

COURTE

1981 DRILL PROGRAM

SOL 1, 2 and 4, and RILEY 2 MINERAL CLAIMS

QUEEN CHARLOTTE ISLANDS, B. C.

LATITUDE 53°22' LONGITUDE 132°25'

SKEENA MINING DIVISION

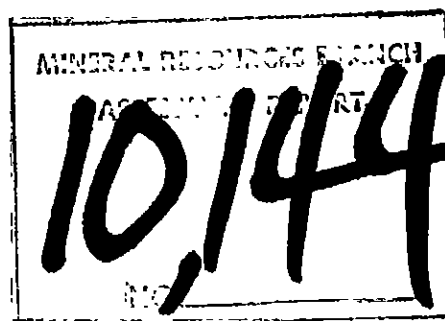
N.T.S. 103F/3W

OWNER: CHEVRON CANADA LIMITED

OPERATOR: CHEVRON STANDARD LIMITED

AUTHOR: M. THICKE

M481



December 1981

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CLAIMS

The property consists of 11 mineral claims totalling 60 units listed below (and Fig.2). The Courte block is owned by Chevron Canada Limited.

<u>Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Owner</u>
Sol 1	2	439	Sept. 16, 1977	Chevron Canada Limited
Sol 2	2	440	Sept. 16, 1977	"
Sol 3	3	441	Oct. 03, 1977	"
Sol 4	8	442	"	"
Riley 1	4	443	"	"
Riley 2	12	444	"	"
Hemlock 1	1	509	Feb. 10, 1977	"
Hemlock 2	1	510	"	"
Shields	1	511	"	"
Beerstrike	15	659	July, 1978	"
Rumplestiltskin #5	<u>6</u>	1185	March, 1979	"
Total	<u>60</u>			

LOCATION AND ACCESS

The Courte property is located approximately 30 miles west of Queen Charlotte City near the head of Renne! Sound on Graham Island, Queen Charlotte Islands (Fig. 1). Access is via McMillan Bloedel logging roads from Queen Charlotte City to the Yahoun River where the road branches west to Renne! Sound and the Courte property. The logging roads at Renne! Sound are under CEPA Logging management and are open to the public daily though care must be taken during working hours.

The property lies west of Old Baldy Mountain and is drained by Needles and Riley Creek. Logging roads make much of the property accessible by truck.

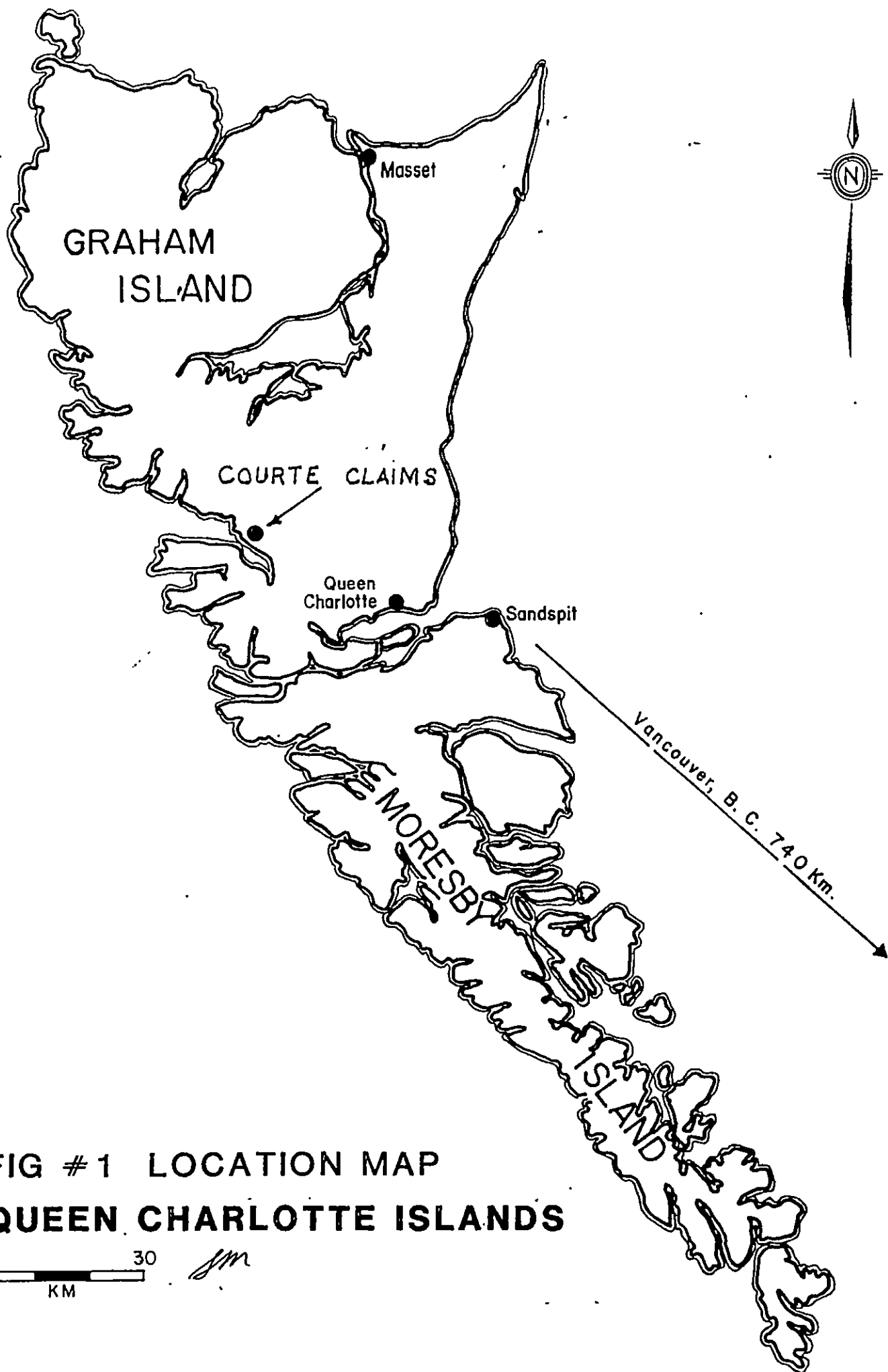
INTRODUCTION

The Courte drilling program was carried out and completed from mid-September to mid-December 1981. The hole locations were selected based on a number of factors (Arscott, 1981). These include; the main NW geochemical trend and a possible secondary NW trend just SE of the main trend; Au and As geochemical highs; north-south structures and intensely fractured areas; known surface mineralization; pyritic, sericitic and possibly ankeritic alteration.

It is thought that perhaps the best mineralization may be found where north-south structures intersect NW geochemical trends (Arscott, 1981). Low Au geochem values in relation to values obtained from the main showing suggest fairly intense surface leaching. Therefore, low-valued Au anomalies may be quite significant (Arscott, 1981).

A previous drill program was carried out by JMT Services Corp. in late 1979 and completed in early 1980. Significant intersections were cored displaying interesting Au values and notable alteration. JMT Services Corp. performed previous reconnaissance and detailed work in 1977 and also aided with logging core in this program.

A total of 1229 m was drilled from 9 holes. The drill used for DDH-81C-1 to DDH-81C-6 was a Longyear Hydracore 28 with a Hatz 2 cylinder diesel motor and BQ wireline equipment. For holes DDH-81C-9 through 11 a Longyear Super 38, drilling NQ core with wireline equipment was used. Hole 81C-4 was abandoned after 58 m and was completed (81C-9) with the larger machine. A Bell 206L was used for all drill moves. Core is presently stored in the Chevron Standard warehouse in Queen Charlotte City.



**FIG #1 LOCATION MAP
QUEEN CHARLOTTE ISLANDS**

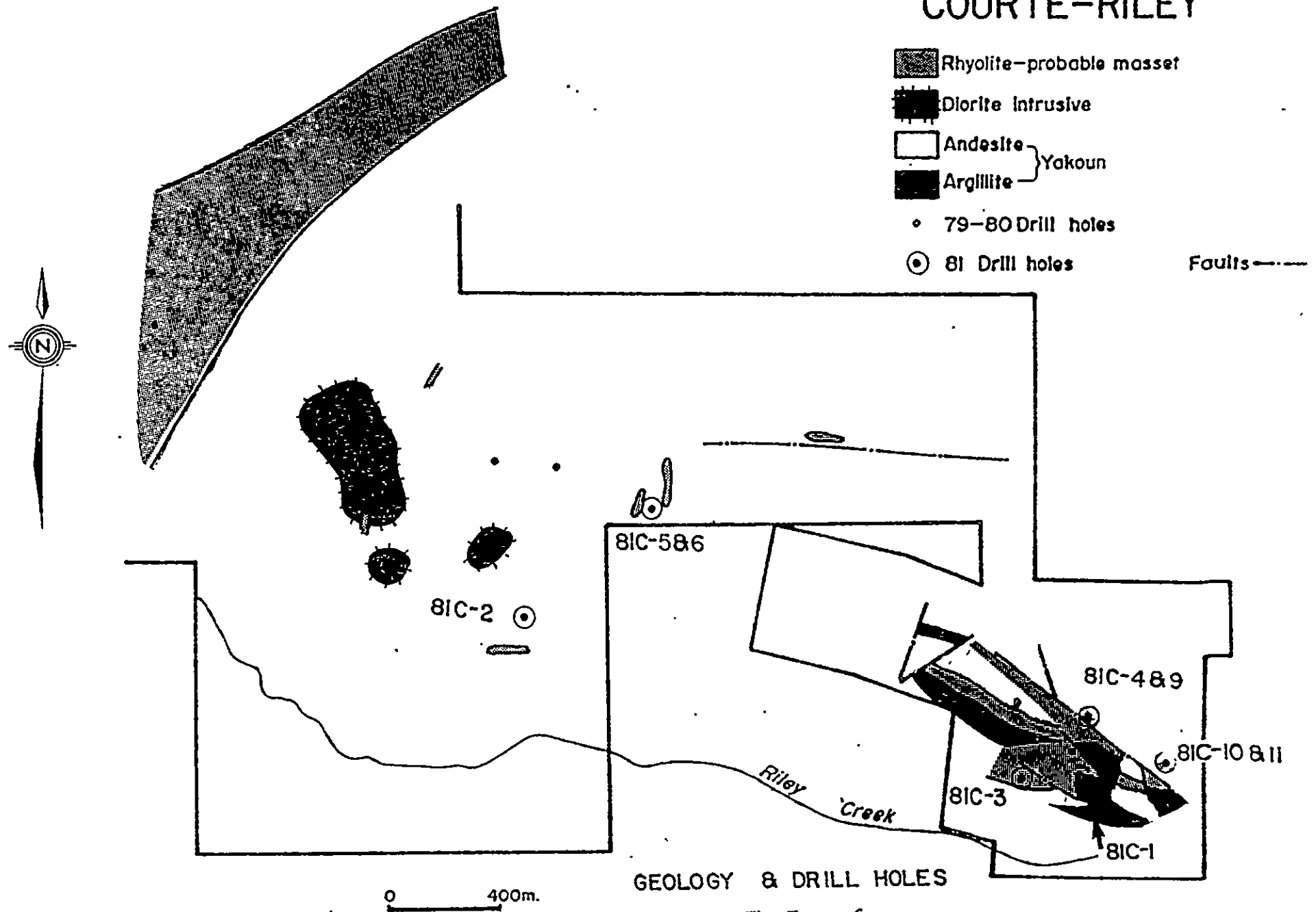
Considerable areas of logged timber provide greater access and exposure to outcrop though traversing through slash can be quite time consuming.

DISCUSSION

A previous drilling program in late 1979, early 1980 uncovered significant intersections of anomalous Au values and interesting alteration. A diamond drilling program was planned for 1981 based on previous work and certain geologic and geochemical considerations. These considerations include the main NW geochemical trend and a possible secondary NW trend SE of the main trend. Also included are geochemical Au and As highs, known surface mineralization, NS structures, intense fracturing and pyritic, sericitic and possibly ankeritic alteration (Arscott, 1981). Consideration to hole placement was also affected by the possibility of favourable mineralization occurring where NS structures intersect NW geochemical trends (Arscott, 1981).

Rock types are mostly Jurassic Yakoun Formation volcanics and minor sediments. Intrusive diorite was found at the end of 81C-10. Favourable Au geochemical results were found only in holes 81C-1 and 9 and 10 (81C-11 results unavailable at time of writing though taken from same site as 10). Rock types of these three holes are very similar. They include porphyritic andesite agglomerate (agglomerate texture absent at times), dacite (propylite by C. Harivel), feldspar porphyry, felsite or felsic tuffs, arkosic sandy tuff(?) and grey siltstone with volcanic fragments. The remaining holes consisted of porphyritic andesite agglomerate and/or feldspar porphyry. The silica content of these volcanics could be locally high. Carbonaceous zones, fragments and argillite fragments, often containing up to 5% pyrite, were present within the volcanics in significant amounts in 81C-2, 3, 5 and possibly 6.

COURTE-RILEY



GEOLOGY & DRILL HOLES

Fig. 3

Jm

Alteration varied from low to extreme in fault gauges, and averaged low to moderate throughout. Alteration included clay, sericite-chlorite, pyrite, hematite, carbonatization, minor zeolitization and only local silicification.

Calcite veins, dominant over quartz veins, could be seen readily in any hole while quartz veins were strictly local. Pyrite was the most abundant sulphide occurring >10% at times though mostly 1-2%. Pyrite occurred in intervals in most holes as fine disseminations, blebs, euhedral crystals, on fractures, within and as selvages of both quartz and calcite veins. Pyrrhotite, much less common than pyrite, was found in 81C-1 and possibly in other holes. Pyrrhotite occurs as similarly as pyrite. Other sulphides include trace chalcopryrite and stibnite and an unidentified grey mineral found in 81C-10 and 11.

Au anomalies intersected in 81C-1 were relatively low and occurred over no more than 2 - 3 m. 81C-9, which replaces 81C-4, was drilled towards a stibnite showing on Sol Creek. Drilled at -60° from horizontal some significant intersections were made from 116 m to completion. 151 - 154 m runs approximately 0.1 oz/ton Au. Holes 81C-10 and 11 were drilled from the same location dipping -63° and -55° respectively. These were also aimed southerly at a small stibnite showing a couple of hundred meters SE of 81C-9. Results for 81C-10 show anomalous Au values over 4.5 m where the showing was intersected at depth. Andesites, dacites and other volcanics were the main hosts for anomalies.

Holes 81C-9 to 11 are drilled a short distance NE of a prominent NW trending fault. Andesites to the north of the fault are broken but unaltered and unmineralized. South of the fault rocks are altered, quartz veins are present

and occasionally mineralized with stibnite and pyrite. It is, therefore, recommended that detailed prospecting and possibly hand trenching be done along this NW trending structure to determine possible continuations of mineralization between 81C-9 and 81C-10 and 11 and NW of 81C-9.

APPENDIX

COURTE 1981 DRILLING PROGRAM
COST STATEMENT

LABOUR

J.M.T. Services Corp.

C. Harivel, geologist	17.5 days @\$200/day	\$3,500.00
W.A. Howell, geologist	23 days @\$200/day	4,600.00
K.W. Livingstone, geologist	1 day @\$200/day	200.00
Travel and field expenses		1,387.66

<u>Total</u>	\$9,687.66
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Chevron Standard Limited

	<u>Field</u>	<u>Office</u>	<u>Total</u>
D.Arscott, geologist	12	5	17
P.Henry, Field Superv.	30	0	30
M.Thicke, geologist	60	1	61
T.Zanger, assistant	90	1	<u>91</u>

Total person-days	199
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199 person days x \$128 per day	25,472.00
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EXPENSES

Tri Mac Drilling

Costs include supplies and mobilization	199,094.69
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Accommodation	6,477.65
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Vancouver Island Helicopters

82.9 hr. at average of \$500/hr + fuel	45,729.88
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Vangeochem Lab Ltd.

757 analysis for As, Hg, Sb, and Au	12,267.55
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Truck Rental	<u>1,899.74</u>
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TOTAL PROGRAM COST	<u>\$300,629.17</u>
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STATEMENT OF QUALIFICATIONS

I, Mike Thicke graduated from the University of British Columbia in May, 1980 with a B.Sc. degree. Four seasons have been spent working in exploration geology in B.C., including two since graduation. I am presently employed as a geologist by Chevron Standard Limited of Vancouver, B. C.

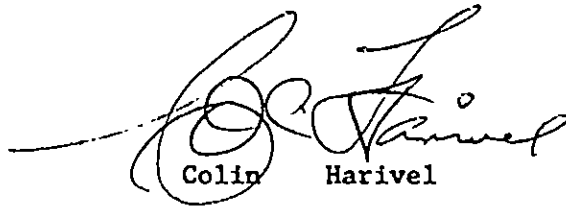
A handwritten signature in cursive script that reads "Mike Thicke".

MIKE THICKE

STATEMENT OF QUALIFICATIONS

I, C. Harivel of Telkwa, British Columbia, do hereby certify that:

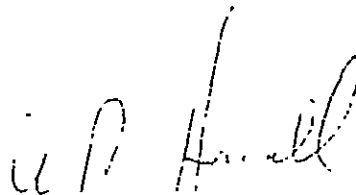
1. I am a geologist residing at Hislop Road, Telkwa, B.C., V0J 2X0.
2. I am a graduate of the University of British Columbia; B.Sc. Honours Geology - 1972.
3. I have practiced my profession as a mining exploration geologist continuously since 1972.



Colin Harivel

STATEMENT OF QUALIFICATIONS

- 1) I, William A. Howell, reside at 10611 Ainsworth Crescent, Richmond, B.C.
- 2) I am a graduate of the University of British Columbia and have a Bachelor of Science degree in Geology (1971).
- 3) I have been employed in the mineral exploration industry since 1967, continuously since 1971 in a variety of supervisory capacities.

A handwritten signature in dark ink, appearing to read 'W. A. Howell', is written above the printed name.

W. A. HOWELL

SAMPLE TAGGING

DDH-81C-1

FOOTAGE

SAMPLE NO.

30-35	1
35-41.3	2
41.3-45	3
45-50	4
50-55	5
55-60	6
60-65	7
65-70	8
70-75	9
75-80	10
80-85	11
85-90	12
90-95	13
95-100	14
100-105	15
105-110	16
110-115	17
115-120	18
120-125	19
125-130	20
130-135	21
135-140	22
140-145	23
145-150	24
150-155	25
155-160	26
160-165	27
165-170	28
170-175	29
175-180	30
180-185	31
185-190	32
190-195	33
195-200	34
200-205	35
205-210	36
210-215	37
215-222.5	38
222.5-228.5	39
228.5-234	40
234-240	41
240-245	42
245-250	43
250-255	44

SAMPLE TAGGING
DDH-81C-1

FOOTAGE

SAMPLE NO.

255-260	45
260-265	46
265-270	47
270-275	48
275-280	49
280-285	50
285-290	51
290-295	52
295-300	53
300-305	54
305-310	55
310-315	56
315-320	57
320-325	58
325-330	59
330-335	60
335-340	61
340-345	62
345-350	63
350-355	64
355-360	65
360-365	66
365-370	67
370-375	68
375-380	69
380-385	70
385-390	71
390-395	72
395-400	73
400-405	74
405-410	75
410-415	76
415-420	77
420-425	78
425-430	79
430-435	80
435-440	81
440-445	82
445-450	83
450-455	84
455-460	85
460-465	86
465-470	87
470-473	88
473 END OF HOLE	

SAMPLE TAGGING

DDH-81C-2

<u>FOOTAGE</u>	<u>SAMPLE NO.</u>
55-60	89
60-65	90
65-70	91
70-75	92
75-80	93
80-85	94
85-90	95
90-95	96
95-100	97
100-105	98
105-110	99
110-115	100
115-120	101
120-125	102
125-130	103
130-135	104
135-140	105
140-145	106
145-150	107
150-155	108
155-160	109
160-165	110
165-170	111
170-175	112
175-180	113
180-185	114
185-190	115
190-195	116
195-200	117
200-205	118
205-210	119
210-215	120
215-220	121
220-225	122
225-230	123
230-235	124
235-240	125
240-245	126
245-250	127
250-255	128
255-260	129
260-265	130
265-270	131
270-275	132
275-280	133
280-285	134
285-290	135
290-295	136
295-300	137

SAMPLE TAGGING

DDH-81C-2

FOOTAGESAMPLE NO.

