.84m.

109.00 125.48 QUARTZ FELDSPAR PORPHYRY DYKE: PROPYLITIC
Quartz-feldspar porphyritic unit hosted in a fine grained altered matrix of chlorite, epidote, quartz, and feldspar. Feldspar phenocrysts are white, zoned, 2-8mm, subhedral. Quartz-eyes are rounded, 1-4mm. Top contact sharp @22° to CA. Jointing @20, 45, and 60° to CA. Unit is medium grey and massive.

121.20 125.48 Light grey, sericite-chlorite altered phase of QFP. Widespread feldspar phenocrysts. Intensely sheared @5-20° to CA, with chlorite and calcite on slip surfaces.

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
125.48	162.85	DACITE FLOW BRECCIA: SILICIFIED Light green to dark grey, weakly hematitic flow breccia. Sparsely feldspar phyric. Felsic clasts fine grained, very siliceous, hosted by a chlorite-epidote altered dacite matrix. 125.48 146.00 Intensely silicified, textures vague, epidote, hematite altered. Strong jointing mainly @20° to CA. 141.5: BDY: 10cm, contacts vague. 128.93 129.80 Intensely sheared @5-15° to CA, calcite healed, bleached pale grey. 146.00 162.85 Variably silicified, chloritic, hematitic, epidote and albite altered. Maroon grey, fine grained with short feldspar phyric sections. 146.7: BDY: 15cm basalt dyke contact @60° to CA. 147.1-147.83: Ground core, sheared, minor clay, chloritic slip surfaces. Vuggy quartz-epidote veinlets(5-10mm), @20 and 45° to CA. 164.14: 12cm basalt dyke @60° to CA.										
162.85	182.80	DACITE FLOW: SILICIFIED Intensely maroon. Feldspar phyric(1-3mm), uniform, locally silicified, propylitically altered flows. Epidote and chlorite healed fractures @30° to CA. Moderate jointing @30° to CA. 166.73 168.00 Fine grained, pale green, tan felsic dyke(?) @30° to CA.										
182.80	189.76	DACITE FLOW BRECCIA: PROPYLITIC Propylitically altered dacite flow breccia. Massive, hematized fragments, feldspar phyric hematitic fragments, chlorite-epidote-magnetite-albite altered veins and patchs. Matrix is dark green, chloritic, with patchy albite alteration. Large maroon clasts, up to 10cm. Intermittent silicification.										
189.76	206.02	DACITE LAPILLI TUFF: CHLORITIC Dark grey-green, layered unit with abundant polymictic fragments, 3 to 6mm, including; maroon very fine grained siliceous, grey very fine grained felsic, maroon feldspar phyric, grey fine grained felsic, hosted in a dark green chloritic and finer grained composite of above fragments. Bedding @60° to CA. Massive section, minor jointing.										
206.02	208.80	DACITE LAPILLI TUFF: CHLORITIC Dark grey-green, medium grained, resorbed white(1-3mm) siliceous fragments. Very hard. Massive. Upper and lower contacts vague. 207.5: Epidote altered section, 30cm, related to a shear @15° to CA.										
208.80	216.95	DACITE LAPILLI TUFF: CHLORITIC SERICITIC Dark green and black. Black, chlorite altered feldspar phyric clasts hosted in a fine grained grey dacitic matrix. Ragged whisps and clots of white quartz. Weakly hematitic. Minor shearing @5-10° to CA. Black chlorite along slips.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
216.95	217.75	EXHALITIC TUFF: SERICITIC DACITE ASH TUFF: SILICIFIED Thinly bedded, tan, light brown, pyritic felsic dust tuff. Cherty, sericitic, finely laminated pyrite(5%) @80° to CA. Baritic.	25257	216.95	217.75	.80	.07	.59	.11	.68	1.69	
			ZBY	216.95	224.69	7.74						
217.75	224.69	ZINC FACIES: SILICIFIED , WITH BANDED SPHALERITE , WITH BANDED PYRITE Thinly interbedded, whispy sulphides with barite and less sericite. Sphalerite is honey yellow, thinly banded throughout, slightly more massive over top half of section. Galena is disseminated throughout. Chalcopyrite is spotty, irregularly ditributed. Pyrite is also banded and disseminated. Sulphide estimates; 15-18% sphalerite, 3% galena, 0.5% chalcopyrite, 12% pyrite. Gangue is mainly coarse crystalline barite and sericite. Bedding @70° to CA near the top, and @50° to CA near the bottom.	25258	217.75	218.75	1.00	.04	2.21	.58	1.51	12.20	
			25259	218.75	219.75	1.00	.03	1.49	.47	1.02	13.66	
			25260	219.75	220.75	1.00	.01	1.12	.48	.37	9.40	
			25261	220.75	221.75	1.00	.01	1.39	.63	.07	16.74	
			25262	221.75	222.75	1.00	.21	2.09	.78	.05	10.05	
			25263	222.75	223.75	1.00	.01	1.01	.97	.03	7.16	
			25264	223.75	224.69	.94	.01	2.29	1.22	.39	13.11	
224.69	226.34	DACITE ASH TUFF: SERICITIC Dark green, waxy, sericitic, soft, intensely altered section. Thin whispy pyrite near top @50° to CA. Protolith uncertain. Generally barren.	25265	224.69	226.34	1.65	.01	.22	.34	.01	.27	
226.34	229.08	PYRITE FACIES: SERICITIC Fine to medium grained pyrite(70%) with a white baritic gangue. Thin dark green patchs of waxy, green sericite. Massive, no internal banding.	25266	226.34	227.00	.66	.00	.11	.05	.02	.42	
			25267	227.00	228.00	1.00	.01	.04	.09	.01	.16	
			25268	228.00	229.08	1.08	.01	.26	.19	.01	.23	
229.08	229.56	ZINC FACIES: SERICITIC , WITH BANDED SPHALERITE Banded, contorted, sulphides hosted in a sericitic, baritic, gypsum gangue. Sulphide estimate; 12% sphalerite, trace galena, trace chalcopyrite, 30% pyrite.	25269	229.08	229.56	.48	.02	2.09	.71	1.35	12.92	
229.56	246.93	EXHALITIC TUFF: CHERT: DACITE ASH TUFF: RHYOLITE ASH TUFF: White to pale grey, uniform, fine grained, siliceous, sericitic, cherty. Widespread white felsic clasts resorbed, up to 6cm diameter. Massive. Trace disseminated pyrite.	25270	229.56	231.00	1.44	.00	.08	.09	.02	.14	
246.93	271.35	DACITE LAPILLI TUFF: CHLORITIC SERICITIC SILICIFIED Grey and white mottled rock. White felsic fragments, 1-4cm, subrounded in a dark-grey to black chloritic-sericitic matrix containing 1% coarse euhedral pyrite grains. Crude layering @45° to CA. Felsic fragments are milky white, siliceous and weak propylitically altered to chlorite and epidote. Light brown tinge, weak biotite alteration. Unsorted, fragment supported unit, contacts are gradational.											
271.35	289.21	EXHALITIC TUFF: SILICIFIED White, distinctly banded, cherty unit with black sericite-chlorite interlaminations. Bedding is very well developed @45 to 70° to CA. Cherty component is delicately laminated, pale green, very hard, very fine grained. 271.35 275.54 Sericite altered dacite tuff, brown tinge, biotite										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Interval (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
		alteration(?).										
		287.45 289.21 Section grades down to clastic unsorted fragmented cherty debris flow with small pyritic fragments and thin whisps.										
289.21	290.26	EXHALITIC TUFF: SERICITIC DACITE ASH TUFF: Very fine grained, grey, bedded @45° to CA, with white irregular bands of barite. No sulphides.	25271	289.21	290.26	1.05	.00	.33	.10	.18	.21	
			25271	289.21	290.26	1.05	.00	.33	.10	.18	.21	
290.26	293.73	ZINC FACIES: SERICITIC , WITH BANDED PYRITE , WITH BANDED SPHALERITE Banded, laminated semi-massive sulphides, hosted in sericitic dacite ash tuff and barite, Bedded sulphides @75° to CA, including sphalerite, galena, chalcopyrite, and pyrite. Sulphides are contorted in lower portion of section. Sulphide estimate; 12% sphalerite, 4% galena, 0.5% chalcopyrite, 15% pyrite.	25272	290.26	291.50	1.24	.05	7.47	1.69	2.80	6.37	
			ZBZ	290.26	293.73	3.47						
			25273	291.50	292.50	1.00	.04	5.65	.85	12.09	19.00	
			25274	292.50	293.73	1.23	.02	1.70	.70	4.47	9.78	
293.73	299.28	PYRITE FACIES: Massive pyrite, medium to coarse grained, 95% pyrite. No bedding or banding, no other sulphides. Minor barite.	25275	293.73	295.00	1.27	.01	.20	.15	.05	.27	
			25275	293.73	295.00	1.27	.01	.20	.15	.05	.27	
			25276	295.00	296.00	1.00	.01	.18	.12	.05	.09	
			25277	296.00	297.00	1.00	.01	.07	.02	.03	.05	
			25278	297.00	298.00	1.00	.01	.06	.01	.01	.05	
			25279	298.00	299.28	1.28	.00	.02	.02	.01	.02	
299.28	303.30	SLOKO RYHOLITE DYKE: Pale green, very fine grained rhyolitic dyke. Uniformly bedded @75° to CA near contact. Upper contact at 85° to CA. Bottom contact approximately @45° to CA.										
303.30	320.53	EXHALITIC TUFF: SERICITIC DACITE ASH TUFF: , WITH DISSEMINATED PYRITE Pale grey-white, mottled core surface, Crudely layered ash tuff @60° to CA, altered to sericite with white cherty patchs irregularly distributed. Pyrite is disseminated and crudely thinly banded(5%). Minor barite throughout section.										
		310.80 316.65 Dark grey, intensely sericitic, increase in pyrite(10%) as coarse aggregates.										
		316.65 317.19 BASALTIC DYKE: Black, very fine grained, contacts sharp @80° to CA.										
		317.19 320.53 Pale grey, intensely sericitic, pyritic(4%), cherty.										
320.53	321.34	SLOKO RYHOLITE DYKE: Similar to 299.28 to 303.30m. Upper contact sharp @70° to CA. Bottom contact broken.										
321.34	324.12	EXHALITIC TUFF: CHERT: SERICITIC Similar to 303.30 to 320.53m. Cherty and pyritic.										
		323.45 324.12 Semi-massive pyrite(60%) coarse, granular. Sericitic gangue.										

