



52011SW0023 36 MCVICAR LAKE

010

DIAMOND DRILLING

AREA: McVICAR LAKE

REPORT NO: 36

WORK PERFORMED FOR: BHP-Utah Mines Ltd.

RECORDED HOLDER: Same as above [xx]
: Other []

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
846028	ML-35/	309'	Apr/88	(1)
	ML-36/	369'	Apr/88	(1)
	ML-37/	429'	Apr/88	(1)
	ML-39/	399'	Apr/88	(1)
846036	ML-44	699'	May/88	(1)
846033	ML-38/	509'	Apr/88	(1)
	ML-40/	489'	Apr/88	(1)
	ML-42/	629'	May/88	(1)
	ML-43/	649'	May/88	(1)
	ML-41	509'	Apr/88	(1)
	ML-45	479'	May/88	(1)

NOTES: (1) #W8803.193, filed in Jan/89

Inclination: $\sim 70^\circ$ Bearing: 230°

Total Depth: 309'

Logged By: K. HOWLE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp.	Int.	Estimated
	MICROPHONOLITE	CARBONATE	SILICA													
60							GABBRO 56.0'-103.5'			BQ						
70							TONALITE / GRANITOID DYKE FINE TO MED GRAINED, UNIFORM GREEN-GREEN TO ORANGE TAN, FREE OF MINERAL FLUO, ALKALI FELDSPAR & QUARTZ BY SILICA FRACTURES 1-2 MM VENTRATING GABBRIO PRESENT, LOW TO MID CARB RYM, UPPE CONTACT SHARP, SLIGHT ALTERATION ZONE, LOWER CONTACT SHARP			69'	100%					
80							FELCIC DYKE 2 CM DYKE IS HIGHLY SILICIFIED FE CORP PATCHES			79'	100%					
90							TONALITE / GRANITOID DYKE INCLUDED LIGHT GABBRO FRAGMENTS			89'	100%					
100							TONALITE 96.0'-99' SAME AS 49.5'-56.0'			99'	100%					
110							TONALITE 103.5'-143.2' SAME AS 49.5'-56.0' WEAK CARBOHIZATION TO STRONG ALONG CARB FRACTURES. TR - 1% PO PY EXCEPT ALONG A FEW FRACTURE PLANS 3-5% OCASIONAL PATCHES OF PINKISH RED ALKALI FIELD THROUGHOUT ZONE			109'	100%					
										119'	100%					

Hole No. ML 35

Project: 1446

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Casing Collar Elev.: Ground Elev.:

Date Started: 13/04/88

Ref. to Claim Corner:

Coordinates: NG 3+505 N. 2+50 E.

Date Finished: 14/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 230°

Total Depth: 309'

Logged By: K. HOULE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	ADP	CHL	SILICA											
120							TONALITE 103.5' - 143.2'							
							CONT'D							
130														
140														
150							BRECCIATED GABBRO / GABBRO 143.2' - 158.3'							
							FINE GRAIN Aphanitic, DARK TO MED DARK GREEN MASSIVE TO SLIGHTLY FOLIATED AT MARGINS, MINOR FRACTURING AT MARGINS AND RECENTLY FOLDED TOWARDS CENTER, OCCASIONAL PY-PG GRAIN, LITTLE TRACE TO 1% PY-PG WITH GREATER CONCENTRATIONS ALONG FRACTURES. BRECCIATED GABBRO IS SUPPORTED BY CORE MATRIX > 20%	TR-10% Py-Pg						
160							GABBRO 158.3' - 174.5'							
							MED GRAINED, LIGHT TO DARK GREEN GREY MASSIVE WITH SUBHEDRAL TO Euhedral CRYSTALS OF PLAG, PLAG IS COMPLETELY OR PARTIALLY SURROUNDED BY PYROXENE IMPARTING AN OPHITIC TEXTURE. GABBRO COMPOSED OF ~40% PLAG 1-3 MM. TR-10% Py-Pg WITH BOTH PY-PG LINING FRACTURES	TR-10% Py-Pg						
170							PORPHYRITIC BASALT 174.5' - 179.0'							
							VERY FINE GRAINED APHANITIC, DARK GRAY TO BLACK SUBHEDRAL TO Euhedral PHENOCRYSTS OF PLAG 1-3 MM 1-2% HARD INDICATES POSSIBLE SILICIFICATION, FINE GRAD FILLING FRACTURES, TR-10% Pg ALONG FRACTURES	TR-10% Pg FRAC						

DIP TEST 165°
CORR 67.7°

Hole No. ML 35

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Casing Collar Elev.: Ground Elev.:

Date Started: 13/04/88

Ref. to Claim Corner:

Coordinates: NG 3+505 N. 2+50 E.

Date Finished: 14/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 230°

Total Depth: 309'

Logged By: K. Houle

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	UPPER GREEN MICA	CARBONATE	SILICA											
180							SILICIFIED ZONE.							
190							SILICIFIED ZONE SHEAR CONT			90%	BQ			
200							ELONGATE DISSEMINATED PO TR PY 5-6%			100%				
210							PORPHYRY GABBRO 179.0' - 188.6' MED GRAINED, LIGHT TO DARK GREY, HIGHLY FRACTURED WITH CHLORITIC ALTERATIONS ALONG FRACTURES. ZONES OF HIGH SILICIFICATION W/ DISCERNABLE SHARP CONTACTS. NUMEROUS SILICIFIED VEINS RUN THROUGH SECTION. TR-1% PO PY. PO PY COATING ON SOME FRACTURE PLANES		TR-1% PO-PY					
220							PORPHYRY GABBRO 188.6' - 201.6' FINE GRAINED Aphanitic, grey green to med grey 1-2% FELDSPAR PORPHYRIES 2-4MM IN SIZE. NUMEROUS SILICIFIED VEINS AND FINE FRACTURES. SOME SILICIFIED ZONES CONTAIN CHLORITIC YACHLING PO + TR PY FOUND ON CONTACTS BETWEEN SILICIFIED AND PORPHYRIC ZONES. 1-2% PO, TR PY. NOTED SHARP CONTACTS BETWEEN SOME SIMILAR ROCKS.		TR-1% PO-PY					
230							PORPHYRY GABBRO 201.6' - 223.9' SAMPLER 158.3' - 174.5' GREATER DEGREE OF SILICIFICATION THROUGHOUT. FINE GRAINED PORPHYRY GABBRO. ZONES 2-5". PARTIALLY SILICIFIED CONTACTS. TR-1% PO, TR PY.		TR-1% PO-PY					
							PORPHYRY GABBRO 223.9' - 244.8' FINE GRAINED, LIGHT GREY TO GREY GREEN, ANGULAR TO SUBANGULAR SHEARED GABBRO IN A 20% CARB MATRIX WITH RANDOM ORIENTATION. MULTIPLE CARB EVENTS WITH X-CUTTING SiO ₂ /CARB VEINS. CHLORITIC AND SERICITIC ALTERATION OF FRAGMENTS. TR-2% PY		TR-1% PO-PY					
							INCREASE IN SHEARING INTENSITY		TR-2% PY					
									TR-2% PY					

Inclination: -70° Bearing: 230°

Total Depth: 209'

Logged By: K. Howle

[illegible]

Hole No. ML 36

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Casing Collar Elev.: Ground Elev.:

Date Started: 15/04/88

Ref. to Claim Corner:

Coordinates: NG 3+505 N. 3+00 E.

Date Finished: 16/04/88

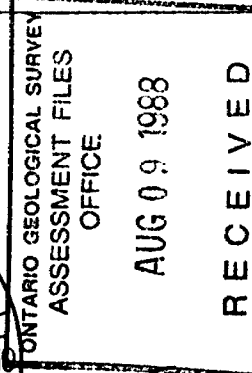
Scale: 1" = 10'

Inclination: -70° Bearing: 230°

Total Depth: 369'

Logged By: K. Hoult

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	ADP. ELEV. HIC.	CARBONATE	SILICA												
0							OVERBURDEN 0 - 33.8' CASING REMAINS								
10										9'	100%				
20										19'	100%				
30										29'	100%				
40							GABBRO 33.8' - 54.1' MED GRAINED, LIGHT GREEN TO GREEN GREY, FEW AREAS WITH FELDSPAR PORPHYRIES OCCASIONAL SILICA/CARB FILLING FRACTURES, OVERALL LOW CARB RXN. SOME SERICITE ALTERATION ALONG FRACTURE ZONES, TR PY.		TR-PY	39'	100%	BQ			
50									TR-PY	49'	100%				
							GABBRO 54.1' - 59.8' FINE TO MED GRAINED, LIGHT TO MED GREY, SHARP CONTACT OF FINER GRAINED GABBRO AT 57.5' WITH EVIDENCE OF WISPY SILICIFICATION AND INCLUDING AN ANGULAR AVOIDANCE 2.5 CM. POOR CARB RXN EXCEPT ON MINUTE FILLED FRACTURES, TR PY.		TR-PY	59'	100%				
							SHARP CONTACT								
							FINER GRAINED GABBRO.								
							SHARP CONTACT								



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Casing Collar Elev.: Ground Elev.:

Date Started: 15/04/88

Ref. to Claim Corner:

Coordinates: NG 3+50 S N. 3+00 E.

Date Finished: 16/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 230°

Total Depth: 369'

Logged By: K. Hoult

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	PPLE GREEN MIC	CARBONATE	SILICA											
60														
70														
80														
90														
100														
110														

							<u>GABBRO 59.8' - 77.0'</u> SAML AS 33.8' - 54.1'. MATRIX BECOMES FINER AT 73.5'. ALSO BECOMES LIGHTER GREY.		TR-PY		BQ			
							MATRIX BECOMES FINER. ↓ BECOMES PORPHYRY CUT BY CARB VEINS		TR-PY	69'			100%	
							<u>BRECCIATED BASALT 77.0' - 89.0'</u> FINE GRAINED, MED GREEN/GRAY, HIGHLY SHEARED ANGULAR TO SUBANGULAR BASALT FRAGMENTS SUPPORTED IN A 10-15% CARBONATE MATRIX. ZONES OF VOLCANIC TUFF 1-2 MM ANGULAR FRAGMENTS WELL FOLIATED AND SHOWING CHLORITIC ALTERATION TR-10% FINELY DISSEMINATED PY		TR-10% PY	79'		1823	100%	
							<u>PORPHYRITIC BASALT 89.0' - 91.0'</u> FINE GRAINED, DARK GREEN/BLACK, LUNEBRAL TO SUBNEURAL PORPHYRY PLUG 2 MM, CUT BY FINE CARB FILLED FRACTURES. HAS SHARP CONTACT WITH HIGHLY SHEARED ZONE WITH ANGULAR FRAGMENTS 1-2 MM (SURFACEOUS?) TR-10% PY		TR-10% PY	89'			100%	
							<u>GABBRO PORPHYRY 91.0' - 103.0'</u> LIGHT GRAY - FINE TO MED GRAINED, 20-30% FELDSPAR PORPHYRIES IN A FINE MAFIC MATRIX, PORPHYRIES RUN 3-15 MM, FINE TO MED CARB AND CARB/SILICA FRACTURES. CONTAINS A FEW ZONES OF SLIGHTLY SHEARED ROCK LACKING FELDSPAR PORPHYRIES. TR-10% PY PO		TR-10% PY PO	99'			100%	
							<u>GABBRO 103.0' - 120.7'</u> FINE GRAINED, DARK GREEN, MASSIVE TO SLIGHTLY SHEARED GABBRO WITH SMALL BRECCIATED AREAS. OCCASIONAL AREAS 2-10 CM WIDE OF PORPHYRITIC GABBRO WITH FELD. 2-12 MM, HAIR LINE CARB FRACTURES PERVADE WITH OCCASIONAL CARB/SILICA FRACTURES TR-10% PY PO		TR-10% PY PO	109'			100%	
							<u>BRECCIATED 109.6' - 111.3'</u> 5-10% CARB. <u>PORPHYRITIC 117.4' - 118.4'</u>		TR-10% PY PO	119'			100%	

Hole No. ML 36

Project: 1446

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Casing Collar Elev.: Ground Elev.:

Date Started: 15/04/88

Ref. to Claim Corner:

Coordinates: NG 34505 N. 3400 E.

Date Finished: 16/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 230°

Total Depth: 369'

Logged By: K. HOULE

SECTION	ALTERATION			FRACTURING	MINERAL GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
	OPOL GREEN MUD	CARBONATE	SILICA											
120						12' QTZ VEIN MARKS BOUNDARY DIPRITIC XENOLITH		TR-1% Py Po			BQ			
130						SHEARED AND SLIGHTLY APPARENT PORPHYRITIC		TR-1% Py Po	129'	100%				
140						PORPHYRITIC GRADATIONAL		TR-1% Py	139'	100%				
150						ROUGHLY SILICIFIED CARBONATE ZONE SHARP GRANITIC IMPERANCE		TR-1% Py Po	149'	100%				
160						2" WHITE QTZ VEIN DIPTEST 169' CORR. < 66.5° SHARP		TR-1% Py	159'	100%				
170								TR-1% Py	169'	100%				
								TR-1% Py	179'	100%				

GABBRO / PORPHYRITIC GABBRO 120.7' - 143.0'
 SAME AS 103.0' - 120.7' WITH OCCASSIONAL
 ZONES GRADING INTO PORPHYRITIC GABBRO
 TR-1% Py Po

GABBRO 143.0' - 151.7'
 SAME AS 103.0' - 120.7'

TONALITE 151.7' - 157.1'
 FINE TO MED GRAINED - LIGHT GREY TO BUFF BROWN.
 SUBHEDRAL TO ANHEDRAL PERSEAR WITH ANHEDRAL WZ
 WEAK SECONDARY SILICIFICATION. VERY FINELY
 DISSEMINATED TR-Py, Po

GABBRO 157.1' - 165.6'
 SAME AS 103.0' - 120.7' HAS ZONES OF
 MED CARB RYN WITH AREAS OF LOW
 RYN. CARB FILLED FRACTURES PERVALE
 TR-1% Py

TONALITE 165.6' - 172.2'
 SIMILAR TO 151.7' - 157.1'. MORE BROWNISH IN
 COLOUR. ZONES OF SILICIFIED CARBONATE
 WITH LOW RYN.

GABBRO 172.2' - 176.3'
 SAME AS 103.0' - 120.7'. MED CARB IMPRINT
 OVER ENTIRE SECTION. TR-1% Py
PORPHYRITIC BASALT 176.3' - 181.0'
 SAME AS 89.0' - 91.0'

Hole No. ML 36

Project: 1446

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Casing Collar Elev.: Ground Elev.:

Date Started: 15/04/88

Ref. to Claim Corner:

Coordinates: NG 3450.5 N. 3400 E.

Date Finished: 16/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 230°

Total Depth: 369'

Logged By: K. Houlle

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	ADOLPH GREEN MICA	CALCOPHANE	SILICA												
120															
130							SHARP SEGMENTED LAYERED AND ACCUMULATED								
140															
150															
160															
170															
180															
190															
200															
210															
220															
230															
240															
250															
260															
270															
280															
290															
300															
310															
320															
330															
340															
350															
360															
369															

DESCRIPTIVE GEOLOGY

GABBRO 181.0' - 205.0'

FINE TO MED GRAINED, LT. GREY/GREEN TO DK GREY/GREEN
SUBSTANTIAL TO CONSIDERABLE FELDSPAR (20-30%) MED
UNITED LAKES 181.0' - 180.5' 100% RECOVERED
REMARKS: CREEP OCCURS THROUGHOUT, OCCASIONALLY
SLIGHTLY CHECKED, TR-1% Py, Fe

TONALITE DYKE 205.0' - 208.5'

VERY FINE GRAINED, MED. GRAINED, LAKES 205.0' - 204.5'
LAKES 204.5' - 204.0' 100% RECOVERED
REMARKS: CREEP OCCURS THROUGHOUT, OCCASIONALLY
SLIGHTLY CHECKED, TR-1% Py, Fe

GABBRO 208.5' - 216.9'

SAME AS 205.0' - 208.5'

TONALITE 216.9' - 224.2'

SAME AS 154.7' TO 157.1'
TR-1% Py, Fe

TONALITE DYKE INTERSECTING
AT > 80°

ANORTHOSITIC GABBRO
PORPHYRY TO 20% FELD.

GRADATIONAL
INTERMEDIATE INTRUSIVE
DYKES 2-5" M.

GABBRO 224.2' - 227.1'

FINE GRAINED, DARK GREY/GREEN

GABBRO 227.1' - 233.9'

FINE TO MED GRAINED, SPECKLED, LT. GY TO BK
SMALL ZONE OF ANORTHOSITIC PORPHYRY GABBRO TR-2% Py, Fe

Inclination: -70° Bearing: 230°

Total Depth: 369'

Logged By: *K. Howell*

SECTION	ALTERATION			FRACTURING MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp.	Int. Estimated
	DARK GREEN HIGH CARBONATE SILICA	FRACTURING MINERAL	GEOLOGY										
240													
						GABBRD 227.1' - 233.9' CONT'D. - WITH FELDSPARS <90% LOW-MED CARR AND IN LOWER SECTION TR-Py				BQ			
250						233.9 → 237.0' FINE GRAINED LOW-MED CARR EXCEPT ON FRACTURES TR-2% Py			100%				
						GABBRD 237.0' - 270.0' FINE GRAINED → APLASTIC DARK GREEN TO BLACK, HEAVILY FRACTURED, MANY CRACK SHEETS AND FILLED BY CARBONATE OCCASIONAL XENOLITHS OF MED GRAINED GABBRO TR-1% Py			100%				
260													
270						BRECCIATED GABBRO 270.0' - 273.5' FINE GRAINED LIGHT GREY TO GREEN GREY TO BLUE ALONG THE SURFACES SHARPER GABBRO IN A 15% CARB MATT TR-1% Py					270.8	1804	5.6'
						SHEARED			100%		273.5	1805	4.5'
280						INTERMEDIATE INTRUSIVE 273.5' - 282.5' FINE GRAINED, BULK BROKE DOWN, FINE 2'S HIGHLY SHEARED ALTERING INTO HIGHLY SHEARED LANTERN MARC CENTER IS LIGHTLY SHEARED TO MASSIVE BECOMING AGAIN HIGHLY SHEARED MED CARR RYM IN SHEARED AREAS TR-2% Py					278.2	1806	4.5'
						SHEARED AND SLIGHTLY FACETATED INTERMEDIATE INTRUSIVE DUNE CONTAINS ROUGH QTZ FRAGS.			100%		282.5	1807	5.0'
290						SHEARED GABBRO 282.5' - 299.7' FINE GRAINED LIGHT GREEN/GREY TO DARK GREEN, HIGHLY SHEARED AND AT TIMES SLIGHTLY BRECCIATED CONTAINS 5-15% CARB THROUGHOUT OCCASIONAL SMALL CARB/SILICA VEINS TR-4% Py					287.5	1808	5.0'
									100%		292.5	1809	7.2'
											299.7		

Hole No. ML 36

Project: 1446

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Casing Collar Elev.: Ground Elev.:

Date Started: 15/04/88

Ref. to Claim Corner:

Coordinates: NG 34505 N. 3400 E.