300-305	138
305-310	139
310-315	140
315-320	141
320-325	142
325-330	143
330-335	144
335-340	145
340-345	146
345-350	147
350-355	148
355-360	149
360-365	150
365-370	151
370-375	152
375-382	153
382-385	154
385-390	155
390-395	156
395-400	157
400-405	158
405-410	159
410-415	160
415-420	161
420-425	162
425-430	163
430-435	164
435-440	165
440-445	166
445-450	167
450-455	168
455-460	169
460-465	170
465-470	171
470-475	172
475-480	173
480-485	174
485-490	175
490-495	176
495-498.3	177
498.3-505	178
505-510	179
510-515	180
515-520	181
520-525	182
525-530	183
530-535	184
535-540	185
540-545	186
545-548	187
548 END OF HOLE	

SAMPLE TAGGING
DDH-81C-3

<u>FOOTAGE</u>	<u>SAMPLE NO.</u>
19-25	188
25-30	189
30-35	190
35-40	191
40-45	192
45-50	193
50-55	194
55-60	195
60-65	196
65-70	197
70-75	198
75-80	199
80-85	200
85-90	201
90-95	202
95-100	203
100-105	204
105-110	205
110-115	206
115-120	207
120-125	208
125-130	209
130-135	210
135-140	211
140-145	212
145-150	213
150-155	214
155-160	215
160-165	216
165-170	217
170-175	218
175-180	219
180-185	220
185-190	221
190-195	222
195-200	223
200-205	224
205-210	225
210-215	226
215-220	227
220-225	228
225-230	229
230-235	230
235-240	231
240-245	232
245-248.3	233
248.3-255	234
255-260	235
260-265	236
265-270	237

SAMPLE TAGGING

DDH-81C-3

<u>FOOTAGE</u>	<u>SAMPLE NO.</u>
270-275	238
275-280	239
280-285	240
285-290	241
290-295	242
295-300	243
300-305	244
305-310	245
310-315	246
315-320	247
320-325	248
325-330	249
330-335	250
335-340	251
340-345	252
345-350	253
350-355	254
355-360	255
360-365	256
365-370	257
370-375	258
375-380	259
380-385	260
385-390	261
390-395	262
395-400	263
400-405	264
405-410	265
410-415	266
415-420	267
420-425	268
425-430	269
430-435	270
435-440	271
440-445	272
445-450	273
450-453.5	274
453.5 END OF HOLE	

SAMPLE TAGGING

DDH-81C-4

<u>FOOTAGE</u>	<u>SAMPLE NO.</u>
25-30	275
30-35	276
35-40	277
40-45	278
45-50	279
50-55	280
55-60	281
60-65	282
65-70	283
70-75	284
75-80	285
80-85	286
85-90	287
90-95	288
95-100	289
100-105	290
105-110	291
110-115	292
115-122	293
122-135	294
135-140	295
140-145	296
145-150	297
150-155	298
155-160	299
160-165	300
165-170	301
170-180	302
180-191	303
191-END OF HOLE	

SAMPLE TAGGING

DDH-81C-5

5-10	304
10-15	305
15-20	306
20-25	307
25-30	308
30-35	309
35-40	310
40-45	311
45-50	312
50-55	313

SAMPLE TAGGING
DDH-81C-5

<u>FOOTAGE</u>	<u>SAMPLE NO.</u>
55-60	314
60-65	315
65-70	316
70-75	317
75-80	318
80-85	319
85-90	320
90-93	321
93-95	322
95-100	323
100-105	324
105-110	325
110-115	326
115-120	327
120-125	328
125-130	329
130-135	330
135-140	331
140-145	332
145-150	333
150-155	334
155-160	335
160-165	336
165-170	337
170-175	338
175-180	339
180-185	340
185-190	341
190-195	342
195-200	343
200-205	344
205-210	345
210-215	346
215-220	347
220-225	348
225-230	349
230-235	350
235-240	351
240-245	352
245-250	353
250-255	354
255-260	355
260-265	356
265-270	357
270-275	358
275-280	359
280-285	360
285-290	361
290-295	362
295-300	363
300-305	364

SAMPLE TAGGING

DDH-81C-5

FOOTAGE

SAMPLE NO.

305-310	365
310-315	366
315-320	367
320-325	368
325-330	369
330-335	370
335-340	371
340-345	372
345-350	373
350-355	374
355-360	375
360-365	376
365-370	377
370-375	378
375-380	379
380-385	380
385-390	381
390-395	382
395-400	383
400-405	384
405-410	385
410-415	386
415-420	387
420-426	388
426 END OF HOLE	

SAMPLE TAGGING

DDH-81C-6

7-10	389
10-15	390
15-20	391
20-25	392
25-30	393
30-35	394
35-40	395
40-45	396
45-50	397
50-55	398
55-60	399
60-65	400
65-70	401
70-75	402
75-80	403
80-85	404
85-90	405
90-95	406
95-100	407
100-105	408

SAMPLE TAGGING

DDH-81C-6

FOOTAGESAMPLE NO.

105-110	409
110-115	410
115-120	411
120-125	412
125-130	413
130-135	414
135-140	415
140-145	416
145-150	417
150-155	418
155-160	419
160-165	420
165-170	421
170-175	422
175-180	423
180-185	424
185-190	425
190-195	426
195-200	427
200-205	428
205-210	429
210-215	430
215-220	431
220-225	432
225-230	433
230-235	434
235-240	435
240-245	436
245-250	437
250-255	438
255-260	439
260-265	440
265-270	441
270-275	442
275-280	443
280-285	444
285-290	445
290-295	446
295-300	447
300-305	448
305-310	449
310-315	450
315-320	451
320-325	452
325-330	453

SAMPLE TAGGING

DDH-81C-6

FOOTAGE

SAMPLE NO.

330-335	454
335-340	455
340-345	456
345-350	457
350-355	458
355-360	459
360-365	460
365-370-	461
370-375	462
375-380	463
380-385	464
385-390	465
390-395	466
395-400	467
400-405	468
405-410	469
410-415	470
415-420	471
420-425	472
425-430	473
430-436	474
436 END OF HOLE	

SAMPLE TAGGING

DDH-81C-9

22-30	538
30-35	539
35-40	540
40-45	541
45-50	542
50-55	543
55-60	544
60-65	545
65-70	546
70-75	547
75-80	548
80-85	549
85-90	550
90-95	551
95-100	552
100-105	553
105-110	554
110-115	555
115-120	556
120-125	557

SAMPLE TAGGING

DDH-81C-9

FOOTAGESAMPLE NO.

125-130	558
130-135	559
135-140	560
140-145	561
145-150	562
150-155	563
155-160	564
160-165	565
165-170	566
170-175	567
175-180	568
180-185	569
185-190	570
190-195	571
195-200	572
200-205	573
205-210	574
210-215	575
215-220	576
220-225	577
225-230	578
230-235	579
235-240	580
240-245	581
245-250	582
250-255	583
255-260	584
260-265	585
265-270	586
270-275	587
275-280	588
280-285	589
285-290	590
290-295	591
295-300	592
300-305	593
305-310	594
310-315	595
315-320	596
320-325	597
325-330	598
330-335	599
335-340	600
340-345	601
345-350	602
350-355	603
355-360	604
360-365	605

SAMPLE TAGGING
DDH-81C-9

<u>FOOTAGE</u>	<u>SAMPLE NO.</u>
365-370	606
370-374	607
375-380	608
380-385	609
385-390	610
390-395	611
395-400	612
400-405	613
405-410	614
410-415	615
415-420	616
420-425	617
525-430	618
430-435	619
435-440	620
440-445	621
445-450	622
450-455	623
455-460	624
460-465	625
465-470	626
470-475	627
475-480	628
480-485	629
485-490	630
490-495	631
495-500	632
500-505	633
505-510	634
510-515	635
515-520	636
520-525	637
525-530	638
530-535	639
535-540	640
540-545	641
545-550	642
550-555	643
555-560	644
560-565	645
565-570	646
570-575	647
575-580	648
580-585	649
585-590	650
590-595	651
595-600	652

SAMPLE TAGGING

DDH-81C-9

FOOTAGESAMPLE NO.

600-605	653
605-610	654
610-615	655
615-620	656
620-625	657
625-630	658
630-635	659
635-640	660
640-645	661
645-650	662
650-655	663
655-660	664
660-665	665
665-670	666
670-675	667
675-680	668
680-685	669
685-690	670
690-695	671
695-700	672
700-705	673
705-710	674
710-715	675
715-720	676
720-725	677
725-730	678
730-735	679
735-740	680
740-745	681
745-750	682
750-755	683
755-760	684
760-765	685
765-770	686
770-775	687
775-780	688
780-785	689
785-790	690
790-795	691
795-800	692
800-805	693
805-810	694
810-815	695
815-820	696
820-825	697
825-830	698
830-835	699
835-840	700

SAMPLE TAGGING

DDH-81C-9

FOOTAGE

SAMPLE NO.

840-845	701
845-850	702
850-855	703
855-860	704
860-865	705
865-870	706
870-875	707
875-880	708
880-885	709
885-890	710
890-895	711
895-900	712
900-905	713
905-910	714
910-915	715
915-920	716
920-925	717
925-930	718
930-935	719
935-940	720
940-945	721
945-950	722
950-955	723
955-960	724
960-965	725
965-970	726
970-975	727
975-980	728
980-985	729
985-990	730
990-995	731
995-1001	732
1001- END OF HOLE	

SAMPLE TAGGING

DDH-81C-10

18-25	733
25-30	734
30-35	735
35-40	736
40-45	737
45-50	378
50-55	739
55-60	740
60-65	741
65-70	742
70-75	743

SAMPLE TAGGING

DDH-81C-10

FOOTAGE

SAMPLE NO.

75-80	744
80-85	745
85-90	746
90-95	747
95-100	748
100-105	749
105-110	750
110-115	751
115-120	752
120-125	753
125-130	754
130-135	755
135-140	756
140-145	757
145-150	758
150-155	759
155-160	760
160-165	761
165-170	762
170-175	763
175-180	764
180-185	765
185-190	766
190-195	767
195-200	768
200-205	769
205-210-	770
210-215	771
215-220	772
220-225	773
225-230	774
230-235	775
235-240	776
240-245	777
245-250	778
250-255	779
255-260	780
260-265	781
265-270	782
270-275	783
275-280	784
280-285	785
285-290	786
290-295	787
295-301	788
301 - END OF HOLE	

SAMPLE TAGGING

DDH-81C-11

FOOTAGE

SAMPLE NO.

36-40	789
40-45	790
45-50	791
50-55	792
55-60	793
60-65	794
65-70	795
70-80	796
80-85	797
85-90	798
90-95	799
95-100	800
100-105	801
105-110	802
110-115	803
115-120	804
120-125	805
125-130	806
130-135	807
135-140	808
140-145	809
145-150	810
150-155	811
155-160	812
160-165	813
165-170	814
170-175	815
175-180	816
180-185	817
185-190	818
190-195	819
195-201	820
201- END OF HOLE	

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-1 Sheet No. 1 of 10
 Section _____
 Date Begun Sept. 15/81
 Date Finished Sept. 18/81

Lat. _____
 Dep. - 53°
 Bearing 173°
 Elev. Collar 207.32 m

Total Depth 144.21 m
 Logged By M. Thicke
 Claim Courte
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 9.15 m	CASING						
9.15 - 12.90 m	PORPHYRY ANDESITE AGGLOMERATE						
Box 1	Fine grained - medium grained. $\geq 5\%$ clay altered feldspar phenocrysts. Phenocrysts whitish-grey in colour.						
	Andesitic groundmass pale-grey-green, clay-sericite						
	minor chloritic alteration, moderate high alteration.						
	Low fracture density masked by alteration. Fractures						
	contain dark green chlorite and/or carbonaceous material						
	on fractures. 9.91 and 10.52 m are areas of high						
	density fracturing. Fracturing in many orientations,						
	calcareous material in andesite possibly $>5\%$. Pyrite						
	up to 2% in disseminations, blebs and calcite veinlets.						
	Pyrite often seen as small euhedral crystals. Calcite						
	veins: 9.85 m (60°), 10.21 m (60°), 11.13 m (100°),						
	11.59 m (lens and veinlets), 12.65 m (120°), 12.96 m (60°).						
	Calcite medium grained, white. Quartz veins absent,						
	non magnetic.						
12.90 - 21.77 m	LAPILLI TUFF.						
	Contacts obscured by intense clay-sericite alteration.						
Box 2	Colour, pale grey green. Fragments usually a darker						
	grey-green, can be lighter shades. Likely $>5\%$ carbonate						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. _____ DDH-81C-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-1 Sheet No. 2 of 10 Lat. _____
 Section _____ Dep. _____ - 53°
 Date Begun Sept. 15/81 Bearing 173°
 Date Finished Sept. 18/81 Elev. Collar 207.32 m

Total Depth 144.21 m
 Logged By M. Thicke
 Claim Courte
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
12.90 - 21.77 m	in groundmass. Fragments mostly angular and up to >2.54 cm						
(Cont'd)	long; mostly caving at 15.24 - 15.34 m. Pebbly 0.3-0.6 cm. Pyrite present in minor disseminations - can be found >5%, i.e.: 17.01 m over 10 cm. Possibly minor chalcopyrite. Alteration may be increasing with depth.						
	In both porphyry andesite and tuff, instances of a "siliceous and silicified" nature though rock is easily scratched and reacts with HCl. Possibly more than one alteration phase?? Calcite veins: 19.36 (60°), 20.43 - 20.73m (150° - heavy fracturing and veins up to 1/4" wide - some pyrite), 26.22 m (11).						
21.77 - 67.70 m	PORPHYRY ANDESITE AGGLOMERATE CONTINUES.						
Box 3	Alteration intense. Pyrite very evident and easily						
Box 4	observable. Continues to show "silicified appearance in places, now soft clay-calcareous material, i.e. 31.10 - 33.54 m. Some feldspar phenocrysts may have been > 0.6 cm long, 33.92 m. Gauge material at 34.51 m (7.5 cm), 34.94 m (5 cm) and 36.59-36.89 m.						
Box 5	Fractures low - moderate density. Alteration intense. Mottled surface texture and colour - note 41.16 m where feldspar alter a different colour. Colour						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. _____ DDH-81C-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-1 Sheet No. 3 of 10
 Section _____
 Date Begun Sept. 15/81
 Date Finished Sept. 18/81

Lat. _____
 Dep. -53°
 Bearing 173°
 Elev. Collar 207.32 m

Total Depth 144.21 m
 Logged By M. Thicke
 Claim Courte
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
21.77 - 64.70 m (Cont'd)	changing to a stronger grey colour. Pyrite up to 5% as very small disseminations observed throughout andesite. "REMANANT" silicified zones still present, though very altered. 42.38 - 42.68 m pyrite > 5%, possibly silica "veins" at 42.68 m(?) 42.90 m narrow fractures trending ~145° contains pyrite and possibly stibnite on its surface. Dark green material is likely chlorite (some dark material carbonaceous) slickensides present. Gauges at 38.20 m, 41.55 m. Calcite veins: 39.76 m (20°), 39.36 m (20°).						
Box 6	Intensely altered porphyry andesite agglomerate continues. As described above. Little textural info until 49.9 m whereas whitish-grey feldspars reappear. Pyrite disseminated throughout, up to 5%. 50.76 m quartz veins evident. Pyrite found within quartz veins. Quartz veins: 50.76 m (1.2 cm ~40°), 51.07 m (15°), 51.52 m (.6 cm ~10°).						
Box 7	Intense alteration continues. Feldspar phenocrysts (clay altered) ≥ 5%. No quartz veins. Minor calcite veins. Fracturing more prominent. Pyrite not as obvious as above. Silvery-white pyrite (possibly						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-81C-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-1 Sheet No. 4 of 10 Lat.
 Section Dep. - 53°
 Date Begun Sept. 15/81 Bearing 173°
 Date Finished Sept. 18/81 Elev. Collar 207.32 m

Total Depth 144.21 m
 Logged By M. Thicke
 Claim Courte
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
21.77 - 64.70 m	arsenopyrite?) and stibnite at 54.12 m. Carbonate						
(cont'd)	abundant. At 53.05 m small zone of fragment ~1" wide						
	and 3" long of very dense material. Likely once						
	silica or at least siliceous, now altered and calcareous.						
	Oriented ~130°. Pyrite dissemination easily visible						
	especially ~57.32 m. Gauges at 52.59 m. Calcite veins:						
	52.59 m (0.6 cm ~110°, with pyrite), 52.74 (160°) + minor						
	veins, at many orientations. Weakly magnetic.						
Box 8	Porphyry andesite agglomerate, moderate to highly						
	fractured at least 10 to 13 per meter. Dark green						
	chlorite on most fracture surfaces (carbonaceous??).						
	Pyrite often present on fractures, as well as dissemina-						
	tions and blebs etc. Feldspar phenocrysts distinguish-						
	able though clay altered. Alteration of andesite very high.						
	Carbonate present. Stibnite with pyrite in veinlike form						
	at 62.35 m (.6 cm ~100°) and possibly 62.59 m (irregular						
	130°). These are likely fracture fillings. 62.50 -						
	63.11 m fracturing more intense and pyrite more						
	abundant.						
64.70 - 65.76 m	Possibly <u>ANDESITE</u> though <u>no</u> feldspar phenocrysts.						
Box 8 & 9)	Calcareous. Darker grey alteration moderate to well						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. DDH-81C-1 _____

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-1 Sheet No. 5 of 10
 Section _____
 Date Begun Sept. 15/81
 Date Finished Sept. 18/81

Lat. _____
 Dep. - 53°
 Bearing 173°
 Elev. Collor. 207.32 m

Total Depth 144.21 m
 Logged By M. Thicke
 Claim Courte
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
64.70 - 65.76 m	fractured. Pyrite present in disseminations and blebs						
(cont'd)	as well as in calcite veins, as above, up to 5%. Rock						
	is well altered, mostly clay. Possibly zeolite?						
	65.64 m. Fuchsite(?) in small blebs at 64.79 m -						
	greenish, soft, fuchsite looking(?). Calcite veins:						
	65.39 m (125°, 1.2 - 2.5 cm, contains pyrite).						
65.76 - 144.21 m	PORPHYRY ANDESITE AGGLOMERATE CONTINUES						
Box 9	As above. Pyrite vein at 68.85 m (140° ~ 1/16").						
	Quartz vein with pyrite at 67.23 m (140° up to 1.2cm, possibly						
	contains stibnite). 67.84 - 69.66 m extremely altered						
	fault material. Colour ranges from very dark grey						
	(carbonaceous?). to light creamy grey. Slightly						
	calcareous. Minor pyrite visible. Calcite veins:						
	70.24 m (150° 0.6 cm wide), 71.04 m (35°). At 70.70 m						
	porphyry andesite becomes a darker grey shade. Possibly						
	alteration decreasing, or a change in composition(?).						
	Pyrite and possibly pyrrhotite present. Pyrite not as						
	abundant as above.						
Box 10	Lighter grey andesite porphyry continues at 73.26 m.						
	"Contacts" 60° with darker material. ~ 74.09 m						
	distinguishable agglomerate nature of porphyry andesite.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-1 Sheet No. 6 of 10

Section _____

Date Begun Sept. 15/81

Date Finished Sept. 18/81

Lat. _____

Dep. - 53°

Bearing 173°

Elev. Collar 207.32 m

Total Depth 144.21 m

Logged By M. Thicke

Claim Courte

Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
65.76 - 144.21 m (cont'd)	Alteration high. Fracture density down to (or 2 per foot). Pyrite abundant, some euhedral crystals > 1/8" wide. Pyrite in "clusters" over 5%, i.e.: 74.18 m pyrite vein 77.32 m (35° ~ .1 cm). Calcite vein 79.27 m (110°)						
Box 11	Porphyry Andesite Agglomerate continues. 80.34 m fracturing increases. 82.26 m darker variety of andesite returns. May be due to dark chlorite (carbonaceous material) within fractures and in the porphyry andesite. Pyrite as above. Pyrite notable at 81.55 m with altered vein material (135° ~ .6 cm), and 81.86 m also in vein (160° .6 - 1.2 cm), vein is carbonate. Alteration becoming darker grey-green. Volcanic glass in fracture at 84.33 m. Quartz vein material with pyrite ~ 83.99 m - 84.15 m, irregular.						
Box 12	Continues as above. Alteration darker grey-green, possibly alteration decreasing. Moderate - high fracture density. Pyrite occurs as usual. 85.67 m more fragmented texture, possibly an old vein zone? Calcite veins and few quartz notably increase abundance. Calcite veins: 87.74 m (veins over 12 cm, 90°, with pyrite), 89.41 m (135°, 3 veins, minor pyrite), 88.87 m (45°), 89.45 m (65°),						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-1 Sheet No. 7 of 10 Lat. _____
 Section _____ Dep. -53°
 Date Begun Sept.15/81 Bearing 173°
 Date Finished Sept.18/81 Elev. Collar 207.32 m