INTERVAL (m) From:	To:	DESCRIPTION	Sample No.	From (m)	To (m)	Inter-val (m)	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Field Number
324.12	352.38	SLOKO RYHOLITE DYKE: Grey, yellow-green, fine grained, massive rhyolite dyke. Pyrite occurs as very fine grained black blemishs 1 to 3mm in diameter. Upper contact @20° to CA, banding near upper contact @5° to CA. Bottom contact sharp @40° to CA. 331.0-337.8: Blocky, chloritic slip surfaces 5 to 15° to CA.										
352.38	356.16	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Grey, cherty dacite ash tuff. Sericitic, pyritic, tumbled, massive. Cherty rounded pods. Abundant disseminated and clots of medium grained pyrite(12%). Siliceous. 355.26 355.49 BASALTIC DYKE: Black, fine grained, contacts sharp @65° to CA.										
356.16	356.97	BASALTIC DYKE: Black, aphanitic, contacts @45° to CA.										
356.97	357.60	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Similar to 303.30 to 320.53. Jointing @25° to CA, chloritic slips.										
357.60	363.35	SLOKO RYHOLITE DYKE: Similar to 324.12 to 352.38m.										
363.35	368.43	EXHALITIC TUFF: SERICITIC , WITH DISSEMINATED PYRITE Light to dark grey, fine grained, thinly laminated, whispy interbedded very fine grained pyrite bands, cherty patchs, intensely sericitic(waxy green). Good bedding @70° to CA.										
368.43		EOH										

Hole No: TCU92-46
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15367.79
(metres) E: 10667.11

Azimuth: 179.8
Dip: -32.1
Length (m): 368.43
Elevation: 112.64
(metres)
Purpose: To test 'A' stope area, beneath 5200 level.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 19, 1992
Completed: October 25, 1992.
Recovery:

Date Logged: October 25, 1992
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 19 Feb, 1993 10:07pm

Sample No.	From (m)	To (m)	Interval (m)	SG	NSR1 US$/ tonne	Au Oz/T	Ag Oz/T	Cu %	Pb %	Zn %	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Fe %	As ppm	Cd ppm	Sb ppm	Ba ppm	Field Number
25257	216.95	217.75	.80		40.92	.07	.53	.11	.68	1.69		13.8	1026	6353	16910	4.38	166	55	64	66	
25258	217.75	218.75	1.00	4.03	111.24	.04	1.97	.58	1.51	12.20		45.5	3858	11737	99999	8.75	1115	483	653	79	
25259	218.75	219.75	1.00	3.98	109.61	.02	1.33	.47	1.02	13.66		26.5	3120	8073	99999	8.25	647	562	264	64	
25260	219.75	220.75	1.00	4.09	75.14	.01	1.00	.48	.37	9.40		24.4	3866	3065	95145	7.84	671	383	150	91	
25261	220.75	221.75	1.00	3.90	123.12	.01	1.24	.63	.07	16.74		33.4	4873	646	99999	3.46	552	748	149	99	
25262	221.75	222.75	1.00	4.09	150.61	.19	1.86	.78	.05	10.05		66.5	7066	395	99999	6.76	40	453	6	104	
25263	222.75	223.75	1.00	3.94	63.88	.01	.90	.97	.03	7.16		27.8	8682	162	71915	17.07	413	284	34	75	
25264	223.75	224.69	.94	3.85	111.37	.01	2.04	1.22	.39	13.11		41.8	7835	3277	99999	6.23	2314	514	218	87	
25265	224.69	226.34	1.65		8.85	.01	.20	.34	.01	.27		6.5	3161	90	2203	5.65	352	11	25	48	
25266	226.34	227.00	.66	3.97	5.25	.00	.10	.05	.02	.42		2.3	453	123	3250	16.71	24	14	2	124	
25267	227.00	228.00	1.00	3.74	4.23	.01	.04	.09	.01	.16		1.4	752	49	1112	16.44	21	4	2	185	
25268	228.00	229.08	1.08	3.71	7.54	.01	.23	.19	.01	.23		6.4	1391	88	1585	14.88	253	6	76	154	
25269	229.08	229.56	.48	3.85	107.95	.02	1.86	.71	1.35	12.92		48.0	5255	9435	99999	11.15	1561	426	526	242	
25270	229.56	231.00	1.44		3.47	.00	.07	.09	.02	.14		4.6	925	232	1325	2.94	44	6	20	72	
25271	289.21	290.26	1.05		5.57	.00	.29	.10	.18	.21		11.2	989	1784	1830	4.24	289	9	232	97	
25271	289.21	290.26	1.05		5.57	.00	.29	.10	.18	.21		11.2	989	1784	1830	4.24	289	9	232	97	
25272	290.26	291.50	1.24	3.72	109.30	.05	6.67	1.69	2.80	6.37		175.5	12741	15839	60469	13.84	2554	218	4545	26	
25273	291.50	292.50	1.00	4.15	203.30	.04	5.05	.85	12.09	19.00		112.5	5146	23023	99999	7.65	1180	713	1057	52	
25274	292.50	293.73	1.23	3.82	97.52	.02	1.52	.70	4.47	9.78		29.7	4726	10206	92123	14.25	326	339	90	4	
25275	293.73	295.00	1.27	4.38	6.94	.01	.18	.15	.05	.27		5.7	1405	562	2335	17.86	121	10	5	64	
25275	293.73	295.00	1.27	4.38	6.94	.01	.18	.15	.05	.27		5.7	1405	562	2335	17.86	121	10	5	64	
25276	295.00	296.00	1.00	4.83	6.04	.01	.16	.12	.05	.09		4.9	1090	410	784	19.29	53	1	3	29	
25277	296.00	297.00	1.00	4.46	3.11	.01	.06	.02	.03	.05		1.6	154	200	403	18.58	38	0	2	16	
25278	297.00	298.00	1.00	4.50	3.32	.01	.05	.01	.01	.05		1.6	138	94	378	19.56	51	0	2	18	
25279	298.00	299.28	1.28	4.31	1.92	.00	.02	.02	.01	.02		.9	118	55	195	19.09	33	0	2	23	