Date Finished: 16/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 230°

Total Depth: 369'

Logged By: K. HOULE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	APPLE GREEN MICA	CARBONATE	CLAY												
300							MASSIVE QTZ vein 279.7' - 301.5' INCLUDES SMALL SECTION OF SHEARED, MAFIC & 30M CONTAINING 2-4% PY. QTZ CONTAINS 1-3% PY					BQ	1810		1.0'
							SHEARITE GABBRO 301.5' - 312.7' FINE GRAINED DARK GREEN TO LIGHT GRAY GREEN, SLIGHTLY SHEARED OVER SECTION LOW-MOD CARB. MAFIC & SILICIFIED TO QTZ CONTACT. TR-10% PY			100%			1811		2.0'
310										209'			1812		3.0'
													1813		4.0'
							MASSIVE QTZ 313.7' - 326.9' CONTAINS ANGULAR TO ROUNDED SILICIFIED XENOLITHS OF INTERMEDIATE INTRUSIVE ALONG WITH ANGULAR TO SUBANGULAR FRAGMENTS OF APPLE GREEN MICA / SERICITE. ZONES OF WELL DEVELOPED CONCENTRIC QTZ RINGS IN A FINE GRANULAR QTZ MATRIX OCCUR OCCASIONALLY. FOUR DARK PYR. APPLE GREEN MICA / SERICITE APPEARS SHEARED AND ALSO OCCUR IN SMALL VEIN RANDOMLY ORIENTED. TR-4% PY			100%			1814		5.0'
320										319'			1815		6.0'
													1816		7.0'
							SEMI MASSIVE QTZ / APPLE GREEN MICA 326.9' - 331.6' 50-60% SEMI MASSIVE QTZ WITH FINE TO MED SHEARED APPLE GREEN MICA / SERICITE. MICA / SERICITE SLIGHTLY BRECCIATED AT TIMES LITTLE TO NO CARB PYR. 2-5% PY			100%			1817		8.0'
330										320'			1818		9.0'
							TORALITE / SERICITE INTRUSIVE 331.6' - 334.2' FINE TO MED GRAINED BY GREEN, SILICIFIED SLIGHTLY BRECCIATED. MINOR CARB. 2-5% PY			100%			1819		10.0'
							GABBRO 334.2' - 345.3' FINE GRAINED DARK GREEN TO BLUE ALTERATION EFFECTS OVERLYING INTRUSIVE GIVING APPEARANCE OF INTERMEDIATE INTRUSIVE GRADING FROM BLUE TO MOTTLED BLUE / GREEN, GREEN / BLUE TO GREEN. TR-1% PY.						1820		11.0'
340										334'			1821		12.0'
							ALTERED ZONE ENDS						1822		13.0'
							BRECCIATED GABBRO 345.3' - 356.3' SAME AS 270.0' - 272.9' CARB MATRIX > 20%			100%					
350							GABBRO 356.3' - 369' MED. GRAINED DARK GREEN. 50% ANHEDRAL → SUBHEDRAL CELD SPAR. CARB. PYR. ALONG								

Hole No. ML 36

Project: 1446

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Casing Collar Elev.: Ground Elev.:

Date Started: 15/04/88

Ref. to Claim Corner:

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Date Finished: 16/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 230°

Total Depth: 369'

Logged By: K. HOWLE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	Sulphides %	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	APPL. GREEN MIC	CHROMATE	SILICA												
360							DESCRIPTIVE GEOLOGY								
							GABBRO 366.3' - 369'		10-12%			BQ			
							SMALL VEINS. 70-1% Py		Py		100%				
370							DIP TEST 369' CORN < 67°		↓	369'		↓			
							END OF HOLE 369'								

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Ref. to Claim Corner:

Scale: 1" = 10'

Logged By: R. G. BONNER

[illegible]

Hole No. ML 37

Project: 1446

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Casing Collar Elev.: Ground Elev.:

Date Started: 17/04/88

Ref. to Claim Corner:

Coordinates: 3+505 N. 3+50E E.

Date Finished: 18/04/88

Scale: 1"=10'

Inclination: -70° Bearing: 230°

Total Depth: 429' (130.7M)

Logged By: R.G.B.

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp.	Int.	Esti- mated
	Apple Green	Carbonate	Silicification													
60							57.0' - 69.0' TONALITE cont...		Tr Py			80				
							VERY FINE GRAINED TO FINE GRAINED, LIGHT GREENISH WHITE TO YELLOWISH, 45% FINE MAFIC ORAINS, ZONES OF SILICA FLOODING, WEAK CARBONATE ALONG FRACTURES, FEW XENOLITHS OF UNDERLYING GABBRO - WEAK PERVASIVE CARBONATE, SHARP INTRUSIVE CONTACTS, TRACE DISSEMINATED PYRITE - Euhedral to subhedral, also pyrite along fractures			69'	100					
70							69.0' - 100.5' GABBRO		Tr Py							
							MEDIUM GRAINED, DARK GREEN TO WHITE SPECKLED, 40% PLAG, OPHITIC, POOR TO TO WEAKLY FOLIATED, ZONE OF MODERATE CARBONATE BRECCIATION - FRAGMENTS ARE WEAKLY TO INTENSELY SHEARED, NARROW QZ-CARB VEIN WITHIN THIS ZONE, FEW NARROW ZONES OF WEAK PERVASIVE CARBONATE - OVERALL CARBONATE IS WEAK AND FRACTURE RELATED, PATCHY SILICIFICATION - DEUTERIC AND SECONDARY RELATED TO SHEARING, TRACE DISSEMINATED WHITE-CRYSTALS AND BLEBS, OFTEN FRACTURE RELATED AS WELL			74'	100					
80									Tr Py							
										84'	100					
90									Tr Py							
										94'	100					
100									Tr Py							
										99'	100					
110									Tr Py							
										104'	100					
									Tr Py							
										109'	100					
									Tr Py							
										119'						

Hole No. ML 37

Project: 1446

Page No: 4 Of 8

Casing Collar Elev.: Ground Elev.:

Date Started: 17/04/88

Ref. to Claim Corner:

Coordinates: NG31503 N. 3150 E.

Date Finished: 18/04/88

Scale: 1"=10'

Inclination: -70° Bearing: 230°

Total Depth: 429' (130.7 m)

Logged By: R. G. B.

SECTION	ALTERATION		FRACTURING	QTZ MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
						DESCRIPTIVE GEOLOGY								
180	Apple Green Mica Carbonate	Silicification				158.6' - 234.8' GABBRO cont...		Tr Py	181'	100	BCQ			
190							Tr Py	181'	100					
200							Tr Py	199'	100					
210							Tr Py	229'	100					
220							Tr Py	219'	100					
230	SHARP SHARP SHARP					234.8' - 236.0' TONALITE AS IN 134.5' - 190.0'		Tr Py	229'	100				
						236.0' - 238.5' PORPHYRITIC FINEGRAN FELSIC INTRUSIVE TWO NARROW ZONES OBSERVED AT 120.7' AND 122.4' APHANITIC DARK GREY TO BLACK UP TO 5% Euhedral PLAG PHENOCRYSTS RANDOMLY ORIENTED PHENO'S APPEAR UNALTERED MATRIX EXTREMELY HARD CONTACTS SHARP WAS LOGGED IN ML 4X AS AN INTRUSIVE. CARBONATE ALONG FRACTURES NO VISIBLE SULPHIDE		Tr Py	229'	100				
						238.5' - 241.6' TONALITE AS IN 134.5' - 190.0' Xenolith of sheared GABBRO with weak pervasive carb.		Tr Py	239'	100				

Hole No. M1 39

Project: 1446

Page No: 5 Of 8

Casing Collar Elev.: Ground Elev.:

Date Started: 17/04/88

Ref. to Claim Corner:

Coordinates: NG 3+50.5 N. 3+50 E.

Date Finished: 18/04/88

Scale: 1"=10'

Inclination: -70° Bearing: 230°

Total Depth: 429' (130.7m)

Logged By: R.G.B.

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	Appl. Green Mica	Carbonate	Silicification												
240							241.8 GABBRO XENOLITH SHARP SHARP					8Q			
							238.5'-241.6' TONALITE cont...								
							241.6'-242.7' PORPHYRITIC FELDSPAR FELSIC INTRUSIVE				100				
							AS IN 236.0'-238.5'								
							242.7'-245.5' TONALITE			249'					
250							AS IN 134.5'-140.0'								
							245.5'-246.6' GABBRO				100				
							AS IN 149.0'-100.5'; ZONES OF FINER GRAINED GABBRO WITH WEAK PERVASIVE CARBONATE								
									Tr Py						
260									Tr Py						
							266.6'-269.2' TONALITE								
							AS IN 134.5'-140.0'			269'					
270							269.2'-272.8' GABBRO		Tr Py						
							AS IN 100.5'-104.9'; PLAG REPLACED BY CARBONATE				100				
							272.8'-281.0' TONALITE								
							AS IN 134.5'-140.0'; FEW GABBRO XENOLITHS, MINOR PATCHES YELLOWISH CARB.			279'					
280							280' GABBRO XENOLITH SHARP								
							281.0'-282.2' GABBRO				100				
							AS IN 100.5'-104.9'; ZONES OF MEDIUM GRAIN, BECOMING SHEARED LATE IN SECTION								
							282.2'-289.9' TONALITE								
							AS IN 134.5'-140.0'			289'					
							289.9'-294.4' GABBRO								
							AS IN 104.9'-119.0'; WEAKLY BRECCIATED, WEAK CARB FOR UNIT								
290							294.4'-301.9' TONALITE				100				
							AS IN 272.8'-281.0'			299'					

Hole No. ML 37

Project: 1446

Page No: 7 Of 8

Casing Collar Elev.: Ground Elev.:

Date Started: 17/04/88

Ref. to Claim Corner:

Coordinates: 3+50.5 N. 3+50 E.

Date Finished: 18/04/88

Scale: 1"=10'

Inclination: -70° Bearing: 230°

Total Depth: 429' (130.7 m)

Logged By: RGB

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	Apple Green Mica	Carbonate	Silicification												
360							361' SHEARING AT 65° TO CA SHARP QTE VEIN (1cm)	352.2' - 362.2' SHEARED GABBRO AS IN 348.4' - 350.0'	Tr - 1% Py			BQ	362.2'	5'	1833
							364.6' 2% FINE MAGNETITE SHARP	362.2' - 364.9' APPLE GREEN SHEARED GABBRO AS ABOVE. WITH ADDITION OF MODERATE APPLE GREEN MICA ALTERATION FEW NARROW (4cm) QTE VEINS, SERICITIC TO CHLORITIC, WEAK PATCHY SILICIFICATION, TRACE DISSEMINATED PYRITE, NARROW ZONE OF 3% MAGNET	Tr - 1% Py	100			364.9'	2.7'	1834
									2 - 3% Py				364.9'	0.4'	1835
370									2 - 3% Py	369'				5.9'	1836
									2 - 3% Py		100				
														6.6'	1837
										379'				4.6'	1838
380							SHARP SHARP	365.3' - 377.2' INTERMEDIATE INTRUSIVE AS IN 350.0' - 352.2'; SHEARED GABBRO XENOLITH AT 364.5' - 365.6'; XENOLITH SHOWS WEAK PERVASIVE CARBONATE AS PLAG ALTERATION	Tr - 1% Py				377.2'		
								377.2' - 381.8' SHEARED GABBRO FIRST 1' INTENSELY SHEARED, DEFORMATION DECREASING RAPIDLY THROUGH SECTION TO WELL FOLIATED, CHLORITIC, MED TO COARSE GRAINED GABBRO PERCUSOR						5'	1839
								381.8' - 389.7' PORPHYRY INT - FELSIC INTRUSIVE FINE GRAINED, DARK ORANGE GREY, 5% EUBEDRAL RANDOMLY ORIENTED (2-4mm) LIGHT GREENISH (EPIDOTIC) FELDSPAR PHENOCRYSTS, CARBONATE ALONG FRACTURES AND WEAK PATCHES, MINOR POTASSIC (Q) ASSOCIATED WITH NARROW SHEARS, TRACE PYRITE ALONG FRACTURES, ROCK AS A WHOLE VERY HARD	Tr - 1% Py	100			389.7'		
390							SHARP	389.7' - 392.6' BRECCIATED GABBRO AS IN 308.5' - 392.1' DECREASING DEFORMATION THROUGH THIS INTERVAL	Tr - 1% Py		100				
							GRADATIONAL	392.6' - 429.0' GABBRO AS IN 184.9' - 114.6'; MINOR FINE GREEN-YELLOW SILICIOUS VEINING							
400										399'					
											100				
410										429'					

↑
INCREASING
DEFORMATION

Hole No. ML 37

Project: 1446

Page No: 8 Of 8

Casing Collar Elev.: Ground Elev.:

Date Started: 17/04/88

Ref. to Claim Corner:

Coordinates: 31505 N. 3150 E.

Date Finished: 18/04/88

Scale: 1"=10'

Inclination: -70° Bearing: 230°

Total Depth: 429' (130.7 M)

Logged By: R.G.B.

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
420							DESCRIPTIVE GEOLOGY								
							392.6' - 429.0' GABBRO cont...		Tr Py		BQ				
430							DIP TEST -68° END OF HOLE			429					

Hole No. ML 38

Project: 1446

Page No: 1 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 19/04/88

Ref. to Claim Corner:-

Coordinates: N 3 + 56.5 N 4 + 53 E.

Date Finished: 21/04/88

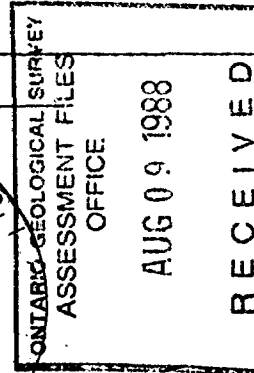
Scale: 1" = 10'

Inclination: -70 Bearing: 240

Total Depth: 509'

Logged By: K. HOOLE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS: SEE NOTE AT END OF LOG.*	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp.	Int. Estimated
	ADP	CHL	QUARTZ												
0							OVERBURDEN 0.0' - 27.7' (CASING REMAINS)								
10															
20															
30							BASALT 27.7' - 49.0' FINE GRAINED, DARK TO LIGHT GREY/GREEN, FELDSPAR PHYRIC, SUBHEDRAL TO EUMEDIAL LATH LITH (15-20%) PERVASIVE HOURLINE AND RECY SILICA FRACTURE AS WELL AS OCCASIONAL CARB AND CARB/SILICA FRACTURES. TR-1% PY FINELY DISSEMINATED AND AS FINE FRACTURE FILLED AGGREGATES.								
40							SMALL DISCRETE FELSIC WITH RE-CARB AND DISSEMINATED MAGNETITE CARB INCREASE SHARP CONTACT								
50							PORPHYRITIC FELDSPAR, FELSIC INTRUSIVE 49.0' - 53.2' FINE GRAINED TO APHANTIC, DARK GRAY TO BLACK, HARD MATRIX, SILICIFIED, BASALT XENOLITHS, ANHEDRAL TO SUBHEDRAL PORPHYRITIC FELDSPAR 2-5%, SHARP CONTACTS, MOD CARB RYAN AN FRACTURES. TR-2% PY DISSEMINATED.								
							BASALT 53.2' - 57.1' SAME AS 27.7' - 49.0'								
							FELSIC INTRUSIVE 57.1' - 58.9' SIMILAR TO 49.0' - 53.2' NON PORPHYRITIC, NO XENOLITHS								



Hole No. ML 38

Project: 1446

Page No: 2 of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 19/04/88

Ref. to Claim Corner:

Coordinates: 3+56 S N. 4+53 E.

Date Finished: 21/04/88

Scale: 1" = 10'

Inclination: -70 Bearing: 240°

Total Depth: 509'

Logged By: K. Houle

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
60							<u>BRECCIATED BASALT 58.9' - 66.8'</u> FINE GRAINED LIGHT TO MED GREEN/GRY SLIGHTLY FOLIATED FRAGMENTS OF BASALT IN A 20% CARB MATRIX. PROGRESSIVELY BECOMING MORE SHEARED TR-1% DISSEMINATED PY		TR-1% PY		100%	BQ			
70							<u>SHEARED BASALT 66.8' - 74.6'</u> FINE GRAINED, DARK GREEN/GRY. HIGHLY SHEARED WITH LAYERS OF ORIENTED CARB. SHEETS. THERE ARE SMALL FOLDED CARB. FRAGMENTS 11 TO 14 (50%) TR-2% PY BETWEEN BASALT/SERICITE LAYERS		TR-2% PY	69'	100%				
80							<u>BRECCIATED BASALT 74.6' - 83.3'</u> SAME AS 58.9' - 66.8'		TR-1% PY	79'	100%				
90							<u>SHEARED BASALT 83.3' - 89.0'</u> SAME AS 66.8' - 74.6' BUT MORE DISSEMINATED TR-1% PY		TR-1% PY	89'	100%				
100							<u>BRECCIATED BASALT 89.0' - 90.1'</u> FINE GRAINED, DARK GREEN/GRY TO BLACK WITH INTERBEDDING 2" HARD INTRUSIVE WITH BASALT SHARP CONTACTS. TR-1% PY		TR-1% PY	99'	100%				
110							<u>BRECCIATED BASALT 90.1' - 106.8'</u> SAME AS 58.9' - 66.8'		TR-1% PY	109'	100%				
							<u>GABBRO 106.8' - 136.8'</u> FINE MED GRAINED, MED GRAY TO MED GRAY/GREEN SLIGHTLY SHEARED. OVER FIRST FOOT MED CARB. REACTION THROUGHOUT. SIGNIFIED THROUGH FINE HAIRLINE FRACTURES. CARB FRACTURES THROUGHOUT. TR-1% PY		TR-1% PY	119'	100%				
							<u>114.0' - 136.8' MED GRAINED</u>								

Inclination: -70° Bearing: 245°

Total Depth: 509'

Logged By: K. Houle

SECTION	ALTERATION			MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
	ADOLPHUS AREA	CARBONATE	SILICA										
120						GABBRO 106.8' - 136.8'				BQ			
130						CONT'D			100%				
140						GRADATIONAL PRECIPIATED GABBRO 136.8' - 142.9'			100%				
150						FINE TO MED GRAINED, LIGHT TO DARK GREEN GREY, SLIGHTLY FOLIATED FRAGMENTS GABBRO IN A 15-20% CARB MATRIX, ANGULAR TO SUBANGULAR CRYSTALS, GLASS SUPPORTED IN FINE MATRIX. GABRO BECOMING SLIGHTLY CHLORITIC WITH A PERVASIVE FINE SEMIOTIC PLAGIOCLASE. TR-15% PY			100%				
160						INTERMEDIATE GABBRO 142.9' - 145.0'			100%				
170						FINE GRAINED BROWNISH-DARK GREY MASSIVE, LOW VARIABLELY SHARP VESICULARITY, SOME SMALL PLAGIOCLASE FOLIATED THROUGH SPHERULES. TR-15% PY PY			100%				
180						GABBRO 145.2' - 160.4'			100%				
190						COARSE GRAINED, MOTTLED DARK GREY/GREEN - WHITE .60% SUBHEDRAL TO EUBEDRAL FELDSPAR. MINOR CARB ON HAIRLINE FRACTURES, SMALL ZONES GRADING ANORTHOSITE GABBRO PORPHYRY. TR-15% PY			100%				
200						SHARP PORPHYRITIC GABBRO 160.4' - 181.3'			100%				
210						FINE GRAINED, MED GREY. MASSIVE. 1-5% EUBEDRAL TO SUBHEDRAL PLAG. 1-3 MM. LOW PERVASIVE CARBONATE KYN THROUGHOUT. OCCASIONAL CARB, SiO ₂ AND CARB/SiO ₂ VEINS. TR-15% DISSEMINATED FINE EUBEDRAL PY			100%				
220						RTZ VEIN 6 CM DIPTEST 169' CORR < 66.5'			100%				

Hole No. ML 38

Project: 1446

Page No: 4 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 19/04/88

Ref. to Claim Corner:

Coordinates: 3756 S N: 4753 E.