Total Depth 144.21 m
 Logged By M. Thicke
 Claim Courte
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
65.76 - 144.21 m	90.73 m (70°, .1-.3 cm), 91.31 m (135°, 2.5 cm wide with						
(cont'd)	altered volcanic fragments - gauge). Quartz veins: 91.86 m						
	(180°, .1 cm with pyrite), 92.56 m (145°, .1 cm),						
	92.71 m (130°), also irregular veins - veinlets with						
	abundant pyrite. Quartz content possibly increasing,.						
	Fine grained, light blue-grey quartz blebs, veins and						
	veinlets becoming more apparent.						
Box 13	Medium grey, moderately altered porphyry andesite						
	continues. Alteration decreasing, pyrite mineralization						
	constant, ~3% and up to 5%. Silica content increasing,						
	certain "hardness" to andesite, more bluish-grey quartz						
	veins with pyrite: 94.82 m (60°, .6-1.2 cm), 95.34 m (40°, 1.2 cm),						
	95.82 m (irregular veinlets) + various small veinlets and						
	lenses. Calcite veins: 93.75 m (50°, .1 - .3 cm)						
	96.19 m (180°, minor pyrite), 96.65 m (15°, .6cm disseminated						
	pyrite and 135° latter staged and unmineralized),						
	99.09 m (35°, .6 cm), 99.70 m (140°, .6-1.2cm with pyrite						
	enveloping), 100.30 m fragmented texture, 3% pyrite.						
Box 14	Low - moderate alteration. Silica content may be high.						
	Carbonate 5% throughout. Pyrite as above. Increase						
	in pyrrhotite, found as disseminations and as selvages						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. DDH-81C-1 _____

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-1 Sheet No. 8 of 10

Section _____

Date Begun Sept. 15/81

Date Finished Sept. 18/81

Lat _____

Dep. -53°

Bearing 173°

Elev. Collar 207.32 m

Total Depth 144.21 m

Logged By M. Thicke

Claim Courte

Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
65.76 - 144.21 m	along calcite veins. Calcite almost black at times.						
(cont'd)	Notable pyrrhotite along calcite veins: 102.65 m (.6 cm, 45°),						
	103.84 m (30°). 7.5 cm volcanic fragment appears porphyritic ±						
	fragmented at 100.26 - 100.91 m. Concentration of silica						
	veining at 105.49 m. Abundant pyrite, pyrrhotite and						
	possibly chalcopyrite associated with this quartz. Low -						
	high fracturing, at times containing mineralization.						
Box 15	Low altered porphyry andesite agglomerate, carbonate						
	content very apparent. Siliceous content of andesite						
	seems high. Medium grey. Pyrite as above. Pyrrhotite						
	as irregular selvage on few calcite veins: 110.52 m,						
	111.89, and 114.15 m. Calcite veins: 109.85 m (10° - 15°,						
	irregular with pyrite), 110.52 m (180° contains pyrite),						
	111.89 m (115° with pyrite and pyrrhotite), 109.45 m						
	(30°), 114.02 m (110°) + minor veins, veinlets and blebs.						
	Moderate fracture density ~ 6 to 10 per meter.						
Box 16	Porphyry Andesite Agglomerate. Agglomeratic texture						
	prominent. Fracture density 13 to 16 per meter. Pyrite						
	often in fractures, and disseminated in andesite.						
	Pyrrhotite found at 116.40 m with pyrite as fracture filling						
	veinlets and veins, calcareous content high. Calcite						
	veins: 115.70 m (20°).						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. _____ DDH-81C-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-1 Sheet No. 9 of 10 Lat. _____
 Section _____ Dep. -53°
 Date Begun Sept. 15/81 Bearing 173°
 Date Finished Sept. 18/81 Elev. Collar 207.32 m

Total Depth 144.21 m
 Logged By M. Thicke
 Claim Courte
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
65.76 - 144.21 m	(cont'd)						
Box 17	Notable Agglomerate Texture between 127.74 - 129.27 m.						
	Moderate fracturing. Andesite very similar to above.						
	Alteration negligible. No pyrrhotite. Cluster of						
	calcite crystals at 125. m up to 1/4" long, also glass						
	fragments and andesite fragments. Calcite veins: 126.52 m						
	(135°), 126.65 m (135°, .1 -.3 cm), 127.96 m (165°,						
	.6-1.2 cm), 128.81 m (150°, .3 cm with andesite fragments).						
	Pyrite vein 130° at 128.81 m. At 124.09 m cluster of						
	pyrite blebs.						
Box 18	Porphyry Andesite Agglomerate. Fracture density moderate.						
	Agglomeratic texture very evident. Pyrite more common						
	in fractures than in disseminations. Pyrrhotite present						
	in fractures, veins, veinlets ± disseminations						
	especially evident between 129.27 - 133.54 m. Calcite						
	veins: 130.85 m (75°), 131.46 m (140°), 135.06 m (130°, .6						
	cm with volcanic fragments), 135.55 m (160° with pyrite						
	to 2 - 3%).						
Box 19	Andesite as above. Pyrite content may be dropping,						
	mostly observed in fractures, veins or veinlets,						
	Notable cluster of pyrite at 139.73 m. Note small beige-						

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-1

[illegible]

Hole No. C-1 Sheet No. 10 of 10

Section.....

Date Begun.....Sept. 15/81

Date Finished.....Sept. 18/81

Lat. _____

Dep. -53°Bearing 173°

Elev. Collar...207.32 m.....

Total Depth.....144.21 m

Logged By.....M. Thicke.

Claim _____ Courte _____

Core Size BO

[illegible]

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-81C-2

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-2 Sheet No. 1/11

Section

Date Begun Sept. 22/81

Date Finished Sept. 25/81

Lat.

Dep. -50°

Bearing 185°

Elev. Collar 237.80 m

Total Depth 167.07 m

Logged By M. Thicke

Claim Courte

Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
16.77 m	CASING						
16.77 - 17.07 m	PORPHYRY ANDESITE BOULDERS						
17.07 - 92.99 m	PORPHYRY ANDESITE AGGLOMERATE.						
Box 1	medium grey with light green-purple tint. 0.1cm -						
(16.77 - 23.48 m)	0.3 cm feldspar phenocrysts $\geq 5\%$. 1% -2% biotite grains						
	Phenocrysts euhedral to subhedral. Feldspars clay						
	altered. Fracture density high. Hematitic (possibly						
	ankeritic) material occurs irregularly on many fracture						
	surfaces. Pyrite mostly on fractures, rarely in andesite						
	until ~ 22.26 m, as blebs, clusters or disseminations						
	along calcite veins. Alteration low, mostly evident						
	along fractures. Clay-sericite alteration. 5% -10%						
	calcareous. Veining predominantly calcite. Silica						
	content of porphyry probably high. Dark, grey-black						
	material carbonaceous argillitic material, i.e. 18.96m						
	and 21.04 m. Calcite veins: 17.93 m (45°), 18.90 m						
	(40° & 140°), 21.04 m (140° with pyrite),						
17.06 - 92.96 m	22.87 m (140°, 0.3 - 0.6 cm, fragments).						
Box 2	PORPHYRY ANDESITE AGGLOMERATE CONTINUES.						
(23.48-30.03m)	28.34 m agglomerate texture evident. Pyrite disseminated						
	trace - 1%. Fracturing moderate - high, some with						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-2

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-2 Sheet No. 2/11 Lot. _____ Total Depth. _____
 Section. _____ Dep. _____ Logged By. _____
 Date Begun. _____ Bearing. _____ Claim. _____
 Date Finished. _____ Elev. Collar. _____ Core Size. _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(Cont'd)	ankerite-hematite. Slickensides present on most fractures						
	Much material on fractures is carbonaceous (chloritic??).						
	Agglomerate fragments include some carboniferous-argillite						
	sediments as well as volcanics. Calcite veins: 25.30m						
	(60°), 26.37m (30°), 28.05m (150°), 28.60m (40°),						
	0.6cm with carbonaceous argillite).						
Box 3	Fracturing low-moderate & andesite becoming less blocky						
(30.03-36.59m)	& more competent. 32.93m fracturing low. "Silicified"						
	texture over 15.2cm at 34.76m & 35.06m. Pyrite occurs						
	as above. Clay-sericite alteration mostly confined to						
	fractures - little or no ankeritic-hematitic material						
	seen. Quartz vein: 34.76m (130° - 2 veins, minor pyrite).						
17.06 - 92.96 m	Calcite veins: 31.40m (large bleb), 33.05m (160°),						
	33.23m (45°, 0.6cm, fragmented), 34.97m (180° & 45°),						
	35.46m (0.3cm, 30°, minor pyrite), 36.40m (50°).						
Box 4	PYRITE 1 - 2%. PORPHYRY ANDESITE AGGLOMERATE AS ABOVE.						
(36.59-43.90m)	Notable pyrite at 39.63m. Carbonaceous material in						
	fractures at 40.55m. Pronounced agglomeritic texture						
	~ 42.9m. Quartz vein: 37.13m (65°, 0.6cm, also						
	bluish-grey veinlets). Calcite veins: 37.35m (25°, 0.3cm)						
	37.90m (irregular), 38.90m (145°), 40.61m (45°),						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-81C-2

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-2 Sheet No. 3/11

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	40.85m (170°), 41.46m - 41.62m (irregular blebs & veinlets), 42.07 m (75°, 0.6cm, minor pyrite), 42.84m (110°).						
Box 5	PORPHYRY ANDESITE AGGLOMERATE.						
(43.90-50.91m)	44.36m - 48.17m andesite "shot" full of Calcite veins, veinlets & blebs ≥ 15%. Siliceous matrix in this interval						
	Pyrite 1-2%, disseminated throughout andesite. Darker material likely due to carbonaceous content - often						
	occurs when agglomerate texture prominent - also 43.90m						
	-48.17m.						
17.06 - 92.96 m	Fragments almost totally volcanic (andesite) calcareous material up to 10% in andesite. By 48.48m fracturing						
	low-moderate. Trace ankeritic-hematitic material.						
	Alteration low. Calcite veins: 44.36m - 48.17m (irregular						
	veins, veinlets & blebs), few quartz veinlets in this						
	interval, 49.54 m (35°, 0.3cm), 50.30m (35°), 50.76m						
	(165°).						
Box 6	VERY BLOCKY PORPHYRY ANDESITE AGGLOMERATE.						
(50.91-57.77m)	Alteration may be increasing slightly. Calcite vein						
	difficult to measure due to broken core. Veins						
	moderately plentiful from 50.91m - 57.77m.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-2

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. C-2 Sheet No. 4/11 Lat. _____ Total Depth _____
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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd) Box 7	PORPHYRY ANDESITE REGAINED "COMPETENCY".						
(57.77-64.79m)	Characteristics as above. Pyrite finely disseminated, trace - 1%. Calcareous nature $\geq 10\%$. Colour remains medium grey with green-purple tints. Alteration absent to very low. Quartz veins rare, irregular veins & veinlets at 61.28m. Calcite veins: 58.23m (165°), 61.89m (145°) + many veinlets & blebs. Two "veins" of very carbonaceous material up to 0.6cm wide at 61.74m (150°).						
Box 8	At 66.16m porphyry andesite becomes more altered, notably around fractures. Clay altered feldspars. Pyrite mineralization unchanged. Calcite veining increasing. Blocky between 67.99 - 68.90m. Dark material is likely carbonaceous. 69.21m alteration moderate to highly intense - clay-sericite. Porphyry texture still present. 69.82m pyrite mineralization 2%, very finely disseminated. Quartz vein intersected (180°) at 67.38m. Uncertain whether pyrite associated with quartz. 67.68m porphyry texture masked by alteration. Very altered & broken at end of box.						
(64.63-71.65m)							
Box 9	ALTERATION CONTINUES HIGH.						
(71.65-78.96m)	Pyrite visibly present throughout altered material.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

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Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	in fractures, veinlets, blebs & disseminations. Dark carbonaceous material present. Silica content may be high in altered andesite. Possibly zeolite. Carbonaceous fracture containing 5% pyrite at 73.78m (35°, 0.6cm). 75.00m porphyry texture returns, alteration intense.						
17.06 - 92.96 m	Small greenish bleb at 74.33m - possibly malachite (?). 76.52m porphyry texture disappears. 76.98m alteration takes on a mottled greenish hue, likely increased sericite alteration. At this point little visible pyrite calcite veins, veinlets & blebs are very irregular & very plentiful.						
Box 10	78.96m agglomeritic texture. Alteration very intense.						
(78.96-85.98m)	Green & mottled. Calcite veins (minor quartz veins) at least 12 measurable veins/metre. 82.47m purplish hue - mottled green/purple. Pyrite in small euhedral dissemination up to 2%. Darker carbon-chloritic material decreased markedly since 76.52m.						
17.06 - 92.96 m	Greenish-sericitic alteration continues until 89.27m.						
Box 11	88.41 - 89.12m extremely altered & fractured zone, containing minor pyrite. 12.7 - 2.5cm massive, coarse calcite vein at 86.28m (145°)- no sulphides.						
(85.98-92.99m)							

DIAMOND DRILL RECORD

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DIP TEST		
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Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	89.27m calcite veining decreases. Porphyry andesite becomes medium grey-purple, alteration high. Pyrite in odd disseminations, generally not easily visible $\geq 5\%$ clay altered feldspar phenocrysts. Calcite veins: 91.62m (110°).						
92.99 - 97.10 m	SUCCESSION OF PORPHYRY ANDESITE, CARBONACEOUS ARGILLITE & FELDSPAR PORPHYRY.						
Box 12							
(92.99-100.00m)	92.99 - 93.78m irregular intervals of all three varieties. 93.48m (100°) feldspar porphyry contacts porphyry andesite & continues to 95.21m where it contacts feldspar porphyry (100°). Feldspar porphyry contains a 15.2cm fragment(?) or dyke(?) of andesite porphyry (145° lower contact). 95.21 - 97.10m another "succession" of porphyry andesite, carbonaceous argillite & feldspar porphyry. Lower contact lost in extreme alteration. Carbonaceous argillite is dark grey-black, very deformed & contains stringers of calcite & feldspar porphyry fragments. Feldspar porphyry light grey, moderately fractured, may be fragmented. Pyrite was observed mostly around fractures at 93.78m contact. Pyrite may or may not occur in these successions. Clay-sericite alteration						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

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 Date Begun _____
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Lat. _____
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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	high.						
97.10 - 116.46 m	Extreme alteration. Likely porphyry andesite to end of box. Vein material appears quartz-like only so altered can scratch with a finger nail. Moderate, irregular calcite veining. Pyrite rare.						
Box 13 (100.00-107.32m)	Moderately altered (clay-sericite) porphyry andesite agglomerate. Pyrite disseminated along fractures 1%.						
	Carbonaceous material within andesite i.e. 100.46 - 104.88m. Various small feldspar porphyry "dykes" within						
97.10 - 116.46 m	andesite. Moderate-high alteration, especially along fractures. Pyrite to 1%. 100.91 (35°) - 101.13m						
	(90° -pyrite disseminated along contact), 102.59m (0.3cm						
	irregular)105.49m (irregular) - 106.65m (160°, contact						
	with calcite vein). Calcite veins: 100.76m (35°),						
	103.90m (130°, 0.3cm), 105.27m (30°, 0.6cm, contains						
	argillite fragments).						
Box 14 (107.32-114.94m)	Feldspar porphyry "dykes" continue: 107.62 (115°) -						
	108.23m (150°, high alteration - contains carbonaceous						
	material), 109.15 - 111.13m (90°) contains carbonaceous						
	material, fragmented, minor pyrite. Porphyryr andesite						
	moderate - highly altered.. Fracturing moderate-high						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-81C-2

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Hole No. C-2 Sheet No. 8/11

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Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	≥ 10/meter. Quartz vein: 109.76m (25°), 0.3cm, altered, calcite as selvage) also quartz blebs 110.98m. Calcite veins: 107.90m (65°), 110.88m (170°) + many veinlets.						
97.10 - 116.46m	PORPHYRY ANDESITE AGGLOMERATE AS ABOVE.						
Box 15	Moderate-well fractured, pyrite to 1%, moderate alteration.						
(114.94-121.74m)	Dark carbonaceous material (chloritic?) on fractures						
	Quartz vein: 115.88m (155°), 116.10m (30°). Both veins 1.2 - 2.5 cm wide.						
116.46 - 143.12 m	Feldspar porphyry. Light-medium grey. Finegrained with clay-sericite moderate alteration. Low fracture density, 3 - 6/m. Minor biotite phenocrysts altered to chlorite(?) disseminate pyrite to 2%, 3% on fractures. Fragment or "dyke" of porphyry andesite 119.91m (140°) - 120.37m.						
	Quartz vein: 116.31m (45°), 120.73m (45°). Feldspar porphyry likely highly siliceous. Calcite veins: 117.38m (140°), 118.60m(115°), 118.90m (65°), 119.27m (160°), 120.27m(50°), 121.04m (35°).						
Box 16	MODERATE - HIGHLY ALTERED FELDSPAR PORPHYRY.						
(121.74-129.12m)	Pyrite to 1% disseminated. Numerous carbonaceous "zones":						
116.46 - 143.12 m	122.07m , 123.63m, 127.44m - actually coal-like, 127.93m. Pyrite disseminated through carbonaceous						

DIAMOND DRILL RECORD

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Date Begun.....

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Elev. Collar.....

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	material. Low fracture density. Quartz veins: 125.15m (165°, 1.2cm), 125.91m (40°, 1.8cm), calcite veins: 121.95m (35°, 0.6-1.2cm), 125.61m (60°), 128.20m (135°).						
Box 17 (129.12 - 136.28m)	FELDSPAR PORPHYRY, MODERATE ALTERATION, PYRITE DISSEMINATED 1%. Carbonaceous zones: 131.19m, 132.32m, 132.80m, 138.38m. Similar to previous box. Quartz veins: 134.15m (0.3cm, 155°, calcite as selvage). Calcite veins: 129.21m (140°), 132.23m (35°), 134.60m (145°, 180°, 2.5cm), 135.21m (30° & 130°), 135.67m (130° & 90°).						
Box 18 (136.28-143.29m)	FELDSPAR PORPHYRY, MODERATE-HIGHLY ALTERED. Carbonate content 5%. Pyrite 5% on fracture at 138.11m. 141.16m may give evidence that feldspar porphyry is quartz feldspar porphyry(?). Gauge 139.48m. Carbonaceous zones: 139.88m & 140.55m. Calcite veins: 137.50m (35°), 138.32m(20°), 138.72m (30°), 140.61m (25°) + minor veins & veinlets. Lower contact 125°.						
116.46 - 143.12 m							
143.7 - 151.92 m	Highly altered, very fractured porphyry andesite agglomerate between 143.29 - 146.65m. 148.78m becomes low-moderate alteration. Fracturing & blockiness decreasing notably by 146.65m. Pyrite trace 1%. Carbonaceous zones: 143.29m, 145.12m, 149.85m. Agglomerate fragments appear to be feldspar porphyry.						
Box 19 (143.29-150.00m)							

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DIP TEST		
Footage	Angle	
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Section

Date Begun

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Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	Calcite veins: 144.42m (135°), 146.34m (155°), 148.41m (155°) + minor veins & veinlets.						
Box 20 (150.00-157.32m)	ALTERED PORPHYRY ANDESITE AGGLOMERATE, HIGH AROUND 150.57m Trace Pyrite, up to 2%, on fractures. Similar to Box 19. At 150.34m feldspar porphyry "dyke" (145°, 110°) or fragment. Quartz vein: 150.76m (125°). Calcite vein: 151.68m (145°).						
151.92 - 167.07 m	FELDSPAR PORPHYRY. MODERATE - HIGHLY ALTERED. Moderate - high fracture density. Blocky at 154.88m. Many calcite blebs and veinlets. "zones" of porphyry andesite at 154.27m & 156.25m. Carbonaceous material at 154.27m & 157.01m. Trace pyrite. May be fragmented - could be due to fracturing. Quartz vein: 153.96m (45°).						
Box 21 (157.32-163.87m)	FELDSPAR PORPHYRY. 157.01 - 158.84m, greenish colour, likely sericitic alteration. 158.84 - 162.20m lighter grey clay alteration. generally moderate alteration, high from 159.45 - 160.67m. Pyrite mostly on fractures, often associated with carbonaceous material. Fracturing moderate. Carbonaceous material: 157.34 - 157.62m, 161.89m & other minor occurrences. 162.50m, low alteration, becomes "greener" & grains						

DIAMOND DRILL RECORD

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Core Size _____

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DIAMOND DRILL RECORD

PROPERTY _____ COURTE _____

HOLE No. DDH -81C-3

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-3 Sheet No. 1/11
 Section _____
 Date Begun Oct. 2/81
 Date Finished Oct. 7/81

Lat. _____
 Dep. -50°
 Bearing 181°
 Elev. Collar 257.62 m

Total Depth 138.26m
 Logged By M. Thicke
 Claim COURTE
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 5.79 m	CASING						
5.79 - 68.60 m	PORPHYRY ANDESITE AGGLOMERATE. light-dark grey.						
Box 1	Porphyritic texture hard to distinguish. Agglomeretic						
(5.79-12.65m)	texture very evident. Fracturing moderate-high, about						
	6 - 10/metre. Likely carbonaceous material on fracture						
	surfaces. Carbonate content $\approx 5\%$. Blotchy ankeritic-hema-						
	titic material on fracture surfaces. Andesitic groundmass						
	of agglomerate contains much carbonaceous material.						
	Pyrite present on fractures, small euhedral disseminations						
	& "blebs" up to 0.3cm across; i.e. 6.71 - 7.62m up to						
	5%. Siliceous appearing material around 9.14 m is						
	very calcareous. 11.89 - 12.20m abundant carbonaceous						
	material. Minor calcite veins: 7.93m (140°), 10.67m						
	(90°). Alteration moderate, mostly clay-carbonate (?),						
	some sericite. 12.3m moderate-high alteration.						
Box 2	Low-moderate altered porphyry andesite agglomerate.						
(12.65-20.73m)	Carbonate content $\leq 5\%$. Pyrite mostly on fractures,						
	disseminated throughout. Trace - 2% & with calcite veins						
	& veinlets ~20.12m. Feldspar phenocrysts clay altered.						
	17.53 - 18.14m mottled & irregular biotite (?) grains,						
	altered to chlorite. Low-moderate fracture density,						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE _____

HOLE No. DDH-81C-3

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Hole No. C-3 Sheet No. 2/11

Section. _____

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Date Finished.....

