UMEX UNION MINIÈRE EXPLORATIONS AND MINING CORPORATION LIMITED

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DIAMOND DRILL REPORT

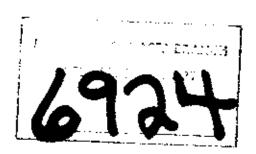
SEVEN, SEVEN SOUTH, SEVEN WEST, SEVEN EAST, FIVE WEST, FIVE SOUTH, DUB CLAIMS

Record Numbers 409, 410, 462, 411, 413, 634, 461

N.T.S. 103F/8E Latitude 53°28'N Longitude 132°11'W

bу

A.A. Burgoyne, P.Eng. R.S. Tolbert, B.Sc.



Owner and Operator: Union Miniere Explorations and

Mining Corporation Limited

Date: October, 1978

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DIAMOND DRILL REPORT SEVEN, SEVEN SOUTH, SEVEN WEST, SEVEN EAST,

FIVE WEST, FIVE SOUTH, DUB CLAIMS

INTRODUCTION

The Seven, Seven South, Seven West, Seven East, Five West, Five South, and Dub claims totalling 39 units are located 22 air kilometers south of Port Clements, Queen Charlotte Islands, B.C. in the Skeena Mining Division. The claims are in N.T.S. 103F/8E with approximate latitude and longitude coordinates for the centre of the property being 53°28'N and 132°11'W, respectively.

The elevation of the claims varies from 60 to 335 meters and the topography is plateau-like and gently undulating although locally the creeks have produced precipitous canyons. The property is located within the Skidegate Plateau of the Insular Mountains Physiographic Subdivision.

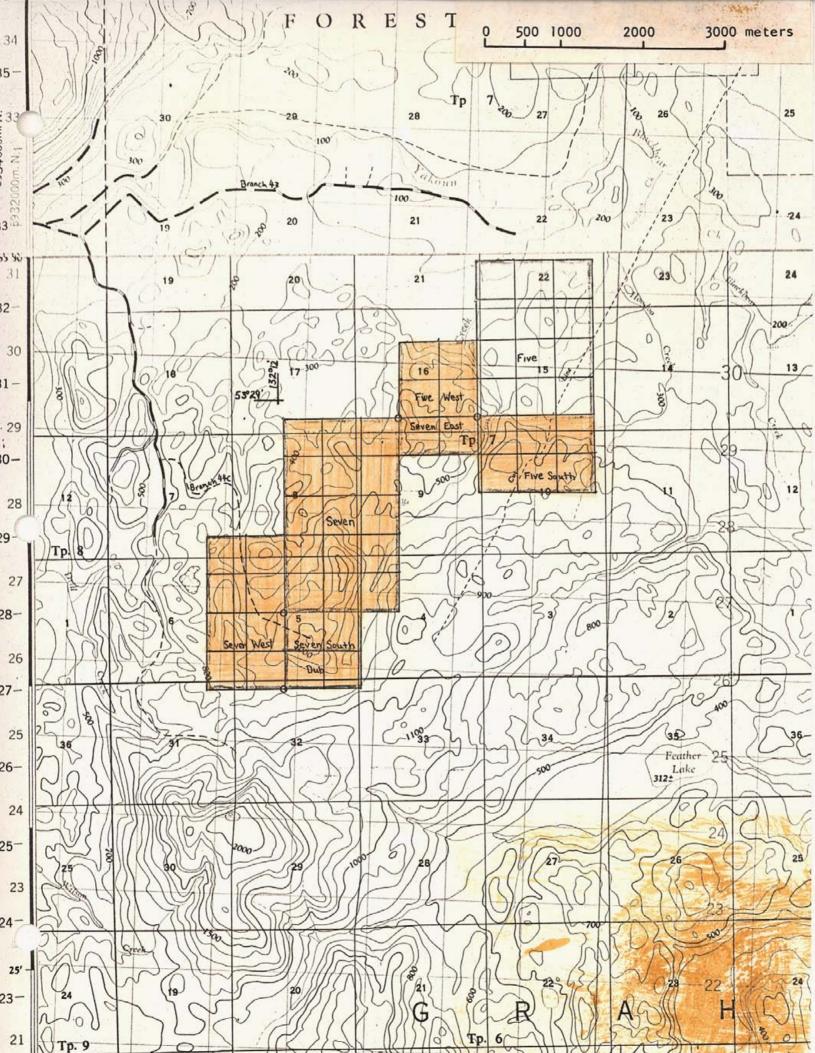
The southwestern and northern parts of the property can be reached by logging roads from either Port Clements or Queen Charlotte City. MacMillan Bloedel Branch 44C logging road gives access to the Seven West, Seven, and Seven South claims whereas Branch 43 logging road terminates some 1.5 kilometers north of the Five West claim.

During the period of May 26 to July 10, 1978 diamond drill surveys were completed on the Seven, Seven South, and Seven West claims. The drilling contract was completed by H. Allen Diamond Drilling Ltd., P.O. Box 1397, Merritt, B.C. A total of six BQ size drill holes over 621.5 meters (2039 feet) were cored.

The whole core for drill holes 4, 5, and 6 and the split core for holes 1, 2, and 3 were geochemically analysed for gold by Chemex Labs Ltd., 212 Brooksbank Avenue, North Vancouver, B.C.

The drill core for holes 1, 2, and 3 and the reject chips from Chemex Labs for holes 4, 5, and 6 are currently stored at the UMEX warehouse, 928 Railway Avenue, Richmond, B.C. The drill surveys were under the immediate supervision of Mr. R. Tolbert, B.Sc., Geologist, who in turn was under the supervision of Mr. A.A. Burgoyne, P.Eng.

The Seven, Seven South, Seven East, and Five West claims were staked during July/August, 1977 and recorded on August 11, 1977. The Dub and



Seven West claims were staked on November 9 and 10, 1977 and recorded on November 14, 1977. The Five South claim was staked on May 28, 1978 and recorded on June 16, 1978.

DIAMOND DRILLING

Purpose

The area underlying the Seven, Seven South, and Seven West claims has been mapped by A. Sutherland Brown as underlain by volcanics belonging to the Yakoun Formation of Jurassic Age.

UMEX completed geochemical soil, geological, and limited ground magnetic, and resistivity surveys during August, 1977 and April, 1978.

The purpose of the 1978 drilling program was to test the potential for gold mineralization underlying parts of the Seven, Seven South, and Seven West claims as defined by the above surveys.

Results

The detailed geology and geochemistry is described in the drill logs in Appendix I.

Figure 2 illustrates the location of the drill holes with respect to the claim boundaries. Also illustrated in Figure 2 is the drill hole geology and geochemistry.

The drill holes penetrated two formations:

 Porphyritic andesite tuffs and agglomerates and volcano-sedimentary rocks of the Yakoun Formation of Jurassic Age

These volcanic rocks, generally grey in colour, were variably altered, especially in and peripheral to shears and fractures, by chlorite, epidote and calcite, imparting to them various shades of green and grey. Pyrite was sometimes noted within veins, shears, and fractures and rarely as disseminations within the volcanics. In short sections, within fracture and shear zones, up to 15% pyrite was noted.