Hole No: TCU92-46
Client: REDFERN RESOURCES LTD.
Property: Tulsequah Chief
Claim:
Co-ords: N: 15367.79
(metres) E: 10667.11

Azimuth: 179.8
Dip: -32.1
Length (m): 368.43
Elevation: 112.64
(metres)
Purpose: To test 'A' stope area, beneath 5200 level.

Core Size: BQ
Drill Name: Connors
Contractor: F. Boisvenu Diamond Drilling Ltd.
Started: October 19, 1992
Completed: October 25, 1992.
Recovery:

Date Logged: October 25, 1992
Logged By: W.D. Melnyk
Date Re-logged:
Re-logged By:
Report Printed: 21 Feb, 1993 4:32pm

Sample No.	From (m)	To (m)	Inter-val (m)	Mo ppm	Ni ppm	Co ppm	Mn ppm	U ppm	Th ppm	Sr ppm	Bi ppm	V ppm	Ca %	La ppm	Cr ppm	Mg %	Ti %	B ppm	W ppm
25257	216.95	217.75	.80	5	32	12	39	15	1	44	2	3	.18	2	4	.13	.01	2	1
25258	217.75	218.75	1.00	33	7	8	38	5	1	18	15	1	.12	2	2	.03	.01	14	1
25259	218.75	219.75	1.00	67	6	9	16	5	1	20	4	1	.08	2	3	.01	.01	19	1
25260	219.75	220.75	1.00	24	2	8	16	5	1	25	15	1	.09	2	4	.02	.01	14	1
25261	220.75	221.75	1.00	38	6	6	27	5	1	38	20	1	.07	2	4	.01	.01	8	1
25262	221.75	222.75	1.00	48	1	6	19	5	1	31	31	1	.05	2	4	.01	.01	9	1
25263	222.75	223.75	1.00	41	12	14	25	5	1	15	23	1	.09	2	6	.05	.01	3	1
25264	223.75	224.69	.94	57	8	5	87	5	1	33	25	1	.15	2	3	1.00	.01	4	1
25265	224.69	226.34	1.65	2	2	12	333	5	3	21	13	5	.28	2	3	6.17	.01	3	1
25266	226.34	227.00	.66	16	5	14	163	5	1	15	2	2	.17	2	4	2.51	.01	2	1
25267	227.00	228.00	1.00	23	7	15	225	5	1	17	5	4	.26	2	7	3.33	.01	2	1
25268	228.00	229.08	1.08	51	10	15	387	5	2	19	2	8	.25	2	13	4.87	.01	2	1
25269	229.08	229.56	.48	21	21	12	305	5	1	40	19	7	.90	2	9	1.57	.02	2	1
25270	229.56	231.00	1.44	7	13	8	209	5	2	53	4	4	.77	2	23	.61	.01	4	6
25271	289.21	290.26	1.05	3	22	35	53	5	1	33	3	5	.28	2	6	.13	.01	6	1
25271	289.21	290.26	1.05	3	22	35	53	5	1	33	3	5	.28	2	6	.13	.01	6	1
25272	290.26	291.50	1.24	6	14	17	262	5	1	12	21	1	.17	2	4	.89	.01	2	1
25273	291.50	292.50	1.00	10	20	10	223	5	1	16	17	1	.09	2	4	.51	.01	5	2
25274	292.50	293.73	1.23	4	20	15	694	5	1	8	19	5	.07	2	3	5.19	.01	2	1
25275	293.73	295.00	1.27	1	4	15	307	5	1	6	6	1	.06	2	7	1.73	.01	4	1
25275	293.73	295.00	1.27	1	4	15	307	5	1	6	6	1	.06	2	7	1.73	.01	4	1
25276	295.00	296.00	1.00	1	12	14	246	5	1	8	2	1	.11	2	10	1.13	.01	2	1
25277	296.00	297.00	1.00	1	7	13	280	5	1	7	2	1	.08	2	9	1.24	.01	2	1
25278	297.00	298.00	1.00	1	6	15	129	5	2	5	3	1	.07	2	6	.40	.01	2	2
25279	298.00	299.28	1.28	1	5	14	196	5	2	12	2	1	.11	2	8	.60	.01	2	2