Lat. _____

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Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
5.79 - 68.60 m	minor ankeritic-hematitic material. Calcite veins: 13.72m (135°), 16.01m - 17.38m (irregular veinlets), 18.45m (15°, 1.2cm, carbonate on edges).						
Box 3	Low-moderately altered porphyry andesite agglomerate.						
(20.73-27.74m)	High carbonaceous material at 24.09m, 24.70m. & 27.13m with ≥ 5% disseminated Pyrite. Fracturing moderate, carbonaceous (chlorite??) on fracture surfaces, minor ankeritic-hematitic material. Pyrite similar to above, though heavily disseminated around quartz & calcite veins. Calcite veins later stage than quartz veins as illustrated by cross-cutting at 26.22m. Quartz veins: 21.22m (125°), 24.39m (35°), pyrite as selvage), 25.30m (45°, & 45°, 1.2 - 2.5 cm; 0.6 cm, pyrite as selvage), 25.82m (60°, 2 veins, pyrite as envelope & selvage), 25.91m (60°), 26.22m (35°, irregular veinlets, abundant pyrite) 26.77m (45°, 0.6 - 1.2 cm; pyrite & carbonaceous). Calcite veins: 22.56 (100°), 22.87m (145°), 23.54m (50°), 23.48m (50°, 0.3cm with pyrite & carbonaceous), 25.06m (120°), 25.82m (145°), 26.22m (135°, 0.6cm), 27.50m (110°, 1.2cm).						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE _____

HOLE No. DDH-81C-3

DIP TEST		
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Date Begun _____

Date Finished _____

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Elev. Collar _____

Total Depth _____

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Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd) Box 4 5.76 - 68.60 m (27.74-34.76m)	LOW ALTERED PORPHYRY ANDESITE AGGLOMERATE. Low-moderate fracture density, alteration moderate. High on fractures, some ankeritic-hematitic material on fractures; carbonaceous material mostly on fractures & in concentrations, i.e. 29.42m, 34.45m. Pyrite mostly enveloping fractures or veins.						
Box 5 (34.76-41.92m)	Alteration moderate-high. Rare pyrite present on few fractures, minor disseminations. 35.37 - 35.67m. High carbonaceous material. Low-moderate fracture density. 37.65 - 38.87 m ankeritic-hematitic material on fractures. Fractures almost parallel to C.A. 38.87 - 39.94m alteration low, clay altered feldspar phenocrysts evident. 35.37 - 37.80m many calcite blebs. Calcite veins: 35.37 (165°), 39.54m (135°). Carbonaceous fracture 1.2cm wide at 36.52m (160°), contains pyrite blebs & disseminations, also calcareous material.						
Box 6 (41.92-49.09m)	LOW-MODERATELY ALTERED PORPHYRY ANDESITE AGGLOMERATE CONTINUES. 45.88 - 46.65m agglomerate texture totally absent, alteration low, porphyritic texture very evident. Fracture density low, 3-5/metre. Pyrite & minor ankeritic-hematitic material on fractures, i.e. 42.38m, 43.29m						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE _____

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DIP TEST		
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Footage	Reading	Corrected

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Date Begun _____

Date Finished _____

Lat. _____

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Total Depth _____

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Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	45.43m. Veinlet of pyrite at 43.60m (30°). Notable						
5.76 - 68.60 m	pyrite concentrations 42.16m, 42.53, (in calcite vein, 35°, carbonaceous). Carbonaceous concentrations mostly						
	confined to fractures, i.e. 45.58m, 47.01m & 48.17m.						
	Calcite veins: 42.22m (70°), 42.50m (70°), 45.21, (130°),						
	45.33m (45°, 0.6cm, ankeritic-hematitic), 47.5m (60° & 165°),						
	48.17m (15°, 1.2cm, carbonaceous fragments),						
	51.37m (0.6cm, 180°).						
Box 7							
(49.09-55.79m)	MODERATE-HIGHLY ALTERED PORPHYRY ANDESITE AGGLOMERATE.						
	Fracture density moderate, 6-8/meter. Carbonaceous & some chloritic material on fractures. Pyrite mostly in						
	fractures, also rare blebs & small disseminations up to						
	1% between 53.35 - 55.18m. Ankerite-hematite on fractures at 54.51m & 55.03m (also within calcite vein at						
	52.74m). Blocky core at 52.43m & 55.03m. Calcite veins:						
	50.91m (115°), 52.74m (80°, ankerite & hematite),						
	53.41m (90°), 54.51m (145°, ankerite-hematite), 55.34m (155°).						
	52.74 - 55.34m many calcite veinlets & carbonaceous fractures between 53.35 - 53.66m.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE _____

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DIP TEST		
Footage	Angle	
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Hole No. C-3 Sheet No. 5/11
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 Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd) Box 8 (55.79-63.11m)	MODERATELY ALTERED, LOW-MODERATE FRACTURED PORPHYRY ANDESITE AGGLOMERATE. 57.32 - 60.06m light grey colour possibly due to higher clay alteration than previous (possibly feldspar porphyry?). Notable carbonaceous material often within fractures, 58.05 - 58.32m, 58.84 - 59.15m						
5.76 - 68.60 m	59.45m (pyrite & carbonate), 59.76 (pyrite) - 58.84m ankerite-hematite. Pale green blebs possibly chlorite(?). Feldspar phenocrysts very evident in this interval. Darker grey andesite, as previous footage, possibly due to sericite and/or chlorite alteration. Pyrite possibly up to 2% disseminations. Carbonaceous & chloritic material on fractures. Slickensides present, i.e. 62.50m (35°). Calcite veins: 58.08m (60°), 59.15m (145°), 59.45m (60°, 1.8cm, pyrite & carbonaceous), 60.12m (70°), 60.76m (155°) plus many veinlets & blebs.						
Box 9 (63.11-70.43m)	LOW-MODERATELY ALTERED PORPHYRY ANDESITE AGGLOMERATE. Alteration seems to have decreased. No ankeritic-hematitic material on fractures. Pyrite blebs & disseminations more evident, ≥ 5% on some fractures. Pyrite veinlet at 63.57 (25°), Calcite veins: 64.36m (130°), 64.63m (145°), 65.49m (135°, carbonaceous & siliceous material), 66.13m						

DIAMOND DRILL RECORD

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HOLE No. DDH-81C-3

DIP TEST		
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Footage	Reading	Corrected

Hole No. C-3 Sheet No. 6/11 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	(105°), 66.98m (50°, 1.2cm), 67.53 - 67.99m (5 or 6 veins at 120°), 67.99 - 68.60m numerous calcite veinlets. Alteration possibly increasing near contact. Contact at 68.60m ~ 70°.						
68.60 - 75.67 m	Feldspar porphyry. Light grey moderately clay altered. White, clay altered anhedral feldspar phenocrysts ≥ 5%, up to 0.3cm wide. Low fracture density. Pyrite blebs up to 0.6cm wide, also in fractures or veinlets, ille. 69.21m & cubic disseminations up to 1 - 2%. Calcite veins absent. 70.12m pyrite blebs 2%. Minor or no carbonaceous material.						
Box 10 (70.43-77.59m)	Highly altered feldspar porphyry. Very altered feldspar phenocrysts ≥ 5%. Low-moderate fractures, chloritic-carbonaceous ± pyrite on surfaces. Pyrite blebs 2% to 71.04m, then decrease. Small euhedral pyrite disseminated to 2% 75.00m pyrite vein filling fracture (60°). 72.87m small bluish-green bleb possibly malachite (?). Siliceous content of feldspar porphyry may be high. Calcite veins: 73.57m (80°), 73.84m (80°), 74.09m (160°, 1.2cm, carbonaceous, chlorite, pyrite blebs). Contact at 75.67m (80°).						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE _____

HOLE No. DDH-81C-3

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Hole No. C-3 Sheet No. 7/11 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	Highly altered porphyry andesite agglomerate. High carbonaceous						
75.67 - 138.26 m	content in matrix. Pyrite in small euhedral disseminations						
	in andesite & carbonaceous material. Low-moderate fracture						
	density - many minor fractures. Greenish, malachite						
	appearing bleb at 76.49m. Altered quartz veinlets &						
	blebs (zeolite?) at 76.37m. Calcite veins: 76.98m (45°),						
	77.26m (135°).						
Box 11	MODERATE-HIGHLY ALTERED PORPHYRY ANDESITE AGGLOMERATE.						
(77.59-84.76m)	Carbonaceous matrix high until 79.12m, then high in						
	intervals i.e. 82.97m, 83.69m. Low-moderate fracturing.						
	Pyrite difficult to see but may be present in very small						
	disseminations possibly up to 2%. Calcite veins & vein-						
	lets mostly irregular & broken: 81.10m (180°), 82.99m						
	(150°), 83.23m (140°).						
Box 12	HIGH ALTERATION CONTINUES TO 85.82m THEN MODERATE.						
(84.76-91.77m)	Faint greenish hue to alteration due to sericite &						
	chlorite(?). 85.67m, 2.5cm wide feldspar porphyry "dyke"						
	(fragment?). Contains pyrite blebs near upper contact						
	"Contacts" 130°. Carbonaceous material confined mostly to						
	fractures; high concentrations: 85.82m, 86.59m, 87.80m,						
	90.15m. Pyrite on few fractures & trace disseminations.						

DIAMOND DRILL RECORD

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HOLE No. DDH-81C-3

DIP TEST		
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Footage	Reading	Corrected

Hole No. C-3 Sheet No. 8/11 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
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DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	Calcite veins: 86.62m (160°), 88.41m (35°), 89.33m (150°						
75.67 - 138.26 m	pyrite), 89.63m (75°), 90.55m (30°).						
Box 13	MODERATE ALTERATION. LOW-MODERATE FRACTURING, BLOCKINESS						
(91.77-98.93m)	AROUND 92.99m. Carbonaceous material confined to fractures.						
	Trace pyrite, seen in small bleb at 97.56m. "Zone" of						
	fresh-low altered porphyry andesite agglomerate 95.43m -						
	96.95m. Alteration decreasing (?); black "flecks" of						
	biotite (?) lowly altered to clay and/or chlorite. Calcite						
	veins: 93.45m (40°), 95.18m (145°), 95.73m (80°),						
	96.58m (100°), 97.41m (115°, carbonaceous).						
Box 14	FRESH-LOW ALTERATION. AGGLOMERATE TEXTURE UNSURE (??).						
(98.93-106.25m)	Pyrite disseminated trace - 1%. Low fracture density.						
	Carbonaceous. Chloritic & sericite on fracture surfaces;						
	i.e. chlorite at 103.66m. Carbonate content ≤5%.						
	Calcite veins: 99.45m (115°, 0.6cm, carbonaceous), 100.91m						
	(60°), 102.44m (15°, 0.6cm, carbonaceous), 102.65m (125°),						
	103.96m (45°), 104.57m (125°, carbonaceous), 105.95m						
	(150°, 0.6cm).						
Box 15	FRESH-LOW ALTERATION. AGGLOMERATE TEXTURE UNSURE (??).						
(106.25-113.41m)	Moderate alteration in "zones" i.e. 111.43m over 4.8cm.						
	Fracture density low. Pyrite trace -1% on fracture surfaces,						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE _____

HOLE No. DDH-81C-3

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-3 Sheet No. 9/11 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	rarely disseminated in andesite. 106.10m - 108.14m inter-						
75.67 - 138.26 m	calated feldspar porphyry (possibly highly altered porphyry andesite?) Carbonaceous material present in fractures i.e. 106.71m, 107.87. Alteration higher where concentration of carbonaceous material. Pyrite trace. High carbonate content ≥ 5%. Calcite veins: 106.22m (60°), 106.71m (60°, carbonaceous), 107.47m (45°, 1.8cm), 109.60m (25°, chloritic selvage), 110.06m (160°, 0.6 cm, minor pyrite blebs, carbonaceous), 111.74m - 112.35m (180°, minor chlorite carbonaceous). Quartz vein: 109.27m (65°, 1.2 - 2.5cm, carbonaceous).						
Box 16	FRESH-LOW ALTERED PORPHYRY ANDESITE. AGGLOMERATE TEXTURE (??).						
(113.41 - 120.43m)	Very similar to previous core. Low-moderate fractures. Carbonaceous material confined to fractures & veins. Biotite(?) phenocrysts up to 0.3cm long. Feldspar phenocrysts not obvious because of freshness. Andesite medium-dark grey. Pyrite finely disseminated up to 1%. Pyrite vein with carbonaceous & calcareous material at 119.60m (70°). Calcite veins: 113.57m (30°), 115.55m (35°), 115.85m (30°), 116.62m (45°, carbonaceous), 117.53m (20°, 0.6cm, carbonaceous, pyrite veinlets), 117.68m (115°),						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE _____

HOLE No. DDH-81C-3

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-3 Sheet No. 10/11 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	117.99m(15°, carbonaceous), 119.66m (145° & 35°),						
75.67 - 138.26 m	120.49m (120°).						
Box 17	FRESH PORPHYRY ANDESITE. AGGLOMERATE TEXTURE UNSURE.						
(120.43 - 127.74m)	Low fracture density. Trace pyrite disseminated. 126.07m						
	grainsize appears to increase, feldspar phenocrysts re-						
	appearing due to increased clay alteration. Chlorite						
	as well as carbonaceous material on fractures. Calcite						
	veins: 121.04m (115°), 124.85m (180°), 125.30m (60°)						
	126.22m (35°, 2.5cm, carbonaceous, chloritic).						
Box 18	PORPHYRY ANDESITE. AGGLOMERATIC TEXTURE DISTINGUISHABLE						
(127.74 - 135.21m)	by 133.23m. Alteration low; moderate-high around fractures						
	& veins. Carbonaceous material increases where agglome-						
	rial texture becomes apparent, i.e. 134.24m. 128.66m pyrite						
	bleb possibly associated with carbonaceous material.						
	Pyrite disseminated trace -2%. Calcite veins: 130.18m						
	(45°), 128.66m - 131.40 (180°, chlorite, carbonaceous,						
	disseminated pyrite), 133.23m (10°).						
Box 19	LOW-MODERATELY ALTERED PORPHYRY ANDESITE AGGLOMERATE.						
(135.21 - 138.26)	Low-moderate fractures. Carbonaceous material on						
	fractures. Pyrite associated with fractures i.e. 135.67m						
	Calcite veins: 135.67m (155°, 90°, 60°, pyrite, carbona-						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-81C-4

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-4 Sheet No. 1/3
 Section
 Date Begun Oct. 10/81
 Date Finished Oct. 21/81

Lat.
 Dep. -51°
 Bearing 180°
 Elev. Collar 326.22m

Total Depth 58 m
 Logged By M. Thicke
 Claim COURTE
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 21.95 m	CASING. FIRST CORE A1 7.62m - HAD TO CASE TO 21.95m OF BLOCKY GROUND.						
7.62 - 58.23 m	PORPHYRY ANDESITE AGGLOMERATE.						
Box 1 (7.62-15.15m)	Mottled grey-green. Green hue due to moderate chloritic (sericitic?) alteration. Soft, white, clay altered feldspar phenocrysts up to 0.3cm long, 5%. Andesite fragments difficult to distinguish due to colour similarities and blockiness of core. Fragments angular often > 2.5cm long. Fragment at 10.06m purple-crimson. Fracture density high, core blocky, recovery fair. Chlorite &/or carbonaceous material on fractures, ankerite-hematite from 7.93-8.69m. Trace Pyrite(?). Carbonate mostly in fractures - not abundant, \leq 3%. White irregular veins & veinlets are soft, usually no reaction to HCl, possibly zeolites, ~ 3 to 6/meter.						
Box 2 (15.15-22.71m)	Moderate alteration continues. 16.16m finely disseminated sulphide, irregular occurrences. Possibly pyrrhotite, pyrite present. Low-moderately magnetic. Very blocky. Ankerite-hematite material increasing on fracture surfaces - often seen as reddish-orange blotches. Some fracture material may be manganiferous, shows bluish tint.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-4

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-4 Sheet No. 2/3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
7.62 - 58.23 m	Irregular calcite Veins at 15.37m & 21.34m. Zeolitic material decreasing.						
Box 3 (22.71-27.59)	MODERATE ALTERATION CONTINUES. Fracturing high, very blocky. Hematitic-ankeritic material on all fractures & on few veins, i.e. 25m. Carbonaceous material in andesite, 23.78m & on many fractures 26.52m Low-moderate magnetism. Note: hole changed direction at 23.78m due to cementing, ∴ have 2-3.05m runs from 23.78m.						
Box 4 (27.59-34.15m)	CHLORITIC PORPHYRY ANDESITE AGGLOMERATE CONTINUES. 28.20 - 32.62m core fairly competent but turns blocky. 32.01m chloritic content increases. Pyrite disseminated trace 3% from 30.49m. Magnetism negligible. Irregular, soft, white, very altered quartz vein & veinlets abundant 28.66m (30° & 60°), 29.73m (135°). Hematitic-ankeritic material absent after 28.20m.						
Box 5 (34.15-44.51m)	SAME AS ABOVE UNTIL 35.67m. Chloritization becomes very intense, porphyry texture cost, recovery very poor. Entered fault zone at 35.06m. Trace cubes of pyrite. 42.07m altered vein material begins, very irregular & broken. Magnetism becomes moderate-high where veining						

PROPERTY _____ COURT - M481

HOLE No. DDH-814-4

[illegible]

Hole No. L-4 Sheet No. 3/3

Lot.....

Total Depth_____

Section.....

Dep. _____

Logged By_____

Date Begun.....

Bearing _____

Claim _____

Date Finished.....

Elev. Collar.....