Intrusive hornblende andesite

This rock is dark grey in colour with little or no alteration and rarely fractured or veined. It is fine grained with prominent hornblende phenocrysts.

This intrusive rock is tentatively correlated with the Masset Formation(?) of Tertiary Age.

¹Sutherland Brown, A., 1968, Geology of the Queen Charlotte Islands, B.C.D.M. Bulletin 54

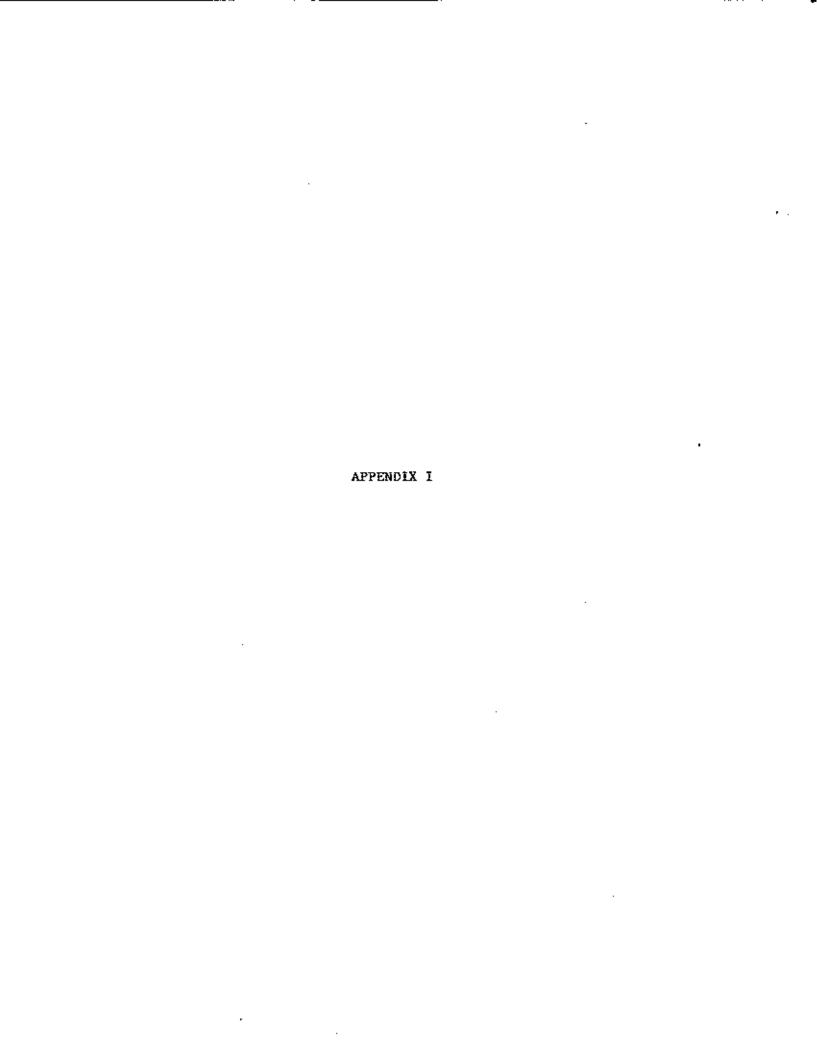
After geochemical analysis of the core, it was found that in general anomalous gold values (>5 ppb Au) were related to fractures, shears, and veins within the Yakoun Formation in which abundant pyrite was present. Except for one section (DDH 78-3, 103.63 meters - 106.63 meters) of three meters with 1400 ppb Au (0.04 oz/ton), the drilling resulted in no significantly interesting gold values.

CONCLUSIONS

The anomalies outlined by the surveys conducted during 1977 and 1978 can be explained by narrow pyritised shear, fracture, and vein zones within volcanic rocks of the Yakoun Formation carrying anomalous but economically insignificant amounts of gold.

Respectfully submitted,

G. J. Berngoyne, P. Eng.



AREA: Yakoun

Hole No.: 78-1

Depth: 121.3 m

Drilled By: H. Allen Diamond Drilling Ltc

ANDMALY: Y5-Y7

Bearing and Dip: 150° , -47°

Started: June 5, 1978

Described By: Machine: Longyear 38

CLAIM: Seven, Seven

Local Coord, X=

Z=

Completed: June 12/78

Diam. Drill: BQ

Depth (meters)		th Description & Lithology Mi	Mineralization	Assay	No. of Sample
From	To			Au ppb	Depth(m
0 =	9.5	Overburden		30	7-10
9.5	11.4	Brown weathering, grey chloritic andesite tuff		5	10-13.
11.4	_11.5	Calcite centered K-spar rimmed veinlets 10° to core axis (c.a.)		15	13-16
11.5	23.78	Greenish-grey chloritized, feldspar porphyritic andesite agglomerate typical	Diss. py. and	25	16-19
		of Yakoun Fm., occasional thin calcite veinlets. Minor diss. py. Weakly	py. rimming	175	19-22
		magnetic. Dark fine grained lithic fragments, 2-4 cm across, rimmed in places	fragments		_
		by fine grained pyrite. Rock is propylitically altered around veinlets.		: 	
23.47		4 mm qtz. filled fracture at 30° to c.a.		30	22-24.
23.78	_28.7	Greenish-grey fine grained tuff grading from 3 mm to 1 cm course grained band.	· <u> </u>	15	24,2-2
		Fine tuff. < mm. grades to courser tuff, 1-2 mm, at 23.98 m, to course tuff		10	27.2-2
		to agglomerate at 25.88 m. Dark grey porphyritic fragments I-4 cm across in			
		greenish-grey porphyritic matrix. Non-magnetic.			
23.7	32.9	Fine grained greenish-grey tuff coursening from <1 mm to 1 cm over 25 cm.	ļ	_5	29.3-3
		40 cm or less propylitised zones at 20° to c.a. are lighter green in colour.		<u> </u>	┼
22.9	33.36	Light greenish tuff 2 mm - 1 cm banded perpendicular to c.a.		10	32.3-3
33.36	35.34	Course greenish-grey tuff-agglomerate with dark lithic fragments 1-2 cm.		< 5	33.9-3
35.34	46.01	Light grey to light greenish-grey to dark greenish-grey, course tuff to	Minor py.	< 5	35.9-3
		agglomerate. Varying amount of propylitic alteration. Occasional calcite.	over 1 m at	≺ 5	38.9-4
		chlorite and pinkish mineral (2018ite?) veinlets 1-2 mm. Fragments	40.3	10	41.9-4
		porphyritic. 3-8 cm in size. larger fragments towards horrow of section.	<u> </u>	5	44.9-4