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-46 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
0.00	3.05	3.05	3.18	104.26%	1.80	59.02%
3.05	5.49	2.44	1.98	81.15%	1.00	40.98%
5.49	8.53	3.04	3.10	101.97%	1.84	60.53%
8.53	11.58	3.05	3.05	100.00%	2.09	68.52%
11.58	14.63	3.05	2.68	87.87%	0.86	28.20%
14.63	17.68	3.05	2.44	80.00%	0.25	8.20%
17.68	20.73	3.05	2.95	96.72%	1.25	40.98%
20.73	23.16	2.43	2.61	107.41%	2.00	82.30%
23.16	26.21	3.05	3.18	104.26%	2.08	68.20%
26.21	29.57	3.36	3.08	91.67%	2.37	70.54%
29.57	32.61	3.04	3.07	100.99%	1.46	48.03%
32.61	35.66	3.05	3.02	99.02%	1.07	35.08%
35.66	38.71	3.05	3.12	102.30%	1.15	37.70%
38.71	41.45	2.74	2.62	95.62%	1.28	46.72%
41.45	44.50	3.05	3.06	100.33%	0.41	13.44%
44.50	47.24	2.74	2.48	90.51%	0.23	8.39%
47.24	50.29	3.05	2.84	93.11%	1.58	51.80%
50.29	51.21	0.92	1.07	116.30%	0.45	48.91%
51.21	54.25	3.04	3.00	98.68%	1.20	39.47%
54.25	57.30	3.05	3.00	98.36%	0.82	26.89%
57.30	60.35	3.05	3.03	99.34%	1.97	64.59%
60.35	63.40	3.05	2.74	89.84%	1.90	62.30%
63.40	66.45	3.05	2.99	98.03%	2.80	91.80%
66.45	69.49	3.04	3.07	100.99%	3.07	100.99%
69.49	72.54	3.05	3.08	100.98%	3.08	100.98%
72.54	75.59	3.05	2.96	97.05%	2.96	97.05%
75.59	78.64	3.05	3.04	99.67%	3.04	99.67%
78.64	81.69	3.05	3.00	98.36%	2.67	87.54%
81.69	84.73	3.04	3.10	101.97%	2.80	92.11%
84.73	87.78	3.05	2.94	96.39%	2.60	85.25%
87.78	90.83	3.05	3.06	100.33%	2.57	84.26%
90.83	93.88	3.05	3.05	100.00%	2.97	97.38%
93.88	96.93	3.05	3.02	99.02%	2.97	97.38%
96.93	99.97	3.04	3.05	100.33%	3.05	100.33%
99.97	103.02	3.05	3.02	99.02%	2.30	75.41%
103.02	106.07	3.05	3.02	99.02%	3.02	99.02%
106.07	109.12	3.05	2.96	97.05%	1.63	53.44%
109.12	112.17	3.05	3.05	100.00%	3.05	100.00%
112.17	115.21	3.04	3.14	103.29%	2.35	77.30%
115.21	118.26	3.05	2.98	97.70%	1.48	48.52%
118.26	120.40	2.14	2.05	95.79%	0.93	43.46%
120.40	123.44	3.04	3.01	99.01%	0.94	30.92%
123.44	124.36	0.92	0.91	98.91%	0.52	56.52%
124.36	127.41	3.05	3.00	98.36%	0.57	18.69%
127.41	128.93	1.52	1.35	88.82%	0.80	52.63%
128.93	131.98	3.05	3.03	99.34%	0.99	32.46%
131.98	135.03	3.05	2.80	91.80%	2.01	65.90%
135.03	136.55	1.52	1.53	100.66%	1.53	100.66%
136.55	139.60	3.05	2.50	81.97%	1.71	56.07%
139.60	142.65	3.05	3.18	104.26%	0.96	31.48%
142.65	145.69	3.04	3.06	100.66%	1.52	50.00%
145.69	147.83	2.14	1.73	80.84%	1.12	52.34%
147.83	150.88	3.05	2.98	97.70%	1.64	53.77%
150.88	153.92	3.04	3.07	100.99%	2.29	75.33%
153.92	157.28	3.36	3.22	95.83%	2.53	75.30%
157.28	160.32	3.04	3.06	100.66%	1.76	57.89%
160.32	163.37	3.05	2.98	97.70%	1.76	57.70%
163.37	166.73	3.36	3.54	105.36%	1.00	29.76%
166.73	169.77	3.04	3.32	109.21%	0.83	27.30%
169.77	172.21	2.44	2.27	93.03%	1.65	67.62%
172.21	175.26	3.05	3.18	104.26%	2.21	72.46%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-46 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
175.26	178.31	3.05	3.00	98.36%	3.00	98.36%
178.31	181.36	3.05	3.10	101.64%	3.10	101.64%
181.36	184.40	3.04	3.11	102.30%	1.78	58.55%
184.40	187.45	3.05	3.03	99.34%	2.57	84.26%
187.45	190.80	3.35	3.18	94.93%	2.18	65.07%
190.80	193.85	3.05	3.10	101.64%	3.10	101.64%
193.85	196.90	3.05	3.02	99.02%	2.54	83.28%
196.90	199.95	3.05	3.08	100.98%	2.20	72.13%
199.95	203.00	3.05	2.99	98.03%	2.85	93.44%
203.00	206.35	3.35	3.35	100.00%	2.75	82.09%
206.35	209.40	3.05	3.01	98.69%	2.43	79.67%
209.40	212.45	3.05	3.13	102.62%	2.00	65.57%
212.45	215.49	3.04	3.10	101.97%	2.61	85.86%
215.49	218.85	3.36	3.42	101.79%	2.14	63.69%
218.85	221.89	3.04	3.07	100.99%	3.07	100.99%
221.89	224.94	3.05	3.08	100.98%	3.08	100.98%
224.94	227.99	3.05	2.99	98.03%	2.41	79.02%
227.99	231.04	3.05	3.08	100.98%	3.08	100.98%
231.04	234.09	3.05	3.00	98.36%	3.00	98.36%
234.09	237.13	3.04	3.02	99.34%	2.84	93.42%
237.13	240.18	3.05	3.08	100.98%	2.81	92.13%
240.18	243.23	3.05	3.01	98.69%	2.86	93.77%
243.23	246.28	3.05	3.13	102.62%	2.63	86.23%
246.28	249.33	3.05	3.06	100.33%	2.54	83.28%
249.33	252.37	3.04	3.03	99.67%	2.88	94.74%
252.37	255.42	3.05	3.05	100.00%	2.91	95.41%
255.42	258.47	3.05	3.06	100.33%	2.91	95.41%
258.47	261.52	3.05	3.04	99.67%	2.78	91.15%
261.52	264.57	3.05	3.06	100.33%	2.80	91.80%
264.57	267.61	3.04	3.02	99.34%	2.96	97.37%
267.61	270.66	3.05	3.09	101.31%	2.58	84.59%
270.66	273.71	3.05	3.04	99.67%	2.56	83.93%
273.71	276.76	3.05	3.04	99.67%	2.41	79.02%
276.76	279.81	3.05	3.02	99.02%	2.97	97.38%
279.81	282.85	3.04	3.10	101.97%	2.66	87.50%
282.85	285.90	3.05	3.05	100.00%	2.56	83.93%
285.90	288.95	3.05	3.00	98.36%	2.56	83.93%
288.95	292.00	3.05	3.08	100.98%	1.92	62.95%
292.00	295.05	3.05	3.01	98.69%	2.62	85.90%
295.05	298.09	3.04	3.04	100.00%	2.72	89.47%
298.09	301.14	3.05	2.96	97.05%	2.43	79.67%
301.14	304.20	3.06	3.04	99.35%	1.15	37.58%
304.20	307.24	3.04	3.04	100.00%	2.08	68.42%
307.24	310.29	3.05	3.07	100.66%	2.25	73.77%
310.29	313.33	3.04	3.01	99.01%	2.50	82.24%
313.33	316.38	3.05	3.14	102.95%	2.82	92.46%
316.38	319.43	3.05	3.01	98.69%	1.87	61.31%
319.43	321.26	1.83	1.83	100.00%	1.17	63.93%
321.26	324.31	3.05	2.78	91.15%	1.67	54.75%
324.31	327.66	3.35	3.42	102.09%	1.95	58.21%
327.66	328.88	1.22	1.26	103.28%	0.92	75.41%
328.88	331.62	2.74	2.80	102.19%	1.53	55.84%
331.62	334.67	3.05	3.00	98.36%	0.30	9.84%
334.67	336.80	2.13	2.00	93.90%	0.37	17.37%
336.80	339.85	3.05	3.16	103.61%	1.28	41.97%
339.85	342.90	3.05	3.02	99.02%	2.70	88.52%
342.90	345.03	2.13	2.29	107.51%	1.83	85.92%
345.03	348.08	3.05	3.05	100.00%	2.74	89.84%
348.08	351.13	3.05	2.90	95.08%	1.88	61.64%
351.13	354.18	3.05	3.14	102.95%	0.60	19.67%

GEOTECHNICAL RECORD

PROPERTY: TULSEQUAH CHIEF ROCK QUALITY DETERMINATIONS
HOLE NUMBER: HOLE TCU92-46 DATE:

Note: All units are in metres

FROM	TO	INTERVAL	LENGTH RECOVERED	% RECOVERY	RECOVERED L > 10 cm	R.Q.D.*
354.18	357.23	3.05	2.91	95.41%	1.70	55.74%
357.23	358.44	1.21	1.30	107.44%	0.14	11.57%
358.44	361.49	3.05	3.07	100.66%	1.40	45.90%
361.49	362.71	1.22	1.17	95.90%	0.72	59.02%
362.71	365.15	2.44	2.47	101.23%	1.40	57.38%
365.15	368.20	3.05	3.03	99.34%	0.76	24.92%
368.20	368.43	0.23	0.23	100.00%	0.13	56.52%

368.43 END OF HOLE

* Rock Quality Designations (RQD) is percent core recovered during drilling, counting only those pieces of intact rock 10 cm in length or longer to the total length of core run.