Date Finished: 21/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K. Howell

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y	Samp. Int.	Esti- mated
	APPLE GREEN MICA	GABBRU-LIKE	SILICA													
180							SHARP SHARP		TR-1%			BQ				
190							INTERMEDIATE INTRUSIVE 181.3'-183.1' ZONE OF FINE GRAINED, MED GRAINED, SLIGHTLY BRICCIATED MAG. OF MED GRAINED, SLIGHTLY BRICCIATED, LOW PERSISIVE GABBRU. AN INTERMEDIATE ALTERATION, ALL GABBRU SHARP, PERSISIVE, LOW, TR-1% PY, PERSISIVE FRAGILE		181.3'	100%						
200							GABBRU 183.1'-185.6' FINE GRAINED, MED GRAINED, SLIGHTLY BRICCIATED MAG. OF MED GRAINED, SLIGHTLY BRICCIATED, LOW PERSISIVE GABBRU. PRESENCE OF PY ON FRACTURE PLANE AND TR-1% PERSISIVE, BRICCIATED		185.6'	100%						
210							60% FELSIC CA 30%		TR-1%							
220							FELSIC 210.0'-212.6' SAME AS 181.3'-183.1' EXCEPT <1% PHENOCRYSTS		212.6'	100%						
230							GABBRU 212.6'-254.0' SAME AS 181.3'-183.1' MED GRAINED, LOW, CA 30%		254.0'	100%						
							190.7'-197.2' MAG. OF MED GRAINED, SLIGHTLY BRICCIATED GABBRU. PRESENCE OF PY ON FRACTURE PLANE AND TR-1% PERSISIVE, BRICCIATED		197.2'	100%						
							200.7'-200.8' MAG. OF MED GRAINED, SLIGHTLY BRICCIATED GABBRU. PRESENCE OF PY ON FRACTURE PLANE AND TR-1% PERSISIVE, BRICCIATED		200.8'	100%						
									TR-1%							
									219'	100%						
									TR-1%							
									229'	100%						
									TR-1%							
									239'	100%						
									TR-1%							
									249'	100%						
									TR-1%							
									259'	100%						
									TR-1%							
									269'	100%						
									TR-1%							
									279'	100%						
									TR-1%							
									289'	100%						
									TR-1%							
									299'	100%						
									TR-1%							
									309'	100%						
									TR-1%							
									319'	100%						
									TR-1%							
									329'	100%						
									TR-1%							
									339'	100%						
									TR-1%							
									349'	100%						
									TR-1%							
									359'	100%						
									TR-1%							
									369'	100%						
									TR-1%							
									379'	100%						
									TR-1%							
									389'	100%						
									TR-1%							
									399'	100%						
									TR-1%							
									409'	100%						
									TR-1%							
									419'	100%						
									TR-1%							
									429'	100%						
									TR-1%							
									439'	100%						
									TR-1%							
									449'	100%						
									TR-1%							
									459'	100%						
									TR-1%							
									469'	100%						
									TR-1%							
									479'	100%						
									TR-1%							
									489'	100%						
									TR-1%							
									499'	100%						
									TR-1%							
									509'	100%						
									TR-1%							

Hole No. ML 38

Project: 1446

Page No: 5 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 19/04/88

Ref. to Claim Corner:

Coordinates: 3+56 S N. 4+53 E.

Date Finished: 21/04/88

Scale: 1" = 10'

Inclination: -76 Bearing: 240°

Total Depth: 509'

Logged By: K. HOULE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	OPPLE GREEN MICA	CARBONATE	SILICA											
240							GABBRO 187.6' - 254.0' CONT'D		TR-1% R	100%	BQ			
250							INTERMEDIATE INTRUSIVE 254.0' - 255.5' SAME AS 121.3' - 123.1'		↓ 249					
									↓ 1% R	100%				
260							TONALITE 255.5' - 256.2' FINE TO MED GRAINED, LIGHT SPECKLED GREY/WHITE 45% FINE MAFIC, SUBORDINATE TO CUMULOPH. QUARTZ, FELDSPAR, NO CARBONATE, PATCHY SILICIFICATION, LOW TO MOD. CARB. RXN. TR-R, PY. AS WELL AS FRACTURE CEINITE.		TR-1% R ↓ 259					
									TR-1% R	100%				
270							POPHYRITIC GABBRO 256.2' - 257.0' FINE GRAINED, LIGHT SPECKLED GREY/WHITE FELDSPAR, QUARTZ, CUMULOPH. AS WELL AS LOW FINE MAFIC, CARB. RXN. AS WELL AS IN MED. SHAPE, VETUS, AND FRACTURE TR-TR, PY		↓ 259					
									↓ 1% R	100%				
280							270.0' - 283.2' PROGRESSIVELY MORE INTENSELY MAFFIC CARB. FRACTURE AND PATCHY NET LIKE SILICIFICATION		↓ 279					
									TR-1% R	100%				
290							POPHYRITIC FELDSPAR, FELSIC INTRUSIVE 283.2' - 287.6' SAME AS 49.0 - 63.2' NO XENOLITHS, LOW PERVASIVE CARB., TR-2% PY		↓ 289					
									TR-1% PY	100%				
							GABBRO 287.6' - 296.2' COARSE GRAINED BECOMING PROGRESSIVELY FINER, GREEN/GRAY TO BLUE GRAY, MASSIVE BECOMING SLIGHTLY FOLIATED AND BRECCIATED, LOW TO MOD. CARB. RXN. ALONG FRACTURES VEINS, TR-1% PY		↓ 299					
							BRECCIATED GABBRO 296.2' - 304.5' (OVER)			100%		293.6 294.4	.8'	
									↓ 299					

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K. HOULE

[illegible]

Hole No. ML 38

Project: 1446

Page No: 7 of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 19/04/88

Ref. to Claim Corner:-

Coordinates: 3+56 S N. 4+53 E.

Date Finished: 21/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K. Houlf

[illegible]

Hole No. ML 38

Project: 1446

Page No: 8 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 19/04/88

Ref. to Claim Corner:

Coordinates: 3+56 S N. 4+53 E.

Date Finished: 21/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K MOOLE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
430							ZONE OF PY 50% SILICA GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>BRECCIATED GABRO 431.5' - 431.7'</u>	TR-3%						
430							GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>SHEARED GABRO 431.7' - 444.2</u> GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>ALTERED ZONE "B"</u> 431.7 - 444.2	TR-3%	100%			1347	1347	
440							GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>BRECCIATED GABRO 444.2 - 459.0</u> GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>ALTERED ZONE "B"</u> 444.2 - 459.0	TR-3%	100%			1347	1347	
450							GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>BRECCIATED GABRO 459.0 - 464.0</u> GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>ALTERED ZONE "B"</u> 459.0 - 464.0	TR-3%	100%			1347	1347	
460							GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>BRECCIATED GABRO 464.0 - 479.6</u> GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>ALTERED ZONE "B"</u> 464.0 - 479.6	TR-3%	100%			1347	1347	
470							GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>BRECCIATED GABRO 479.6 - 499.6</u> GREY TO MED GREEN, LIGHT GREEN, GREY GABRO, FROTHED AND SHEARED, WITH 5-10% CARB. RYN. CONCENTRATED, 5-10% CARB. MATRIX TR-3% PY <u>ALTERED ZONE "B"</u> 479.6 - 499.6	TR-3%	100%			1347	1347	

Hole No. ML 38

Project: 1446

Page No: 9 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 19/04/88

Ref. to Claim Corner:

Coordinates: 3756 S N. 4753 E.

Date Finished: 21/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K. HOULE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	Sulphides %	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
490							GABBR0 464.0' - 499.6'								
							CONT'D								
480										484'					
500							ANORTHOSITIC GABBR0 PORPHYRY 499.6' - 509.2'			499'					
							COURSE GRAINED, MOTTLED WHITE GREEN, & DARK TAN BASIC GABBRO, IS ALTERED IN PART TO MICROCRISTALLINE, LIGHT GREEN, & TAN GABBRO, WITH A WEAK, BUT DISTINCT FOLIATION.								
510							THE TEST 509'								
							CONT'D								
							* THE TWO ZONES OF SHEARED GABBR0; ONE AT 399.6' - 411.5' (A), THE OTHER AT 431.7' - 444.2' (B) ARE NOT THE TYPICAL ALTERED ZONE DEVELOPMENT. THE FIRST ZONE IS HIGHLY SERICITIZED AND SHEARED, WHEREAS, THE SECOND ZONE IS ONLY MODERATELY SHEARED, WITH LOW TO MODERATE SERICITIZATION. THESE TWO UNITS SEEM TO INDICATE THAT WE HAVE REACHED A BIFURCATING FRINGE OF THE MUCH LARGER ALTERED ZONE DEVELOPMENT AS SEEN IN PREVIOUS HOLES.								

Hole No. ML 39

Project: 1446

Page No: 1 Of 7

Casing Collar Elev.: Ground Elev.:

Date Started: 21/04/88

Ref. to Claim Corner:

Coordinates: N 37985 N. 3751 E.

Date Finished: 22/04/88

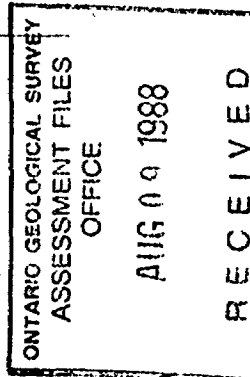
Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 399'

Logged By: K HOULE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
0							OVERBURDEN 0.0' - 50.0' (CASING REMAINS)								
10															
20															
30															
40															
50							GABBRO 50.0' - 59.8' MED. GRAINED, LIGHT GREEN/GREY TO GREY, MASSIVE. HIGHLY FRACTURED W/ CHLORITIC AND SERICITIC ALTERATION. REPLACEMENT OF FELDSPARS BY CARB OVERPRINT. LOW PERVASIVE CARB. RXN. FELDSPAR IS SUBHEDRAL TO ANHEDRAL. 1-4MM X'LS TR-1% PY	TR-1% Py		95%	BQ				



Hole No. ML 39

Project: 1446

Page No: 2 Of 7

Casing Collar Elev.: Ground Elev.:

Date Started: 21/04/88

Ref. to Claim Corner:

Coordinates: 34985 N. 3451 E.

Date Finished: 22/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 399'

Logged By: K HOU LI

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp.	Int.	Esti- mated
	SP. OPEN MIN.	CARBONATE	SILICA													
60							OBSCURED - GARNET.									
							<u>BRECCIATED GABRO 59.8' - 73.8'</u> FINE TO MED GRAINED, LIGHT TO MED GREEN/GRAY BLUE/GRAY, MASSIVE TO WEAKLY FOLIATED FRAGMENTS IN MOUNTAINOUS CLAY, SUPPORTED MATRIX, LOW CHLORITIC AND SPINIC ALTERATION TR-19% PY		TR-19% Py	68'	95%	BQ				
70							SHARP SHARP		TR-19% Py		100%					
80							<u>GABRO 73.8' - 77.0'</u> SAME AS 50.0' - 59.8'									
							<u>TONALITE 77.0' - 93.6'</u> FINE TO MED GRAINED, LIGHT TO MED GREEN/GRAY, MASSIVE, SUBHEDRAL TO ELLIPSED, LATHING, PERVASIVE FOR CARB RYN AND PATCHY, NOT LIKE SILICIFICATION, SOME HIGHLY FRACTURED AREAS WITH CHLORITIC ALTERATION TR-19% DISSEMINATED PY.		TR-19% Py	79'	100%					
90							SHARP		TR-19% Py	84'	100%					
100							<u>BASALT 93.6' - 106.6'</u> FINE GRAINED, DARK TO LIGHT GREY/GREEN, FELDSPAR PHYRIC, SUBHEDRAL TO ELLIPSED LATHING, PERVASIVE FOR CARB RYN AND PATCHY, NOT LIKE SILICIFICATION, SOME HIGHLY FRACTURED AREAS WITH CHLORITIC ALTERATION TR-19% DISSEMINATED PY.		TR-19% Py	99'	100%					
110							SHARP		TR-19% Py	109'	100%					
							CARB REPLACEMENT OF FELDSPAR		TR-19% Py	119'	100%					
							QTZ VEIN BOUNDED BY CHLORITIC GABRO ~30% PY		TR-19% Py							

Hole No. ML 39

Project: 1446

Page No: 3 Of 7

Casing Collar Elev.: Ground Elev.:

Date Started: 21/04/88

Ref. to Claim Corner:

Coordinates: 3+98 S N. 3+51 E.

Date Finished: 22/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 399'

Logged By: K. HOULE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	OPEN SPACE	CHALCOPRITE	SULFUR												
120							<u>GABBRO 119.3' - 125.0'</u> FINE GRAINED, MED. GRAY/GREEN, MASSIVE, CARB. SILENT FRACTURES ONLY. 10% CARB. RYM. CARB. RYM. ONLY. DIP 75° N. 121° E. - 125.0' MED. COARSE GRAINED MASSIVE, FINE GRAIN, 5% CARB. RYM. ONLY. TR-1% CARB. TR-1%.		TR-1% R ₁			BQ			
130							<u>TONALITE 125.0' - 127.3'</u> MED. GRAINED, 5% SHL. GRAY, SUBSILTY, 10% CARB. RYM. ONLY. DIP 75° N. 121° E. - 127.3' 5% FINE MAFIC CARB. RYM. ONLY. HAIRLINE FRACTURES ONLY. TR-1% R ₁ P ₁ P ₂		TR-1% R ₁ R ₂ R ₃	129'					
140							<u>GABBRO 127.3' - 136.9'</u> MED. GRAINED, MED. GREEN/GRAY, 7% BLUE/GRAY, 10% CARB. RYM. ONLY. DIP 75° N. 121° E. - 136.9' 5% FINE MAFIC CARB. RYM. ONLY. HAIRLINE FRACTURES ONLY. TR-1% R ₁ P ₁ P ₂		TR-1% R ₁ R ₂ R ₃	139'					
150							<u>TONALITE 136.9' - 143.2'</u> SAME AS 127.3' - 136.9' TR-1% R ₁ P ₁ P ₂ C ₁		TR-1% R ₁ R ₂ R ₃	149'	100%				
							<u>BRECCIATED GABBRO 143.2' - 145.2'</u> SAME AS 127.3' - 136.9'		TR-1% R ₁ R ₂ R ₃	159'	100%				
160							<u>GABBRO 145.2' - 160.3'</u> SAME AS 127.3' - 136.9'		TR-1% R ₁ R ₂ R ₃	159'	100%				
170							WEAKLY DEVELOPED FRACTURES SHALL SMOOTHER, WITH SERICITE AND CHALCOPRITE ALTERATION DIP 75° N. 169' CORR 67° TONALITE DYKE.		TR-1% R ₁ R ₂ R ₃	169'	100%				
									TR-1% R ₁ R ₂ R ₃	179'	100%				

Hole No. ML 39

Project: 1446

Page No: 4 Of 7

Casing Collar Elev.: Ground Elev.:

Date Started: 21/04/88

Ref. to Claim Corner:

Coordinates: 3+98 S N. 3+51 E.

Date Finished: 22/04/88

Scale: 1"=10'

Inclination: -70° Bearing: 240°

Total Depth: 399'

Logged By: K. HOULE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	DEEP TROPIC MICA	CHLORITIC	SILICA												
180							<u>GABBRO 145.2' - 200.3' CONT'D</u>		TR-1% Py Po			BQ			
190							<u>185.0' - 194.6'</u> FINE GRAINED, MASSIVE VERY HARD, BROWN SILICIFICATION THROUGH ROCKY 5-8 CM VES SILICA IS BEING REPLACED BY CARBONATE VEINS. LOW CARB RYM EXCEPT ON CLUSTERS HAIRLINE FRACTURES		TR-1% Py Po	190'	100%				
200							SHERD 10 CM MASSIVE PEGMATITE SILICA 5%			199'	100%				
210							<u>PEROVSKITE FELDSPAR - FELSIC INTRUSIVE 200.3' - 205.1'</u> FINE GRAINED TO FINEGRANULAR, DARK GREY TO BLACK, HARD MATRIX. FELDSPAR - BLENDED PEGMATITE 2-4 CM VES. 1-2 CM VES. 1-2 CM VES. 1-2 CM VES.		TR-1% Py Po	209'	100%				
220							<u>GABBRO 205.1' - 206.5'</u> SAME AS 127.3 - 136.9'		TR-1% Py Po		100%				
							<u>TOTALITE 206.5' - 209.5'</u> SAME AS 77.0 - 93.0' WITH XENOLITHS OF SURROUNDING GABBRO			219'	100%				
							<u>GABBRO 209.5' - 264.8'</u> SAME AS 127.3 - 136.9' TR-1% Py Po		TR-1% Py Po		100%				
							-ZONE MASSIVE PO 2-5 CM. OVER 3 CM.			229'					
							HIGHLY CONSOLIDATED ZONE OF GABBRO REPLACED SILICIFICATION IN A PEGMATITE SILICA VEIN.		TR-1% Py Po		100%				
230							ZONE OF SILICIFIED FELDSPAR 3 CM.			239'					

Hole No. ML 39

Project: 1446

Page No: 5 Of 7

Casing Collar Elev.: Ground Elev.:

Date Started: 21/04/88

Ref. to Claim Corner:

Coordinates: 3+98 S N. 3+51 E.