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
7.62 - 58.23 m	begins.						
(cont'd) Box 6	INTENSE ALTERATION IN FAULT ZONE CONTINUES.						
(44.51-51.83m)	Many irregular veins, veinlets & blebs between						
	46.49 - 49.85m. Trace disseminated pyrite at 47.87m.						
	Purplish hue, possibly due to iron content of andesite,						
	beginning at 46.49m. From 46.49m pale green blebs &						
	fracture fillings possibly epidote (?).						
Box 7	INTENSE ALTERATION CONTINUES.						
(51.83 - 58.23m)	Moderate to high magnetism. White, highly altered veins						
	& veinlets (few calcareous) plentiful. Feldspar pheno-						
	crysts visible though highly clay altered. Purplish tint						
	present. Recovery poor.						
	1. Angles measured from core axis.						
	2. General carbonate content low.						
	3. Alteration may be sericitic with lesser amounts of						
	chlorite & clay.						
	DDH-81C-9 is done from same location as C-4 with						
	(super 38).						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-5

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-5 Sheet No. 1/8
 Section _____
 Date Begun Oct 25/81
 Date Finished Oct 27/81

Lat. _____
 Dep. -49°
 Bearing 221°
 Elev. Collar 346.04m

Total Depth 129.88m
 Logged By M. Thicke
 Claim Courte
 Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 2.13m	CASING						
2.13 - 2.90 m	ANDESITIC BOULDERS						
2.90 - 28.35 m	Porphyry andesite agglomerate. Fragments not abundant.						
Box 1	Dark greenish colour. Euhedral - anhedral, fresh						
(2.13 - 9.76 m)	feldspar phenocrysts ≥ 5%, up to 0.3cm long. Groundmass appears chloritic though fresh. Epidote up to 5% from 5.27 - 5.88 m, decreases to 2%. Epidote altering from biotite or possibly other mafics. 7.47m dark purplish tint begins. Fracture density low - minor hematite on fracture surfaces. No carbonate, little or no vein material. Moderately magnetic. Trace pyrite.						
Box 2	14.94m CHLORITE CONTENT INCREASES, BEGIN TO LOOSE						
(9.76 - 15.85m)	porphyry texture. Moderate fracture density by 14.63m. Minor calcareous material on fractures, as well as abundant calcareous veinlets at irregular orientations. Calcite vein 1.2cm wide with andesite fragments at 13.41m (35°). Trace disseminated pyrite. Moderately magnetic.						
Box 3	FELDSPAR PHENOCRYSTS INCREASING ALTERATION.						
(15.85 - 23.02m)	Fracture density low. Hematitic (ankerite?) & carbonate material on fracture surfaces. Low-moderate magnetism,						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. DDH-81C-5 _____

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-5 Sheet No. 2/8
 Section _____
 Date Begun _____
 Date Finished _____

Lat. _____
 Dep. _____
 Bearing _____
 Elev. Collar _____

Total Depth _____
 Logged By _____
 Claim _____
 Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	decreases by 21.95m. Andesite's colour dark green with a purplish tint. "Hard", dense "feel" - possibly due to high silica content - though andesite not silicified. Calcite veins: 18.20m (25°), 20.27m (165°), 21.19m (25°), 21.95m (155°), and many veinlets from 21.04m.						
Box 4 (23.02 - 30.03m)	Non magnetic. Low fracture density. Few calcareous veins & veinlets. Minor hematitic-ankeritic material on fractures. Abundant reddish-purple siderite as veins, veinlets & fracture fillings; irregular & variety of orientations. 28.35m andesite agglomerate becomes much lighter; agglomerate fragments more abundant - possibly very altered as no porphyry texture. Fragments 1.8cm long. Finely disseminated pyrite, trace -3% (note: 29.27 - 29.57m). Fracturing low-moderate sericite-carbonate alteration on fractures. Siderite 28.66m - 28.87m. Andesite agglomerate still "hard" - possibly altered by silica then again by calcareous solutions(?).						
Box 5 (30.03 - 37.5m)	SIDERITE ABSENT. Low-high alteration. 34.66 - 36.59m few agglomerate fragments. Pyrite in disseminations and blebs up to 3%. Feldspar phenocrysts evident. Where agglomerate texture, 30.03 - 34.66m & 36.59 - 37.50m						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-81C-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-5 Sheet No. 3/8

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	possible silicification then alteration to chlorite-sericite & clay - little or no calcareous material.						
	Pyrite fragments associated with quartz veins at 30.79 - 31.10m, 32.01m (65°), 32.38m (pyrite fragments in a siliceous fragment), 33.23m (130°, pyrite as a selvage), 33.54m (45°). Pyrite disseminated to 3%						
Box 6	VOLCANIC FRAGMENTS NOT ABUNDANT.						
(37.50 - 44.82m)	Alteration high. Extreme alteration at 37.5m, 41.16m, 44.05m where porphyry textures absent. Fracture density low. Siderite with quartz blebs at 42.07m. Bluish-grey veins & veinlets occur irregularly - likely clay altered & very soft. Latter staged white quartz blebs at 39.18m, 42.20m, 43.60m, 43.90m. Pyrite small disseminations trace -2%.						
Box 7	ALTERATION FROM LOW-EXTREME. PYRITE DISSEMINATED.						
(44.82-51.52m)	Trace -3%. 48.17 - 50.00m pyrite up to 5% as disseminations, veins & veinlets, blebs & fragments within vein material. Moderate fracture density 6/m. High-extremely altered from 45.52 - 46.77m, 47.5m. Calcareous vein material: 45.30m (60°), 47.26m (20°), 48.17m (115°, with pyrite), 48.93m (140°), 49.54m (irregular with						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. DDH-81C-5 _____

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-5 _____ Sheet No. 4/8 _____

Section _____

Date Begun _____

Date Finished _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	pyrite blébs & fragments), 50.00m (60°), 50.30m (135°).						
	Low-moderate magnetism at box end.						
Box 8	ALTERATION HIGH, CHLORITE-SERICITE & CLAY.						
(51.52 - 57.93m)	Porphyry texture dissappearing. Fracturing moderate-high, some ankerite or hematite material, usually						
	extremely altered material on fracture surfaces. 53.96 -						
	55.64m core very blocky. Moderately magnetized. Pyrite						
	up to 3% in some fractures to 52.44m & associated with						
	vein material. After 52.44m visible pyrite decreases.						
	Carbonate content increasing to ≤3%. Irregular calcite						
	veins & veinlets throughout.						
Box 9	MODERATE-HIGHLY ALTERED PORPHYRY ANDESITE AGGLOMERATE.						
(57.93 - 64.31m)	Moderate magnetism. Pyrite very finely disseminated						
	throughout ≤3%. 61.89m possibly carbonaceous material						
	though likely very dark chloritic material. Moderate-						
	high fracturing. Reddish-purple material still present.						
	on fractures & in agglomerate. Minor calcareous vein						
	material.						
Box 10	PORPHYRY TEXTURE VISIBLE THOUGH ALTERATION HIGH.						
(64.33 - 70.43m)	Biotite phenocrysts 3% up to 0.3cm, anhedral & chlorite						
	altered. <u>Note:</u> Ground 0.30m core at 64.63m. Blocky core						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. DDH-81C-5 _____

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-5 Sheet No. 5/8

Section _____

Date Begun _____

Date Finished _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	at 64.94m, 67.13m, 69.21m, 69.66 - 70.73m. Pyrite possibly confined to fractures $\leq 5\%$. Carbonate content up to 5%. Moderate to highly magnetic. Moderately abundant, irregularly oriented. Calcite veins & veinlets.						
Box 11 (70.43 - 76.98m)	Dark greenish, highly altered. Moderate magnetism, decreases by 73.17m, absent by 73.93m, where agglomerate becomes reddish-purple coloured. Trace pyrite. Blockiness to 74.09m. Calcareous veins: 73.78m (145°), 75.61m (120°), 75.82m (150°), 76.68m (130°). Calcareous material in andesite $\sim 5\%$.						
Box 12 (76.98 - 84.30m)	REDDISH-PURPLE AGGLOMERATE CONTINUES TO 83.05m. Non-magnetic. No pyrite visible. Siderite veinlets abundant at 80.79m & 81.71m. Moderate alteration. Feldspar phenocrysts highly clay altered. Calcareous content $< 3\%$. Low amount of calcareous vein material. 83.05m andesite light-dark green colour. 83.38m alteration extreme, mostly high. From 83.05m calcareous veinlets abundant though carbonate content of andesite unchanged.						
Box 13 (84.30 - 91.62m)	PYRITE FINELY DISSEMINATED TRACE -2%. Fracture density 3-10/m. Moderately magnetic, weak by						

DIAMOND DRILL RECORD

PROPERTY _____ COURT - M481 _____

HOLE No. DDH-81C-5 _____

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-5 Sheet No. 6/8

Section _____

Date Begun _____

Date Finished _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	90.85m, absent by 91.46m. Possibly epidote in fracture at						
	86.89m. Minor hematitic material on fractures. Carbonate						
	mostly confined to fractures, low amounts in andesite.						
	Many irregular carbonate blebs & veinlets. 90.24m						
	alteration low-moderate, magnetism decreasing, becoming						
	increasingly reddish-purple.						
Box 14	MODERATE ALTERATION, THOUGH HARD, DENSE "FEEL" CHARAC -						
(91.62 - 98.78m)	TERISTIC OF REDDISH-PURPLE MATERIAL. Chlorite content						
	high, note blebs from 96.89 - 97.56m. Low fracture						
	density. Carbonate content low, <2%. Calcareous veins:						
	94.54m (155°), 95.12m (parallel), 97.87m (40°).						
Box 15	WEAK MAGNETISM FROM 99.70m. MODERATELY ALTERED.						
(98.78 - 105.77m)	Chlorite content high. Extremely altered from 102.56 -						
	103.11m - greenish colour (sericitic?). Low fracture						
	density, slickensides not pronounced. Calcareous veins:						
	100.95m (30°), 101.98m (25°), 102.59m (25°; with siderite),						
	105.64m (103°, 45°). Pyrite mineralization not evident.						
Box 16	GRADES INTO GREENISH ANDESITE AGGLOMERATE BY 109.30m.						
(105.79-112.96m)	Siderite veins & veinlets present, note: 112.20m (20°,						
	30°). Moderate alteration to 136.80m then becomes highly						
	altered. Feldspar phenocrysts highly clay altered.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. DDH-81C-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-5 Sheet No. 7/8

Section _____

Date Begun _____

Date Finished _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	111.13m intensely altered. Trace pyrite. Weak magnetism to 110.98m. Then gradually increases to moderate.						
	Calcareous veins: 107.16m (10°), 111.19m (140°), 112.44m (40°, 40°).						
Box 17 (112.96-120.12m)	CORE DISTURBED DURING MOVE. HIGH TO EXTREME ALTERATION, varies from greenish to reddish-purple. 118.75 - 119.51m good agglomerate texture, fragments angular to sub rounded up to 1.2 cm long. Where greenish low-moderately magnetic. Pyrite blebs on carbonaceous material at 115.85m. Silicified appearance from 118.75m, note 119.51 - 119.94m, though high clay-sericite alteration. Trace pyrite.						
Box 18 (120.12 - 127.44m)	HIGH ALTERATION, PYRITE OBSERVED ALONG FRACTURES & AS small disseminations. Quartz veins between 120.43 - 120.73m (25°). 121.04m colour abruptly changes to a green-red. Moderate-highly altered. Moderately magnetic, non-magnetic at 124.39m. Fragment size ≤1.2cm but can be up to 5cm, angular to subround. Dark fragments are magnetic. Trace pyrite to 2%. Fragments highly altered may or may not contain pyrite. Low fracture density, little or no vein material.						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-87C-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. L-5 Sheet No. 8/8

Lat. _____

Total Depth.....

Section.....

Dep.....

Logged By.....

Date Begun.....

Bearing

Claim _____

Date Finished.....

Elev. Collar.....

Core Size _____

[illegible]

DIAMOND DRILL RECORD

PROPERTY _____ COURTE M-481

HOLE No. DDH-81C-6

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-6 Sheet No. 1/4
 Section _____
 Date Begun _____
 Date Finished _____

Lat. _____
 Dep. _____
 Bearing _____
 Elev. Collar _____

Total Depth 132.89m
 Logged By C. Harwel
 Claim _____
 Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 2.13 m	CASING						
	YAKOUN FORMATION						
2.13 - 18.29 m	Grey green andesite porphyry; feldspar phenocrysts which						
Box 1	are moderate-we'll altered to clay. Up to 3% carbonate						
(3.05-10.22m)	clay material about fractures also hematite, low fracture						
	density. Pyrite finely disseminated ~9.4m. Trace 3%						
	5.2 - 8.5m minor siderite(?). low-moderate magnetic.						
	Calcite veinlets 1/m carbonate veins 40-60° to core						
	axis, generally green-grey, weakly saussuritized.						
Box 2	At 18.29m (60°) begin transition zone to andesite.						
18.29 - 20.42 m	Agglomeration with pervasive hematite, locally intense						
(10.22-17.37)	over (12cm). At 19.51m (64°) minor fault: hematite-						
	calcite-epidote, 240°.						
20.42 - 25.60 m	Green andesite agglomerate of feldspar porphyry						
Box 3	massive, weakly magnetic. Carbonate veins 1/m						
(17.37-24.69m)	commonly irregular. Strong angularity in fragments						
25.60 - 29.87 m	Green to marron-green flow - possibly auto-breccia,						
Box 4	vari-textured, commonly mottled, some angular fragments						
24.69-31.7m)	At 29.57m minor gauge. At 29.87m weak limonite fracture						
	Variable calcite veining, commonly irregular by 29.87m						
	frequency < 1/m in massive agglomeration.						

DIAMOND DRILL RECORD

PROPERTY _____ COURT E M-481

HOLE No. DDH-81C-6

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-6 Sheet No. 2/4

Section _____

Date Begun _____

Date Finished _____

Lot _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
29.87 - 40.54 m Box 5 (31.7-38.86m)	Green to light green saussuritized generally massive auto-breccia or disturbed flow of porphyry andesite similar to rock at collar, weakly fragmental texture - fragments enveloped by streambed (propylitic) material which is greenish & purplish. Weakly magnetic. At 36.58m carbonate + minute quartz vein at 25°. At 38.1 - 40.54m very massive feldspar porphyry, thin calcite veins <1/m.						
40.54 - 110.34 m Box 6 (38.86-46.48m)	Green and purplish andesite agglomerate weakly magnetic, including maroon sections, generally andesite feldspar porphyry. At 40.54 - 41.15m increase calcite veins + epidote.						
Box 7 (46.48-53.49m)	Calcite veins: 2-3/m also as blebs, irregular wisps and disseminated up to 3% total carbonate. At 46.63-48.16m strongly maroon, massive. At 51.35m, 12cm zone at 40° ± calcite, hematite + epidote. At 51.51m begin agglomeration. At 54.25m, 5cm zone of saussuritized (calcite, hematite, epidote). At 25° - 30° to core axis.						
Box 8 (53.49-60.48m)	At 54.56m quartz + calcite + epidote + limonite + pyrite, 30° to core axis.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE M-481 _____

HOLE No. DDH-81C-6 _____

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-6 Sheet No. 3/4
 Section _____
 Date Begun _____
 Date Finished _____

Lat _____
 Dep _____
 Bearing _____
 Elev. Collar _____

Total Depth _____
 Logged By _____
 Claim _____
 Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd) Box 9 (60.48-67.99m)	Green feldspar porphyry andesite, massive, diminished amount calcite veining, calcite <1/m - 2/m, weak, thin veinlets.						
Box 10 (67.97-74.98m)	As above, generally massive weak calcite veins 1-3/m At 73.76 - 74.07m broken zone. Increased calcite + increased pervasive saussuritization. Feldspar pheno-crysts more altered.						
Box 11 (74.98-82.15m)	At 79.25 - 80.16m, calcite matrix-breccia zone (4-15cm) over this interval. Calcite veins 3-4/m.						
Box 12 (82.15-89.76m)	Generally green, pervasively altered andesite porphyry agglomeration, flow somewhat mottled texture. Weakly magnetic.						
Box 13 (89.76-96.62m)	same as above.						
Box 14 (96.62-103.94m)	same as above.						
110.34 - 132.89m	Grey-green feldspar porphyry andesite flows, weak calcite veining - weak saussuritization.						
Box 15 (103.94-110.79m)	At 110.34m, alteration less intense and feldspar pheno-crysts more distinct.						
Box 16	At 115.82-116.13m, bright green fracture: epidote.						

DIAMOND DRILL RECORD

PROPERTY. COURTE - M481

HOLE No. DDH-81C-6

[illegible]

Hole No. C-6 Sheet No. 4/4

Lot.-----

Total Depth_____

Section.....

Dep. _____

Logged By.....

Date Begun.....

Bearing

Claim _____

Date Finished.....

Elev. Collar.....

Core Size _____

[illegible]

DIAMOND DOLL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-9

[illegible]

Hole No. C-9 Sheet No. 1/14

Lat......

Total Depth. 305.18m

Section.....

Dep. _____

Logged By W.A. Howell

Date Begun.....

Bearing 180° / -60°

Claim _____

Date Finished.....

Elev. Collar.

Core Size NO

SUPER '38' - NO CORE SET UP IS SAME AS 81-C-4

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 6.70 m	CASING OVERBURDEN						
6.70 - 39.00 m	GREY FELDSPAR PORPHYRY ANDESITE						
	6.70 - 10.30m strongly broken to rubble, dark dirty green colour, strongly chloritic weak epidote common disseminated magnetic, very minor pyrite. Occasional calcite present along broken faces. Clay altered phenocrysts to 3mm. 10.37 - 29.27m similar moderately broken. Dark red earthy hematite appears on fractures. Feldspar phenocrysts are milky white. Occasional salmon pink mineral is present in minor quantities. on occasional fractures with a soft white sheared ?zeolite?. Fresh broken surfaces are green/grey, fractures are 'open' and exhibit some ' weathering ' effects - they are commonly a dark dirty green with brown stain (Mn stain?). (At about 20.12m, the andesite has a clastic nature, which is attributed to shearing or auto-brecciation. The presence of occasional fine black ?inclusions? (?clasts?) are in apparent contradiction with this unit being classified as 'igneous'. However, the euhedral nature of the feldspars would seem to						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. UDH-81C-9

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-9 Sheet No. 2/14
 Section _____
 Date Begun _____
 Date Finished _____

Lat. _____
 Dep. _____
 Bearing _____
 Elev. Collar _____

Total Depth _____
 Logged By _____
 Claim _____
 Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	rule against any sedimentary origins). Local rubble at 24.6m & 25.9m. The matrix of the breccia which is variably present becomes apparent when the matrix develops a slight brown colouration while the clasts are green. The brown is attributed to very fine grained ?biotite? rather than chlorite/sericite as in the clasts. The brown matrix also contains up to 2% pyrite as fracture fillings and disseminations. Very locally sulphide (pyrite) can reach 5-10%. 29.3-31.7m core is well broken, shears 15° to core axis are common. Carbonate stringers are also common. Total sulphide is 1-2% (pyrite). 31.7 - 39.0m clay gauge (core can be split with a knife). Occasional very fine grained pyrite is present.						
39.0 - 91.15 m	ANDESITE BRECCIA.						
	39.0 - 41.46m sheared & brecciated andesite, strong chloritic alteration, parting planes are commonly 30° to core axis. Similar to section 29.3 - 31.7m						
	41.46 - 53.35m andesitic breccia, similar to previous section but with less clay content. Rock is more competent but remains strongly chloritic and broken. Sparry						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. DDH-81C-9 _____

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-9 Sheet No. 3/14

Section _____

Date Begun _____

Date Finished _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	calcite stringers and occasional epidote along fractures.						
	shear planes are commonly 0° to 45° to core axis.						
	Sulphide content is less than 1%. Very weak hematite						
	smear is occasionally present on slickensides surfaces						
	at 44.19-45.72m by 53.35m. Hematite with calcite along						
	shears and stringers give the core a characteristic						
	brick red colouration. Epidote has also increased.						
53.35 -	The brecciation of the andesite becomes less distinctive						
	to 53.35m where the fragmentation appears less 'milled'						
	and more a 'crackle' type with common calcite matrix						
	i.e. less rotation of fragments. Sulphide content						
	appears non existent with the increase in hematite.						
	Chlorite remains strong. Shear planes and slickensides at						
	random attitudes remains common. Occasional calcite						
	stringers exhibit compositional banding with hematite						
	parallel to stringer walls.						
	64.9m - Well developed slickensides sub-parallel to						
	core axis, plunge 45° to core axis across face. Occasio-						
	nal trace grain of fine pyrite is evident. Hematite has						
	decreased at 65.55m along with intensity of calcite						
	veining.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. D DH-81C-9 _____

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-9 Sheet No. 4/14 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	Hematite & calcite stringers locally increased again.						
(70.43 - 73.17m)	Trace dissemination pyrite is present.						
	At 82.3 - 82.9m core becomes granular rubble.						
	82.9 - 91.15m - core is more sheared and broken. Increased rubble with more competent zones. Core remains strongly chloritic and hematitic with hematite decreasing sharply at 82.0 - 91.15m.						
91.15 - 93.3 m	FAULT - SERICITE GAUGE 1-2%						
	sulphide, foliation is 45° to core axis.						
93.45 - 113.72m	GREY DACITE						
	Sheared soft grey rock with granular texture - slickensides faces are common, rock scratches and crumbles easily due to strong very fine grained sericite alteration. Shear planes are at all angles to core axis with slickensides across the faces usually 30° - 50° to core axis. Sulphides are common as disseminated grains, along shears, fractures and occasional carbonate stringers mostly pyrite, some chalcopyrite on fractures.						
	Total sulphide is about 2-3%. More competent sections have a chloritic speckled texture reminiscent of an						
	intrusive granitoid rock. This unit may correlate with						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DuH-81C-9

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-9 Sheet No. 5/14
 Section.....
 Date Begun.....
 Date Finished.....