APPENDIX 9

1992 COST STATEMENT

EXPENDITURE ALLOCATION LEGEND

A	U/G WORK AND DRILLING
B	SURFACE MAPPING - TULSEQUAH CHIEF
C	SURFACE MAPPING - BIG BULL
D	U/G MAPPING - TULSEQUAH CHIEF

REDFERN RESOURCES LTD.
TULSEQUAH PROJECT
1992 PROGRAM EXPENSE SUMMARY - July to December, 1992

Category	Description	Expenditures	A	B	C	D	TOTAL
Air charter	Fixed wing/helicopter -supply and support	$134,777.79	$127,977.79	$2,000.00	$4,000.00	$800.00	$134,777.79
Assay/Analysis	Assay/ICP/freight	$6,079.78	$5,479.78	$300.00	$300.00	$0.00	$6,079.78
Camp supplies	Groceries, hardware, materials etc.	$45,263.99	$42,863.99	$1,000.00	$1,000.00	$400.00	$45,263.99
Communications	Radios/Satellite-Tel/BC Tel	$23,180.66	$22,280.66	$400.00	$400.00	$100.00	$23,180.66
Drilling/UG	Drilling, materials, parts, machinery repair, U/G labour, mine and drillhole surveys	$727,696.88	$727,696.88	$0.00	$0.00	$0.00	$727,696.88
Expediting	Expediting/equip. rentals/labour	$64,905.82	$59,405.82	$2,500.00	$2,500.00	$500.00	$64,905.82
Freight/shipping	Air/truck freight, courier	$9,341.64	$8,741.64	$200.00	$300.00	$100.00	$9,341.64
Fuel supply	Bulk diesel,JP4, propane	$49,658.93	$48,108.93	$300.00	$1,000.00	$250.00	$49,658.93
Geological/Supervision	On-site geological control and reporting	$284,506.78	$252,006.78	$17,000.00	$13,000.00	$2,500.00	$284,506.78
Labour/wages	Additional crew/labour costs	$37,643.32	$36,643.32	$500.00	$200.00	$300.00	$37,643.32
Misc.	Reproduction, Travel/accomod., misc.	$6,606.53	$5,606.53	$400.00	$500.00	$100.00	$6,606.53
Surface work	Line-cutting, topo-scanning.	$34,536.75	$0.00	$20,536.75	$14,000.00	$0.00	$34,536.75
TOTAL		$1,424,198.87	$1,336,812.12	$45,136.75	$37,200.00	$5,050.00	$1,424,198.87
			$291.79 per meter	$2,702.31 per line-km	$2,227.14 per line-km	$4,105.69 per km	

EXPENDITURE SUMMARY BY CLAIM AND GROUP		A	B	C	D	TOTAL	TC-CENTRAL GROUP	BB GROUP	TC-NORTH GROUP	TC-WEST GROUP
	CLAIM									
	BIRDS	$38,433.98	$4,750.67			$43,184.65	$43,184.65			
	TULSEQUAH ELVA FR.	$695,575.66	$3,848.10		$1,724.39	$701,148.15				$701,148.15
	MARCIE 3	$338,269.79	$5,280.32		$369.51	$343,919.62			$343,919.62	
	TULSEQUAH BALD EAGLE	$170,242.22	$1,178.21			$171,420.43	$171,420.43			
	TULSEQUAH CHIEF	$94,290.47	$11,263.24		$2,956.10	$108,509.81				$108,509.81
	PAT		$4,691.22			$4,691.22	$4,691.22			
	RIVER FR.		$2,126.72			$2,126.72				$2,126.72
	ROSS		$3,675.15			$3,675.15			$3,675.15	
	TULSEQUAH BONANZA		$8,323.13			$8,323.13				$8,323.13
	BIG BULL EXTENSION			$6,200.00		$6,200.00		$6,200.00		
	BULL 4			$6,200.00		$6,200.00		$6,200.00		
	BIG BULL			$6,200.00		$6,200.00		$6,200.00		
	BULL NO.1			$6,200.00		$6,200.00		$6,200.00		
	BULL NO. 5			$6,200.00		$6,200.00		$6,200.00		
	BULL NO. 6			$6,200.00		$6,200.00		$6,200.00		
		$1,336,812.12	$45,136.75	$37,200.00	$5,050.00	$1,424,198.87	$219,296.29	$37,200.00	$347,594.77	$820,107.81

REDFERN RESOURCES LTD.
TULSEQUAH PROJECT Expenditure Listing by Category
1992 PROGRAM July to December 1992