Date Finished: 22/04/88

Scale: 1"=10'

Inclination: -70° Bearing: 240°

Total Depth: 399'

Logged By: K. HOULE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	APPROXIMATE CLAY MINERAL	CHLORITIC ALTERATION	SILICA												
240							139.8' - 149.3' FINE GRAINED MED. BLUE/GRAY-GREEN FAC APPEARANCE OF BEING SPATTERED, ANGULAR GABBRO FRAGMENTS IN A DUNEY MATRIX. CONTACT OF MED LIKE SILEXIFICATION TO SOME DEGREE. VERY HARD PO 2-5% FINE GRAINED GABBRO.		2-3%		100%	BQ			
250							254.7' - 256.4' SAME AS 139.8' - 149.3'		TX-22 F _c TX-PY		100%				
260									TR-M ₁ P ₁ F ₁		100%				
270							PRECIPITATED SHEARED 262.8' - 263.3' MED FINE GRAINED, DARK GRAY GREEN, GABBRO FRAGMENTS BECOMING FINE GRAINED AND FREQUENTLY DISSEMINATED. CLASTS SEPARATED IN A 10-20% CARB. MATRIX. TR-15% F ₁ P ₁		TR-M ₁ P ₁ F ₁		100%				
280							SHEARED GABBRO 283.3' - 292.7' FINE GRAINED, DARK GRAY TO GRAY GREEN. MODERATELY SHEARED AND AT TIMES SLIGHTLY BRECCIATED, LOW PERVASIVE CARB, LOW CHLORITIC AND SERICITIC ALTERATION. 2-3% FINELY DISSEMINATED PY.		TR-M ₁ P ₁ F ₁		100%				
290							PRECIPITATED / SHEARED GABBRO 292.7' - 301.3' FINE GRAINED, DARK GRAY TO GRAY GREEN. SHEARED GABBRO FRAGMENTS IN A 20% CARB MATRIX. FEW ZONES LACKING BRECCIATION BUT HIGHLY SHEARED. INCREASE IN DEGREE OF SERICITATION AND SCLERITIS. ALTERATION 2-3% PY.		TR-M ₁ P ₁ F ₁		100%				
									TR-M ₁ P ₁ F ₁		100%	1856 5.5'	2960		

Inclination: -70° Bearing: 240°

Total Depth: 399'

Logged By: K. Houle

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA	CLAY											
300							ALTERED ZONE 301.9-334.1							
310							DECEASED ZONE 301.9-334.1							
320							SHEARED GABBRO 301.5' - 334.1' FINE GRAINED, MEDIUM GRAY TO LIGHT GRAY/GREEN HIGHLY SHEARED, HIGH DEGREE OF SERPENTINIZATION BECOMING LESS DENSE TO LIGHT GRAY/GREEN LOCAL HOLES, FINE GRAINED GABBRO REVEALS NO OCCASIONAL SMALL CARBONATE VEINS TR-5% PY DISSEMINATES AND SMALL REELS							
330							SHEAR ZONE 301.5-334.1							
340							ALTERED ZONE ENDS BRECCIATED GABBRO 334.1' - 342.7' FINE GRAINED, LIGHT GREEN/GRAY TO BLUE/GRAY, SLIGHTLY SHEARED GABBRO IN A 15-20% CARB MATRIX. ANGULAR TO SUBANGULAR CLASTS SUPPORTED. OCCASIONAL CARB/SILICA FRACTURE. TR-1% PY							
350							GRADATIONAL ANORTHOSITIC GABBRO PORPHYRY 342.7-359.8' MED-COARSE GRAINED, WHITE TO GREENISH WHITE, I.G. CUBEDRAL TO SUBHEDRAL FELDSPAR X'LS > 70% < 1-5% FINE GRAINED MATRIX. OCCASIONAL SMALL SHEAR ZONES. PERVASIVE APPLE GREEN NICA ALTERATION ON FRACTURE PLANS AND BETWEEN LARGE FELDSPAR GRAINS, CARB RXN ONLY ON SMALL HAIRLINE FRACTURES. TR-1% PY							
							SHEARED CONTACT WITH G&M							

Hole No. ML 39

Project: 1446

Page No: 7 Of 7

Casing Collar Elev.: Ground Elev.:

Date Started: 21/04/88

Ref. to Claim Corner:

Coordinates: 3498 S .N. 3451 E.

Date Finished: 22/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 399'

Logged By: K. HOWLE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
360							INTERMEDIATE IMPURE 359.3' - 365.3'		10-15%			BQ			
							FINE GRAINED, DARK GREY - BLACK, FINE-GRANULAR SILICATE, DARK, INTERMEDIATE, WITH SOME SHEARED LOWER CONTACT, SLIP, BUT, INTERMEDIATE, 359.3' - 365.3'			369'	100%				
370							GABBRO 365.3' - 399.0'		10-15%						
							FINE TO MED GRAINED, LIGHT GREEN, SILICATE, INTERMEDIATE GREY, FINE-GRANULAR, SLIP, BUT, INTERMEDIATE, 365.3' - 399.0'			379'	100%				
380									10-15%						
										389'	100%				
390									10-15%						
										394'	100%				
400							DIP TEST 394' END OF HOLE 399.0'			399'					
							CORR C7'								

Hole No. ML 40

Project: 1446 McVICAR L.

Page No: 1 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started:

Ref. to Claim Corner:

Coordinates: N 4105 E.

Date Finished: APRIL 25/88

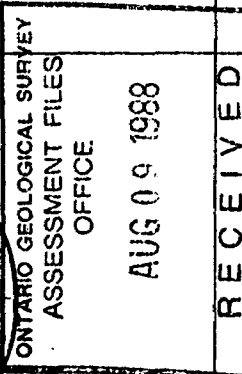
Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 489'

Logged By: IAA

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	ABOVE COLLAR	CHLORITIC	SILICA												
0							DESCRIPTIVE GEOLOGY								
10							OVERLOOKED 0.0 - 30.2' (Casing Remains)								
20							GABBRO 20.2 - 36.2 MEDIUM GRAINED, LIGHT GREEN-GRAY, MASSIVE TO WHELY SOLIDIFIED. MODERATELY FRACTURED. FREQUENT EVIDENCE OF CHLORITIC ALTERATION. OCCASIONAL 3-7mm CHLORITIC VEINING.								
30							CHLORITIC BRECCIATION								
40							SHARP, 9V								
50							SHARP, 9V.								
							TONALITE CONTACT 44' CA								
							GABBRO 36.2 - 40.2 FINE GRAINED, MEDIUM GREEN-GRAY, MASSIVE. 3-5mm QUARTZ VEIN @ UPPER AND LOWER CONTACTS WITH GABBRO. VERY DISTORTED AND ALTERED AT UPPER CONTACT.								
							GABBRO 40.2 - 44' SIMILAR TO 20.2 - 36.2 BUT MORE SECICITE, CHLORITIC ALTERATION								
							SILICIFIED GABBRO 44.0 - 49.0 PALE YELLOW COLOUR - MAY BE FELTIC INTRUSIVE WITH HALO OF SILICIFICATION. GABBRO REMNANTS IN FIRST 8', THEN DISAPPEAR. FINE GRAINED. MODERATE-INTENSIVE CARB.								
							GABBRO 49.0 - 55.1 SAME AS 40.2 - 44'								
							TONALITE 55.1 - 66.3' SAME AS 36.2-40.2 BUT HAS ZONE OF MOD-INTENSIVE FRACTURING/BRECCIATION AT CONTACTS, AGAIN W/ CR-CARB VEIN DEVELOPMENT. LOWER CONTACT GRADATIONAL TO SILICIF. GABBRO.								



Hole No. ML 40

Project:

Page No: 3 of 9

Casing Collar Elev.:

Ground Elev.:

Date Started:

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished:

Scale:

Inclination:

Bearing:

Total Depth:

Logged By: IAA

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
120															
125															
130															
135															
140															
145															
150															
155															
160															
165															
170															

Hole No. ML 40

Project:

Page No: 4 of 9

Casing Collar Elev.:

Ground Elev.:

Date Started:

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished:

Scale:

Inclination:

Bearing:

Total Depth:

Logged By: JAA

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
180							TONALITE 136.7' - 189.2'								
190							SHARP - GABBRO			189'	98%				
							BASALT 189.2' - 195.3'			195'					
							IS RESEMBLING PREVIOUSLY, HAS SCATTERED GABBRO AND TONALITE INCLUSIONS, 2-3% FINELY DISSEMINATED BY			195'					
200							TONALITE 195.3' - 212.5'			197'					
							SAME AS 136.7 - 189.2' BUT HAS 10-15% GABBRO + BASALT AUTOLITHS.			197'					
							GABBRO								
							FACIL								
210							SHARP CA: 75°								
							SHARP CA: 52°								
							TONALITE								
							SHARP								
220							COARSE GABBRO			219'					
							COARSE GABBRO								
							TONALITE								
230							GRADATIONAL			229'					
							COARSE GRAINED GABBRO 233.6 - 240'								
							MEDIUM TO DARK GREEN, MASSIVE, COARSE GRAINED UNIT. AV. GRAIN SIZE IS 3mm IN A RANGE OF 5 TO 10 mm. THE ROCK IS 20-30% COARSE			239'	100%				

Hole No. ML 40

Project:

Page No: 5 of 9

Casing Collar Elev.:

Ground Elev.:

Date Started:

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished:

Scale:

Inclination:

Bearing:

Total Depth:

Logged By: TAA

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
240						GRABATIONAL	COARSE GRAINED GABBRO 237.6-240.0'	TR-10% P, B		100%				
250							GABBRO 240.0-255.8'		249					
							MEDIUM GREEN, FINE TO MEDIUM GRAINED, MASSIVE GABBRO. FELDSPAR INITIALLY COMPOSES 10-15% OF THE UNIT, INCREASING TO 20-60% BY THE MIDDLE, THEN DECREASING TO 15-20% BY THE END. CARBONATE ALTHOUGH PATCHY AND WEAK, SCATTERED FINE QZ-CARB STRINGERS HEALING FRACTURES			100%				
260						SHARP, IRREGULAR	FELDSPAR PORPHYRYTIC FELSP. INTRUSIVE 255.8-261.4'	TR- MINOR P, B	259					
						SHARP, CA=63°	SAME AS 116.8-128.5'. HAS 1-2 mm CHILLER MARGIN @ LOWER CONTACT.							
270							GABBRO 261.4-271.4'	TR- MINOR P, B		100%				
							MEDIUM GRAY-GREEN, GENERALLY FINE GRAINED MASSIVE GBBR. TONALITE INCLUSIONS PRESENT. MODERATE TO INTENSE FELDSPAR CALD. ACTING. SCATTERED 1-5 mm QZ, OFTEN ALONE, WITH TONALITE INCL.							
280						GRABATIONAL	SHEARED, BRECCIATED GABBRO(?) 271.4-279'	TR-30% PY		100%				
						GRABATIONAL	COARSELY BRECCIATED BY 3-10 mm CB-QZ VING. CARB CONFINED TO VENS. VERY FINE GRAINED UNIT. MEDIUM BLUE-GREEN TO LIGHT GREY. 2-3% PY, LOCALLY 4-6%. 2-3% MILKY TO GLASSY QV. SHEARING VARIES FROM INTENSE TO APPARENTLY ABSENT. SHEARED AREAS RICH IN CHLORITE.		279					
290							GABBRO 279'-289.2'	TR- MINOR P, B		100%				
							FINE TO MEDIUM GRAINED, MEDIUM GRAY-GREEN, MASSIVE UNIT. FELDSPAR COMPOSES UP TO 40% OF THE ROCK LOCALLY. OCCASIONAL PORE TO 3 cm. SCATTERED NARROW FINE GRAINED ZONES THROUGH THE UNIT. WEAK, PATCHY CARB ACTING. 1-2% FELDSPAR VEINLETS THROUGHOUT.		289					
										100%				
									299					

Hole No. ML 40

Project:

Page No: 6 Of 9

Casing Collar Elev.:

Ground Elev.:

Date Started:

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished:

Scale:

Inclination:

Bearing:

Total Depth:

Logged By: JAA

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp.	Int.	Esti- mated
	GREEN ANGLE	CARBONATE	SILICA													
300							GABBR0 279'-329.2'									
							279' SHARP CA=50° FELDSPAR PHENOS. 10-15% 0.1-4 mm QZ-CB AND FS STRINGERS 325.5' SHARP CA=45°				100%					
310										309'						
											100%					
320										319'						
											100%					
330							SHARP CA=30°			329'						
							GRADATIONAL				99%					
340							2-3% SILICA			339'						
							GRADATIONAL				100%		343.3	100	1866	
350							SHEARING INCL. CA=56°			349'			344.3	100	1867	
							GRADATIONAL				95%		348.3	100	1868	
							CA=61°						352.6	100	1869	
							2cm qv						354.6	100	1870	
							DIPBIT CORRECTED 65° SHARP BUT RISK RUBBY, BLENDED			359'			356.6	100	1871	
							ALTERED ZONE 352.6-416.6						359.1	75	1871	
							CONTACT GRADATIONAL - TAKEN WHERE FOLIATION BECOMES INTENSE AND SERICITE BEGINS TO INCREASE.									
							352.6-359.1 SHEARED GABBR0.									

Hole No. ML40

Project:

Page No: 7 Of 9

Casing Collar Elev.:

Ground Elev.:

Date Started:

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished:

Scale:

Inclination:

Bearing:

Total Depth:

Logged By: IAA

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	GREEN MICA	CARBONATE	SILICA												
360							ALTERED ZONE 352.6 - 416.6 (CONT'D)								
							SHARPEST COIL VERT FRACTURE								
							352.6-359.1 SHEARED GABBRO								
							INTENSE SHEARED GABBRO - CHLORITE TINT. HAS SCATT. WHISK APPLE GREEN. 2-5% P.P. MINOR AS. 1-3% LITH. FRAGS. LOCALY BRECCIATED. CARB. CONFINED TO QTZ CR. STAINING. 4-6% QU. @ 356-4'.			80%					
							359.1-362.1 QUARTZ								
							MASSIVE BULKY QU. WITH LITH. FRAGS. 1-3% WHISK YELLOW TO PLE. GREEN MINOR. MINOR P.P. IN AS. 8-12% LITH. FRAGS. THIS ZONE VERT. FRACT. VERT. FRACT. OF CORE LOSS.								
							362.1-382 SHEARED GABBRO								
							STRONGLY SHEARED GABBRO - LESS INTENSE THAN 352.6-359.1. 80% QZ FROM 362.2-366.2'. APPROX 1' OF CORE LOST BETWEEN 362.1 AND 365.2. 2-5% P.P. IN WALLS TO POUINS. CARB. MAINLY IN FINE STRAINERS. 766.2-767.2 HAS 7-10% P.P. 369.2-371.8-5-8% P.P. 10-15% QZ POUINS/VEINS.			77%					
							371.8-375.4 HAS 5-8% P.P. 2-5% QZ POUINS/VEINS. 375.4-379.2 HAS 5-8% P.P. 10-12% QZ POUINS/VEINS. 379.2-382.1 INCLUDES 2' OF INTENSIVE - SEE BELOW								
							SHARP CA-470								
							382-388.1 INTERMEDIATE INTRUSIVE								
							MASSIVE, FINE GRAINED, ORANGE GRAYED TO YELLOW GREEN UNIT. SIMILAR TO PREVIOUS TONALITES. FIRST 4-5' SOMEWHAT ALTERED - CARB. SERICITE			99%					
							388.2-392.2 FOLIATED INTRUSIVE								
							FOLIATED, DARK GR. INTERMEDIATE TO DARK INTRUSIVE. FEATURES WITH TR-1% P.P. WEAK PERVASIVE CARBONIZATION.								
							392.2-416.8' SHEARED GABBRO								
							SAME AS 362.1-382 BUT HAS MORE QUARTZ POUINS/VEINS AND MORE GREEN MICA.				99%				
							388.2-392.2 AS 362.1-382								
							392.2-392.1-75% QZ, 25% LITH. FRAGS. QZ BOLDING BRECCIATED BY LATER STRAINERS MODERATE PATCHY CARB., 5-7% P.P. MINOR WHISK APPLE GREEN.								
							392.1-395.4' SHEARED GABBRO W/ 5-8% APPLE GREEN, SERICITE. MOD-INT PATCHY CARB. ACT. TR-1% P.P.								
							395.4-396.8 - AS 392.2-392.1								
							396.8-399.7 - AS 392.1-395.4, 1-3% P.P., 8-10% APPLE GREEN, 5% QZ								
							399.7-401.8 - SHEARED GABBRO W/ 20-25% APPLE GREEN								
							401.8-407.8 - AS 392.1-395.4								
							407.8-408.8 - AS 392.2-392.1, MORE APPLE GREEN, 2-3% LITH. FRAGS								
							408.8-408.6 - AS 392.1-395.4								
							408.6-408 - AS 392.1-395.4								
							408-410.5 - SHEARED GABBRO AS 362.1-382.								
							410.5-415.2 - SHEARED GABBRO								
							415.2-416.6 - 90% QZ VEIN WITH 10% LITH. FRAGS, 3-4% P.P.								
							TONALITE 416.6-474.3								
							FINE GRAINED, MASSIVE, GRAY-GREEN TO YELLOW GREEN UNIT. SIMILAR TO PREVIOUS TONALITES. FIRST 4-5' SOMEWHAT ALTERED - CARB. SERICITE								

Hole No. ML 40

Project:

Page No: 8 of 9

Casing Collar Elev.:

Ground Elev.:

Date Started:

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished:

Scale:

Inclination:

Bearing:

Total Depth:

Logged By: JAA

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	Sulphides %	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CHLORITE	CARBONATE	SILICA												
470							TONALITE 416.6-474.3 ALTERATION: MEDIUM GRAY-GREEN AND YELLOW GREEN, OCCASIONAL COARSER TONES. MODERATE, PERVASIVE CARBONATE ALT'N.		TR-10, P, Pb			PQ			
480										429					
440										439					
450										449					
460										459					
470										469					
							SHARP CA=35°		TR-10, P, Pb						
							PORPHYRITIC, ANORTHOSITIC GABBRO 474.3-489 MASSIVE, COARSE GRAINED, GREEN-WHITE UNIT. MAGNETITE-RICH AS 0.1-1.5 mm CLOTS AND CRYSTALS INTERSTITIAL TO THE FELDSPAR GRAINS. FELDSPARS RANGE FROM 2-7 mm. WEAK, PERVASIVE CARB ALT'N			479					

Inclination:

N.

Bearing:

Ground Elev.:

Project:

Date Started:

Date Finished:

Total Depth:

Page No: 9 of 9

Ref. to Claim Corner:

Scale:

Logged By: I A A

[illegible]

Hole No. ML 41

Project: 1446

Page No: 1 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 25/04/88

Ref. to Claim Corner:

Coordinates: NG4400 S N. 4475 E.

Date Finished: 27/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K. HOULE

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATIC	SILICEA												
0														
10														
20														
30														
40														
50														

Hole No. ML 41

Project: 1446

Page No: 2 of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 25/04/88

Ref. to Claim Corner:

Coordinates: 400 S N: 4+75 E.