Dept (mete	th rs)	Description & Lithology	Mineralization	Assay Au	No. of Sample
From	to		<u> </u>	ррЬ	Depth(m)
46.01		Fault at 40° to c.a.			<u> </u>
46.01	46.72	Dark greenish-grey porphyritic andesite tuff with calcire filled vugs with	Py rimmed cal-		
		pyritic rims over short lengths.	cite veinlets.	15	46.1-47.8
47. 72	50.29	Brecciated dark greenish-grey porphyritic andesite tuff. Calcite or	Pyrite rimmed	. 5	47.8-50.4
		occasionally pyrite filling voids. Pyrite also rims some calcite filled	or filled		
		fractures.	breccia zone		
50.29		Fracture zone at 60° to.c.a.			ļ
50.29	51.10	Greenish-grey porphyritic andesite tuff, occasional calcite veinlets and	Minor pyrite	_10	50.4-51.4
		minor pyrite.		-	
51.10	52.58	Greenish-grey porphyritic andesite tuff, 1-2 mm calcite veinlets about 1 cm	Py. rimming	20	51.4-52.6
!		apart, 50% of which are pyrite rimmed.	calcite vein-	ļ. <u>.</u>	<u> </u>
!			lets.	 	
52.58	52.8	Rusty coloured fracture zone.	ļ	<u> </u>	.
52.8	53.86	Dark greenish-grey porphyritic andesite tuff. Minor py. veinlets and calcite	Py.	5	52.6-55.6
		rimmed veinlets. (A)	<u> </u>	ļ—	
53.86	54.06	Calcite stringer-breccia vein zone.	· · · · · · · · · · · · · · · · · · ·	<u> </u>	.
54.06	56.64	Same as (A).	 	10	55.6-57.1
55.64	57.50	Crackle breccia, calcite, minor pv. except lower 20 cm where pyrite along	Py.	ļ	
		axis of core.		15	57.1-59.96
57.5	64.8	Same as (A). Fractures approximately every 10-15 cm.	Py.	<5	59.96- 60.96
64.81	66.45	Grey-green porphyritic andesite tuff, fragments average 1-2 cm. Pyritised	1	5	60.96- 63.0
		in 2-3 mm veinlets avg. 10 cm specing. Some py. rimming calcite. Increasing		5	63.0
		hormblende visible >1%.		5	<u> 84:8-</u> _
65.45	68.73	As above with fewer py. veinlets. Bedding 40° to c.a.		ļ	66.0-
				160	66.0- 68.65
		· · · · · · · · · · · · · · · · · · ·	 		<u></u>
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Dep (mete	th ers)	Description & Lithology	Mineralization	Assay Au	No. of Sample
೯೯ ೦ ೧	То			ppb	Depth(m)
68.73	75.59	Pervasive pyritization along fractures up to 10 cm within brecciated rock.	5-10% py. to	10	68.65- 71.6
		Larger voids filled with calcite, minor quartz with pyrite rimming. 5-10%	20% pv	25	71:65
		pv. up to 20% over short sections. Fractures along to 20° to c.a.		15	74.45- 75.6
75.59		Rock becomes noticeably magnetic.			
75.59	80.89	There is change from above to feldspar-hornblende andesite tuff. Generally	Minor pyrite	295	75.6- 78.45
		dark greenish-grey, less propylitically altered. Fragments to 2 cm avg.		20	78.45- 80.75
		<1 cm below 80.89. Few pyrite filled fractures.			<u> </u>
80.89	87.48	Dark greenish-grey feldspar-hornblende andesite tuff. Dark lithic fragments		< 5	80:75-
		1-2 cm avg. <.5 cm.	i	10	83.6- 86.55
<u>87.48</u>	92.0	Greenish-grey to light greenish-grey brecciated feldspar porphyritic andesite		5	86.55- 89.45
		tuff, magnetic to slightly magnetic where propylitised.		25	89.45- 92.3
92.0	93.88	Greenish-grey feldspar porphyritic andesite tuff. Fragments to 3 cm avg.	<u> </u>		
		(1 cm.		30	92:3- 95:3-
93. <u>88</u>	94.18	Calcite veining with peripheral propylitisation.			
94.18	96.93	Brecciated feldspar-hornblende andesite tuff.			<u> </u>
96.93	102.0	Brecciated feldspar andesite, calcite veined 1-20 cm, light greenish-grey.		≺ 5	95.2- 98.1-
		Four 2 cm veinlets in lower 1 m.		< 5	101.0
102.0	103.0	Upper .5 m chloritised propylitised calcite veinlets. Lower .5 m appears		10	101.0- 102.08
		fine grained light greenish-grev tuff.	<u> </u>		<u> </u>
103.0	106.0	Continuation of highly calcite veined propylitic zone within f.g. tuff.		< 5	102:08-
106.0	108.12	Dark greenish-grev fine grained tuff calcite veined propylitised tuff in	<u> </u>	10	105.15- 108.0
		contact with porphyritic hornblende andesite. Very magnetic.			<u> </u>
108.12	117.26	Dark grev hornblende andesite, very magnetic, calcite, potassium feldspar		10	108.0- 108.3
		veined. K-spar rimming occasional sparse pyrite veinlet. Hornblende		≺ 5	108.3-
	· · · · · · · · · · · · · · · · · · ·	phenocrysts to 15-20%. Calcite veinlets avg. every 5 cm.		< 5	119:8-
				10	113.8
	ļ			1	1

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Description & Lithology Mineralization Depth (neters) No. of Assay Sample Αu From To Depth(m) 116.9-119.94 119.94 121.3 ppb <5 Dark grey hornblende andesite as above. Very few calcite or K-spar veinlets, 117.26 121.3 1 per 10-15 cm, avg. 45° to c.a. Very magnetic. Chlorite also in some < 5 fractures. End of hole.

AREA: Yakoun

Hole No.: 78-2

Depth: 92.05 m

Drilled By: H. Allen Diamond Drilling Lt. Machine: Longyear 38

Described By:

ANOMALY: Y5-Y7

Bearing and Dip: 330° True, -47°

Started: June 13/78

R.S. Tolbert

CLAIM: Seven

Local Coord. X=

Completed: June 18/78

Diam. Drill: BQ

Depth (meters)		h Description & Lithology		Assay	No. of Sample
From	To			Au ppb	Depth(m)
0	9.6	Overburden.			· · · · · · · · · · · · · · · · · · · ·
9.6	13.23	Light grey altered porphyritic andesite tuff with 30% feldspar phenocrysts. Minor pyrite <1%. Rusty weathering fractures.	Py.	165	9.6-12.6
13.23	20.73	Light grey-green feldspar porphyritic andesite tuff propylitised. Larger		50	12.6-15.6
		fragments to 1 cm. Remnant hornblende(?) up to 20% stands out as peppery		20	15.6-21.6
22.32	(2.05	(<1 mm) texture.		50	21.6-24.6
20.73	41.96	Whitish-grey to greenish-white propylitised porphyritic andesite tuff. Larger dark fragments >1 cm.avg. <.5 cm. Calcite-chlorite dominates.	sparse py.	√ 5	24.6-27.6
		Bedding at 50° to core axis (c.a.). Calcite filled fractures. Colour	<u> </u>	10	27.6-30.6
		varies with calcite or chlorite content.		70	30.6-33.6
1.96	43.87	Light grey volcanic breccia, fine tuff 1-2 mm grading at bottom to 3 cm		10	33.6-36. <u>6</u>
		fragments grain supported to supported in fine grained grey matrix of		20	36.6-39.6
		section below. Fragments variable greenish to dark grey, fine grained.		< 5	39.6-42.6
		porphyritic to dioritic appearing.		. 5	42.6-45.6
3,87	45.31	Greenish-grey fine to medium grained waterlain(?) tuff grading into two	ļ		<u> </u>
		courser members at 44.87 and 45.37. Grading cross-bedding common. Grades			
		at 45.31 to greenish-grey fragmental tuff, fragments 2-4 mm avg.			
5.31	51.10	Above grades over 1 m to tuff with fragments up to 3 cm in size of varied		< 5.	45.6-48.6
		composition. Overall appears greenish-grey fragments sub-rounded to sub-		. <5	48.6-51.6
		angular. At 47.22 for 45 cm rusty weathered section.		<u> </u>	
	 				

Oepth (meters)		Description & Lithology		Assay	No. of Sample
From	То			Au ppb	Depth(m)
				30	51.6-55.0
51,1	59.13	Light grey feldspar andesite tolf with few noticeable fragments, grading to	Py.	15	55.0-58.0
		hornblende feldspar andesite. Quite magnetic. Few calcite veinlets. Minor		25	58.0-61.0
		pyrite in veinlet 30° to c.a.	,	< 5	51.0-64.0
9.13	75,59	Dark grev hornblende andesite. Altered to lighter colour around calcite		<5	64.0-67.0
		veinlets.		< 5	<u>67.0-70.0</u>
75.59	87.78	Dark grey magnetic hornblende andesite broken into blocks up to 10 cm.	Py.	<5	70.0-73.0
		Some short sections 81.88-83.38 with pyrite veinlets or pyrite rimming		< 5	73.0-76.0
		calcite veinlets 10° to c.a. Generally sparse pyrite.		< 5	76.0-79.0
37,78	92.05	As above, rare pyrite in fractures or rimming calcite veinlets.	Py.	5	79.0-81.0
				5	81.0-84.0
		End of hole.		<5	84.0-84.9
				<5	84.9-86.6
				<u>≺5</u>	86.6-89.6
	<u> </u>			< 5	89.6-90.6
			·	< 5	90.6-91.52
				55	91.52-92.0
		<u> </u>		<u> </u>	<u> </u>
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AREA: Yakoun

Hole No.: 78-3 Depth: 124.36 m

Drilled By: H. Allen Diamond Drilling Ltd.

ANOMALY: YS-Y7

Bearing and Dip: 150° True, -50°

Started: June 20, 1978 Machine: Longyear 38

Described By: R.S. Tolbert

CLAIM: Seven, Seven

Local Coord. X=

Z=

Completed: June	43//0	Diam.	Drill:	ÞΨ
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Depth (meters)		Description & Lithology	Mineralization	Assay	No. of Sample
From	То			Au ppb	Depth(m)
0	2.13	Overburden.			<u> </u>
2.13	11.28	Meathered greyish to pinkish heterolithic potassic volcanic breccia ranging	Avg. 1% diss.	5	2.13-5,13
		in size from <1 cm to >10 cm. Generally light greenish grey volcanics with	pyrite	30	5.13-8.13
		pinkish to white feldspar phenocrysts, making up 20% of rock 2-3 tm in size.		25	8.13-11.13
		hornblende <1 mm 15%. Potassic matrix. Minor calcite veinlets.			
11.28	13.33	Greenish-grey K-spar phyric (15%) potassic volcanic flow rock, fractured	1-2% ру.	20	11.13-14.13
		60-70% K-spar, 20-30% plagioclase, 10% hornblende.			<u> </u>
13.33	17.68	Greenish-grey to fleshy coloured K-spar rich heterolithic breccia. Most	Minor py.	15	4-13-17-1
		fragments similar to above rock. Calcite veinlet at 20° to c.a.			
17.68	20.22	Above rock blocky broken calcite veined more plagioclase rich than above.	<u> </u>	30	7.13-20.13
		Up to 10% pyrite.	10% ру.		<u> </u>
20.22	20.42	White gouge.		15	20,13-21,3
20,42	23.32	Grey hornblende-feldspar phyric andesite tuff. Magnetic, Fractured.		5	21, 33-24.3
23.32	37.49	Above rock blocky-broken gougy in fault zone, 50° to 70° to c.a.		<5	24,33-27.3
		(23.46-26.82 m - 77% recovery). 3 gouge zones in lower part 1 m wide each.		< 5	27, 33-30, 3
37.49	51.20	Heterolithic volcanic conglomerate(?). Reddish-maroon to greenish-grey	3-4% py.	10	30.33-33.3
		jaspery fragments to +10 cm, avg. 2 cm. Very little chloritic matrix.	Avg. I% py.	5	33.33-36.3
		Mostly fragment supported. Up to 3-4% py., avg. 1%. Few carbonate veinlets.		5	36.33-39.3
51.2	54.58	Reddish-maroon volcanic breccia grading to darker greenish colour. Upper		55	39.33-42.3
		part blocky and broken.		35	42.33-45.3
	-		<u> </u>		<u> </u>
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Dep (mete	th ers)	Description & Lithology	Mineralization	Assay Au	No. of Sample
From	To			ppb	Depth(m)
54.58	66.35	Contact 45° to c.a. Dark grey magnetic hornblende. Andesite calcite veined,		40	45.33-47.33
		one per 10-15 cm. Strongly veiped in lower 2 m parallel to 45° to c.a.		45	47.33-50.33
	l	Chloritised in and short distance from veinlets.		65	50.33-52.28
-16 .35	66.45	Contact zone 35° to c.a., gougy chloritised, carbonitised in upper part	very minor py.	20	52.28-55.78
		brecciated in lower part with red fragments from below.	<u> </u>	10	55.78-58.78
÷6.45	68.60	Non-magnetic. Dark greenish altered conglo-agglomerate. Very few reddish	<u> </u>	5	58.78-61.7 <u>8</u>
				15	61.78-64.78
<u> 65,60</u>	72.20	Greenish porphyritic agglomerate with reddish porphyritic to non-porphyritic	<u> </u>	5	54.78-67. <u>28</u>
		fragments. Avg. size 4 cm. some >10 cm. Few fractures and calcite veinlets.	<u> </u>	5	67.28-69.43
72.20	72.54	Greenish to grey-green gouge breccia zone minor calcite veining.		< 5	59.43-72.43
		Slickensides cross core axis.			<u> </u>
72.54	76.59	Greenish heterolithic tuff. Avg. size <1 cm. some red fragments. Minor	<u> </u>	10	72.43-75.43
	<u> </u>	calcite veinlets.		5	75.43-78.43
75.59	81.94	Fault zone în above tuff. Light greenish cataclasite, calcite veined.	Pyrite	<5	78.43-80.03
		slickensided, broken parallel to 45° to c.a. 81.79 pyrite veinlet 3 mm.		İ	<u> </u>
		20° to c.a.		20	80.03-83.0 3
51,94	87.78			5	83.03-84.83
	<u></u>	Avg. 1-2 cm. Very few red fragments. Calcite veinlets 45° to c.a.		5 _	34.83-87.83
<u>.57.78</u> .	89.93			≺ 5	3 <u>7.83-90.8</u> 3
		greener, larger less red fragments.		10	90.83-91.73
<u> 59.93</u>	103.2	Light grey feldspar porphyritic andesite tuff similar to Holes 1 and 2.	Minor pyrite.	20	91.73-93.13
		Upper 2 meters quite fragmental. Avg. size of fragments .5-1 cm. Minor		15	3.13-96,13
		pyrite in lower 1 meter 35° to c.a.		10	96.13-99.13
103.2	107.92		2% pyrite	5	162:13-
		rimming calcite veinlets.		10	102.13-
				1	
	$\Gamma = 1$		1	1	1