Lat.....
 Dep.....
 Bearing
 Elev. Collar.....

Total Depth.....
 Logged By.....
 Claim
 Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	the "Propylite" unit described by C. Harivel.						
	At 104.26m, a 1cm carbonate veinlet, 40° to core axis						
	has fine disseminated arsenopyrite along margins and						
	mixed with pyrite within the veinlets.						
	At 103.96m, a 2.4cm zone is strongly silicified & minor						
	quartz veins with a dark grey dyke, 60° to core axis						
	which is displaced 3cm about 30° to core axis. By						
	106.9m, carbonate along fractures is increasing and						
	core becomes more crumbly. (The rock begins to look						
	similar to the andesite described initially in this hole,						
	i.e. as sericite decreases and chlorite increases						
	apparent rock differences are less evident.)						
	Sulphide content is ~1% disseminated pyrite.						
110.97 - 113.72m	RUBBLE CORE. Shearing 30° to core axis. Slicks are						
	90° to core axis. Stronger chlorite.						
113.72 - 114.79m	FAULT - Grey clay sericite gauge. Foliation is ~35° to						
	core axis.						
114.79 - 140.24m	GREY DACITE - similar to preceeding section - strong						
	pervasive fine grained sericitization probable corre-						
	lation with Harivel's "propylite" unit. Sulphide content						
	is locally ~5%. Pyrite is the only identified sulphide.						

DIAMOND DRILL RECORD

PROPERTY..... COURTE - M481.....

HOLE No. DDH-81C-9.....

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-9..... Sheet No. 6/14

Section.....

Date Begun.....

Date Finished.....

Lat.....

Dep.....

Bearing

Elev. Collar.....

Total Depth.....

Logged By.....

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	Overall total sulphide is ~1%. Several thin mylonite shears are apparent 30°-40° to core axis.						
	At 122.5m, sulphide content increases locally to ~7-8% mostly as fracture filling and along shears but fine grained pyrite is evident disseminated throughout the core. Local zones of spotty high sulphide continues through 132.93m. Sericite alteration is pervasive. Minor fine carbonate stringers are present. Sulphide remains erratic from <1% to 5-8% locally and overall total sulphide content ~1-2%. Carbonate remains a common constituent along fractures and shear planes. It is also associated with sulphide rich shears & fractures.						
134.76 - 134.91m	FAULT. GAUGE CONTAINS COMMON PYRITE TO 10%. Shear is sub parallel to core axis but is irregular. The 'Dacite' becomes locally granular and brecciated near faults. Dark green colour also reflects more chlorite. Sulphide content is dropping off.						
X 138.72 - 141.77m	Breccia includes fragments of a medium grey coloured very fine grained soft massive rock (?siltstone?). Hardness ~2.5-3, not effervescent. No sulphides. Slickensides are glassy smooth on shear planes 30° to						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-9

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 6-9 Sheet No. 7/14
 Section _____
 Date Begun _____
 Date Finished _____

Lat. _____
 Dep. _____
 Bearing _____
 Elev. Collar _____

Total Depth _____
 Logged By _____
 Claim _____
 Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	50° to core axis. Cut side of core is very smooth and on first examination looks like a grey rhyolite except for hardness.						
141.77 - 153.05m	GREY SILTSTONE (AS DESCRIBED ABOVE). Occasional fragments of chlorite sericite grey dacite are present. Carbonate films are present along fractures, with occasional pale, apple green, very dense fine grained sericite. The siltstone is locally 'crackled' forming a reticulate network of carbonate stringers. Sulphides are very scarce except as a minor constituent along the stronger 'crackle' veins. Slickensided surfaces are common 30°-50° to core axis.						
	148.78 - strong sparry white calcite sub parallel to core axis. 'crackle' & carbonate increase to 151.52m.						
	At 151.52m, a 15cm length 30° to core axis has a sulphide content of 10%.						
151.52 - 153.05m	MUD STONE IS SHEARED AND VEINED WITH A CARBONATE/SULPHIDE veins, 1-15cm across. Veins are ~40° to core axis. Slickensides 15° - 80° to core axis are common. Local sulphide content is up to 15%. Overall total sulphide is probably ~3-5%.						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-81C-9

[illegible]

Hole No. C-9 Sheet No. 8/14

Section.....

Date Begun.....

Date Finished.....

Lot.....

Dep. _____

Bearing -----

Elev. Collar.....

Total Depth.....

Logged By.....

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
153.05m	FELSITE TUFF??						
(cont'd)	Pale creamy coloured, pervasively altered to predominantly sericite and quartz with minor carbonate. Very fine grained disseminated sulphide is observed with clots up to 2mm of extremely very fine grained pyrite grey sulphides. The clots appear as disseminated black spots sporadically in the core. Fractures and small shears commonly occur at 30° to 50° to core axis and are accompanied by sulphide films and/or carbonate stringers. Total sulphide is ~1-2%.						
160.06 - 163.11m	SHEAR ZONE - no well developed gauge but rock is crumbly and slickensided, attains a darker grey colour reflecting chlorite/epidote. Rock is also much softer. Below 163.11m, quartz stringers appear for the first time. Sulphide remains about the same. By 166.16m, the rock has an aplitic texture with fine anhedral quartz grains and ?sericite. Total sulphide ~3-4%. FAULT - 166.46m. Local shearing 5° to core axis. Smooth pale yellow green alteration ? scapolite? FAULT - Minor clay gauge 40° to core axis at 168.60m & 169.82m. Fractures commonly have sulphides.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-9

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-9 Sheet No. 9/14
 Section _____
 Date Begun _____
 Date Finished _____

Lat. _____
 Dep. _____
 Bearing _____
 Elev. Collar _____

Total Depth _____
 Logged By _____
 Claim _____
 Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	FAULT - Minor clay gauge & sulphide 20° to core axis at 173.78m. By 176.78m, core is becoming weakly porphyritic but the pervasive quartz/sericite alteration remains. Total sulphide is ~3% and very well developed on occasional quartz rich fractures or shear planes. Very fine carbonate with the alteration previously is not evident. The core is harder and considerably more competent.						
	FAULT - 180.79m, minor shearing 30° to core axis.						
	181.40m minor shearing & quartz carbonate veining 30° to core axis.						
	The section 177.90 - 182.01m has total sulphide of ~5% with 0.9m at 179.88 - 180.79m up to 10% total sulphide.						
	Sulphide (pyrite) occurs as blebs, disseminated grain and as films on fractures and shears. At 182.47m, a small clot of ?Mariposite?.						
	FAULT - minor fault at 183.53m & 183.69m, 45° to core axis. Quartz & sulphide with gauge. Total sulphide 182.93 - 188.72m is 2-3%. Fractures are commonly 30° to 40° to core axis. Minor faulting 20° to core axis, 189.94 - 190.55m. Slickensides across face 30° to core axis. At 192.07m, minor chalcopyrite is with						

DIAMOND DRILL RECORD

PROPERTY COURTE - M 481

HOLE No. DDH-81C-9

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-9 Sheet No. 10/14 Lat. Total Depth

Section Dep. Logged By

Date Begun Bearing Claim

Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	pyrite on fractures. Pyrite/chalcopyrite is ~10:1. Total sulphide is ~2%. Minor faulting 40° to core axis at 198.78 - 199.09m & and 200.00 - 200.30m. Sulphide content ± minor quartz increase on shears; clay gauge is variably present. Overall sulphide content is ~2% through 205.79m. Minor Faulting 206.71 - 207.32m 20° to core axis 208.54 - 209.15m 209.76 - 210.06m Sulphide content increases with shearing and is locally 3-5%. Otherwise is ~1-1.5%. Quartz is lacking but carbonate common on the gauge or shear zones. Minor Faulting at 211.59m & 214.63 - 215.85m 10° to core axis. Slickenside face at 215.55m is chlorite/serpentine without any sulphide component. It cuts core sub parallel to core axis. From 216.46 to 222.56m, core is softer and crumbly with fault gauge at 219.82m, 15° to core axis & 220.43 - 221.34m & 221.65 - 222.26m. Sulphide is locally increased along gauge zones.						
222.56 - 228.05m	222.56 - 222.71m - Fault Gauge ↔ 30° to core axis. ½cm, sulphide at 222.78m. 223.17 - 228.05m - gauge & rubble ↔ 30° to core axis. Competent clasts within						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-81C-9

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-9 Sheet No. 11/14 Lat. Total Depth.....
 Section..... Dep..... Logged By.....
 Date Begun..... Bearing Claim
 Date Finished..... Elev. Collar..... Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	the gauge are very fine grained, grey, non-effervescent soft siltstone. Within gauge zone, clots and blebs of pyrite occur. Total sulphide is ~1-2%.						
228.05 - 244.82m	SHEAR ZONE - rock is a variable melange of mylonitized fine grained, grey rock with fragments of preceeding Felsite Tuff. Alteration is saussuritization. Foliation is consistently 30° to core axis where present. Fragments/clots up to 10cm occur. Local section of relatively uniform rock may represent larger clasts with dimensions up to 50 or 60cm. Such "clasts" commonly had small gauge margins and as such may represent simply competent blocks within a much larger Fault Zone. The melange of small gauge zones and variably textured rocks continues to 244.82m. Sulphide content is spotty with short local section of a few cm having total sulphide of 5 or 6%. Pyrite is observed as very fine dissemination in gauge and variably in more competent sections. Occasional chalcopyrite & pyrrhotite are observed. Total sulphide is ~1% over the section.						
244.82 - 253.05m	GREY ARKOSIC SANDY TUFF. A relatively hard fine to medium grained ?tuff? occasional rounded quartz veins,						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE -M481 _____

HOLE No. DDH-81C-9 _____

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-9 _____ Sheet No. 12/14 _____
 Section _____
 Date Begun _____
 Date Finished _____

Lat. _____
 Dep. _____
 Bearing _____
 Elev. Collar _____

Total Depth _____
 Logged By _____
 Claim _____
 Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	weak carbonate throughout the rock is present. Carbonate is also present as fine fractures to small veinlets. Sulphide (pyrite) is disseminated throughout and is occasionally concentrated along fractures ~90° to core axis. Total sulphide ~5-7%.						
253.05 - 254.88m	FAULT - foliation is subparallel to core axis. Fragments of the grey Arkosic Sandy Tuff are mixed with fragments of grey green lithic sandy Tuff. in fault gauge. Occasional sulphides present. Total sulphides are ~1.5%.						
254.88 - 260.67m	Grey-green LITHIC LAPILLI TUFF. A very distinctive lamina to thinly bedded grey green tuff, composed of fine to coarse sandy, pale to dark green lithic fragments themselves composed of very fine grained ?tuff?. Bedding is sharp and may be partially crossbedded, attitudes are 68° to 75° to core axis. Some soft sediment displacement is also evident in the beds, near the top of the unit. the top of this unit would be a good potential Marker Horizon. With depth, fragment size increases. Numerous small gauge seams are common at 30° - 35° to core axis. An occasional fragment has milky white phenocrysts of						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. DDH-81C-9 _____

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-9 _____ Sheet No. 13/14 _____

Section _____

Date Begun _____

Date Finished _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	feldspar. Sulphide is ~2-3%. The lower contact is faulted at 45° to core axis.						
260.67 - 270.43m	DARK GREEN ANDESITE - occasionally weakly porphyritic. Also contains occasional amygdules up to 1cm across. White calcite stringers are commonly ~40° to core axis, but often variable to 90° to core axis. Sulphide content is low, ~.5%. Green colour is due mostly to chlorite content. Contact zone on both sides are pale grey/tan with increased sulphide content. Lower contact is a sheared contact at 30° to core axis. (The grey/tan, enhanced pyritic margin of this unit is very similar to the preceeding "Grey Arkosic Sandy Tuff" unit).						
270.43 - 277.13m	ANDESITIC -LITHIC AGGLOMERATE - fragments are from tuff to breccia sizes and are commonly composed of lithic tuffs and lapilli. Matrix is variable from white calcite to a fine dark grey sandy material. Almost no quartz is evident. Pyrrhotite is a common constituent as blebs and pods with the calcite and as rims on the clasts. Pyrite as scattered dissemination is also present. Total sulphide is 3-5%. 273.48 - 275.00 - lighter grey-green layered tuff. Bedding/foliation is 30° to core axis.						

DIAMOND DRILL RECORD

PROPERTY, COURTE - M481

HOLE No. DDh-81C -9

[illegible]

Hole No. C-9 Sheet No. 14/14

Section.....

Date Begun.....

Date Finished.....

Lat.....

Dep. _____

Bearing

Elev. Collar.....

Total Depth.....

Logged By.....

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	Minor gauge seams are occasionally present, 30° to 50° to core axis.						
277.13 - 278.35m	GREY FELSIC TUFF. 5-10% total sulphides - disseminated pyrite & ?fine grey sulphides ~1:1 pyrite/grey sulphides. Sericite pervasive alteration.						
278.35 - 278.96m	AGGLOMERATE Contact with overlying tuff is irregular and subparallel to core axis cutting across core for about 30cm. At 278.96m, a small shear 30° to core axis puts agglomerate in contact with Grey Felsic tuff again.						
278.96 - 280.18m	GREY FELSIC TUFF Total sulphide ~7%.						
280.18 - 305.18m	FINE GREY ALTERED ANDESITE Uniform fine grained dense competent quartz/sericite core. Very little sulphide <1%. Common calcite veins & stringers 20° - 50° to core axis. 294.82 - 295.43m - minor agglomerate. Very occasional fracture has sulphide in selvages and on the fracture.						
	END OF HOLE 305.18m						
	CASING PULLED.						

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481 _____

HOLE No. DDH-81C-10 _____

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-10 _____ Sheet No. 1/4 _____

Lat. _____

Total Depth 91.77 m _____

Section _____

Dep. _____

Logged By W.A. Howell _____

Date Begun _____

Bearing 173°/-63° _____

Claim _____

Date Finished Dec. 6/81 _____

Elev. Collar _____

Core Size NQ _____

SUPER '38' - NQ CORE - SAME LOCATION AS 81-C-7

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 5.49 m	OVERBURDEN CASING TO 5.49 m						
5.49 - 55.49 m	GREY, ALTERED HORNBLLENDE-FELDSPA K PORPHYRY ANDESITE.						
	Original textures are present as ghosts or relicts.						
	Hornblende is altered to chlorite, feldspars are milky						
	'ghosts' of sericite- clay matrix. Fine grained minerals						
	are fine chlorite, clay-sericite and epidote. The						
	epidote mostly but not exclusively along fractures where						
	it is associated with clay. Larger fractures are develo-						
	ped into calcite veins and stringers. The entire rock is						
	shattered and sheared, locally attaining a breccia texture.						
	Sulphide observed is pyrite only, as disseminated grains.						
	Total sulphide is less than or locally up to 1%.						
23.78 - 24.39 m	Rubble.						
25.00 - 25.91 m	Rubble.						
25.91 - 26.52 m	Highly sheared, light grey, almost mylonitized & calcite						
	cemented.						
28.35 - 29.27 m	Rubble & gauge.						
30.18 - 30.79 m	Rubble.						
31.40 - 34.15 m	Rubble. Shear is ~15° to core axis with local pyrite						
34.15 - 38.41 m	Strong clay gauge & rubble & sand. (good recovery						
	throughout this section).						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-81C-10

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-10 Sheet No. 2/4
 Section.....
 Date Begun.....
 Date Finished.....

Lat.....
 Dep.....
 Bearing.....
 Elev. Collar.....

Total Depth.....
 Logged By.....
 Claim.....
 Core Size.....

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
38.41 - 40.85 m	Rubble with strong clay alteration.						
(cont'd)							
41.77 - 41.92 m	Local clay & rubble.						
44.66 - 45.27 m	Shear & fault 20° to core axis, strong clay alteration and rubble.						
45.12 - 55.49 m	The feldspar ghosts become less evident with depth and in more broken areas. Chlorite is quite common and imparts a dark green colour to the core. Even more competent uniform section of core appear to be strongly broken to almost sand sized particle then carbonates cemented. Sulphide content has been <1% below about 15.24m and crudely correlates with increased chlorite content. Crude foliation in the rock is 20-30° to core axis. Strong shearing and clay/sericite occurs at 47.56m.						
55.49 - 85.37 m	GREY FELSIC TUFF						
	(similar to unit described in hole 81-C-9, 277.13-278.35m						
	278.96-280.18m). Pyrite: grey sulphides here are about 4:1						
	Total sulphides are about 3-5%. The unit is sericitic						
	altered and contains silica grains as either an alteration						
	product or original grains. Occasional carbonate veins						
	& stringers are present. At 15-40° to core axis.						

DIAMOND DRILL RECORD

PROPERTY . . . COURTE -M481

HOLE No. DDH-81C-10

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-10 Sheet No. 3/4
 Section.....
 Date Begun.....
 Date Finished.....

Lat.....
 Dep.....
 Bearing.....
 Elev. Collar.....

Total Depth.....
 Logged By.....
 Claim.....
 Core Size.....

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	Sulphides are observed as dissemination and as fracture coatings. Chlorite 'ghosts' are evident, particularly in the region 62.80-68.90m where the texture begins to look like a fine grained quartz diorite (see skeleton - 64.61m) (see also log for hole C-11).						
73.17 - 73.48 m	Rubble & clay gauge with pyrite 30° to core axis. 75.91m clay gauge 10° to core axis.						
	Between 75.91 and 83.53m the core becomes rubble with a multitude of fine clay gauge seams. Hard portions and rubble is commonly strongly silicic and fine grained sulphide is common along fractures 30° to core axis.						
	Chlorite is common on fracture and slip faces.						
83.53 - 85.3/ m	Core remains silicic and fine grained. It has less rubble but remains strongly broken. It takes on a hornfels appearance. Sulphide content throughout has been ~ 3%.						
85.37 - 91.77 m	DARK GREY-GREEN BIOTITE DIORITE (?)						
	A chloritic, fine grained, rock. Fine biotite partially chloritized can be sporadically observed - core is broken.						
	Intrusive texture becomes more apparent to the bottom.						

DIAMOND DRILL RECORD

PROPERTY COURTE - M481

HOLE No. DDH-87C-10

[illegible]

Hole No. C-10 Sheet No. 4/4

Let _____

Total Depth.....

Section.....

Dep. _____

Logged By.....

Date Begun.....

Bearing

Claim _____

Date Finished.....

Elev. Collar.....

Core Size _____

[illegible]

DIAMOND DRILL RECORD

PROPERTY _____ COURTE - M481

HOLE No. DDH-81C-11

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-11 Sheet No. 1/3 Lat. _____
 Section _____ Dep. _____
 Date Begun Dec. 7/81 Bearing 173°/-55°
 Date Finished Dec. 9/81 Elev. Collar _____

Total Depth 61.28 m
 Logged By W. A. Howell
 Claim _____
 Core Size NQ

Super '38' - NQ core - same location as 81-C-7

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 10.98 m	CASING - OVERBURDEN						
	N.B.: APPARENT OVERBURDEN IS MUCH DEEPER THAN REALITY						
	DUE TO HOLE 81-C-11 BEING ANGLED DOWNHILL ON A STEEP						
	SLOPE.						
10.98 - 22.26 m	DARK GREY-GREEN ANDESITE (?DACITE?).						
	The andesite is weakly porphyritic with hornblende						
	and feldspar phenocrysts. The rock has been well broken						
	and is carbonate cemented, giving a breccia/agglomerate						
	local texture. Hornblende is frequently only visible as						
	'ghosts' or is totally destroyed by shearing and						
	chloritization. Total sulphides are ~1-2%.						
10.98 - 11.89 m	Rubble.						
13.26 - 13.72 m	Clay gauge & Rubble. 25° to core axis						
18.60 - 22.26 m	Rubble.						
22.26 - 24.54m	Rubble & clay gauge. Within the rubble there is about						
	0.76m, from 23.78 - 24.54m where more competent pieces						
	of core are a fine grained tight grey strongly silicic						
	rock with only minor pyrite present.						
24.54 - 34.91 m	Sheared & foliated dark grey-green andesite (same unit						
	as top of hole). Here the rock is variably altered to						
	chlorite & sericite, sheared, almost mylonitic.						

PROPERTY . . . COURTE - M481

HOLE No. UDH-87C-11

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. C-41 Sheet No. 2/3

Section.....

Date Begun.....

Date Finished.....

Lat. _____

Dep. _____

Bearing -----

Elev. Collar.....

Total Depth.....