Date Finished: 27/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K. Hoult

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp.	Int.	Esti- mated
60						POPHYRITIC BASALT, 53.2' - 59.7' SAME AS 44.3' - 47.7'		TR-1% Py			BQ				
70						BASALT 59.7' - 61.2' FINE GRAINED, DARK GREY GREEN, MASSIVE BUT AT TIMES VERY SLIGHTLY FOLIATED. CONTACT SHARP. NO JASCOULAN, CARB FILLER FRACTURES. FEELS LIKE APHYRIC TR-1% Py		TR-1% Py	34'	100%					
80						GABBRO 61.2' - 73.6' MED GRAINED, LIGHT TO MED GREEN/GREY, MASSIVE TO WEAKLY FOLIATED, MILD CALORITIC ALTERATION. SMALL TO LARGE CARBONATE FILLED FRACTURES. MOST GRAIN BORDERS ARE DIFFUSE. TR-1% Py FINELY DISSEMINATED		TR-1% Py	19'	100%					
90						SILICIFIED GABBRO 73.6' - 90.6' MED GRAINED, LIGHT GREY, MASSIVE WITH SOME HAILING. TR-1% Py. CONTACT SHARP. NO JASCOULAN, CARB FILLER FRACTURES. FEELS LIKE APHYRIC TR-1% Py		TR-1% Py	19'	100%					
100						GABBRO 90.6' - 95.9' MEDIUM GRAINED, MED GREY GREEN, MASSIVE. HARD, SLIGHTLY SILICIFIED. FINE CROSS CUTTING QZ VEIN. LOW CARB EXCEPT ON HAILING FRACTURES TR-1% Py		TR-1% Py	99'	100%					
110						SILICIFIED GABBRO 95.9' - 100.8' FINE TO MED GRAINED, LIGHT GREY, MASSIVE VERY HARD. WEAK TO MODERATELY SILICIFIED. VARIABLE TEXTURE AT TIMES "GROSS" GABBROIC. NETWORK OF SILICA FRACTURING TR-1% FINELY DISSEMINATED Py		TR-1% Py	109'	100%					
						FELSIC INTRUSIVE 100.8' - 106.6' FINE GRAINED - APHANITIC, DARK GREY/BLACK. SHARP CONTACTS. HARD. TR-1% PO, Py. INCLUDES SECTION OF SILICIFIED GABBRO. CARB FILLER FRACTURES.		TR-1% Py Po	109'	100%					
						SILICIFIED GABBRO 106.6' - 130.8' LIGHT TO MED, LIGHT GREY. SAME AS 95.9' - 100.8' WITH WEAK TO INTENSIVE SILICIFICATION. TR-1% Py		TR-1% Py	119'	100%					

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K. Houle

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA												
120						SILICIFIED GABBRO 106.6'-130.8' CONT'D		TR-19 R ₁			BQ			
130						POPHYRITIC, FINE-GRANULAR, FELSIC GABBRO 130.8'-134.8' SILICIFIED TO PHTHOLITE, WITH SPINEL TRAPPIST. 10% SILICIFIED TO PHTHOLITE FELDSPAR LITH. LITH. CORE ENTER FRACTURES SHARP CONTACT. FINE TO COARSE AND DISSEMINATED TRAPPIST 12%		TR-19 R ₁	129'	100%				
140						BRECCIATED/SHEARED GABBRO 134.8'-144.7' FINE-GRANULAR, LIGHT GREEN TO MED GRAY, SLIGHTLY FRACTURED, SILICIFIED TO PHTHOLITE, 10% SILICIFIED TO PHTHOLITE, GABBRO LITH. LITH. CORE ENTER FRACTURES SHARP CONTACT. FINE TO COARSE AND DISSEMINATED TRAPPIST 12%		TR-19 R ₁	139'	100%				
150						GABBRO 144.7'-240.5' FINE-GRANULAR, MED GRAY, 10% SILICIFIED TO PHTHOLITE, 10% SILICIFIED TO PHTHOLITE, GABBRO LITH. LITH. CORE ENTER FRACTURES SHARP CONTACT. FINE TO COARSE AND DISSEMINATED TRAPPIST 12%		TR-19 R ₁	149'	100%				
160						LOW SILICIFICATION		TR-19 R ₁	159'	100%				
170						SILICIFIED DIP TEST CORR L 69° 169'		TR-19 R ₁	169'	100%				
						INTENSE SILICIFICATION PORPHYRITIC GABBRO CARB/SILICA VEINING		TR-19 R ₁	179'	100%				

Hole No. ML 41

Project: 1446

Page No: 4 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 25/04/88

Ref. to Claim Corner:

Coordinates: 4+00 S N: 4+75 E.

Date Finished: 27/04/88

Scale: 1"=10'

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K HOULE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
180							GABRIC 144.7' - 240.5'		TR-1%		B.G.			
							CARB.			100%				
190							181.0' - 240.5' GABRIC 144.7' - 240.5' INTERVAL		TR-1%					
							DRILLING INTERVAL			100%				
200									TR-1%					
										100%				
210									TR-1%					
										100%				
220							212' - 216.2' GABRIC 144.7' - 240.5' INTERVAL		TR-1%					
							GABRIC 144.7' - 240.5' INTERVAL			100%				
230							235.0' - 240.5' FELDSPAR BEING REPLACED BY CARB.		TR-1%					
							LOW TO MED PERVASIVE CARB.			100%				

Hole No. ML 4/1

Project: 1446

Page No: 5 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 25/04/82

Ref. to Claim Corner:

Coordinates: 4400 S N. 4475 E.

Date Finished: 27/04/82

Scale: 1"=10'

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K. Houle

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
240								INTERMEDIATE INTERL. LIME / TUMBLING 240.0' - 250.0'		TR-1%						
250								FINE TO MEDIUM GRAINED, LIGHT GREY TO WHITE / GREY LIME WITH RECENT STAINING USUALLY SCORING AND WITH INCREASED ANGLE OF TUMBLING. SOME DARK SPOTS. MOST LIME HAS BEEN DISSEMINATED BY FRACTURING. TR-1% LIME DISSEMINATED BY		TR-1%						
260								TOTALITE 250.0' - 272.2'		TR-1%						
270								FINE TO MEDIUM GRAINED, LIGHT GREY TO WHITE / GREY LIME WITH RECENT STAINING USUALLY SCORING AND WITH INCREASED ANGLE OF TUMBLING. SOME DARK SPOTS. MOST LIME HAS BEEN DISSEMINATED BY FRACTURING. TR-1% LIME DISSEMINATED BY		TR-1%						
280								BRECCIATED GABBRO 272.2' - 277.3'		TR-1%						
290								FINE GRAINED, MEDIUM TO DARK GREY / GREEN. LIME WITH RECENT STAINING USUALLY SCORING AND WITH INCREASED ANGLE OF TUMBLING. SOME DARK SPOTS. MOST LIME HAS BEEN DISSEMINATED BY FRACTURING. TR-1% LIME DISSEMINATED BY		TR-1%						
290								GABBRO 277.3' - 287.1'		TR-1%						
								FINE TO MEDIUM GRAINED, MEDIUM TO DARK GREY / GREEN. LIME WITH RECENT STAINING USUALLY SCORING AND WITH INCREASED ANGLE OF TUMBLING. SOME DARK SPOTS. MOST LIME HAS BEEN DISSEMINATED BY FRACTURING. TR-1% LIME DISSEMINATED BY		TR-1%						
290								TOTALITE 287.1' - 292.1'		TR-1%						
								FINE TO MEDIUM GRAINED, LIGHT TO MEDIUM GREY, SANDY / LIME APPEARANCE. LIME WITH RECENT STAINING USUALLY SCORING AND WITH INCREASED ANGLE OF TUMBLING. SOME DARK SPOTS. MOST LIME HAS BEEN DISSEMINATED BY FRACTURING. TR-1% LIME DISSEMINATED BY		TR-1%						
								GABBRO 292.1' - 382.0'		TR-1%						
								SANDY LIME WITH RECENT STAINING USUALLY SCORING AND WITH INCREASED ANGLE OF TUMBLING. SOME DARK SPOTS. MOST LIME HAS BEEN DISSEMINATED BY FRACTURING. TR-1% LIME DISSEMINATED BY		TR-1%						

Hole No. ML 41

Project: 1446

Page No: 6 of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 25/04/88

Ref. to Claim Corner:

Coordinates: 4+00 S N. 4+75 E.

Date Finished: 27/04/88

Scale: 1"=10'

Inclination: -70° Bearing: 240°

Total Depth: 509'

Logged By: K. HOLE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	ADP. GREEN MICA	CARBONATE	SILICA												
300															
310															
320															
330															
340															
350															

GABBRO 292.1' - 388.0'

CONT'D. MORE FREQUENT STAGE OF SILICIFICATION
DOWN

DENSE QZ VEIN

INTENSE SILICIFICATION
IN COREDIP TEST CORRECTION
329'APPLE GREEN MICA
ON FRACTURE PLANE

TR-190

Py

TR-190

Py

TR-190

Py

TR-190

Py

TR-190

Py

TR-190

Py

TR-190

Py

TR-190

Py

309

319

329

339

349

359

100%

100%

100%

100%

100%

100%

BQ

Hole No. ML 41

Project: 1446

Page No: 7 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 25/04/88

Ref. to Claim Corner:

Coordinates: 4400 S N. 4475 E.

Date Finished: 27/07/88

Scale: 1" = 10'

Inclination: -70 Bearing: 240°

Total Depth: 509'

Logged By: K. Houlte

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	ADP	CPA	SIL											
360							<u>GABBRO 292.1' - 388.0'</u> SHEARED ZONE		TR-1% Py		BQ			
370									↓ 369'					
380							<u>373.5 - 374.2</u> SHEARED ZONE WITH FOLIATED GABBRO AND MEL. BLENDED, 5% PY		TR-1% Py	100%				
390									↓ 379'					
400							<u>BRICCIATED GABBRO 388.0' - 412.2'</u> MED TO FINE GRAINED, LIGHT GREEN GREY TO BROWN BEIGE, WELL FOLIATED TO SLIGHTLY FOLIATED, SLT SUPPORTED IN A FINE CARB. PARTLY 10-20%, BECOMING MORE SHEARED DOWNHOLE. TR-3% PY AS FINE GRAINED DISSEMINATES AND FINE TO MED AGGREGATES.		TR-1% Py	100%				
410							<u>ALTERED ZONE 412.2' - 466.1'</u>		TR-3% Py	95%		407.0'		
							<u>SHEARED GABBRO 412.2' - 419.7'</u> FINE TO MED GRAINED, MEDIUM GREEN GREY, WELL SHEARED AND FOLIATED, MILDLY SERICITIZED, ANCHLORITIZED. 414.0' - 415.3' MASSIVE, QTZ VEIN, WT. APPLE GREEN MICA ALONG SHEARED SECTION. 2-5% PY BLEBS. THROUGHOUT, VERY LITTLE TO NO CARB. RYN.		2-5% Py	100%		1877 5.2' 412.2' 1898 1.2' 414.0' 1899 415.3' 1900 4.4' 419.7'		

Inclination: -70° Bearing: 240°

Project: 1446

Date Started: 25/04/88

Date Finished: 27/04/88

Total Depth: 509'

Page No: 8 of 9

Ref. to Claim Corner:

Scale: 1" = 10'

Logged By: *K. Houle*

[illegible]

Hole No. ML 41

Project: 144/6

Page No: 9 Of 9

Casing Collar Elev.: Ground Elev.:

Date Started: 25/04/88

Ref. to Claim Corner:-

Coordinates: 4700 S. 4775 E.

Date Finished: 27/04/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 509

Logged By: K. Heule

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
480							TONALITE 482.2' - 484.6' LIGHT GRAY, LIGHT BROWN, LIGHT TAN, LIGHT BROWN, LIGHT								

Hole No. ML 42

Project: 1446

Page No: 1 Of 11

Casing Collar Elev.: Ground Elev.:

Date Started: 02/05/88

Ref. to Claim Corner:

Coordinates: N 54015 N. 6463 E.

Date Finished: 04/05/88

Scale: 1" = 10'

Inclination: -70 Bearing: 240

Total Depth: 629'

Logged By: K. Houle

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
							DESCRIPTIVE GEOLOGY								
							OVER BURDEN 0.0' - 2.0' CASING REMAINS								
							GABRO 20.0' - 22.6'								
							36.1' - 45.6'								
							36.1' - 45.6'								
							INTERMEDIATE 45.6' - 47.6'								
							BASALT 47.6' - 49.0'								
							BRECCIATED BASALT 49.0' - 55.0'								

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
AUG 09 1988
RECEIVED

Hole No. NL 42

Project: 1446

Page No: 2 Of 11

Casing Collar Elev.: Ground Elev.:

Date Started: 02/05/88

Ref. to Claim Corner:-

Coordinates: 54018 N. 6463 E.

Date Finished: 07/05/88

Scale: 1" = 10'

Inclination: -70° Bearing: 740°

Total Depth: 629'

Logged By: R. Howell

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
60														
70														
80														
90														
100														
110														

DESCRIPTIVE GEOLOGY

BASALT 60.0' - 75.0'

Med to fine grained, med green to blue grey, 10-15% amphibole to subordinate clinopyroxene, X-cut by numerous mineralization veins. Fractured, minor carb along fracture planes. 7R-10% fine py and pl.

75.2' - 82.4'

Med to fine grained, med green to blue grey, 10-15% amphibole to subordinate clinopyroxene, X-cut by numerous mineralization veins. Fractured, minor carb along fracture planes. 7R-10% fine py and pl.

86.1' - 100.4'

Fine grained, med green to blue grey, 10-15% amphibole to subordinate clinopyroxene, X-cut by numerous mineralization veins. Fractured, minor carb along fracture planes. 7R-10% fine py and pl.

GABBRO 100.4' - 104.5'

Med to fine grained, med green to blue grey, 10-15% amphibole to subordinate clinopyroxene, X-cut by numerous mineralization veins. Fractured, minor carb along fracture planes. 7R-10% fine py and pl.

104.5' - 108.6' ANORTHOITIC GABBRO PORPHYRY

95% FELDSPAR WT < 5% HORNE CRYSTALLITE

111.1' - 114.7'

Fine grained, med green to blue grey, 10-15% amphibole to subordinate clinopyroxene, X-cut by numerous mineralization veins. Fractured, minor carb along fracture planes. 7R-10% fine py and pl.

Inclination: -75° Bearing: 240°

Total Depth: 629'

Logged By: *K. Howell*

[illegible]

Inclination: -70° Bearing: 240°

Total Depth: 629'

Logged By: K. Howell

[illegible]

Inclination:

Ground Elev.:

N. E.

Bearing: 240°

Project: 1496

Date Started: 02/01/80

Date Finished: 04/05/88

Total Depth: 529

Page No: 5 Of 11

Ref. to Claim Corner:

Scale: 1" = 10'

Logged By: K. Hoot

[illegible]

Inclination: 70° Bearing: 240°

Project: 12/4/6

Date Started: 01/03/81

Date Finished: 04/09/98

Total Depth: 519

Page No: 6 Of 11

Ref. to Claim Corner:-

Scale: 1" = 10'

Logged By: *K. Hoot*

[illegible]

Hole No. ML 42Project: 1446Page No: 7 Of 11

Casing Collar Elev.: Ground Elev.:

Date Started: 02/06/88

Ref. to Claim Corner:

Coordinates: 54015 -N: 6463 E.Date Finished: 04/05/88Scale: 1" = 10'Inclination: 10 Bearing: 240°Total Depth: 629Logged By: 10/10/88

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
							DESCRIPTIVE GEOLOGY								
360							<u>GABBRO 362.1 - 369.7</u>					80			
370							<u>ALTERED GABBRO 369.7 - 376.1</u>								
380							<u>SAME AS 369.7 - 376.1</u>								
390							<u>TOTAL 376.1 - 383.7</u>								
400							<u>GABBRO 383.7 - 390.7</u>								
410							<u>GABBRO 390.7 - 408.7</u>								
420							<u>TOTAL 408.7 - 445.1</u>								
430							<u>GABBRO 445.1 - 452.1</u>								
440							<u>GABBRO 452.1 - 459.1</u>								
450							<u>GABBRO 459.1 - 466.1</u>								
460							<u>GABBRO 466.1 - 473.1</u>								
470							<u>GABBRO 473.1 - 480.1</u>								
480							<u>GABBRO 480.1 - 487.1</u>								
490							<u>GABBRO 487.1 - 494.1</u>								
500							<u>GABBRO 494.1 - 501.1</u>								
510							<u>GABBRO 501.1 - 508.1</u>								
520							<u>GABBRO 508.1 - 515.1</u>								
530							<u>GABBRO 515.1 - 522.1</u>								
540							<u>GABBRO 522.1 - 529.1</u>								
550							<u>GABBRO 529.1 - 536.1</u>								
560							<u>GABBRO 536.1 - 543.1</u>								
570							<u>GABBRO 543.1 - 550.1</u>								
580							<u>GABBRO 550.1 - 557.1</u>								
590							<u>GABBRO 557.1 - 564.1</u>								
600							<u>GABBRO 564.1 - 571.1</u>								
610							<u>GABBRO 571.1 - 578.1</u>								
620							<u>GABBRO 578.1 - 585.1</u>								
630							<u>GABBRO 585.1 - 592.1</u>								
640							<u>GABBRO 592.1 - 599.1</u>								
650							<u>GABBRO 599.1 - 606.1</u>								
660							<u>GABBRO 606.1 - 613.1</u>								
670							<u>GABBRO 613.1 - 620.1</u>								
680							<u>GABBRO 620.1 - 627.1</u>								
690							<u>GABBRO 627.1 - 634.1</u>								
700							<u>GABBRO 634.1 - 641.1</u>								
710							<u>GABBRO 641.1 - 648.1</u>								
720							<u>GABBRO 648.1 - 655.1</u>								
730							<u>GABBRO 655.1 - 662.1</u>								
740							<u>GABBRO 662.1 - 669.1</u>								
750							<u>GABBRO 669.1 - 676.1</u>								
760							<u>GABBRO 676.1 - 683.1</u>								
770							<u>GABBRO 683.1 - 690.1</u>								
780							<u>GABBRO 690.1 - 697.1</u>								
790							<u>GABBRO 697.1 - 704.1</u>								
800							<u>GABBRO 704.1 - 711.1</u>								
810							<u>GABBRO 711.1 - 718.1</u>								
820							<u>GABBRO 718.1 - 725.1</u>								
830							<u>GABBRO 725.1 - 732.1</u>								
840							<u>GABBRO 732.1 - 739.1</u>								
850							<u>GABBRO 739.1 - 746.1</u>								
860							<u>GABBRO 746.1 - 753.1</u>								
870							<u>GABBRO 753.1 - 760.1</u>								
880							<u>GABBRO 760.1 - 767.1</u>								
890							<u>GABBRO 767.1 - 774.1</u>								
900							<u>GABBRO 774.1 - 781.1</u>								
910							<u>GABBRO 781.1 - 788.1</u>								
920							<u>GABBRO 788.1 - 795.1</u>								
930							<u>GABBRO 795.1 - 802.1</u>								
940							<u>GABBRO 802.1 - 809.1</u>								
950							<u>GABBRO 809.1 - 816.1</u>								
960							<u>GABBRO 816.1 - 823.1</u>								
970							<u>GABBRO 823.1 - 830.1</u>								
980							<u>GABBRO 830.1 - 837.1</u>								
990							<u>GABBRO 837.1 - 844.1</u>								
1000							<u>GABBRO 844.1 - 851.1</u>								

Inclination: -70° Bearing: 240°

Total Depth: 629'

Logged By: *K. Hoot*

[illegible]

Inclination: -70° Bearing: 240°

Total Depth: 62.9'

Logged By: *K. Howell*

SECTION	ALTERATION		FRACTURING MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE
	CARBONATE	SILICEOUS				
480					DESCRIPTIVE GEOLOGY	% Sulphides Drilling Interval % Core Recovered Core Size Sample Interval % Rec'y Samp. Int.
490					FELSIC INTRUSIVE 474.9' - 516.3'	BQ
500					GABBRO 516.8' - 545.4'	
510						
520						
530						

Inclination: - 70 Bearing: 240

Total Depth: 6 - 9'

Logged By: *K. Heule*

[illegible]

Hole No. ML 42

Project: 1446

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Casing Collar Elev.: Ground Elev.:

Date Started: 02/05/88

Ref. to Claim Corner:

Coordinates: 5401 S - N: 6463 E.