Month	Category	Vendor	Description	Cheque Amt.	Category Subtotal
Aug.	Air charter	Action Aviation	Charter, White-Tuls 310mi	$620.00	
Aug	Air charter	Capital Helicopters	206B slinging fuel & supp	$4,002.17	
Aug.	Air charter	Capital Helicopters	206B 16.2 hr. camp & drill	$8,501.84	
Sept.	Air charter	Capital Helicopters	206B Slinging/supplies	$10,864.66	
Aug.	Air charter	Discovery Helicopters	206B 6.1 hr camp & drill	$3,420.70	
Sept.	Air charter	Discovery Helicopters	206B Supplies/Slinging	$7,660.91	
Oct.	Air charter	Discovery Helicopters	206B Slinging Fuel & Supp	$11,488.20	
Oct.	Air charter	Discovery Helicopters	206B slinging fuel & supp	$5,501.44	
Nov.	Air charter	Discovery Helicopters	206B slinging fuel & supp	$11,856.14	
Dec.	Air charter	Discovery Helicopters	206B slinging fuel & supp	$6,089.04	
Sept.	Air charter	Frontier Helicopters	206B 4.0 hrs. Supply move/mine surve	$2,529.30	
Sept.	Air charter	Frontier Helicopters	206B slinging fuel & supp	$3,116.10	
Oct.	Air charter	Summit Air	Air charter/Equip transport	$11,101.20	
Aug	Air charter	Summit Air Charters	Beech/207 air transport	$4,149.20	
Aug.	Air charter	Summit Air Charters	Beech - Freight & Fuel hauls	$9,285.00	
Sept.	Air charter	Summit Air Charters	Beech/207 - Freight & Fuel hauls	$27,101.56	
Oct.	Air charter	Summit Air Charters	Air charter/Equip transport	$3,508.00	
Nov.	Air charter	Summit Air Charters	Air charter/Equip transport	$1,763.80	
Nov.	Air charter	Summit Air Charters	Beech 132 mi Genset, equip	$528.00	
Dec.	Air charter	Summit Air Charters Ltd.	207 Air charter transport	$1,172.54	
Sept.	Air charter	Temsco Helicopters (US $)	Hughes 500D 3PAX Juneau	$517.99	$134,777.79
Oct.	Assay/Analysis	ACME Analytical	Assay 28 spls.	$778.27	
Oct.	Assay/Analysis	ACME Analytical	Assay/ICP/freight	$3,020.94	
Nov.	Assay/Analysis	ACME Analytical	Assay/ICP/freight	$1,673.60	
Dec.	Assay/Analysis	ACME Analytical	Assay/ICP/freight	$606.97	$6,079.78
Aug.	Camp supplies	Abso Blue Prints	Bond Paper Xerox 2080	$275.47	
Aug	Camp supplies	Acme Analytical	Feldspar kit/soil bags	$196.10	
Aug.	Camp supplies	Atlin General Store	Supplies	$87.33	
Aug	Camp supplies	Atlin General Store	Paint supplies	$190.47	
Sept.	Camp supplies	Atlin General Store	Camp Supplies	$172.93	
Oct.	Camp supplies	Atlin General Store	Hardware	$138.86	
Nov.	Camp supplies	Atlin General Store	Hardware	$7.67	
Dec.	Camp supplies	Atlin General Store Ltd.	Hardware, misc.	$77.92	
Nov.	Camp supplies	Centre Line Workshop	Labour, carpentry 16.5 days	$2,725.00	
Aug.	Camp supplies	Deakin Equipment	Stamp Dies 3/16"	$96.99	
Sept.	Camp supplies	Deakin Equipment	Camp supplies, matt&cloth	$626.55	
Sept.	Camp supplies	Dominion Blueprint	Blackline-Sepias	$279.31	
Sept.	Camp supplies	ENS Baldry	Spine Board	$55.00	
Aug.	Camp supplies	Falcon Research Ltd.	Supplies	$53.47	
Oct.	Camp supplies	Food Fair	Groceries	$1,399.62	
Dec.	Camp supplies	Food Fair	Groceries	$697.88	
Oct.	Camp supplies	Kilrich Industries	Supplies	$1,342.86	
Aug.	Camp supplies	Klondike Copier	Aug. rent - photocopier	$213.00	
Sept.	Camp supplies	Klondike Copier	Toner Cartridge for PC20	$138.00	
Nov.	Camp supplies	Klondike Copier	Copier rental Oct.	$75.00	
Dec.	Camp supplies	Klondike Copier	Copier rent Oct-Nov 3	$82.50	
Aug	Camp supplies	Nelville Crosby	Field, sampling supplies	$917.01	
Oct.	Camp supplies	Nelville Crosby Industries	Camp Supplies	$631.46	
Aug.	Camp supplies	Neville Crosby	Supplies, field work	$1,396.83	
Sept.	Camp supplies	Northern Building	Lumber, plywood	$1,955.90	
Aug	Camp supplies	Northern Building	Lumber & plywood	$1,947.40	
Sept.	Camp supplies	Northern Hospital	First Aid Supplies	$588.90	
Nov.	Camp supplies	Northern Hospital Rehab.	Resusitator kit (1st Aid)	$307.10	
Aug	Camp supplies	Northern Metalic Sales	Tools, parts, supplies	$1,460.81	
Oct.	Camp supplies	Northern Metallic	Hardware supplies	$1,904.01	
Aug.	Camp supplies	Northern Metallic Sales	Fire Safety Equipment/Paint	$1,881.48	
Oct.	Camp supplies	Northern Metallic Sales	Supplies	$37.66	
Oct.	Camp supplies	Northern Metallic Sales	Hardware	$235.82	
Oct.	Camp supplies	Northern Metallic Sales	Supplies	$27.94	
Nov.	Camp supplies	Northern Metallic Sales	Credit, G101 filters	($36.90)	
Dec.	Camp supplies	Northern Metallic Sales	Fire axes	$120.20	
Aug.	Camp supplies	Profile Business Supplies	2bx continuous feed paper	$81.75	

Aug.	Camp supplies	Universal Manufacturing	Long Backboard	$106.00	
Aug	Camp supplies	Vi & Cor's Food	Groceries	$3,265.99	
Aug.	Camp supplies	Vi & Cor's Food Basket	Groceries	$3,046.46	
Sept.	Camp supplies	Vi & Cor's Food Basket	Groceries	$9,177.73	
Oct.	Camp supplies	Vi & Cor's Food Basket	Groceries	$3,699.06	
Dec.	Camp supplies	Vi & Cor's Food Basket	Groceries	$2,637.93	
Sept.	Camp supplies	Western Diazo	Drafting film, supplies	$681.63	
Sept.	Camp supplies	Western Diazo	Drafting film	$259.89	$45,263.99
Nov.	Communications	Falcon	Radio Rental Nov 1-4	$141.67	
Oct.	Communications	Falcon Research	VHF radios Rental Sept.	$804.20	
Dec.	Communications	Falcon Research	Rental, VHF radio, Oct.	$804.20	
Sept.	Communications	Falcon Research Ltd.	Aug. rent - VHF radios	$630.70	
Nov.	Communications	Infosat	Long dist. tel/freight	$104.78	
Nov.	Communications	Infosat	BC Tel for camp long distance	$871.68	
Dec.	Communications	Infosat	Telephone L.D.	$7.40	
Aug.	Communications	Infosat Tele	Sat. Phone Aug. & Last Month	$9,800.00	
Sept.	Communications	Infosat Tele	Sat-phone install/rental	$10,616.03	$23,180.66
Dec.	Drilling/UG	ADW Engineering	Survey equipment rental Oct.	$1,375.00	
Oct.	Drilling/UG	ADW Surveyors	Survey - mine workings	$8,385.41	
Nov.	Drilling/UG	ADW Surveyors	Equip Supply & rental Sept	$1,375.00	
Sept.	Drilling/UG	Boisvenu	Drilling, labour, parts	$46,439.10	
Oct.	Drilling/UG	Boisvenu Drilling	Drilling, labour, parts	$87,969.35	
Oct.	Drilling/UG	Boisvenu Drilling	Drilling, labour, parts	$60,415.78	
Nov.	Drilling/UG	Boisvenu Drilling	Drilling, labour, parts	$82,434.49	
Nov.	Drilling/UG	Boisvenu Drilling	Drilling, labour, parts	$145,238.12	
Dec	Drilling/UG	Boisvenu Drilling	Drilling, labour, parts	$104,397.23	
Oct.	Drilling/UG	Canamet	Supplies U/G	$1,192.65	
Nov.	Drilling/UG	Canamet	Rental B2135 Pump to Oct. 21	$726.50	
Sept.	Drilling/UG	Canamet Sales	Materials, Hose, Jackleg rent Etc.	$1,991.75	
Sept.	Drilling/UG	Canamet Sales Yukon	Rental-Flygt Pumps	$2,147.20	
Dec.	Drilling/UG	Canamet Sales Yukon Ltd.	Rent, Flygt Pump	$486.00	
Aug	Drilling/UG	Don Wright	Expense account Jul 21/92	$638.62	
Sept.	Drilling/UG	Don Wright	Tel. locate equipment	$58.53	
Oct.	Drilling/UG	Don Wright	Mine equip./expenses	$2,641.85	
Dec.	Drilling/UG	Don Wright	Freight exp. D. Wright	$481.35	
Sept.	Drilling/UG	Dr. Matti Raudsuip	Petrographic Study	$336.00	
July	Drilling/UG	F. Boisvenu	Drill labour/repair/parts/mob	$112,467.31	
Aug.	Drilling/UG	Finning	Finning	$670.26	
Oct.	Drilling/UG	Fry & Associates	Rent 2 drum slusher	$742.00	
Nov.	Drilling/UG	Jacobs	Oxygen	$70.25	
Sept.	Drilling/UG	Jacobs Industries	Bottle Oxygen/Acetylene	$207.00	
Oct.	Drilling/UG	Jacobs Industries	Oxygen/Acetylene bottles	$222.50	
Dec.	Drilling/UG	Jacobs Industries Limited	Oxygen Cyl Rent Sep-Oct 15	$8.00	
Sept.	Drilling/UG	Northern Metallic Sales	Drilling/Misc. Supplies	$1,758.28	
Oct.	Drilling/UG	Pothier Enterprises	Rental Sperry Sun Sept/92	$1,706.07	
Oct.	Drilling/UG	Pothier Enterprises	Film and developer	$120.84	
Nov.	Drilling/UG	Pothier Enterprises	Sperry rent, Oct-Nov. 6	$1,706.07	
Aug.	Drilling/UG	Pothier Enterprises Ltd.	Aug. rent-Sperry Sun	$1,706.07	
Dec.	Drilling/UG	Pothier Enterprises Ltd.	Sperry repairs, misc.	$205.87	
Aug.	Drilling/UG	R.F. Fry & Associates	Aug 15-Sept 15 Rent, Slusher	$371.00	
Sept.	Drilling/UG	R.F. Fry & Associates	Secan-J Leg & One spare	$847.25	
Oct.	Drilling/UG	Silver Fox Mining	20 ft. lengths of 20 lb rail	$1,450.00	
Sept.	Drilling/UG	Tamrock EJC Canada	12B Loader Repair & Parts	$336.59	
Nov.	Drilling/UG	Techdel	Light-log Rent/Interp. Sept.	$6,825.70	
Dec.	Drilling/UG	Techdel	Lightlog - shipping/interp.	$1,182.00	
Aug.	Drilling/UG	Techdel International	Aug. rent - light log	$4,029.95	
Dec.	Drilling/UG	Techdel International Inc.	Light log interpretation	$7,168.20	
Sept.	Drilling/UG	Terraplus Inc.	Aug. rent - KT-5 meter	$322.82	
Sept.	Drilling/UG	Transwest Dynequip	Underground pipe and rail	$11,568.26	
Aug.	Drilling/UG	Tri-Valley Equipment	Tri-Valley Equipment	$118.80	
Sept.	Drilling/UG	Vancouver Petrograhics	2 Precision Diamond Blade	$392.20	
Sept.	Drilling/UG	West Coast	WDS120/LH pails	$2,100.00	
Nov.	Drilling/UG	West Coast Drilling	Drill Polymer/Grease	$2,562.00	
Dec.	Drilling/UG	West Coast Drilling	Used jackleg/lubricator - Purchase	$3,070.17	
Aug	Drilling/UG	Westcoast Drilling	Rubber seals	$167.18	
Sept.	Drilling/UG	Westcoast Drilling	Drill cement/sealant	$3,240.00	