Depth (meters)		Description & Lithology	Mineralization	•	No. of Sample
From	То	• • • • • • • • • • • • • • • • • • •	·	Au ppb	Depth(m
107.92	109.84	As above, brecciated in portions with up to 15-20% pyrite in fractures,	15-20% py.	1400	103.63- 106.63
		filling yugs and rimming calcite veinlets.		5	188:23
109.84	110.67	Purplish to grev feldspar porphyritic andesite tuff. Fragments rarely	<1% pyrite	15	108.43- 111.43
		visible. Minor pyrite along fractures.	 	· · · ·	111.43-
110.67	112.17	Brecciated, calcite sealed feldspar andesite tuff. Minor pyrife.	Minor py.	< 5	111.43- 114.43
12.17	118.61	Purplish to grey feldspar porphyritic andesite tuff. Pyrite to 10% in short	<1% py.	< 5	114.43- 117.43
		sections. Calcite veined one per 8 cm.			117.43- 120.15
118.61	120.70	Brecciated, mylonitised light grev-greenish calcite veined pyritised	5% py.	<u>~5</u>	120.15 120.15 122.25
		fracture zone.	· · · · · · · · · · · · · · · · · · ·	< 5	122:25
120.70	124.36	Purplish to light grey feldspar porphyritic andesite tuff. Pyrite over	2% py.	·	122, 25
		short sections 10° to 50° to c.a.		5	122.25- 124.36
		,,			<u> </u>
		End of Hole.			
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Yakoun AREA:

Hole No.: 78-4

Depth: 90.83 m

Drilled By: H. Allen Diamond Drilling Ltd.
Described By:

ANOMALY: Y5-Y7

Bearing and Dip:

Started: June 28, 1978 Machine: Longyear 38

CLAIM: Seven West

Local Coord, X=

Υ×

Completed: June 30, 1978Diam. Drill: BQ

Depth (meters)		Description & Lithology	Mineralization		No. of Sample
From	То			Au ppb	Depth(m)
0	7.93	Overburden		45	7-93-10.97
7.93	22.53	Grevish-green, greenish to maroon tuff to agglomerate. Average fragment size		4 5,	10.97-14-63
		<pre><1 cm to 3 cm. Fine <1-2 mm feldspar phenocrysts (40%) give granular.</pre>		<u> </u>	14_63-17_68
		appearance. Hornblende to 10% in some sections. Varying proportions of		< 5	17,68-20.73
		varied coloured fragments determine colour of any section. Calcite veined		<u>.≼5</u>	20.73-23.77
		<1-2mm, 10° to 60° to core axis (c.a.). Propylitic alteration gives some		<u> </u>	
		short sections olive green colour. Bedding features 55° to c.a. (A)		<u> </u>	1
22.53	22.83	Black fault gouge 45° to C.a.			<u> </u>
22.83	23.77	Fine grained grey-green, grainy tuff <.3 cm grading to (A).			
23,77	30.48	Grainy appearance and colour similar to (A). Large fragments especially		10	23.77-26.8
		maroon up to 16 cm, comprise 10-20% of rock in finer grained matrix (R)		5	26.82-29.8
		At 29.07 m is 30 cm hornblende andesite dyke 50° to c.a.		5	29.87-32.9
30.48	45.05	1		< 5	32.92-35.9
		size 5-7 cm in similar grainy matrix.		5	35.97-39.0
45.05	45.10	Calcitic, chloritic shear zone 20° to c.a.		5	39.01-42.0
		(A) to (B) type rock continues.		45	42.06-45.1
		Dark grey-green rock similar to (A) and (B) but with fewer large fragments.		< 5	45.11-48.1
	49.46	Greenish to white calcitic, chloritic shear zone 20° to c.a.		5	48.16-51.2
49.46		Similar to (A) and (B) with more hornblende-rich fragments near base.			
					<u></u>
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	<u> </u>			,	1

Deoth (meters)		Description & Lithology Meters)	Mineralization	Assay Au	No. of Sample
From	To			ppb	Depth(m)
50.90	63.40	Light to dark grey fine to coarse reworked tuff. Five bands with graded	ĎΥ.	5	51,21-54.25
		bedding 50°-55° to c.a. Lower 10 cm has pyrite in fractures 30° to 40° to	ļ	5	54.25~57.30
		c.a. Calcite veined and fractured in upper 2 m. Veining 10° to 30° to c.a.		5	57.30-60.35
<u>=3.40</u>	80,04	Greenish-grey to grey tuff similar to (A) but less grainy appearing. 10%		<5	60.35-63.40
		maroon fragments to >15 cm avg. <1 cm. Pyrite occasionally in some fractures		<5	63.40-69.49
		especially lower 2 m.	Minor py.	<u>< 5</u>	69.49-72.5
50.04	82.0	Whitish-green porphyritic andesite agglomerate with prominent white		5	72.54-75.59
		plagioclase (3 mm) in dark green fragments and in matrix. 1 to 1 fragment	<u> </u>	5	75.59-78.64
		to matrix ratio. Most common are 1 cm to 2 cm dark green porphyritic	2% py.	. 5	78.64-79.89
		fragments. About 5% of fragments are maroon, occasionally >5 cm. Matrix		< 5	79.89-82.09
		is whitish and is calcite and chlorite rich. Quite vuggy rock with pyrite			<u> </u>
		disseminated and in fractures.			
32.0	90.83	Same as above with occasional pyrite along fractures.	Minor py.	<u><5</u>	82.09-84.7
				5	84.73-87.7 <u>8</u>
		End of hole		< 5	87.78-90.83
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AREA: Yakoun