Date Finished: 04/05/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 629'

Logged By: K. HOOLE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
							DESCRIPTIVE GEOLOGY								
600							GABBRO 5490' - 629.0'		72-75			20			
							CONT'D		↓	629'	100%				
610									↓		100%				
620									↓	619'	100%				
630									↓		100%				
							END OF HOLE 629'		↓						

Hole No. ML-43

Project: McVICAR L. 1986

Page No: 1 Of 11

Casing Collar Elev.: Ground Elev.:

Date Started: MAY 4, 1988

Ref. to Claim Corner:

Coordinates: N6 S+00 S N. 7+25 E.

Date Finished: MAY 6, 1988

Scale: 1"=10'

Inclination: -70° ONTARIO GEOLOGICAL SURVEY

Total Depth: 649'

Logged By: B. HILL

SECTION	ALTERATION			MINERAL	GEOLOGY	OFFICE	AVE CORE REC'Y/HOLE 100%	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Int.	Sample Int. #	Esti- mated
	CARBONIZATION	CARBONIFICATION	SILICIFICATION			COMMENTS									
0						AUG 09 1988									
						RECEIVED	DESCRIPTIVE GEOLOGY								
0							0-4' OVERBURDEN (CASING REMAINS)								
10							4'-41.1' MAFIC VOLCANIC (BASALT) FINE GRAINED, MEDIUM TO DARK GREEN MASSIVE WITH NO FLOW TEXTURES NOTED, MODERATELY FRACTURED WITH HAIR-LINE TO 3mm RANDOMLY ORIENTED FRACTURES WHICH FOR THE MOST PART ARE WEAKLY CHLORITIC AND CALCAREOUS. UNIT IS MODERATELY SILICIOUS AND CONTAINS OCCASIONAL PATCHY CLORITIZATION, NIL TO TRACE PYRITE 13.2'-14.6' - MODERATELY TO HIGHLY CLORITIZED WITH SMALL MM SCALE RANDOMLY ORIENTATED STRINGERS OF PYRITE + OR - CALCITE (WEATHERED OUT) - RARELY A VERY WEAK FOLIATION CAN BE NOTED, PYRITE INCREASES AFTER 14.6' - TO TRACE OCCURRING AS DISSEMINATED VERY FINE GRAINS 24.2-25.1 - HIGHLY TO INTENSIVELY SILICIFIED TURNING TO HIGHLY CALCAREOUS AT 25.1'	NIL TO TRACE PY	9	100					
20								TRACE PY	19	100					
30								TRACE PY	29	100					
40							38' 3-6mm BOLDIN QZ-CARB VEIN SUB-PARALLEL TO C.A. 41.1' SHARP CONTACT @ 45° TO C.A. 44.4' SHARP CONTACT @ 35° TO C.A.	TRACE PY 2-4% Po/CP	39	100					
50							41.1'-44.4' IRON STONE * THIN MM SCALE BEDS OF MAGNETITE WHERE DISTINGUISHABLE, UNIT IS VERY CHLORITIC WITH CHLORITE BANDS AND FRACTURE FILLINGS MAKING UP 15-20% OF UNIT - UNIT IS HIGHLY MAGNETIC DUE TO VERY FINE GRAINED MAGNETITE - UNIT CONTAINS 2-4% VERY FINE GRAINED WISPY (UNIFORMABLE TO MT BANDS) Po WITH TRACE CP - UNIT BECOMES BRECCIATED WITH A CHLORITIC MATRIX AT LOWER CONTACT 44.4'-69.7' MAFIC VOLCANIC (BASALT) - UNIT IS MUCH THE SAME AS 4'-41.1' EXCEPT FRACTURING IS NOT QUOTE AS INTENSE AND CARBONATE FRACTURE FILLINGS INCREASE TO 1/4" mm OCCASIONALLY - UNIT OCCASIONALLY BECOMES FELDSPAR PHYRIC MAKING UP 2-4% OF BLOCK	TRACE	49	100					
60									59	100					



Hole No. ML-43

Project: McVICAR L. 1446

Page No: 2 Of 11

Casing Collar Elev.: Ground Elev.:

Date Started: MAY 4, 1988

Ref. to Claim Corner:

Coordinates: N. E.

Date Finished: MAY 6, 1988

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 649'

Logged By: B. HILL

SECTION	ALTERATION			MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	Sulphides %	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated SAMPLE #
	CHLORITIZATION	CARBONATIZATION	SILICIFICATION											
60						62' CORE OF BASALTIC 62.7' - 2" WEAKLY BASALTIC IRON STONE @ 35° TO C.A. IRREGULAR CONTACT		TRACE			80			
70						IRREGULAR CONTACT		NIL TO TRACE	69	100				
80						IRREGULAR CONTACT		NIL TO TRACE	79	100				
90						77'-112' MAFIC VOLCANIC (BASALT) - MUCH THE SAME AS 41'-41.1' - FINE GRAINED, MEDIUM TO DARK GREEN, MASSIVE - MODERATELY FRACTURED WITH TWO SETS OF FRACTURES AT RANDOM ORIENTATIONS ONE SET OF FRACTURES IS CHLORITIZED, THESE ARE CROSS-CUT BY QUARTZ- CARBONATE FILLED FRACTURES, BOTH SETS ARE MAFIC SCALE - NON-SILICIFIED, WEAKLY CHLORITIZED IN FORM OF FRACTURE FILLING GENERALLY 93'-109' UNIT BECOMES DARKER GREEN, AS WELL AS BECOMING WEAKLY SILICIFIED AND CARBONATIZATION INCREASES.			89	100				
100						99' DARK PATCH OF SILICIFICATION			99	100				
110									109	100				
120									119	100				

Hole No. ML-43

Project: McVICAR L. 1446

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Casing Collar Elev.:

Ground Elev.:

Date Started: MAY 4, 1988

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished: MAY 6, 1988

Scale: 1" = 10'

Inclination: -70°

Bearing: 240°

Total Depth: 649'

Logged By: B. HILL

SECTION	ALTERATION				MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100 %	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated SAMPLE #
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION											
120							119.2'-126' WEAKLY SHEARED BASALT								
							UNIT IS MEDIUM TO DARK GREEN, VERY FINE GRAINED, WEAKLY SHEARED @ 45° TO C.A. AND IS BUCCINATED								
							MINOR QUARTZ CARBONATE FRACTURING IN CONJUNCTION WITH BUCCINATION								
							WEAKLY CLUSTERED PARALLEL TO SHEARING								
							RED (HEMATITE?) COATING ON SOME FRACTURE SURFACES								
							NIL TO TRACE PYRITE								
130							126'-129.4' SHEARED BASALT								
							BUFF GREY GREEN WITH A PRONOUNCED SHEARING @ 35-40° TO C.A.								
							UPPER CONTACT IS GRADATIONAL WHILE LOWER CONTACT IS SHARP								
							WEAK TO NIL FRACTURING AND TRACE VERY FINE GRAINED DISSEMINATED PYRITE								
							129.4'-128.2' HIGHLY SILICIFIED SECTION, BUFF IN COLOR								
							VERY WEAKLY SERICITIZED								
140							129.4'-130.3' FELSIC TO INTERMEDIATE INTRUSIVE								
							DARK GREY-GREEN, FINE TO VERY FINE GRAINED								
							SHARP, IRREGULAR UPPER AND LOWER CONTACTS								
							BASICALLY FRESH IN APPEARANCE, 2-3% FELDSPAR PHENOCRYSTS UP TO 2MM IN DIAMETER, VERY WEAK CARBONATE FILLED FRACTURES CONTAINING TRACE PY, CP								
150							130.3'-132.1' SHEARED FELSIC INTRUSIVE								
							BUFF GREY-GREEN IN COLOR, FINE GRAINED								
							ORIGINAL TEXTURES AND STRUCTURES MODERATELY OBSCURED								
							SHEARING IS HIGH TO MODERATE @ 50° TO C.A.								
							HEAVILY SERICITIZED, TRACE PY AS FRACTURE COATING								
							SHARP CONTACTS								
160							132.1'-132.6' BUCCINATED BASALT								
							MEDIUM GREEN IN COLOR, FINE GRAINED								
							MODERATELY FRACTURED WITH QUARTZ CARBONATE FLOODING GIVING UNIT A BUCCINATED APPEARANCE								
							TRACE VERY FINE GRAINED PYRITE ASSOCIATED WITH QUARTZ CARBONATE STIPPLES								
							SHARP UPPER AND LOWER CONTACTS								
170							133.8'-136.2' ALTERED FELSIC INTRUSIVE								
							BUFF GREEN IN COLOR, VERY SILICIOUS								
							WEAKLY SHEARED @ 50° TO C.A., WEAKLY TO MODERATELY SERICITIZED, MINOR BRIGHT GREEN MICA, TRACE PYRITE								
							ORIGINAL TEXTURE OBSCURE								
							SHARP CONTACTS								
180							136.2'-169.5' BUCCINATED BASALT/CARBON								
							MEDIUM GREEN IN COLOR, FINE GRAINED WITH A WEAK FOLIATION LIKE, INDIVIDUAL BUCCIN BLOCKS ARE OCCASIONALLY SOMEWHAT ROTATED AS CAN BE NOTED BY MISALIGNED FOLIATION								
							FRAGMENTS OF BASALT/CARBON ARE SUPPLIED IN A								

Hole No. ML-43

Project: McVikar L. 1996

Page No: 4 Of 11

Casing Collar Elev.:

Ground Elev.:

Date Started: MAY 4, 1988

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished: MAY 6, 1988

Scale: 1"=10'

Inclination: -70°

Bearing: 240°

Total Depth: 649'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated SAMPLE #
	SERICITIZATION	CHLORITIZATION	CARBONATIZATION	SILICIFICATION												
180						X		136.2'-169.5' BRECCIATED BASALT/GABBRO (CONTINUED) MATRIX OF QUARTZ-CARBONATE, MINOR ANKERITE ASSOCIATED WITH CARBONATE - VERY WEAKLY SERICITIZED, TRACE TO 2% (LOCALLY) PYRITE OCCURRING AS FINE TO VERY FINE GRAINED DISSEMINATED CLUSTERS OF GRAINS - UPPER CONTACT IS SHARP WHILE LOWER CONTACT IS GRADATIONAL INTO BASALT/GABBRO 159.9-161.9 - QUARTZ VEIN, MASSIVE, GREY IN COLOUR WITH GREEN TINGE DUE TO TRACE PRESENCE OF BRIGHT GREEN MICA AND MINOR SERICITE - CONTAINS 1-2% PYRITE AS CLOTS AND WHIPS OF MASSIVE TO SEMI-MASSIVE FINE GRAINED PYRITE CONCENTRATED NEAR FRACTURES AND MARGINS - SHARP IRREGULAR CONTACTS		NIL TO TRACE PY		BQ				
190						X	189.3			NIL TO TRACE PY	189	100				
200						X		169.5'-189.3' GABBRO/BASALT - UNIT IS GENERALLY DARK GREEN- GREY FINE TO MEDIUM GRAINED - OFTEN SECTIONS OF WHITE ANORTHOSITIC GABBRO OCCUR (POSSIBLY AS CRYSTAL SEGREGATION) IN CONTACT WITH DARK GRAINED GABBRO (COULD BE YENOLITHS) - WEAKLY TO MODERATELY SILICIFIED AND MODERATELY FRACTURED WITH RANDOMLY ORIENTATED HAIRLINE QTZ-CARBONATE FILLED FRACTURES, NIL TO TRACE PY - LOWER CONTACT IS RELATIVELY SHARP OVER 6CM 172.2'-173.1' ANORTHOSITIC SECTION WITH 70% PLAG., TRACE APPLE GREEN MICA + POSS. TR. TOWNHILL PY		NIL TO TRACE PY	199	100				
210						X		189.3-209.3 SILICIFIED GABBRO - BUFF GREEN- GREY, 30% MAFIC MINERALS ON AVERAGE, - COARSE GRAINED AND MASSIVE - SILICA IS MOSTLY IN FORM OF REPLACEMENT OF FELDSPAR (MODERATE TO HIGHLY SILICIFIED) - SILICIFICATION IS OFTEN PATCHY - WEAK HAIR-LINE RANDOMLY ORIENTATED FRACTURES, NIL TO TRACE PYRITE		NIL TO TRACE PY	209	100				
220						X		209.3-211.4 FOLIATED GABBRO? - VERY FINE GRAINED AS COMPARED TO OTHER GABBRO - WEAK FOLIATION @ 20-70° TO C.A. (IRREGULAR) - SHARP CONTACTS, NIL TO TRACE PY		NIL TO TRACE PY	219	100				
230						X		211.4'-356.3' GABBRO - DARK TO MEDIUM GREEN, MASSIVE, COARSE GRAINED, OCCASIONALLY PEGMATITE APPARS PEROVSKITIC - GENERALLY 40-45% MAFIC MINERALS - VERY SPICKLED AND CRISPY IN APPEARANCE - VERY WEAK PEROVSKITE CARBONATIZATION - VERY WEAKLY FRACTURED WITH SPARSITY OF FRACTURED HAIRLINE QUARTZ-CARBONATE FILLED FRACTURES - VERY WEAKLY MAGNETIC, TRACE VERY FINE GRAINED DISSEMINATED PYRITE		NIL TO TRACE PY	229	100				
240						X				NIL TO TRACE PY	239					

Hole No. ML-43

Project: McVICAR I. 1146

Page No: 5 Of 11

Casing Collar Elev.:

Ground Elev.:

Date Started: MAY, 4, 1988

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished: MAY 6, 1988

Scale: 1" = 10'

Inclination: -70°

Bearing: 240°

Total Depth:

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	Sulphides %	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated SAMPLE #
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION				DESCRIPTIVE GEOLOGY								
240					/	X		211.4'-356.3' GIBBRO (CONTINUED) 219.3'-222.6' - FINE GRAINED SECTION, DARK GREEN, SHARP CONTACTS, OCCASIONAL SMALL ZONE OF COARSE GRAINED PLAGIOCLASE CRYSTALS UNIT IS POSSIBLY A LATE INTERSECTION OF GIBBRO		TRAC PY			BQ			
						X						100				
250					/	X					249					
						X						100				
						X										
260					/	X					254					
						X						100				
						X										
270					/	X					269					
						X						100				
						X										
280					/	X		276.6'-297.7' - GIBBRO BECOMES FOLIATED (WEAKLY SHARPED?), FINE GRAINED WITH FEW AMOUNTS OF SERICITE - SHARP CONTACTS, ORIGINAL TEXTURE STILL VISIBLE - FOLIATION @ 40° TO C.A., WEAKLY - CARBONITIZED & SILICIFIED			279					
						X						100				
						X										
290					/	X					284					
						X						100				
						X										
300					/	X					299					

Hole No. ML-43

Project: MELVICAR L 1446

Page No: 6 Of 11

Casing Collar Elev.:

Ground Elev.:

Date Started: MAY 4, 1988

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished: MAY 6, 1988

Scale: 1" = 10'

Inclination: -70°

Bearing: 270°

Total Depth: 649'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	Sulphides %	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated SAMPLE #
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION												
300							X	211.4'-356.3' GABBRO (CONTINUED)		TRACE PY			BQ			
							X					100				
310							X				309					
							X					100				
320							X	332.8'-332.5' - QUARTZ VEIN @ $\approx 55^\circ$ TO C.A. - BARREN WITH CARBONITIZED AND VERY WEAKLY SERICITIZED MARGINS			319					
							X					100				
330							X				329					
							X					100				
							X	350.1'-350.5' - QUARTZ - CARBONATE VEINING CAUSING MINOR SERICITIZATION OF WALL ROCK AS WELL AS A DECREASE IN GRAIN SIZE			339					
340							X					100				
							X				349					
350							X					100				
							X	356.3'-357.5' PANTHORITIC FELSIC INTRUSIVE - DARK GREY IN COLOUR, VERY SILICIOUS, 85% QUARTZ - 3-4% PLAGIOCLASE PHENOCRYSTS UP TO 3mm EVENLY			359					
360							X			TRACE PY						

COMMENTS:

AVE CORE
REC'Y/HOLE
100%

DESCRIPTIVE GEOLOGY

211.4'-356.3' GABBRO (CONTINUED)

329' ACID TEST
CORRECTED $\angle = 67^\circ$
QZ VEIN332.8'-332.5' - QUARTZ VEIN @ $\approx 55^\circ$ TO C.A.
- BARREN WITH CARBONITIZED AND VERY
WEAKLY SERICITIZED MARGINS350.1'-350.5' - QUARTZ - CARBONATE VEINING CAUSING
MINOR SERICITIZATION OF WALL ROCK
AS WELL AS A DECREASE IN GRAIN SIZE

356.3'-357.5' PANTHORITIC FELSIC INTRUSIVE

- DARK GREY IN COLOUR, VERY SILICIOUS, 85% QUARTZ
- 3-4% PLAGIOCLASE PHENOCRYSTS UP TO 3mm EVENLY

Inclination: -70°

Ground Elev.:

N.

E.