July	Drilling/UG	Westcoast Drilling	Drill additives/supplies	$2,226.00	
Aug.	Drilling/UG	Wiseworth Canada	Generator supplies	$2,691.50	
Sept.	Drilling/UG	Wiseworth Canada	2 pails ultra coolant	$667.80	
Sept.	Drilling/UG	Wiseworth Canada	Repairs IR150 Compressor	$2,558.76	
Oct.	Drilling/UG	Yukon Explosives	Explosives	$9,292.61	
Oct.	Drilling/UG	Yukon Explosives	Credit memo Cigel 4 cases	($573.88)	
Nov.	Drilling/UG	Yukon Explosives	Explosives, credit	($323.26)	
Nov.	Drilling/UG	Yukon Explosives	Explosive returned, credit	($4,915.22)	$727,696.88
Aug	Expediting	Kawdy Ventures	Air filter, elec. genset	$45.68	
Sept.	Expediting	Kawdy Ventures	Skidder rental, labour, supplies	$2,981.71	
Oct.	Expediting	Kawdy Ventures	Whitehorse delivery/Material	$1,909.30	
Oct.	Expediting	Kawdy Ventures	Rentals/Expediting/labour	$19,780.59	
Nov	Expediting	Kawdy Ventures	Expediting services/disbursements	$12,850.45	
Nov.	Expediting	Kawdy Ventures	Expediting/labour/rentals	$14,857.60	
Nov.	Expediting	Kawdy Ventures	Expediting/rentals	$1,824.35	
Dec.	Expediting	Kawdy Ventures	Expediting/labour/rentals	$10,837.64	
Dec.	Expediting	Kawdy Ventures	Credit for fuel	($181.50)	$64,905.82
Sept.	Freight/shipping	Arrow Transport	T/L Locomotive	$450.00	
Sept.	Freight/shipping	Atlin Express	Pick-up and Deliveries	$28.03	
Oct.	Freight/shipping	Atlin Express	Delivery Services	$235.51	
Oct.	Freight/shipping	Atlin Express	Freight Aug.3-Aug. 26/92	$174.00	
Nov.	Freight/shipping	Atlin Express	Freight, spls to Whitehorse	$386.20	
Nov.	Freight/shipping	Atlin Express	Express freight, misc.	$116.36	
Dec.	Freight/shipping	Atlin Express	Freight, express	$113.55	
Aug.	Freight/shipping	Atlin Trucking	Shipping Freight-Whitehorse	$142.09	
Aug	Freight/shipping	Atlin Trucking	Trucking-general freight	$301.47	
Oct.	Freight/shipping	Atlin Trucking	Freight Serv. Atlin-Whitehorse	$1,328.15	
Nov.	Freight/shipping	Atlin Trucking	Atlin trucking to Sept. 25	$847.64	
Nov.	Freight/shipping	Atlin Trucking	Trucking	$15.25	
Dec.	Freight/shipping	Atlin Trucking	Freight, fire axes	$11.65	
Dec.	Freight/shipping	Atlin Trucking	Freight	$477.70	
Oct.	Freight/shipping	Canadian Air	Freight	$793.48	
Nov.	Freight/shipping	Canadian Air	Airfreight	$118.57	
Oct.	Freight/shipping	Canadian Air	Freight	$963.71	
Sept.	Freight/shipping	Canadian Airlines	Freight	$362.78	
Dec.	Freight/shipping	Canadian Airlines	Airfreight	$1,703.70	
Oct.	Freight/shipping	Westarm Truck Lines	10,000 lbs. Rail & Equip.	$771.80	$9,341.64
Aug.	Fuel supply	Pine Tree	Lubricants-Oil	$99.35	
Oct.	Fuel supply	Pine Tree	Fuel, general	$6,769.23	
Sept.	Fuel supply	Pine Tree Service	Bulk fuel supplies	$33,712.27	
Aug	Fuel supply	Pine Tree Services	Fuel, rentals	$7,221.31	
Nov.	Fuel supply	Pine Tree Services	Propane/drum credit	($223.20)	
Dec.	Fuel supply	Pine Tree Services	Propane, grease, misc.	$2,079.97	$49,658.93
July	Geological	Cambria Geological	Consulting	$21,730.00	
July	Geological	Cambria Geological	Mob/Jul 29-31 Cons. Geo.	$9,740.00	
Aug.	Geological	Cambria Geological	Aug. 1-15 Cons. Geo.	$32,250.00	
Sept.	Geological	Cambria Geological	Consulting Sept. 1-15	$26,850.00	
Sept.	Geological	Cambria Geological	Travel/Consulting/disbursements	$35,503.90	
Nov.	Geological	Cambria Geological	Travel/Consulting/disbursements	$55,051.57	
Nov.	Geological	Cambria Geological	Travel/Consulting/disbursements	$82,821.07	
Dec.	Geological	Cambria Geological	Disbursements/reporting	$20,560.24	$284,506.78
Aug.	Labour/wages	Graham Ennis	16 days Aug. 16 to 31	$1,703.59	
Sept.	Labour/wages	Graham Ennis	September salary	$3,346.32	
Oct.	Labour/wages	Graham Ennis	Salary, Oct. 1-10 plus Oct 15, 11days	$2,894.79	
Nov.	Labour/wages	Graham Ennis	Salary, Nov. 1 to 6	$1,162.80	
Sept.	Labour/wages	Graham Ennis-expenses	Graham Ennis-expenses	$642.11	
July	Labour/wages	John Ridley	5 days July 23 - July 27	$633.23	
July	Labour/wages	John Ridley	John Ridley 4d July 28-31	$506.00	
Aug.	Labour/wages	John Ridley	15 days Aug. 1 to 15	$1,560.66	
Aug.	Labour/wages	John Ridley	16 days Aug. 16 to 31	$1,560.66	
Sept.	Labour/wages	John Ridley	September salary	$1,878.90	
July	Labour/wages	Receiver General	July Payroll Taxes	$163.45	
Aug.	Labour/wages	Receiver General	Receiver General - July	$130.42	
Sept.	Labour/wages	Receiver General	August Payroll Taxes	$3,348.16	
Oct.	Labour/wages	Receiver General	September Payroll Taxes	$4,279.67	
Nov.	Labour/wages	Receiver General	October payroll taxes	$2,976.78	