Logged By_____

Claim _____

Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
(cont'd)	Foliation is $\sim 25^\circ$ to core axis but is locally variable.						
	Grit throughout the chlorite/sericite is largely pale silicic clots. Sulphide is less abundant in the sheared section. Total sulphide is less than 1%. Occasional carbonate veins, from 2 to 2mm, cut the foliation.						
34.91 - 61.28m	GREY FELSIC TUFF (cf Hole 81C-10, 55.49-85.37m).						
	The rock here looks to be a fine grained altered hornblende quartz diorite. In less altered portions, the textures of the altered "GREY FELSIC TUFF" in hole 81C-10 are consistent with the less altered section in C-11 at 44.51 - 45.73m.						
	Minor faults occur at 41.55m, 27° to core axis.						
	at 42.38m, 42° to core axis.						
	Rubble occurs at 42.84m, 5° to core axis.						
	The rock is variably altered and varies from chloritic to chlorite/sericite. Relict hornblende are either chloritized or totally destroyed. A strong yellow stain on fractures sub-parallel to core axis occurs at 42.68 - 43.90m. This may be rust/jarosite or may have an orpiment component. Sulphide is disseminated and forms from 1-2% of the rock. Occasional carbonate						

PIL

PROPERTY

COURTE - M481

HOLE No.

DDH-87C-11

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. C-11 Sheet No. 3/3

Section_____

Date Begun.....

Date Finished.....

Lat. _____

Dep. _____

Bearing -----

Elev. Collar.....

Total Depth.....

Logged By_____

Claim _____

Core Size _____

[illegible]



VANGEOCHEM LAB LTD.
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NORTH VANCOUVER, B.C.,
CANADA V7P 2S3

TELEPHONE: 986-5211
AREA CODE: 604

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Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Chevron Standard Ltd.
#901 - 355 Burrard Street
Vancouver, B.C. V6C 2G8
Attention:

Report No: 81-30-055 Page 1 of 3
Samples Arrived: October 5, 1981
Report Completed: October 27, 1981
For Project: 502
Analyst: E.T. & VGC Staff
Invoice: 6573 Job # 81-351

Sample Marking	Ag ppm	As ppm	Hg ppb	Sb ppm	Au ppb	
# 00001	0.2	10	70	nd	nd	DDH-81C-1
02	---	20	85	nd	nd	
03	---	15	180	2	nd	
04	---	15	100	10	nd	
05	0.1	15	60	8	10	
06	---	20	95	14	10	
07	---	30	140	16	10	
08	---	60	290	26	90	
09	---	4	90	20	10	
00010	0.4	4	105	11	20	
0011	---	25	95	nd	110	
12	---	10	110	9	170	
13	---	80	120	nd	10	
14	---	10	95	20	230	
15	0.1	4	100	16	40	
16	---	15	70	19	20	
17	---	25	160	8	10	
18	---	4	85	10	10	
19	---	10	95	27	nd	
20	0.4	4	105	20	50	
21	---	100	80	15	40	
22	---	50	255	6	20	
23	---	200	95	14	90	
24	---	50	110	7	20	
25	nd	150	90	10	50	
26	---	100	90	18	30	
27	---	60	230	19	50	
28	---	150	260	15	650	
29	---	60	200	13	10	
30	0.1	15	190	nd	nd	
31	---	15	300	12	nd	
32	---	4	350	nd	nd	
33	---	50	350	5	nd	
34	---	20	480	14	nd	
35	nd	600	5000	34	nd	
36	---	100	700	25	20	
37	---	15	510	5	10	
38	---	200	900	7	10	
# 0039,	---	20	170	9	nd	

REMARKS:

Signed:

% Mo x 1.6683 = % MoS₂

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



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Report No: 81-30-055 Page 2 of 3
Samples Arrived:
Report Completed:
For Project:
Analyst:

Attention:

Sample Marking	Ag ppm	As ppm	Hg ppb	Sb ppm	Au ppb	
# 0040	0.1	15	30	5	nd	DDH- 81C- 1
41	---	10	110	8	nd	
42	---	40	395	15	nd	
43	---	15	650	nd	nd	
44	---	4	500	17	10	
45	0.1	50	385	2	10	
46	---	4	540	nd	nd	
47	---	50	560	35	40	
48	---	35	110	3	10	
49	---	40	110	11	10	
50	0.2	10	60	12	nd	
51	---	50	95	nd	nd	
52	---	40	60	11	10	
53	---	20	120	15	nd	
54	---	25	75	nd	nd	
55	nd	4	70	12	nd	
56	---	30	90	1	nd	
57	---	20	70	7	nd	
58	---	20	80	nd	nd	
59	---	40	90	9	10	
60	0.1	15	50	4	10	
61	---	20	40	16	nd	
62	---	60	70	nd	nd	
63	---	40	100	5	nd	
64	---	4	50	5	nd	
65	0.2	15	95	6	nd	
66	---	20	80	nd	10	
67	---	15	120	nd	nd	
68	---	10	80	9	nd	
69	---	40	90	nd	nd	
70	0.2	80	90	5	nd	
71	---	10	110	nd	nd	
72	---	4	80	6	nd	
73	---	20	90	5	10	
74	---	60	85	11	10	
75	nd	60	80	15	10	
76	---	40	45	5	nd	
77	---	40	50	4	nd	
# 0078	---	100	90	6	10	

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REMARKS:

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Attention:

Report No: 81-30-055 Page 3 of 3
Samples Arrived:
Report Completed:
For Project:
Analyst:

Sample Marking	Ag ppm	As ppm	Hg ppb	Sb ppm	Au ppb	
# 0079	--	40	90	1	nd	DDH- 81C-1
80	nd	60	60	6	10	
81	--	10	55	nd	nd	
82	--	10	60	5	nd	
83	--	4	50	10	nd	
84	--	25	80	5	nd	
85	0.3,	15	80	16	10	
86	--	20	70	10	nd	
87	--	4	60	10	nd	
# 0088,	--	15,	70,	nd,	10,	

REMARKS:

Signed: 

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Chevron Standard Ltd.
901 - 355 Burrard St.
Vancouver, B.C. V6C 2G8

Attention:

Report No: 81-30-061 Page 1 of 3
Samples Arrived: October 3, 1981
Report Completed: Nov. 9, 1981
For Project: M-562 M481
Analyst: E.T. & VGC Staff
Invoice: 6620 Job # 81-350

Sample Marking	As ppm	Hg ppb	Au ppb	Sb ppm		
# 89	15	100	nd	nd		DDH- 81C-2
90	25	55	10	nd		
91	20	60	nd	6		
92	4	50	nd	3		
93	10	65	10	14		
94	4	40	10	nd		
95	2	40	nd	5		
96	10	40	10	9		
97	15	60	nd	nd		
98	30	60	nd	nd		
99	20	65	10	5		
100	25	110	10	nd		
01	15	50	nd	nd		
02	30	60	nd	nd		
03	4	50	10	nd		
04	30	110	nd	8		
05	20	60	nd	13		
06	60	50	10	2		
07	50	80	10	4		
08	60	65	nd	10		
09	25	65	10	nd		
10	4	80	nd	nd		
11	20	100	nd	nd		
12	4	60	nd	5		
13	30	135	nd	nd		
14	50	220	10	nd		
15	25	280	nd	nd		
16	20	640	nd	nd		
17	20	130	nd	14		
18	25	260	10	6		
19	2	95	nd	4		
20	10	135	nd	5		
21	20	255	nd	9		
22	15	360	nd	5		
23	30	550	nd	13		
24	40	500	10	nd		
25	30	520	nd	3		
26	30	610	nd	5		
# 127	40	800	nd	4		

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REMARKS:

one copy to: Mr. M. Ticke
P.O. Box 733
Queen Charlott City, B.C.

Signed:

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Chevron Standard Ltd.

Report No: 81-30-061 Page 2 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	As ppm	Hg ppb	Au ppb	Sb ppm		
# 128	10	5200	nd	5		DDH-81C-2
29	4	1830	nd	nd		
30	4	1500	nd	nd		
31	4	920	nd	2		
32	4	250	nd	nd		
33	4	1000	nd	nd		
34	20	7900	10	12		
35	10	1800	nd	4		
36	4	1500	nd	nd		
37	10	1500	nd	9		
38	4	600	nd	6		
39	4	600	nd	nd		
40	15	2000	nd	nd		
41	15	2700	nd	8		
42	2	6000	nd	nd		
43	20	3500	nd	nd		
44	20	3000	nd	nd		
45	15	5400	nd	2		
46	20	3500	nd	nd		
47	15	5000	nd	nd		
48	20	830	nd	11		
49	10	800	nd	5		
50	15	4300	nd	5		
51	40	840	10	nd		
52	40	1150	nd	nd		
53	25	950	10	9		
54	10	1250	nd	5		
55	10	900	nd	5		
56	15	1100	nd	1		
57	10	720	nd	8		
58	10	670	nd	nd		
59	10	680	nd	2		
60	10	600	nd	2		
61	10	580	nd	nd		
62	10	500	20	5		
63	15	460	nd	nd		
64	10	700	nd	10		
65	10	1000	10	nd		
# 166	4	600	nd	10		

REMARKS:

Signed: 

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-IN ACCOUNT WITH-

Chevron Standard Ltd.

Attention:

Report No: 81-30-061

Page 3 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	As ppm	Hg ppb	Au ppb	Sb ppm		
# 167	2	750	nd	nd		DDH-81C-2
68	4	2100	nd	4		
69	10	2360	10	5		
70	2	660	nd	2		
71	4	650	nd	10		
72	15	350	10	nd		
73	4	520	nd	10		
74	2	860	nd	nd		
75	4	830	nd	nd		
76	15	650	10	nd		
77	4	620	nd	nd		
78	2	580	nd	nd		
79	4	390	nd	5		
80	4	500	nd	10		
81	10	400	nd	nd		
82	2	420	nd	6		
83	4	350	nd	nd		
84	4	320	nd	nd		
85	2	180	nd	nd		
86	2	320	nd	1		
# 187	15	620	nd	5		

REMARKS:

Signed: 

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—IN ACCOUNT WITH—

Chevron Standard Ltd.
901 - 355 Burrard St.
Vancouver, B.C. V6C 2G8

Attention:

Report No: 81-30-060 Page 1 of 3
Samples Arrived: October 19, 1981
Report Completed: November 5, 1981
For Project: M - 502
Analyst: E.T. & VGC Staff
Invoice: 6592 Job # 81-361

Sample Marking	Hg ppb	As ppm	Sb ppm	Au ppb		
188	280	150	nd	20		DDH-81C-3
189	100	80	4	10		
190	70	60	3	nd		
191	75	60	5	nd		
192	90	35	15	nd		
193	110	60	13	nd		
194	110	30	2	nd		
195	120	30	nd	nd		
196	100	25	5	10		
197	100	20	10	nd		
198	70	35	19	nd		
199	140	60	2	10		
200	140	80	10	20		
201	100	40	nd	nd		
202	115	40	nd	nd		
203	150	80	6	10		
204	130	60	7	nd		
205	130	50	5	nd		
206	160	80	10	nd		
207	260	100	5	nd		
208	250	60	10	10		
209	135	30	3	nd		
210	160	35	1	nd		
211	185	50	5	10		
212	200	50	3	10		
213	110	30	nd	nd		
214	115	30	2	nd		
215	135	25	7	nd		
216	155	30	nd	10		
217	120	20	2	10		
218	110	20	7	10		
219	130	35	nd	10		
220	225	20	10	nd		
221	210	35	7	nd		
222	210	50	9	nd		
223	190	20	7	10		
224	225	25	4	10		
225	250	35	nd	nd		
226	200	30	5	10		

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REMARKS:

Signed: 

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Chevron Standard Ltd.

Attention:

Report No: 81-30-060 Page 2 of 3
Samples Arrived:
Report Completed:
For Project:
Analyst:

Sample Marking	Hg ppb	As ppm	Sb ppm	Au ppb		
227	250	15	10	nd		DDH- 81C-3
228	250	20	3	nd		
229	600	60	5	10		
230	650	60	10	10		
231	580	50	5	nd		
232	400	80	4	20		
233	600	60	14	10		
234	280	50	11	10		
235	300	60	nd	nd		
236	400	40	10	nd		
237	540	60	12	nd		
238	620	40	12	nd		
239	370	60	8	10		
240	520	150	15	10		
241	200	15	5	nd		
242	240	30	nd	10		
243	700	50	15	10		
244	550	30	4	10		
245	540	50	5	nd		
246	290	35	nd	nd		
247	320	25	5	nd		
248	350	30	2	nd		
249	310	30	nd	nd		
250	360	30	nd	10		
251	330	30	2	nd		
252	420	50	nd	nd		
253	490	40	nd	10		
254	650	50	nd	nd		
255	300	30	nd	10		
256	200	20	10	10		
257	190	10	nd	10		
258	120	15	nd	nd		
259	100	20	nd	nd		
260	140	25	nd	nd		
261	160	25	nd	nd		
262	100	30	nd	nd		
263	170	15	nd	nd		
264	100	20	5	nd		
265	120	30	nd	nd		

REMARKS:

Signed: 

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Chevron Standard Ltd.

Attention:

Report No: 81-30-060

Page 3 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	Hg ppb	As ppm	Sb ppm	Au ppb		
266	210	10	nd	nd		DDH- 81C-3
267	250	15	2	10		
268	360	40	nd	nd		
269	255	20	nd	nd		
270	370	25	nd	10		
271	830	10	nd	nd		
272	700	15	nd	10		
273	520	10	4	10		
274	920	15	5	10		

REMARKS:

Signed: 

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Chevron Standard Ltd.
901 - 355 Burrard St.
Vancouver, B.C. V6C 2G8
Attention:

Report No: 81-30-062 Page 1 of 1
Samples Arrived: October 27, 1981
Report Completed: November 12, 1981
For Project: M - 502
Analyst: E.T. & VGC Staff
Invoice: 6624 Job # 81-374

Sample Marking	As ppm	Hg ppb	Sb ppm	Au ppb		
275	4	165	5	nd		DDH- 81C-4
276	4	140	nd	nd		
277	4	120	nd	10		
278	10	90	nd	nd		
279	20	65	nd	10		
280	15	70	1	nd		
281	15	80	nd	10		
282	4	50	2	nd		
283	4	60	5	nd		
284	4	50	nd	10		
285	4	160	10	10		
286	15	130	3	10		
287	10	50	14	10		
288	20	100	4	nd		
289	10	20	6	10		
290	4	50	11	nd		
291	10	60	11	nd		
929	4	120	15	nd		
293	10	80	nd	nd		
294	40	145	9	10		
295	80	90	10	nd		
296	35	20	4	nd		
297	20	45	nd	10		
298	35	69	4	nd		
299	20	40	nd	nd		
300	15	20	4	10		
301	10	10	nd	nd		
302	4	20	nd	nd		
303	10	20	nd	nd		

REMARKS:

Signed:

% Mo x 1.6683 = % MoS₂

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



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CANADA V7P 2S3

TELEPHONE: 986-5211
AREA CODE: 604

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-IN ACCOUNT WITH-

Chevron Standard Ltd.
901 - 355 Burrard Street
Vancouver, B. C. V6C 2G8

Attention:

Report No: 81-30-063 Page 1 of 3

Samples Arrived: Nov. 2, 1981

Report Completed: Nov. 13, 1981

For Project: --- M-502-481

Analyst: E.T. & VGC Staff

Invoice #6630 Job#81-378

Sample Marking	Hg ppb	As ppm	Sb ppm	Au ppb		
304	200	50	10	20		PDH-81C-5
05	330	35	8	30		
06	930	50	10	20		
07	100	30	6	nd		
08	35	25	10	nd		
09	20	15	6	10		
10	30	4	15	nd		
11	70	20	nd	nd		
12	100	20	7	20		
13	30	2	8	10		
14	60	4	5	nd		
15	50	4	3	nd		
16	75	2	8	10		
17	30	4	11	nd		
18	20	10	10	nd		
19	10	4	8	10		
20	15	4	6	nd		
21	180	4	8	10		
22	160	30	15	10		
23	300	40	15	10		
24	3600	60	34	10		
25	4300	50	44	10		
26	185	35	7	nd		
27	175	20	5	nd		
28	420	35	nd	nd		
29	400	40	7	nd		
30	115	35	10	10		
31	65	10	10	nd		
32	80	35	4	10		
33	70	40	6	nd		
34	210	60	15	10		
35	165	100	7	nd		
36	330	60	17	20		
37	200	4	26	20		
38	260	25	15	10		
39	50	4	8	nd		
40	170	10	14	10		
41	220	20	nd	20		
342,	195,	20,	14,	nd,		

REMARKS:

Signed: 

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Chevron Standard Ltd.

Report No: 81-30-063

Page 2 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Hg ppb	As ppm	Sb ppm	Au ppb		
343	60	10	3	nd		DDH-81C-5
44	45	80	2	10		
45	45	20	9	nd		
46	45	15	10	nd		
47	70	15	9	nd		
48	40	10	11	nd		
49	330	35	2	nd		
50	20	10	19	10		
51	10	4	3	nd		
52	30	4	5	nd		
53	20	2	20	10		
54	80	4	10	10		
55	40	2	10	nd		
56	10	4	10	10		
57	10	4	14	nd		
58	110	30	17	nd		
59	80	15	10	nd		
60	40	10	13	10		
61	50	10	10	10		
62	30	2	nd	10		
63	60	4	nd	nd		
64	30	2	2	20		
65	30	2	16	10		
66	10	2	10	nd		
67	10	2	5	10		
68	10	4	nd	20		
69	10	4	1	30		
70	5	2	10	nd		
71	80	4	7	10		
72	15	2	17	10		
73	5	4	12	nd		
74	10	2	15	10		
75	20	4	15	30		
76	20	4	10	nd		
77	80	4	10	20		
78	105	4	10	20		
79	170	15	21	10		
80	20	2	10	nd		
381,	115,	4,	6,	nd,		

REMARKS:

Signed: 

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Report No: 81-30-063

Page 3 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Hg ppb	As ppm	Sb ppm	Au ppb		
382	500	15	7	nd		DDH-81C-5
83	430	10	nd	10		
84	300	4	nd	nd		
85	370	4	nd	nd		
86	490	15	6	10		
87	660	20	15	nd		
388,	980	10	5	nd		

REMARKS:

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#901 - 355 Burrard Street
Vancouver, B.C. V6C 2G8
Attention:

Report No: 81-30-064 Page 1 of 4
Samples Arrived: November 16, 1981
Report Completed: November 27, 1981
For Project: M-582 481 & 490
Analyst: E.T.-& VGC Staff
Invoice: 6653 Job # 81-398

Sample Marking	Au ppb	Hg ppb	As ppm	Sb ppm		
389	nd	65	40	nd		DDH-81C-6
390	nd	220	30	nd		
391	nd	200	35	nd		
392	nd	450	40	nd		
393	nd	240	15	nd		
394	nd	380	25	nd		
395	nd	750	30	nd		
396	nd	300	25	nd		
397	nd	380	40	nd		
398	nd	410	30	nd		
399	10	200	15	nd		
400	nd	100	4	nd		
401	nd	40	4	nd		
402	nd	25	2	nd		
403	nd	65	4	nd		
404	nd	100	10	nd		
405	nd	40	10	nd		
406	nd	40	10	nd		
407	10	160	10	nd		
408	nd	90	4	nd		
409	nd	120	4	nd		
410	nd	195	20	nd		
411	nd	500	80	nd		
412	nd	950	60	nd		
413	10	180	20	nd		
414	10	270	15	nd		
415	10	160	25	nd		
416	nd	20	4	nd		
417	10	30	2	nd		
418	nd	70	2	nd		
419	10	210	10	nd		
420	nd	195	4	nd		
421	10	300	20	nd		
422	nd	90	2	nd		
423	nd	360	4	nd		
424	nd	45	4	nd		
425	10	50	2	nd		
426	10	100	2	nd		
427,	nd,	100,	2,	nd,		

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REMARKS:

Signed:

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ppm = parts per million

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Report No: 81-30-064 Page 2 of 4

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Au ppb	Hg ppb	As ppm	Sb ppm		
428	10	150	4	nd		DDH-81C-6
429	10	70	4	nd		
430	10	130	10	nd		
431	nd	400	20	nd		
432	10	430	35	nd		
433	10	210	25	nd		
434	10	190	20	nd		
435	10	560	30	nd		
436	10	480	35	nd		
437	nd	180	35	nd		
438	nd	250	35	nd		
439	nd	170	30	nd		
440	nd	240	20	nd		
441	nd	450	30	nd		
442	nd	470	20	nd		
443	nd	600	35	nd		
444	10	720	20	nd		
445	10	330	4	nd		
446	nd	330	10	nd		
447	nd	180	25	nd		
448	10	420	35	nd		
449	10	350	35	nd		
450	10	230	30	nd		
451	nd	230	30	nd		
452	10	100	2	nd		
453	10	100	2	nd		
454	nd	70	4	nd		
455	10	140	4	nd		
456	nd	210	2	nd		
457	nd	350	4	nd		
458	10	420	2	nd		
459	10	145	2	nd		
460	nd	80	4	nd		
461	nd	100	2	nd		
462	10	210	4	nd		
463	nd	280	10	nd		
464	10	150	4	nd		
465	nd	80	20	nd		
466	10	220	15	nd		