Bearing: 240°

Project: McVICAR L. 14460

Date Started: MAY 4, 1988

Date Finished: MAY 6, 1938

Total Depth: 649'

Page No: 7 Of 11

Ref. to Claim Corner:

Scale: 1" = 10'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	Sulphides %	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Sample	Int. Sample #	Esti- mated
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION													
360						X		356.3'-359.5' PORPHORITIC FELSIC INTRUSIVE (CONTINUED) DISPERSED THROUGH UNIT SEMI-CONCHOIDAL FRACTURE TRACE TO .5% VERY FINE GRAINED DISSEMINATED PYRITE VERY WEAKLY HAIRLINE FRACTURED, SHARP UPPER AND LOWER CONTACTS @ 110° & 60° RESPECTIVELY		TRACE PY			BQ				
370						X		359.5'-363' GABBRO MUCH THE SAME AS 211.4'-356.3', CONTAINS SLIGHTLY FINER GRAINED SECTIONS, MODERATE DEGREE OF QUARTZ-CARB FRACTURES UNIT BECOMES MODERATELY SILICIFIED AND WEAKLY FOLIATED NEAR LOWER CONTACT.		TRACE PY	100						
380						X		363-364.8 PORPHORITIC FELSIC INTRUSIVE AS 356.3'-359.5', GRADATIONAL UPPER CONTACT AS WALL ROCK HAS BEEN SILICIFIED WHILE LOWER CONTACT IS UNALTERED @ ≈ 85° TO C.A.		TRACE PY	100						
390						X		364.8'-390.6' GABBRO MUCH AS 211.4'-356.3' GRAIN SIZE VARIES FROM COARSE TO FINE GRAINED BUT IS GENERALLY MEDIUM DARK GREEN IN COLOUR 391.8-392.6' SILICIFIED ZONE WITH DARK CRYSTALS GROWING UP TO 5mm IN SIZE		TRACE PY	100						
400						X		390.6'-393.4' INTERMEDIATE INTRUSIVE(?) DARK GREEN, FINE GRAINED WITH PARTIALLY ASSIMILATED GABBRO AT UPPER CONTACT WHILE LOWER CONTACT IS SHARP @ ≈ 50° TO C.A. WEAKLY FRACTURED WITH HAIRLINE QUARTZ-CARBONATE FRACTURES, TRACE PYRITE, UNALTERED (COULD BE BASALT LENS)		TRACE PY	100						
410						X		393.4'-401' GABBRO AS 211.4'-356.3' SLIGHTLY FLOPPY PHYRIC, COARSE TO MEDIUM GRAINED DARK GREEN IN COLOUR		TRACE PY	100						
420						X		401'-403.7' TONALITE BUFF GREY IN COLOUR, FINE GRAINED, VERY SILICIOUS SPACKLED APPEARANCE CAUSED BY DISSEMINATED MILK MINERALS SHARP UPPER & LOWER CONTACTS @ ≈ 45° TO C.A., SOME ASSIMILATION OF WALL ROCK IS NOTED AT MARGINS, TRACE PY		TRACE PY	100						
430						X		403.7'-462.5' GABBRO/BASALT MEDIUM GREEN IN COLOUR, GENERALLY FINE GRAINED BUT GRAIN SIZE IS VARIABLE OCCASIONAL SECTIONS HAVE MEDIUM TO COARSE GRAIN SIZE, THESE FEATURES COULD POSSIBLY BE PARTIALLY ASSIMILATED REMOVALS OF PRE-EXISTING ROCK AS THEY HAVE SHARP IRREGULAR CONTACTS UNIT HAS WEAK TO MODERATE PERVIOUS CARBONITIZATION, WEAK TO MODERATE HAIRLINE TO 5mm QUARTZ-CARBONATE FRACTURE FILLINGS, MINOR SERICITIZATION ON SOME FEATURES		TRACE PY	100						

Hole No. ML-43

Project: McVICAR L. 1416

Page No: 8 Of 11

Casing Collar Elev.:

Ground Elev.:

Date Started: MAY 4, 1988

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished: MAY 6, 1988

Scale: 1"=10'

Inclination: -70°

Bearing: 240°

Total Depth: 649'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION												
420								403.7' - 462.5' GABBRO/BASALT (CONTINUED) - TRACE TO 1% PO, PY OCCURRING AS FINE GRAINED DISSEMINATED GRAINS & CLUSTERS OF GRAINS WITH RARE 1-2 MM BEAM. - OCCASIONALLY UNIT BECOMES FELDSPAR PHYRIC 405.3' - 408' - FINE GRAINED FELDSPAR PHYRIC SECTION WITH 3-4% 1-2 MM FELDSPAR PHENOCRYSTS	TRACE TO 10% Po Py			100	20			
430									429			100				
440									439			100				
450									449			100				
460									459			100				
470								462.5' - 490' WEAKLY SHEARED/BRECCIATED GABBRO - MEDIUM TO DARK GREY-GREEN IN COLOUR, GENERALLY FINE GRAINED WITH A WEAK SHEARING DEVELOPED AS WELL AS MINOR BRUCCIATION DUE TO HIGH DEGREE OF QUARTZ-CARBONATE FRACTURE FLOODING - RELIC GABBROIC TEXTURES CAN BE NOTED OCCASIONALLY - SOME SECTIONS BECOME MODERATELY SILICIFIED TURNING TO A DARK GREY-BLACK - 1% PYRITE/PYRRHOTITE AS DISSEMINATED FINE GRAINED CLUSTERS AND WHIPS - UPPER CONTACT HAS ANIMAL CALLED 1.5CM QZ VEIN, LOWER CONTACT IS GRADATIONAL	10% Py Po			100				
									469			100				
480									477			100				
490								479' 4" QZ VEIN WITH TRACE GABBRO, 2% PY. IRREGULAR CONTACTS								

Hole No. ML-43

Project: McVICAR L. 1746

Page No: 9 Of 11

Casing Collar Elev.:

Ground Elev.:

Date Started: MAY 4, 1988

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished: MAY 6, 1988

Scale: 1" = 10'

Inclination: -70°

Bearing: 240°

Total Depth: 649'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y	Int. Samp. #	Esti- mated
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION													
480								462.5'-490' WEAKLY SHEARED/BRECCIATED GABBRO (CONTINUED)		1% Py Pb			BQ				
								SHEARING @ 50° TO C.A.				100					
490								490'-511' BRECCIATED GABBRO		1% Py	489						
								- DARK GREY-GREEN WITH NUMEROUS QUARTZ-CARBONATE PATCHES BRECCIATING GABBRO - GABBRO IS MODERATELY TO HIGHLY SHEARED & SOMEWHAT CRENULATED DURING BRECCIATION - SOME GABBROIC TEXTURES ARE PRESERVED - 1% PYRITE (UP TO 2% LOCALLY) OCCURRING AS FINE GRAINED DISSEMINATED CLUSTERS AND OCCASIONAL WHISP		(2% LOCALLY)		100					
500								499' ACID TEST CORRECTED $\angle = 67.5^\circ$			499			499			
								511'-533.4' SHEARED GABBRO							100	1938	
								- INTENSELY SHEARED @ $\approx 50^\circ$ TO C.A. - MEDIUM TO DARK GREEN WITH A STRIPED APPEARANCE DUE TO HIGH DEGREE OF QUARTZ-CARBONATE SCHEDING PARALLEL TO SHEARING - MINOR SERICITIZATION PARALLEL TO SHEARING - USUALLY ASSOCIATED WITH QUARTZ - 1-2% PYRITE OCCURRING AS FINE GRAINED DISSEMIN- ATED GRAINS OCCASIONALLY CONCENTRATED IN QUARTZ- CARBONATE 522' - 2" ZONE OF MYLONITIZED ROCK, MEDIUM GREEN, QUARTZ & BREAKS INTO SMALL CHIPS			100						
510								511'		1-2% Py	509			509			
															100	1939	
520								SHEARING @ $\approx 50^\circ$ TO C.A.			519			519			
								522' MYLONITE 2"							100	1941	
530											529			529			
															100	1942	
540								533.4' - 534.3' FELSIC INTRUSIVE		TRD PY				533.4'			
								- BUFF GREY BROWN FINE GRAINED, OCCASIONAL MAY SCALE FELDSPAR PHENOCYST, VERY SILICIOUS - 80% QZ, VERY WEAKLY SERICITIZED, TRACE PY - UPPER CONTACT IS SHARP, LOWER CONTACT HAS 1/2" QZ VEIN WITH PORPHYRIC FELDSPAR ON MARGIN PARALLEL TO CONTACT		2-4% Py		100					
								538.5 BUFF GREY QZ VEIN 1 1/2" WIDE			539						

Hole No. ML-43

Project: McVICAR L 1446

Page No: 10 Of 11

Casing Collar Elev.:

Ground Elev.:

Date Started: MAY 4, 1988

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished: MAY 6, 1988

Scale: 1"=10'

Inclination: -70°

Bearing: 240°

Total Depth: 649'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	Sulphides %	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y	Int. Samp.	Esti- mated Samp. #
	SERICITIZATION	CHLORITIZATION	CARBONITRATION	SILICIFICATION													
540								543.3-545.7' SHEARED GABBRO - MUCH THE SAME AS 511-533.4' - PRONOUNCED SHEARING @ 55° TO C.A. STRIPED APPEARANCE DUE TO QUARTZ-CARBONATE FLOODING PARALLEL TO SHEARING, 2-4% PYRITE AS FINE DISSEMINATED GRAINS	2-4% PY				BQ	543.3	100	1943	
								545.7' SERICITE, 5% DISS PY	5% PY		100			545.7	100	1944	
								547.8'	5-7% PY					547.8	100	1944	
550								545.7-547.8' QUARTZ-SERICITE SCHIST - VERY SILICIOUS (RANGING FROM 60-85%) - MODERATELY SERICITIZED IN DIRECTION OF SHEARING, TRACE BRIGHT GREEN MICA, 5-7% FINE GRAINED DISS- PYRITE WEAKLY CARBONITIZED	1-2% PY	549			551.6	100	1945		
								SHEARING @ 55° TO C.A.			100			556.5	100	1946	
								547.8'-556.5' WEAKLY SHEARED GABBRO - A LESS SHEARED VERSION OF 511-533.4', WEAK SHEARING @ 75° TO C.A.	3-4% PY	559			557.9	100	1947		
560								- 1-2% PYRITE DISSEMINATED THROUGH UNIT	TRACE TO 1% PY				559.3	100	1948		
								556.5'-559.9' QUARTZ-SERICITE SCHIST - MUCH AS 545.7'-547.8' - CONTAINS 20% FRAGMENTS OF GABBRO (FOLIATED/SHEARED) - TRACE TO 1% BRIGHT GREEN MICA, 2-4% PYRITE AS DISSEMINATED GRAINS + BLENDS	2-3% PY		100		564.9	100	1948		
								559.9'-618' GABBRO/BASALT - ALTERED AT UPPER CONTACT WITH QUARTZ-CARBONATE FLOODING ± MINOR SERICITIZATION, ALTERATION SUBSTANTIALLY DECREASES DOWN HOLE - REMAINDER OF UNIT IS FINELY FINE GRAINED, ILLUSPAR PHYRIC, DARK GREEN IN COLOUR, TRACE TO 1% PYRITE AS FINE DISSEMINATED GRAINS - GRAIN SIZE CAN BE VARIABLE - MODERATELY HARD, WEAK HAIR-LINE FRACTURING AT RANDOM ORIENTATIONS	TRACE PY	569			566.5	100			
570								569.9'-559.3 - WEAK TO MODERATE SHEARING, QUARTZ- CARBONATE FLOODING, 2-4% PYRITE		579							
								559.3'-559.6' - SERICITIZED QUARTZ VEIN, 1% PYRITE, SHARP CONTACTS @ 60° TO C.A.			100						
								560.1-560.6' - AS 559.3-559.6'									
								564.9-565.5' - AS 559.3-559.6'									
580								565.5-566.5' - QUARTZ VEIN WITH SILICIFIED WALL ROCK, QZ IS MEDIUM GREY WITH 2% PY, WHILE WALL ROCK HAS 5% PY		589							
590											100						
600											599	100					

Hole No. ML-43

Project: McVICAR L 1446

Page No: 11 Of 11

Casing Collar Elev.:

Ground Elev.:

Date Started: MAY 4, 1988

Ref. to Claim Corner:

Coordinates:

N.

E.

Date Finished: MAY 6, 1988

Scale: 1" = 10'

Inclination: -70°

Bearing: 240°

Total Depth: 649'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated SAMPLE #
	SERICITIZATION	CHLORITIZATION	CARBONATIZATION	SILICIFICATION				DESCRIPTIVE GEOLOGY	100%							
600							X	557.9-618' GABBRO/BASALT (CONTINUED)		TRACE PY			BQ			
							X					100				
610							X				609					
							X					100				
620							+	618-629.3' FELSIC INTRUSIVE		TRACE TO 1% PY	619					
							+	- DARK GREY-BLACK IN COLOUR, VERY HARD AND SILICIOUS				100				
							+	- Aphanitic with occasional 1mm feldspar phenocryst								
							+	- TRACE TO 1% VERY FINE GRAINED PYRITE, WEAKLY HAIR- LINE FRACTURED, SHARP CONTACTS @ 76° TO C.A.								
630							+	629.3'-649' SILICIFIED GABBRO/BASALT		TRACE PY	629					
							X	MEDIUM TO DARK GREEN, GRAIN SIZE VARIES WITH DEGREE OF SILICIFICATION, GENERALLY FINE GRAINED, TRACE FINE GRAINED DISSEMINATED PYRITE, WEAK TO NIL FRACTURING				100				
							X	- MODERATELY TO HIGHLY SILICIFIED			639					
640							X					100				
649							X	649' ACID TEST CORRECTED L = 62.5°			649					
							X	649' END OF HOLE								

Hole No. ML 44

Project: 1446

Page No: 1 Of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5+00 S N. 7+75 E.

Date Finished: 09/05/88

Scale: 1"=10'

Inclination: -70° Bearing: 240°

Total Depth: 669'

Logged By: K. HOULE

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA											
0													
10													
20													
30													
40													
50													

RECEIVED JUL 25 1988 PATRICIA MINING DIVISION
--

MAFIC VOLCANIC (BASALT) 0.0' - 35.9'
FINE GRAINED TO ANHARTIC, MED TO DARK GR. AS HILL, L. TO 10' UNIFORM, L. TO 10' UNIFORM, L. TO 10' UNIFORM, FELTIC, L. TO 10' UNIFORM, L. TO 10' UNIFORM, L. TO 10' UNIFORM, ALONG FINE FRACTURES, DRINK FROM 50' TO 100' ALONG FINE FRACTURES, DRINK FROM 50' TO 100' DRINK FROM 50' TO 100'
FELSIC INTRUSIVE 35.9' - 39.0'
FELSIC, TO FINE GRAINED, BLK, VERY HARD, FINE SILICA, FINE FRACTURES, COARSE SILICA, TR Py
MAFIC VOLCANIC (BASALT) 39.0' - 41.9'
SAND, L. TO 10' UNIFORM, L. TO 10' UNIFORM, L. TO 10' UNIFORM, FELTIC, L. TO 10' UNIFORM, L. TO 10' UNIFORM, L. TO 10' UNIFORM, ALONG FINE FRACTURES, DRINK FROM 50' TO 100' ALONG FINE FRACTURES, DRINK FROM 50' TO 100' DRINK FROM 50' TO 100'
39.0' - 41.9' CLASTIC, L. TO 10' UNIFORM, L. TO 10' UNIFORM, L. TO 10' UNIFORM, FELTIC, L. TO 10' UNIFORM, L. TO 10' UNIFORM, L. TO 10' UNIFORM, ALONG FINE FRACTURES, DRINK FROM 50' TO 100' ALONG FINE FRACTURES, DRINK FROM 50' TO 100' DRINK FROM 50' TO 100'

TR-10 Py Fe	9'	80%	30
TR-19 Py Fe	19'	100%	
TR-19 Py Fe	19'	100%	
TR-19 Py Fe	29'	100%	
TR-19 Py Fe	39'	100%	
TR-19 Py Fe	49'	100%	
TR-19 Py Fe	59'	100%	

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE

AUG 09 1988


 ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

AUG 04 1988

RECEIVED

Hole No. ML 44/

Project: 1446

Page No: 2 Of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5100 S N. 7175 E.

Date Finished: 09/05/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 669'

Logged By: K. HOULE

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA											
60						IRON FORMATION 61.9' - 62.8'				BQ			
70						IRON FORMATION 61.9' - 62.8'							
80						HAIRY VOLCANIC (BASALT) 63.8' - 112.7'							
90						HAIRY VOLCANIC (BASALT) 63.8' - 112.7'							
100						HAIRY VOLCANIC (BASALT) 63.8' - 112.7'							
110						HAIRY VOLCANIC (BASALT) 63.8' - 112.7'							

Hole No. ML 44

Project: 1446

Page No: 3 Of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5+00 S N. 7+75 E.

Date Finished: 09/05/88

Scale: 1" = 10'

Inclination: -70 Bearing: 240°

Total Depth: 669'

Logged By: K. HOULE

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA												
120						MAFIC DIORITE (BASALT) 63-67' 182.7'		72-12% 72-R		100%	BQ			
130						129' + INCREASED CONCENTRATION OF SULPHIDES		72-12% 72-R	129'	100%				
140								72-12% 72-R	139'	100%				
150								72-12% 72-R	149'	100%				
160						QZ CARB VENEER ≈ 3CM		72-12% 72-R	159'	100%				
170						169' DIP TEST CORR L 57°		72-12% 72-R	169'	100%				
								72-12% 72-R	179'	100%				

Hole No. ML 44/

Project: 1446

Page No: 4/ Of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5+00 S N: 7+75 E.

Date Finished: 09/05/88

Scale: 1"=10'

Inclination: -70° Bearing: 240°

Total Depth: 669

Logged By: K. HOULE

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y	Int. Samp.	Esti- mated
	CARBONATE	SILICA													
180						GRABATIONAL									
190						Q12 3 CM									
200						Q12 15 CM									
210						HIGHLY SHEARED ZONE WT IRON SHAWING ON FRACTURED SURFACES									
220						HIGH Q12, 1-2 CM									
230						SHEARED ZONE 1-3 CM Q12									
<u>BRECCIATED BASALT 182.7' - 187.4'</u> FINE GRAINED, LIGHT TO MEDIUM GRAY, ANGULAR TO SUB-ANGULAR BASALT IN A 15% CARBONATE MATRIX. MINERALOGY: QUARTZ, FELDSPAR, TR-12 <u>FELSIC INTRUSIVE 187.4' - 188.5'</u> SANDY, LIGHT TO MEDIUM GRAY, ANGULAR TO SUB-ANGULAR BASALT IN A 15% CARBONATE MATRIX. MINERALOGY: QUARTZ, FELDSPAR, TR-12 <u>BRECCIATED GABBRO 188.5' - 253.0'</u> FINE GRAINED, LIGHT TO MEDIUM GRAY, ANGULAR TO SUB-ANGULAR GABBRO IN A 15% CARBONATE MATRIX. MINERALOGY: QUARTZ, FELDSPAR, TR-12 <u>253.0' - 257.6'</u> FRACTURE SURFACES, HIGHLY SHEARED ZONES, 1-3 CM Q12 <u>257.6' - 267.7'</u> HIGHLY SHEARED AREA, 1-3 CM Q12, 1-2 CM Q12, 1-3 CM Q12															
								7R-11 182.7'		100%	BQ				
								7R-12 187.4'		100%					
								7R-13 188.5'		100%					
								7R-14 199'		100%					
								7R-15 209'		100%					
								7R-16 219'		100%					
								7R-17 229'		100%					
								7R-18 239'		100%					

Inclination: -70° Bearing: 240°

Total Depth: 669'

Logged By: K. HOULE

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA												
240						BRECCIATED GABBRO 188.5' - 252.0'								
						CONT'D		TR-19 P ₁		100%		BQ		
250						LOSS OF BRECCIATION BUT MODERATE PERVASIVE CARB REMAINS		↓ 249						
						GABBRO 253.0' - 301.1'		TR-19 P ₁		100%				
260						FINE TO MED GRANITIC, LIGHT TO MED GREEN/GRAY SILICA, ANHYDRAL PERIPHERAL, MODERATE PERVASIVE CARB. SPALLS, MODERATE PERVASIVE TR-19, FINELY DISSEMINATED PY		↓ 259						
						SLIGHTLY BRECCIATED		TR-19 P ₁		100%				
270						SLIGHTLY BRECCIATED		↓ 269						
						268.0' ± SPALL SIZE IS PRE DOMINANTLY MEDIUM		TR-19 P ₁		100%				
280						5 CM FELSIC DIABASE DYKE		↓ 279						
								TR-19 P ₁		100%				
290						PRESENCE OF AT CARB REPLACEMENT OF FELDSP		↓ 289						
						SIZE VAR WITH GRAIN SIZE		TR-19 P ₁		100%				
								↓ 299						

Hole No. *ML 44*

Project: 14116

Page No: 6 Of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5+00 S ~~N.~~ 7+75 E.