Hole No.: 78-5

Depth: 89.92

Drilled By: H. Allen Diamond Drilling Ltd.
Described By:

ANOMALY: Y5-Y7

Bearing and Dip: 120°True, -47°

Started: July 1/78

Machine: Longyear 38

CLAIM: Seven West

Local Coord, X=

Completed: July 2/78

Diam. Drill: BQ

From To Pppb Depth(m ppp De	Depth (meters)		Description & Lithology	Mineralization	Assay	No. of Sample
5.49 17.38 Brown, weathered highly broken calcite veined hornblende andesite. < 5 5.49-8. 12.38 21.53 Dark grey hornblende andesite, strongly magneric. Epidote rimmed calcite veins 10° to 60° to core axis (c,a.)	From	То				Depth(m)
12,38 21.53 Dark grey hornblende andesite, strongly magneric. Epidote rimmed calcite C5 8.53-11	0	5.49	Overburden	<u> </u>	· 	
veins 10° to 60° to core axis (c,a)	5.49	12.38	Brown weathered highly broken calcite veined hornblende andesite.		< 5	5,49-8,53
21.83 Calcite vein 20° to c.a.	12.38	21.53	Dark grey hornblende andesite, strongly magnetic. Epidote rimmed calcite	<u> </u>	4 5	8.53-11.5
21.83 33.20 Terracotta - maroon altered porphyritic andesite tuff calcite veined (1 mm 5 17.68-20 to 2 cm)]	veins 10° to 60° to core axis (c.a.)	<u> </u>	<5	11.58-14.0
to 2 cm) 33.20 34.2 Altered fault gouge zone 30° to c.a., upper half olive green, lower light blue-green, calcitic. Minor pyrite. 34.2 38.56 Dark grey-green feldspar porphyritic andesite tuff. Feldspar not as prominent as in Hole 1. 35.36 prominent as in Hole 1. 36.56 54.25 Similar to A and B of Hole 4. One >15 cm fragment is of plagioclase-phyric Py. in fault 5 35.36-38 andesite. Pyrite in fault at 43.59 m 20° to c.a. 57.30 Brownish margon to greenish fragmental tuff (avg. size 1 cm) with 30% 5 41.76-45 porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments, <5 45.11-48 agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic andesite 5 54.25 57.30 brownish are up to 20 cm fragments of greenish fine porphyritic 5 54.25-57 texture. Rare large margon fragments. Matrix predominantly margon-terracotta	21.53	21.83	Calcite vein 20° to c.a.	<u> </u>	< 5	14.63-17.6
33.20 34.2 Altered fault gouge zone 30° to c.a., upper half olive green, lower light blue-green, calcitic. Minor pyrite. Minor py. <5 26.82-29 34.2 38.56 Dark grey-green feldspar porphyritic andesite tuff. Feldspar not as common prominent as in Hole 1. <5 32.31-35 38.56 54.25 Similar to A and B of Hole 4. One >15 cm fragment is of plagioclase-phyric py. in fault 5 35.36-38 andesite. Pyrite in fault at 43.59 m 20° to c.a. 5 38.56-41 54.25 57.30 Brownish maroon to greenish fragmental tuff (avg. size 1 cm) with 30% 5 41.76-45 porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments, <5 45.11-48 matrix (60%) supported. 5 48.16-51 57.30 87.47 Terracotta-maroon to greenish-grey muddy appearing porphyritic andesite	21.83	33.20	Terracotta - maroon altered porphyritic andesite tuff calcite veined (1 mm	<u> </u>	5	17.68-20.
blue-green, calcitic. Minor pyrite. 34.2 38.56 Dark grey-green feldspar porphyritic andesite ruff. Faldspar not as prominent as in Hole 1. 38.56 54.25 Similar to A and B of Hole 4. One >15 cm fragment is of plagioclase-phyric Py. in fault 5 35.36-38 andesite. Pyrite in fault at 43.59 m 20° to c.a. 5 38.56-41 54.25 57.30 Brownish margon to greenish fragmental tuff (avg. size 1 cm) with 30% 5 41.76-45 porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments, 5 48.16-51 57.30 87.47 Terracotta-margon to greenish-grey muddy appearing porphyritic andesite 5 51.21-54 agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic 5 54.25-57 texture. Rare large margon fragments. Matrix predominantly margon-terracotta 57.30-60				<u> </u>	< 5	20.73-23.
34.2 38.56 Dark grey-green feldspar porphyritic andesite tuff. Feldspar not as prominent as in Hole 1. < 32.57-32 prominent as in Hole 1. < 32.31-35 32.31-35 38.56 54.25 Similar to A and B of Hole 4. One >15 cm fragment is of plagioclase-phyric Py. in fault 5 35.36-38 andesite. Pyrite in fault at 43.59 m 20° to c.a. 5 38.56-41 54.25 57.30 Brownish margon to greenish fragmental tuff (avg. size 1 cm) with 30% 5 41.76-45 porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments, <5 45.11-48 matrix (60%) supported. 5 48.16-51 37.30 87.47 Terracotta-margon to greenish-grey muddy appearing porphyritic andesite agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic 5 54.25-57 texture. Rare large margon fragments. Matrix predominantly margon-terracotta <5 57.30-60	33.20	34.2	Altered fault gouge zone 30° to c.a., upper half olive green. lower light	<u> </u>	4 5	23.77-26.8
prominent as in Hole 1. 38.56 54.25 Similar to A and B of Hole 4. One >15 cm fragment is of plagioclase-phyric Py. in fault 5 35.36-38 andesite. Pyrite in fault at 43.59 m 20° to c.a. 5 38.56-41 54.25 57.30 Brownish margon to greenish fragmental tuff (avg. size 1 cm) with 30% 5 41.76-45 porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments, <5 45.11-48 matrix (60%) supported. 5 48.16-51 57.30 87.47 Terracotta-margon to greenish-grey muddy appearing porphyritic andesite <5 51.21-54 agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic 5 54.25-57 texture. Rare large margon fragments. Matrix predominantly margon-terracotta <5 57.30-66	\longrightarrow		blue-green, calcitic. Minor pyrite.	Minor py.	< 5	26.82-29.
38.56 54.25 Similar to A and B of Hole 4. One >15 cm fragment is of plagioclase-phyric Py. in fault 5 35.36-38 andesite. Pyrite in fault at 43.59 m 20° to c.a. 5 38.56-41 54.25 57.30 Brownish maroon to greenish fragmental tuff (avg. size 1 cm) with 30% 5 41.76-45 porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments, < 5 45.11-48 matrix (60%) supported. 5 48.16-51 57.30 87.47 Terracotta-maroon to greenish-grey muddy appearing porphyritic andesite 5 51.21-54 agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic 5 54.25-57 texture. Rare large maroon fragments. Matrix predominantly maroon-terracotta < 5 57.30-60	34.2	38.56	Dark grey-green feldspar porphyritic andesite tuff. Feldspar not as	<u> </u>	4 5	29.57-32.
andesite. Pyrite in fault at 43.59 m 20° to c.a. 5 38.56-41 54.25 57.30 Brownish maroon to greenish fragmental tuff (avg. size 1 cm) with 30% 5 41.76-45 porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments, 65 45.11-48 matrix (60%) supported. 5 48.16-51 57.30 87.47 Terracotta-maroon to greenish-grey muddy appearing porphyritic andesite 45 51.21-54 agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic 5 54.25-57 texture. Rare large maroon fragments. Matrix predominantly maroon-terracotta 5 38.56-41 5 41.76-45 45 51.21-54			prominent as in Hole 1.	<u> </u>	<5	32.31-35.
54.25 57.30 Brownish maroon to greenish fragmental tuff (avg. size 1 cm) with 30% porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments, matrix (60%) supported. 5 48.16-51 57.30 87.47 Terracotta-maroon to greenish-grey muddy appearing porphyritic andesite agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic texture. Rare large maroon fragments. Matrix predominantly maroon-terracotta 5 41.76-45 45.11-48 5 45.11-48 5 51.21-54 5 57.30-60	38.56	54.25	Similar to A and B of Hole 4. One >15 cm fragment is of plagioclase-phyric	Py. in fault	5	35.36-38.
porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments, matrix (60%) supported. 5 48.16-51 57.30 87.47 Terracotta-maroon to greenish-grey muddy appearing porphyritic andesite agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic texture. Rare large maroon fragments. Matrix predominantly maroon-terracotta 5 45.11-48 5 45.11-48			andesite. Pyrite in fault at 43.59 m 20° to c.a.		. 5	38.56-41.
matrix (60%) supported. 5 48.16-51 57.30 87.47 Terracotta-maroon to greenish-grey muddy appearing porphyritic andesite 45 51.21-54 46.25-57 48.16-51 48.16-51 49.25-57 49.25-57 40.25-57 40.25-57	54.25	57.30	Brownish maroon to greenish fragmental tuff (avg. size 1 cm) with 30%	<u> </u>	. 5	41.76-45.
57.30 87.47 Terracotta-maroon to greenish-grey muddy appearing porphyritic andesite agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic texture. Rare large maroon fragments. Matrix predominantly maroon-terracotta 53.21-54 54.25-57 57.30-60			porphyritic matrix. Dark colour overall. Lower 1 m has 6 m fragments,		<.5	45.11-48.
agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic 5 54.25-57 texture. Rare large maroon fragments. Matrix predominantly maroon-terracotta <5 57.30-60		_	matrix (60%) supported.		5	48.16-51.
texture. Rare large maroon fragments. Matrix predominantly maroon-terracotta <5 57.30-60	57.30	87.47	Terracotta-maroon to greenish-grey muddy appearing porphyritic andesite		∢5	51.21-54.
			agglomerate, in which are up to 20 cm fragments of greenish fine porphyritic		5	54.25-57.
			texture. Rare large maroon fragments. Matrix predominantly maroon-terracotta	<u> </u>	∢ 5	57.30-60
		<u> </u>	compact. A few broken sections around minor calcite veining.		4 5	60.35-63.
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θep (mete	th rs)	Description & Lithology	Mineralization	Assay	No. of Sample
From	То	<u> </u>		Au ppb	Depth(m)
87,47	88.39	Calcitic-chloritic broken fault zone 30° to c.a. In lower 10 cm greenish-	1	<5	53.40-66.45
		White brecciated calcite vein 30° to c.a.		4 5	6.45-69.49
88.39	89,92	Dark greenish-grey to brownish-grey graded reworked sandy tuff 70° to c.a.		4 5	59.49-72.54
<u> </u>				< 5	72.54-75.59
		End of Hole		<5	75.59-78.64
		·····		5	78.64-80. <u>77</u>
				< 5	80.77-83.82
				≺ 5	83.82-86.87
		<u> </u>		. 5	86.87-89.92
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AREA: Yakoun