REMARKS:

Signed: 

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Attention:

Report No: 81-30-064 Page 3 of 4
Samples Arrived:
Report Completed:
For Project:
Analyst:

Sample Marking	Au ppb	Hg ppb	As ppm	Sb ppm		
467	10	70	4	nd		
468	nd	70	10	nd		
469	nd	200	10	nd		DDH-81C-6
470	nd	145	10	nd		
471 M481	nd	70	10	nd		
472	nd	75	4	nd		
473	nd	70	10	nd		
474	nd	50	10	nd		
475	nd	45	60	nd		
476	nd	30	80	nd		
477	nd	25	80	nd		
478 KING	10	30	80	nd		
479	10	40	35	nd		
480	nd	70	35	nd		
481	nd	60	35	nd		
482	nd	110	40	nd		
483	nd	160	35	nd		
484	10	125	30	nd		
485	10	130	80	nd		
486	10	150	200	nd		
487	nd	80	60	nd		
488	nd	100	35	nd		
489	nd	120	35	nd		
490	nd	140	60	nd		
491	nd	175	35	nd		
492	nd	350	60	nd		
493	10	160	80	nd		
494	nd	370	50	nd		
495	nd	300	80	nd		
496	nd	270	150	nd		
497	nd	320	80	nd		
498	nd	170	100	nd		
499	nd	130	300	nd		
500	nd	370	80	nd		
501	nd	320	35	nd		
502	nd	320	60	nd		
503	nd	330	80	nd		
504	nd	500	80	nd		
505,	nd	220,	35,	nd		

REMARKS:

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Chevron Standard Ltd
901-355 Burrard St.
Vancouver, B.C. V6C 2G8

Attention:

Report No: 81-30-065 Page 1 of 3
Samples Arrived: Nov. 30, 1981
Report Completed: Dec. 9, 1981
For Project: ---
Analyst: E.T. & VGC Staff
Invoice # 6666 Job # 81-405

Sample Marking	As ppm	Hg ppb	Sb ppm	Au ppb		
538	10	90	nd	nd		
39	2	50	nd	10		
40	4	110	nd	10		DDH-81C-9
41	4	60	nd	nd		
42	4	30	nd	nd		
43	4	40	nd	nd		
44	4	30	nd	nd		
45	4	30	nd	nd		
46	2	50	nd	10		
47	4	50	nd	10		
48	4	30	nd	nd		
49	4	40	nd	nd		
50	15	180	nd	10		
51	10	120	nd	nd		
52	2	80	nd	nd		
53	4	80	nd	nd		
54	4	80	nd	nd		
55	4	80	nd	nd		
56	2	300	nd	nd		
57	35	140	nd	nd		
58	80	160	nd	nd		
59	40	20	nd	nd		
60	15	40	nd	nd		
61	10	20	nd	10		
62	15	20	nd	10		
63	20	30	nd	nd		
64	2	20	nd	nd		
65	10	20	nd	nd		
66	10	20	nd	nd		
67	10	20	nd	10		
68	2	10	nd	nd		
69	4	10	nd	nd		
70	4	10	nd	nd		
71	4	10	nd	nd		
72	4	10	nd	nd		
73	2	10	nd	nd		
74	2	20	nd	10		
75	4	20	nd	nd		
576	2	10	nd	nd		

REMARKS:

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AREA CODE: 604

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Chevron Standard Ltd.

Report No: 81-30-065

Page 2 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	As ppm	Hg ppb	Sb ppm	Au ppb		
577	4	10	nd	nd		
78	2	10	nd	nd		DDH-81C-9
79	4	5	nd	nd		
80	4	10	nd	nd		
81	2	10	nd	nd		
82	4	10	nd	nd		
83	4	5	nd	10		
84	10	5	nd	nd		
85	4	10	nd	10		
86	4	10	nd	10		
87	2	10	nd	10		
88	2	20	nd	nd		
89	4	70	nd	nd		
90	2	20	nd	nd		
91	2	120	nd	nd		
92	203	205	nd	nd		
93	60	200	nd	10		
94	40	175	nd	nd		
95	200	400	5	nd		
96	35	60	3	10		
97	35	35	nd	10		
98	35	85	nd	nd		
599	50	35	nd	nd		
600	40	330	nd	10		
01	50	265	nd	nd		
02	20	40	nd	nd		
03	40	40	nd	nd		
04	2	135	nd	10		
05	4	80	nd	10		
06	2	60	nd	nd		
07	10	260	nd	nd		
08	80	60	3	60		
09	150	140	5	10		
10	100	190	68	160		
11	30	195	nd	nd		
12	20	115	nd	nd		
13	150	65	66	360		
14	30	165	7	20		
615	600	20	16	1,150		

REMARKS:

Signed: 

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Attention:

Report No: 81-30-065

Page 3 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	As ppm	Hg ppb	Sb ppm	Au ppb		
616	35	150	14	30		
17	10	120	nd	20		
18	60	220	22	30		DDH-81C-9
19	35	225	6	nd		
20	150	220	15	450		
21	80	135	1	220		
22	40	240	nd	20		
23	15	150	nd	10		
24	10	100	4	nd		
25	4	40	nd	20		
626,	4,	130,	nd,	10,		

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REMARKS:

Signed: 

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Attention:

Report No: 81-30-067 Page 1 of 3
Samples Arrived: December 8, 1981
Report Completed: December 17, 1981
For Project: M 502
Analyst: E.T. & VGC Staff
Invoice: 6669 Job # 81-407

Sample Marking	As ppm	Hg ppb	Sb ppm	Au ppb		
627	10	45	nd	nd		
28	100	105	nd	180		
29	60	70	nd	90		PDH-81C-9
30	35	80	nd	40		
32	1000	35	2	2900 ✓		
33	1000	20	35	3850 ✓		
34	35	60	4	40		
35	30	40	104	170		
36	200	45	nd	510 ✓		
37	60	65	nd	90		
38	20	35	nd	20		
39	10	40	nd	20		
40	25	50	nd	20		
41	35	105	nd	10		
42	35	80	nd	30		
43	35	100	nd	30		
44	40	100	nd	50		
45	10	95	nd	10		
46	30	80	nd	20		
47	80	25	nd	150		
48	10	80	nd	10		
49	35	40	nd	50		
50	30	55	nd	60		
51	500	5	17	1000 ✓	10	
52	60	15	nd	90		
53	80	5	nd	390 ✓		
54	10	50	nd	10		
55	35	60	nd	10		
56	60	100	nd	90		
57	35	110	nd	110		
58	20	90	nd	20		
59	60	75	nd	30		
60	25	105	nd	20		
61	35	105	nd	40		
62	30	75	nd	30		
63	80	20	3	350 ✓		
664	20	105	nd	60		

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REMARKS:

V Repeated analyses.

Signed

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Attention:

Report No: 81-30-067

Page 2 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	As ppm	Hg ppb	Sb ppm	Au ppb		
665	20	70	nd	10		
66	35	150	nd	10		
67	20	70	nd	10		DDH-81C-9
68	30	90	nd	nd		
69	35	75	nd	50		
70	35	110	nd	60		
71	20	155	nd	20		
72	25	200	nd	20		
73	25	150	nd	nd		
74	15	180	nd	nd		
75	30	195	nd	30		
76	15	140	nd	30		
77	35	140	10	40		
78	35	145	nd	30		
79	100	70	nd	250		
80	30	35	nd	70		
81	150	30	nd	100		
82	150	15	nd	110		
83	80	20	nd	160		
84	20	20	nd	20		
85	35	15	nd	90		
86	35	20	nd	30		
87	100	15	nd	70		
88	15	15	nd	30		
89	35	35	nd	10		
90	20	10	nd	100		
91	35	10	nd	90		
92	4	10	nd	50		
93	35	35	nd	80		
94	4	40	nd	120		
95	10	50	nd	60		
96	15	60	nd	30		
97	30	215	nd	20		
98	50	235	nd	10		
699	35	190	nd	30		
700	20	15	nd	nd		
01	4	20	nd	10		
02	20	65	nd	40		
073	40	40	nd	30		

REMARKS:

Signed: 

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Attention:

Report No: 81-30-067

Page 3 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	As ppm	Hg ppb	Sb ppm	Au ppb		
704	35	35	nd	40		
05	2	70	nd	nd		DDH-81C-9
06	2	60	nd	nd		
07	4	90	5	20		
08	2	85	nd	10		
09	4	30	nd	10		
10	25	80	nd	nd		
11	20	10	nd	nd		
12	10	10	nd	10		
13	15	30	1	nd		
14	30	75	nd	nd		
15	35	30	nd	nd		
16	50	95	9	310 ✓		
17	2	75	1	nd		
18	2	200	nd	10		
19	15	105	5	10		
20	10	75	16	20		
21	20	105	3	30		
22	35	90	nd	10		
23	30	55	nd	20		
24	35	50	nd	30		
25	20	30	nd	10		
26	35	60	nd	60		
27	15	50	nd	nd		
28	15	40	nd	10		
29	20	55	nd	230		
30	4	80	nd	130		
31	4	60	nd	nd		
732	20	40	nd	10		

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REMARKS:

Signed:

% Mo x 1.6683 = % MoS₂

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.
1521 PEMBERTON AVE.,
NORTH VANCOUVER, B.C.,
CANADA V7P 2S3

TELEPHONE: 986-5211
AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Chevron Standard Ltd.
901, 355 Burrard Street
Vancouver, B.C. V6C 2G8

Attention:

Report No: 81-30-068 Page 1 of 2
Samples Arrived: December 11, 1981
Report Completed: December 18, 1981
For Project: M - 504
Analyst: E.T. & VGC Staff
Invoice: 6670 Job # 81-411

Sample Marking	As ppm	Hg ppb	Sb ppm	Au ppb		
733	100	20	nd	10		DDH-81C-10
34	80	25	nd	nd		
35	20	15	nd	20		
36	15	10	nd	nd		
37	15	15	nd	20		
38	4	20	nd	10		
39	2	25	nd	nd		
40	4	30	nd	nd		
41	4	20	nd	nd		
42	10	30	nd	10		
43	20	40	nd	20		
44	25	30	nd	10		
45	30	30	nd	nd		
46	30	30	nd	nd		
47	2	50	nd	nd		
48	4	160	nd	nd		
49	2	90	nd	nd		
50	30	45	nd	nd		
51	4	30	nd	nd		
52	10	50	nd	20		
53	2	50	nd	nd		
54	2	25	2	nd		
55	2	25	nd	10		
56	4	20	nd	nd		
57	4	30	nd	nd		
58	20	40	nd	10		
59	2	30	nd	10		
60	25	130	nd	30		
61	4	50	nd	10		
62	15	120	nd	nd		
63	4	140	nd	80		
64	35	75	nd	20		
65	35	45	nd	10		
66	80	30	nd	160		
67	600	10	108	700		
68	1000	10	45	270		
69	25	40	6	nd		
70	15	15	2	nd		
771	10	15	nd	10		

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REMARKS:

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Chevron Standard Ltd.

Report No: 81-30-068

Page 2 of 2

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	As ppm	Hg ppb	Sb ppm	Au ppb		
772	10	10	40	10		DDH-81C-10
73	10	15	36	nd		
74	100	30	41	nd		
75	400	15	9	170		
76	80	20	4	10		
77	60	60	50	40		
78	4	24	39	nd		
79	30	25	40	30		
80	80	25	1	20		
81	35	20	37	30		
82	35	20	31	nd		
83	2	20	35	20		
84	10	15	36	40		
85	4	20	44	20		
86	2	10	30	nd		
87	2	10	42	10		
788	15	10	30	10		

MASTER PRINTING LTD.

REMARKS:

Signed: 

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nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



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NORTH VANCOUVER, B.C.,
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Chevron Standard Ltd.
901-355 Burrard St.
Vancouver, B.C. V6C 2G8

Attention:

Report No: 81-30-069 Page 1 of 1
Samples Arrived: Dec. 18, 1981
Report Completed: Dec. 24, 1981
For Project: M 502
Analyst: E. Tang & VGC Staff
Invoice # 6671 Job # 81-413

Sample Marking	Hg ppb	Sb ppm	As ppm	Au ppb		
789	10	nd	25	20		DDH-81C-11
790	15	nd	20	nd		
791	15	nd	30	10		
792	20	nd	30	nd		
793	20	nd	20	nd		
794	20	nd	20	nd		
795	20	nd	10	nd		
796	25	nd	4	20		
797	30	nd	300	10		
798	15	nd	50	20		
799	15	nd	2	nd		
800	15	nd	4	nd		
801	20	nd	20	10		
802	15	nd	10	nd		
803	15	nd	20	nd		
804	30	nd	30	nd		
805	30	nd	25	30		
806	30	nd	15	10		
807	35	nd	15	10		
808	20	2	50	10		
809	15	nd	15	10		
810	15	nd	30	80		
811	20	nd	15	10		
812	20	nd	25	10		
813	25	12	100	90		
814	15	nd	20	nd		
815	10	nd	15	20		
816	20	nd	100	10		
817	20	2	80	80		
818	25	nd	150	10		
819	20	nd	15	10		
820	25	nd	30	10		

REMARKS:

Signed:

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All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 986-5211
604-988-2000

Jan. 25, 1982

To: Sandy McAllister
Chevron Standard Ltd.
901-355 Burrard St.
Vancouver, B.C. V6C 2G8

From: Vangeochem Lab.Ltd.
1521 Pemberton Ave.
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine Antimony in geological Materials.

1. Method of Sample Preparations

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4 X 6 Kraft paper bags or rock samples sometimes in 8" X 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new coin envelope for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

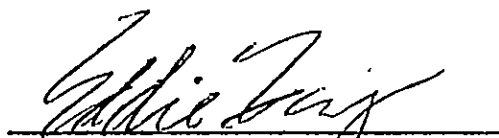
- (a) 0.50 gram samples of the minus 80-mesh fraction were weighed out by using a top-loading balance into the test tubes.
- (b) Tartaric acid and nitric acid were added to the sample and allowed to sit overnight.
- (c) The samples were digested in a hot water bath for 2-3 hours.
- (d) The samples were shaken and diluted with demineralized water to a fixed volume settled.

... cont.

3. Method of Analysis

Sb analysis is determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with the Sb hollow cathode lamp. The digested samples were aspirated directly into an air and acetylene flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit and displayed in a strip chart recorder.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and the laboratory staffs.

A handwritten signature in cursive script, appearing to read 'Eddie Tang', is written over a horizontal line.

Eddie Tang

VANGEOCHEM LAB LTD.

ET:at



986-5211

VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-~~888XXXX~~

V7P 2S3

Jan. 25, 1982

To: Sandy McAllister
Chevron Standard Ltd.
901-355 Burrard St.
Vancouver, B.C. V6C 2G8

From: Vangeochem Lab Ltd.
1521 Pemberton Ave.
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine Aqua Regia soluble Hg vapour in geochemical samples.

1. Method of Sample Preparations

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4 x 6 Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new coin envelope for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

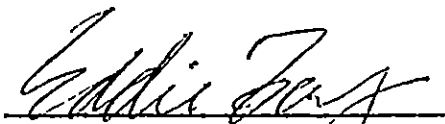
- (a) 0.50 gram samples of the minus 80- mesh fraction were weighed out by using a top-loading balance into the test tubes.
- (b) The samples were digested with aqua-regia in a hot water bath for an hour.
- (c) The samples were shaken and diluted with demineralized water to a fixed volume settled.

... cont.

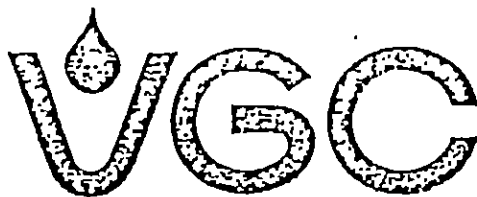
... 2 ...

3. Method of Analysis

- (a) An aliquot of the digested samples were mixed with H_2SO_4 acid, NaCl, & hydroxylamine sulphate-stannous sulfate as the reductant.
 - (b) The vapour of the mixture was then drawn into the absorption cell and the Hg vapour was detected by the Techtron model AA-5 atomic absorption spectrophotometer.
 - (c) The results were recorded on a strip chart recorder. The concentration were calculated in parts per billion by comparing with a set of Hg vapour standards.
4. The analyses were supervised or determined by Mr. Eddie Tang or Mr. Conway Chun and their laboratory staff.


Eddie Tang
Vangeochem Lab Ltd.

ET:jl



986-5211

VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-888-2172

V7P 2S3

TO: Chevron Standard Ltd.
Mineral Staff
#901 - 355 Burrard St.
Vancouver, B.C. V6L 2G8

FROM: Vangeochem Lab Ltd.
1521 Pemberton Ave.
North Vancouver, B.C. V7P 2S3

SUBJECT: Analytical procedure used to determine hot acid soluble arsenic in geochemical silt, soil, lake sediments and rock samples.

1. Sample Preparation

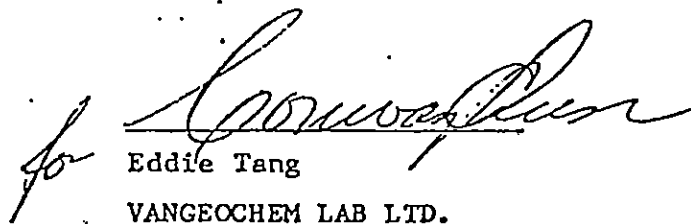
- (a) Geochemical soil, silt, lake sediments or rock samples were received in the laboratory in wet-strength $3\frac{1}{2} \times 6\frac{1}{2}$ Kraft paper bags and rock samples in $4" \times 6"$ Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven.
- (c) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieves. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a nwq bag for analysis later.
- (d) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

- (a) 0.25 gram of the minus 80-mesh sample was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with concentrated perchloric acid (70 - 72% HClO_4 by weight) at a medium heat for four hours.
- (c) The digested samples were diluted with demineralized water.

3. Method of Analysis

- (a) Potassium iodide and stannous chloride in HCL were added to the digested samples.
 - (b) Zinc metal was introduced and the arsenic in solution was gassed off as arsene through a glass wool scrubber plug saturated with lead acetate and into a solution of silver diethyldithiocarbamate in chloroform with 1-ephedrine, forming a red complex with the silver diethyldithiocarbamate.
 - (c) The concentration of the arsenic was determined colorimetrically by comparing the intensity of the color of the red complex with a set of known standards prepared in a similar fashion as the samples.
4. The analyses were supervised or determined by Mr. Eddie Tang or Mr. Conway Chun and their laboratory staff.


Eddie Tang
VANGEOCHEM LAB LTD.



986-521

VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-288-XXXX

V7P 2S3

To: Chevron Standard Ltd.
Mineral Staff
#901 - 355 Burrard St.
Vancouver, B.C. V6L 2G8
From: Vangeochem Lab Ltd.
1521 Pemberton Avenue
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine Aqua Regia soluble gold
in geochemical samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4 x 6 Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

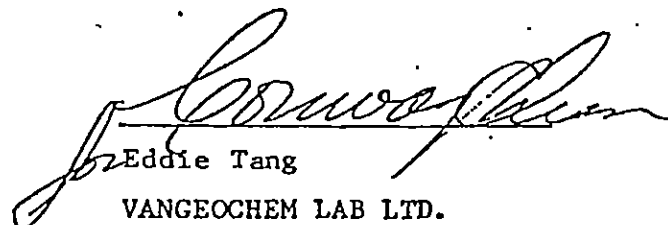
- (a) 5.00 grams of the minus 80-mesh samples were used. Samples were weighed out by using a top-loading balance into beakers.
- (b) 20 ml of Aqua Regia (3:1 HCl:HNO₃) were used to digest the samples over a hot plate vigorously.
- (c) The digested samples were filtered and the washed pulps were discarded and the filtrate was reduced to about 5 ml.
- (d) The Au complex ions were extracted into diisobutyl ketone and thiourea medium. (Anion exchange liquids "Aliquot 336").

(e) *Separate Funnels were used to separate the organic layer.*

3. Method of Detection

The gold analyses were detected by using a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode Lamp. The results were read out on a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values in parts per billion were calculated by comparing them with a set of gold standards.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.


Eddie Tang
VANGEOCHEM LAB LTD.

ET: j1