Nov.	Labour/wages	Receiver General	November payroll taxes	$1,242.61	
Oct.	Labour/wages	Suntac Invoice	Reimbursement of G. Ennis Salary	($425.00)	
Aug.	Labour/wages	Terry Zanger	16 days Aug. 16 to 31	$1,373.42	
Aug.	Labour/wages	Terry Zanger	13 days Aug. 3 to 15	$1,373.42	
Sept.	Labour/wages	Terry Zanger	September salary	$2,893.16	
Oct.	Labour/wages	Terry Zanger	Salary, Oct. 1-15	$2,425.31	
Nov.	Labour/wages	Terry Zanger	Salary, Nov. 1 to 15 - 15 days	$1,409.99	
Dec.	Labour/wages	Terry Zanger	4% Holiday Pay	$562.87	$37,643.32
Nov.	Misc.	Bank of Montreal - M/C	Airline Tickets - Alaska	$2,370.00	
Nov.	Misc.	Bank of Montreal - M/C		$54.81	
Dec.	Misc.	Bank of Montreal - M/C		$475.00	
Aug.	Misc.	Beakem Printing	Printing PO and Artwork	$490.14	
Oct.	Misc.	Dominion Blue Prints	Blueprints	$579.97	
Dec.	Misc.	Dominion Blue Prints	Map copying	$63.28	
Oct.	Misc.	Dominion Blueprint	Blueprints	$742.51	
Dec.	Misc.	Dominion Blueprints	Reproductions	$257.24	
Dec.	Misc.	Finning Tractor	Credit, D3 downtime	($3,013.20)	
Nov.	Misc.	Graham Ennis	Ennis exp. acct. Nov. 16	$756.70	
Oct.	Misc.	Jim O'Rourke	Technical Services	$860.00	
Oct.	Misc.	Norman Wade	Airphotos Tulsequah	$337.54	
Aug	Misc.	Reed Stenhouse	Insurance to December 19	$248.00	
Sept.	Misc.	Reed Stenhouse	Insurance	$65.00	
Oct.	Misc.	Reed Stenhouse	Insurance	$138.00	
Dec.	Misc.	Suntac Minerals	Grader work/labour	$1,740.00	
Aug.	Misc.	The Atlin Inn	The Atlin Inn	$292.65	
Oct.	Misc.	The Atlin Inn	Accomodation - Aug. 4	$48.60	
Aug	Misc.	Vancal Reproductions	Reproduction	$100.29	$6,606.53
Sept.	Surface work	Coureur Des Bois Ltd.	Line Cutting (83days@250)	$20,750.00	
Oct.	Surface work	Courier de Bois	Linecutting and supplies	$12,711.75	
Sept.	Surface work	Scan Conversion Services	Scanning of 3 topo maps	$1,075.00	$34,536.75
		TOTALS		$1,424,198.87	$1,424,198.87

APPENDIX 10

STATEMENT of QUALIFICATIONS

STATEMENT of QUALIFICATIONS

I, Paul J. McGuigan of 2980 Mt. Seymour Parkway, North Vancouver, B.C. do hereby certify that:

1. I am a consulting geologist and president of Cambria Data Services Ltd. and Cambria Geological Ltd. of 1531 West Pender Street, Vancouver, BC, V6G 2T1.

2. I am a graduate of the University of British Columbia with a B.Sc. (Honours) in Geological Sciences, 1974, and have practised my profession continuously since graduation. My experience ranges through all phases of exploration, mining geology and geochemistry.

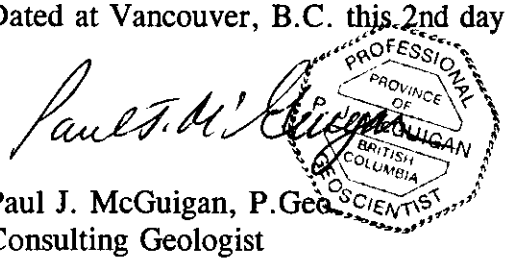
3. I am a member of the Association of Professional Engineers and Geoscientists of B.C. and a voting member of the Association of Exploration Geochemists.

4. I have no interest, nor do I expect to receive any interest, direct or indirect, in Redfern Resources Ltd. or any of the properties involved.

5. This report dated June 2, 1993 is based on a review of all available technical documents and my personal examination of the property in September of 1992.

6. I hereby grant permission for Redfern Resources Ltd. to use this report in any company documents, including but not limited to, statements of material facts and prospectus filings.

Dated at Vancouver, B.C. this 2nd day of June, 1993.



Paul J. McGuigan, P.Geo.
Consulting Geologist

STATEMENT of QUALIFICATIONS

I, Garnet L. Dawson, of 205 - 5343 Yew Street, Vancouver, B.C., do hereby certify that:

- I graduated from the University of Manitoba, Winnipeg, with at degree of B.Sc. (Geology) in 1981.
- I am currently enrolled in a Masters Program in geology at the University of British Columbia.
- I have worked with major exploration companies and government geological surveys since graduation.
- I was an employee of Cambria Geological Ltd. at the time of this work.
- I have not received, nor do I expect to receive any interest directly or indirectly in Redfern Resources Ltd.
- This report is based on geological mapping carried out during the period July to October, 1992.

Dated at Vancouver, B.C. this 2nd day of June, 1993.

Garnet L. Dawson
Vancouver, B.C.

STATEMENT of QUALIFICATIONS

I, Walter D. Melnyk, of 2185 Badger Road, North Vancouver, B.C., do hereby certify that:

- I graduated from the University of Saskatchewan, Saskatoon, with at degree of B. Ap. Sc. in 1972.

- I am a member of the Association of Professional Engineers of British Columbia and Ontario.

- I am a consulting exploration geologist.

- I have been practising my profession since graduation.

- I have not received, nor do I expect to receive any interest directly or indirectly in Redfern Resources Ltd.

- This report and the conclusions and recommendations made are based on examination of the property and direct supervision of the work reported here.

Dated at Vancouver, B.C. this 2nd day of June, 1993.

Walter D. Melnyk, P.Eng.
Vancouver, B.C.