Hole No.: 78-6

Depth: 103.02

Drilled By: H. Allen Diamond Drilling Ltd.

ANOMALY: Y5-Y7

35° True, -47° Bearing and Dip:

Started: July 3/78

Machine: Longyear 38

Described By:

CLAIM: Seven West

Local Coord, X=

Z= Υ-

Completed: July 5/78

Diam. Drill: BQ

Depth (meters)		Description & Lithology	Mineralization	Assay	No. of Sample
From	То			Au ppb	Depth(m)
0	_3.05	Overburden.			ļ
3.05	5.49	Brownish weathered broken hornblende andesite, calcite veined (70% recovery)		5_	3.05-5-49.
5.49	33.49	Dark greenish-grey to dark grey, highly magnetic, hornblende andesite.		5	5.49-8.53
		calcite veined (2 mm) 30° to c.a.		. 5	8.53-11.58
33.49	37.41	. Terracotta to maroon, altered tuff, broken and calcite veined		5	11.58-14.63
37.41	44.20	Gougy broken greyish to vellowish green weathered tuff, calcite veined 0 to 200		< 5	14.63-17.68
		to c.a.		5	17.68-20.7 <u>3</u>
44.20	44.85	Light greenish to white, calcitic, gougy fault zone 10° to 30° to c.a. Minor	Minor py.	<u>< 5</u>	20.73-23.77
		pyrite associated with calcite. Some brecciated calcite veining.		< 5	23.77-26.82
44.85	46.25	1 mm to 2 mm calcite veined stockwork 10° to 30° to c.a. in tuff		<.5	26.82-29.87
46.25	53.95	Greenish-grey fine porphyritic, matrix-supported agglomerate generally	Minor py.	5	29.87-32.92
		magnetic. Minor pyrite Fragments to 5 cm, generally dark though some are		. 5	32.92-35 <u>.97</u>
		brownish maroon.		< 5	35.97-39.0 <u>1</u>
53.95	66.39	Brownish to yellowish-green fault zone 20° to c.a., with some calcite veining,		۷.5	39.01-42.06
66.39	71.32	Same rock as before above fault. Almost no calcite veins. Two of 1 cm each	Minor py.	4.5	42.06-44.2
l		with minor pyrite.		< 5	44.2 -47.4
71.32	78.76	Dark greenish agglomerate with green, maroon 1-2 cm angular fragments		< 5	47.4 -50.6
		generally non to slightly porphyritic. Bedding 70° to c.a.		< 5	50.6-53.65
				4 5	53.65-57.3
				< 5	57.3-60.35
					T

Dep (mete		Description & Lithology	Mineralization	Assay Au	No. of Sample
From -	То		-	ppb	Depth(m)
78.76	89.03	Agglomerate same as at bottom of Hole 5. Porphyritic greenish-grey to	ļ	<u><5</u>	60.35-62.79
		paroon fractients to 5 cm. At too and middle of section greenish-white to		<u> </u>	62.79-65-23
		white gougy calcitic fault zones with minor pyrite. Fault at 20° to 30°	Minor py.	<u> </u>	65.23-68.28
		to c.a. with minor peripheral calcite veining.		≺ 5	68.28-71.32
89.03	89.53		Minor py.	<u> </u>	71.32-74.37
89.53			·	< 5	74 <u>,37-77.42</u>
		Fragments .5 cm. Rare brownish to maroon fragments. Stockwork of calcite		< 5	77.42-80.47
		veinlets 10° to 30° to c.a. with peripheral greenish alteration and rare	Rare py.	≺ 5	80.47-83.52
		pyrite. Magnetic.		<u><5</u>	<u> 83.52-86.87</u>
				≼ 5	B6.87-90.22
		End of hole		< 5	90.22-93.57
				4 5	93.57-96.93
				< 5	96.93-99 <u>.97</u>
	· - 1			< 5	182:82-
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APPENDIX II

ITEMIZED COST STATEMENT

Diamond Drilling - H. Allen Diamond Drilling Ltd.	\$39,723.25
Labour - Core splitting and drill hole survey, R. Durrance, June 19-30, July 3-7, 1978 - 94 hours @ \$5/hr.	\$ 470.00
Transportation -	
Hauling bombadier, Mijo Services Ltd., Queen Charlotte City, B.C 12 hours @ \$20/hr. Bombadier rental, Wm. R. Pringle, Queen Charlotte	\$ 240.00
City, B.C 12 hours @ \$30/hr.	\$ 360.00
Tilden truck rental (includes fuel) - 25 days @ \$44.70/day	\$ 1,117.50
Airline travel, R. Tolbert, H. Allen, (Vancouver-	\$ 288.00
Sandspit/return)	3 200.00
Accommodation (motel and meals) - 25 days @ \$26.45/day	\$ 661.25
Analysis (includes sample preparation, sample bags) 212 samples for Au @ \$5.35 each	\$ 1,134.20
Freight - Shipping drill core (Sandspit to Vancouver)	\$ 175.37
Planning and Supervision - A. Burgoyne, June 21-22, 2 days @ \$175.36/day	\$ 350.72
R. Tolbert, May 29-30, June 5-14, 23-28, 29-30, July 2, 5, 8-10, 1978 - 25 days @ \$89.40/day	\$ 2,235.00
DEEL Bushelos Istanostation manage	
Office - Drafting, interpretation, report R. Tolbert, July 29-31, 1978 - 3 days @ \$83.40/day	\$ 250.20
Secretarial, Miscellaneous	\$ 50.00
TOTAL	\$47,055.49

INVOICE NO. 352.

June 26, 1978.

Po: Umex and Mining Corp. Ltd. Suite 200 - 4299 Canada Way, Burnaby, B.C. V5G 1H4.

In Account lith:

H. Allen Diamond Drilling Ltd., Box 1397, Merritt, B.C. VOK 2BO.

This invoice is for drilling your Queen Charlotte Islands property:

Hole No. 1 - 398 ft. " " 2 - 302 ft. " " 3 - 408 ft.	
" " 3 - 408 it. 1108 ft. @ 414.75 per ft	16 3/3 00
	The second secon
47 core boxes @ 94.50	211.50
6 ft. B casing left in Hole #3 @ \$10.00 per ft	60.00
1 Bw casing shoe 4 4160.00 per shoe	160.00
5 boxes Quik I'rol @ \$66.00 per box	330.00
Pransportation costs -	
Merritt to off loading point - 1000 miles @ 2.00 per	
mile	3 2,000.00
Air fare to Sandspit - 3 fares @ \$31.00 each	93.00
rerry costs	366,00 19,563.50

Contractor's hepresentative

Company's hepresentative

Aleque#4 07302 June 29/78



INVOICE NO. 359.

July 10th. 1978.

To: Umex and Mining Corp. Ltd., Suite 200 - 4299 Canada Way, Burnaby, B.C. V5G 1H4.

In Account With:

H. Allen Diamond Drilling Ltd., Box 1397, Merritt, B.C. VOK 2BO.

This invoice is for drilling your Queen Charlotte Island property:

No. 5 - 295 ft. No. 6 - 338 ft.	
931 ft. @ \$14.75 per ft	\$13,732.25
37 core boxes @ \$4.50 per box	166.50
2 boxes Quik Trol @ \$66.00 per box	3 132.00
Nobe cost from job site back to Merritt - 1,000 miles @ \$2.00 per mile	\$ 2,000.00
Air fare Sandspit to Rupert 3 fares @ \$31.00 each	ψ 93 . 00
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Contractor's Representative ... Company's Representative

Cleque#4 07352 July 12/78 PAID

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H. ALLEN DIAMOND DRILLING LTD.

TELEPHONE \$76-4494

P.O. BOX 1397 MERRITT, B.C. VOK 2BO.

INVOICE NO. 373.

August 28th. 1978.

Umex and Mining Corp. Ltd., Suite 200 - 4299 Canada Way, Burnaby, B.C. V5G 184.

In Account With:

H. Allen Diamond Orilling Ltd., Box 1397, Merritt, B.C. VOK 2BO.

This invoice is for work at your Queen Charlotte Islands property:

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APPENDIX III

AUTHOR'S QUALIFICATIONS

- I, A.A. Burgoyne of 7924 Burnlake Drive, Burnaby, B.C., hereby certify:
 - I am a graduate of the University of British Columbia, B.Sc., Geology in 1962, and of the University of New Mexico, M.Sc., Geology in 1967.
 - (2) I am registered as a Professional Engineer of the Province of British Columbia and Yukon Territory.
 - (3) I am a founding member of the Association of Exploration Geochemists.
 - (4) I have practised my profession since 1962 with the Geological Survey of Canada, Falconbridge Nickel Mines Ltd., Anaconda American Brass Ltd., Crest Laboratories Ltd., and Union Miniere Explorations and Mining Corporation Limited (UMEX).
 - (5) Since 1970 I have been Exploration Manager, Western Canada, for UMEX.

APPENDIX III

AUTHOR'S QUALIFICATIONS

I, Robin S. Tolbert of 1102 - 1740 Comox Street, Vancouver, B.C. hereby certify that:

- I am a graduate of the University of Edinburgh, Edinburgh, Scotland, B.Sc. Geology in 1972.
- 2) I have practised my profession since 1969 with seasonal work (1969-1971) for various mining companies in British Columbia and Northwest Territories.
- 3) Since 1974 I have been employed as Project Geologist with Union Miniere Explorations and Mining Corporation Limited (UMEX), in mineral exploration in British Columbia, Yukon, and Western U.S.A.

In account weight In R. Perigle Bombadie rental

\$360.00

12 haurs @ \$30.

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> Mijo Services Ltd. Box 393 Queen Charlotte City, B.C. VOT 180

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