Date Finished: 09/05/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 669'

Logged By: K. HOOLE

[illegible]

Hole No. ML 44

Project: 1446

Page No: 7 Of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5100 S. N. 7175 E.

Date Finished: 09/05/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 669'

Logged By: K. Houle

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA												
360						GREEN DIORITE ANORTHOSITE GABBRO BARREN, SOME FELDSPAR	FELDSPAR INTERSTITIAL, RESIDUAL INTERSTITIAL 358.5'-361.0' ARENITE, DARK GREY TO BLACK 2-3% FORTS. AND FELDSPAR, SOME BARREN, FE. INTERSTITIAL, SOME HIGHLY FRACTURED, SMALL, DRILLING CORE FRACTURED TR. PY.	72-10% F ₂ F ₃	369'	100%	Bq			
370							361.0' - 372.7'	70-10% F ₂ F ₃	379'	100%				
380								70-10% F ₂ F ₃	389'	100%				
390						SLIGHTLY FOLIATED LOW PERFORATION CHAL.	BRECCIATED GABBRO 392.7' - 401.7'	70-10% F ₂ F ₃	399'	100%				
400						GRADATIONAL	401.7' - 4162.9'	70-10% F ₂ F ₃	409'	100%				
410								70-10% F ₂ F ₃	419'	100%				

Hole No. ML 44

Project: 1446

Page No: 8 Of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5400 S. N. 7175 E.

Date Finished: 09/05/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 669'

Logged By: K. Houle

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA											
420						GABBERO 401.7' - 462.9'		2-3% P ₂		BQ			
						CONT'D		TR-P ₂	100%				
430								↓					
						434.4' - 435.2' MED TO COARSE GRAINED, COARSE GRAINED		TR-P ₂					
						SLIGHTLY BRECCIATED, SLIGHTLY SILICIFIED		P ₂	100%				
						2-3% P ₂ 1-2% P ₂		TR-P ₂					
440						435.2' - 437.4' FINER GRAINED, INCREASE IN		TR-P ₂					
						FINER GRAINED, SLIGHTLY SILICIFIED		P ₂	100%				
						7-12% P ₂		↓					
450						437.4' - 439.9' SLIGHTLY BRECCIATED, SLIGHTLY		TR-P ₂					
						SLIGHTLY BRECCIATED		P ₂	100%				
								↓					
460								TR-P ₂					
						GRADATIONAL		P ₂	100%				
						POPHYBITIC GABBERO 462.9' - 477.9'		TR-P ₂					
						FINE GRAINED MED TO GREEN GREY = 1-2%		P ₂	100%				
						SLIGHTLY BRECCIATED, SLIGHTLY SILICIFIED		↓					
						7-12% P ₂		TR-P ₂					
								P ₂	100%				
								↓					
470						BRECCIATED GABBERO 477.9' - 512.7'		TR-P ₂					
						(OVER)		P ₂					
								↓					
								TR-P ₂					
								P ₂					
								↓					
								TR-P ₂					
								P ₂					
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Hole No. ML 44Project: 1446Page No: 9 Of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5400 S. N. 7475 E.Date Finished: 09/05/88Scale: 1"=10'Inclination: -70° Bearing: 240°Total Depth: 669'Logged By: K. Houlf

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA												
480						<u>BRECCIATED GABBRIC 478.1' - 483.9'</u> FINE GRAINED, LIGHT TO DARK GREY, GREEN, ALTERATING SEVERAL TO MODERATELY TO COARSE GABBRIC, VARYING DEGREE OF AT A... WITH SCATTERED ORCAISSIN... F... BUT NO... TR-P ₀ P ₁		78-12 R P ₁	100%		BQ			
490						HIGHLY FRACTURED CARBONATE		78-12 R P ₁	100%			491.1	492.8	2.5'
500						DIP 76.7 499' CORR L 67.5°		78-12 R P ₁	100%					
510						HIGHLY FRACTURED WT CARBONATE VEINS		78-12 R P ₁	100%			507.4	508.2	.8'
520						<u>GABBRIC 510.9' - 525.1'</u> FINE GRAINED, LIGHT TO DARK GREY, GREEN, ALTERATING SEVERAL TO MODERATELY TO COARSE GABBRIC, VARYING DEGREE OF AT A... WITH SCATTERED ORCAISSIN... F... BUT NO... TR-P ₀ P ₁		78-12 R P ₁	100%					
530						3-5 CM QZ VEIN SHARP		78-12 R P ₁	100%					
						SHARP 6 CM TO 11 CM DYKE 3 CM QZ VEIN		78-12 R P ₁	100%					
						<u>IMPURE GABBRIC 525.1' - 529.7'</u> FINE GRAINED, MED TO DARK GREEN, GRAY GLASSY, ALTERATING SEVERAL TO MODERATELY TO COARSE GABBRIC, VARYING DEGREE OF AT A... WITH SCATTERED ORCAISSIN... F... BUT NO... TR-P ₀ P ₁		78-12 R P ₁	100%					
						<u>GABBRIC 529.7' - 542.2'</u> FINE GRAINED, MED TO DARK GREEN, GRAY GLASSY, ALTERATING SEVERAL TO MODERATELY TO COARSE GABBRIC, VARYING DEGREE OF AT A... WITH SCATTERED ORCAISSIN... F... BUT NO... TR-P ₀ P ₁		78-12 R P ₁	100%					

Hole No. ML 44

Project: 1446

Page No: 10 of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5+00 S ~~N.~~ 7+75 E.

Date Finished: 09/05/88

Scale: $1'' = 10'$

Inclination: -70° Bearing: 240°

Total Depth: 669'

Logged By: K. Hoult.

[illegible]

Inclination: -70 Bearing: 240°

Project: 1446

Date Started: 07/05/88

Date Finished: 09/05/88

Total Depth: 669'

Page No: 11 Of 12.

Ref. to Claim Corner:

Scale: 1" = 10'

Logged By: K. HOOLE

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA												
600								TR-14 F ₂	609'	100%	BQ			
610						GABBRIC 584.1' - 649.6' CONT'D. PHENOLIC MAGNETIC MINERALIZATION		40-60% TR-14 F ₂	619'	100%		1962 609.4 610.4	1.0'	
620						BANDS OF MAGNETIC PY. W/ FINE MAGNETIC MINERALIZATION		TR-14 F ₂	629'	100%		1962 613.6 614.5	.9'	
630						QZC 610.4' - 619.6'		TR-14 F ₂	639'	100%				
640								TR-14 F ₂	649'	100%				
650						SHARP POPHOLITE FELDSPAR FELDSPAR IMPUSIVE 649.6' - 657.0' SAME AS 648.5' - 661.0' TR-14 PY AT 649.6' AND 649.6' - 657.0'		TR-14 F ₂	659'	100%				
						SHARP BRICCIATED GABBRIC 657.0' - 659.6' SAME AS 649.6' - 657.0' W/ > 20% PHENOLIC MINERALIZATION		TR-14 F ₂	659'	100%				

Hole No. ML 44

Project: 1446

Page No: 12 Of 12

Casing Collar Elev.: Ground Elev.:

Date Started: 07/05/88

Ref. to Claim Corner:

Coordinates: 5100 S N. 7+75 E.

Date Finished: 09/05/88

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 669'

Logged By: K. HOULE

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	CARBONATE	SILICA												
660						INTRUSIVE W/ HYDROTHERMAL SILICIFIED THERMOPHILES		78-85 ↓		100%	BQ ↓			
670						DIP TEST 664' CORR 63°			669'					
						END OF HOLE 669'								

DESCRIPTIVE GEOLOGY

BLUE GRAY LUTITE - 660.0' - 662.0'
 SANDY GR. LUTITE - 657.0' - 660.0'
 BRECCIATED GABBRO 662.0' - 664.0'
 SANDY GR. LUTITE - 659.0' - 662.0'
 END OF HOLE 669'

Hole No. ML-45

Project: McVicar L. 14716

Page No: 1 Of 8

Casing Collar Elev.:

Ground Elev.:

Date Started: MAY 9, 1988

Ref. to Claim Corner:

Coordinates: NG 4495

-N. 479 E.

Date Finished: MAY 11, 1988

Scale: 1" = 10'

Inclination: -70°

Bearing: 240°

Total Depth: 479'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. #	Int. Sample #	Esti- mated	
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION														
0								0'-4' OVERBURDEN (CASING REMAINS)		TRACE Py			BQ					
10								4'-22.4' GABBRO - MEDIUM GREEN IN COLOUR, MEDIUM GRAINED, 25% MAFIC MINERALS (PYROXENE) 55% PLAGIOCLASE - WEAKLY FRACTURED WITH HAIR-LINE RANDOMLY ORIENTATED QUARTZ - CARBONATE FRACTURES, TRACE PYRITE - 4-9' - WEAKLY TO MODERATELY WEATHERED FROM SURFACE			90%							
20								22.4' - 29' MAFIC VOLCANIC (BASALT) - MEDIUM TO DARK GREEN, FINE GRAINED, MODERATELY FRACTURED WITH 1-5 MM QUARTZ - CARBONATE FRACTURE FILLINGS - TRACE PYRITE, SMALL ZONE OF SERICITIZATION/SHEARINGS ABOUT 3" IN CENTRE OF UNIT @ 55° TO C.A. - THIS UNIT IS LIKELY A XENOLITH TRAPPED IN THE GABBRO INTRUSIVE		TRACE Py		100						
30								29' - 36.2' GABBRO - MUCH AS 4'-22' - 1 1/2" ANGULAR XENOLITHS OF MAFIC VOLCANIC NOTED AT LOWER CONTACT (60° TO C.A.)		TRACE Py								
40								36.2' - 55.2' MAFIC VOLCANIC (BASALT) - AS 22.4' - 29' - 1-2% PYRITE OCCURRING AS FINE TO MEDIUM GRAINED DISSEMINATED ANHEDRAL TO SUBHEDRAL CUBES - UNIT IS FELDSPAR PYRITE IN SOME PLACES - THIS UNIT IS BELIEVED TO BE AN XENOLITH CONTAINED WITH IN THE GABBRO (SMALLER XENO'S NOTED IN GABBRO, FRACTURING OF UNIT IS INTERRUPTED AT CONTACT WITH GABBRO) - LOWER CONTACT IS SHARP @ 70° TO C.A.		1-2% Py		100						
50								55.2' - 74' GABBRO - AS 4'-22.4' - TRACE PYRITE - SLIGHT INCREASE IN SILICIFICATION NEAR LOWER CONTACT		TRACE Py								
60																		

RECEIVED
JUL 25 1988
PATRICIA MINING
DIVISION

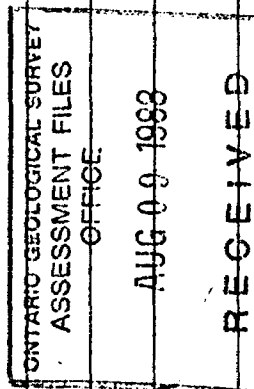
SHARP
22.4'

29' SHARP

34.9
1" IRREGULAR
PYRITE
36.2'

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

AUG 09 1988



Inclination: -70°

Ground Elev.:

Bearing: 240°

Project: McVICAR L 1446

Date Started: MAY 9, 1988

Date Finished: MAY 11, 1988

Total Depth: 479'

Page No: 2 Of 8

Ref. to Claim Corner:

Scale: 1" = 10'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	Sulphides %	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Sample	Int. Sample	Esti- mated
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION													
60						X		55.2' - 74' GABBRO (CONTINUED)		TRACE Py			80				
70						X					69	100					
						X		74' - 75.9' FELSIC INTRUSIVE		TRACE Py Po		100					
						X		74' SHARP @ 35° TO C.A. 75' SHARP		TRACE Py CP		79					
80						X		75.9' - 103.3' GABBRO									
						X		- AS 4'-22.4'				100					
						X		- MEDIUM GREEN, MEDIUM GRAINED, MASSIVE									
						X		- WEAKLY FRACTURED WITH HAIR-LINE FRACTURES AND									
						X		- FINE 1 CM. QUARTZ-CARBONATE FRACTURES									
						X		- TRACE PYRITE, TRACE CP AS FINE VEINLET									
90						X		- 85-85.8' - MAFIC VOLCANIC (BASALT) AS 36.2' - 55.2', UPPER AND				89					
						X		LOWER CONTACTS SHARP @ 60° & 50° RESPECTIVELY									
						X		PASSIVELY KENOLITH?				100					
100						X					99						
						X											
						X		103.3' - 107' MAFIC VOLCANIC (BASALT)		TRACE Py Po		100					
						X		- AS 36.2' - 55.2'		TRACE Py Po		109					
110						X		- KENOLITH WITHIN GABBRO (SHARP IRREGULAR CONTACTS &									
						X		TERMINATED FRACTURES WITHIN BASALT AT CONTACT)									
						X		- BASALT IS MODERATELY FRACTURED WITH HAIR-LINE, QUARTZ									
						X		- CARBONATE FILLED FRACTURES									
						X		- ONE 1 CM. IRREGULAR QUARTZ VEIN NOTED WITH TRACE Po									
						X		107 - 121.5' GABBRO									
						X		- AS 4' - 22.4'									
						X		- SILICIFICATION INCREASES TOWARD 121.5' DUE TO FELSIC									
						X		INTRUSIVE									
120						X		- 114.8 - 115.5' - 5-7% Po WITH 41% CP AS WISPS AND									
						X		SEMI-MASSIVE CLOTS									

Inclination: -70°

Ground Elev.:

Bearing: 240°

Project: McVICAR L.

Date Started: MAY 9, 1988

Date Finished: MAY 11, 1988

Total Depth: 479'

Page No: 3 Of 8

Ref. to Claim Corner:

Scale: 1" : 10'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Sample	Int. #	Esti- mated
	SERICITIZATION	CHLORITIZATION	CARBONITRATION	SILICIFICATION													
120								121.5		TRACE Py To			BQ				
								121.5' - 127.4' FELSIC INTRUSIVE - DARK GREY, BLACK - APHANITIC WITH 3-5% 1-2mm FELDSPAR PHENOCRYSTS. SHARP CONTACTS (ANGLES NOT DETECTABLE BECAUSE OF "BROKEN CORE") MASSIVE - UP TO 4% DISSEMINATED FINE GRAINED PYRITE CLUSTERS - WEAK TO NIL FRACTURING		1-4% Py	100			127.4			
130								127.4		10% Py	129				100	1964	
								127.4' - 134' BRECCIATED GABBRO/BASALT - MEDIUM TO DARK GREEN IN COLOUR, GRAIN SIZE IS VARIABLE FROM APHANITIC TO MEDIUM - HIGHLY SILICIFIED/CALCAREOUS CAUSING BRECCIATION - THIS ZONES OF MAFIC VOLCANIC WHICH MIGHT HAVE BEEN XENOLITHS - BRECCIATED UNIT CAUSED BY FELSIC INTRUSIVE 121.5'-127.4' - WEAKLY SERICITIZED IN PLACES, 10% PY AS WHIPS IN FINE DISSEMINATED GRAINS - LOWER CONTACT GRADATIONAL		TRACE TO 1% Py	100			133.4			
140								134			139						
								134' - 165.4' ALTERED GABBRO - UNIT IS WEAKLY TO MODERATELY SILICIFIED, MODERATELY TO HIGHLY FRACTURED (QUARTZ-CARBONATE FILL) - CONTAINS XENOLITHS OF BASALT, UNIT APPEARS MIXED - ALTERATION IS EXTREMELY VARIABLE THROUGHOUT UNIT 134'-134.5 - ALTERED GABBRO 134.5 - 135.4 - BRECCIATED BASALT 135.4 - 136.1 - ALTERED GABBRO 136.1 - 136.6 - MAFIC VOLCANIC 136.6 - 137.2 - ALTERED GABBRO 137.2 - 137.7 - MAFIC VOLCANIC 137.7 - 138.7 - GABBRO 138.7 - 142 - MAFIC VOLCANIC/BRECCIA 142 - 147 - ALTERED GABBRO 147 - 147 - FELSIC INTRUSIVE? 1% PY 147 - 152 - ALTERED GABBRO 152 - 165.4 - GABBRO (SILICIFICATION INCREASES TOWARD 165.4)		TRACE TO 1% Py	100			146	100	1965	
150								146		5% Py TRACE TO 1% Py	149						
								146			100						
160								159			159						
								165.4' - 202.3' INTENSELY SILICIFIED GABBRO - MEDIUM BLUE-GREEN-GRAY IN COLOUR, APHANITIC FOR THE MOST PART - OCCASIONALLY RELICT GABBROIC TEXTURE CAN BE NOTED BUT OFTEN NOT PRESERVED - EXTREMELY SILICIFIED, OCCASIONALLY TAKES ON A BANDING APPEARANCE (POSSIBLY RELICT FOLIATION/SHEARING) - 70-90% SILICA - TRACE VERY FINE GRAINED TYRITE (1% LOCALLY) - APPEARS INTRUSIVE IN PLACES - VERY WEAKLY FRACTURED WITH HAIR-LINE FRACTURES - TRACE CRICKITE		TRACE TO 1% Py	169			169			
170								165.4			100			174			
								169' ACID TEST CORRECTED $\angle = 66.5^\circ$									
180								179			179			179			
								"BANDING" @ 50° TO C.A.			100			186			1962

Hole No. ML-45

Project: McVICAR L 1446

Page No: 4 / Of 8

Casing Collar Elev.: Ground Elev.:

Date Started: MAY 9, 1988

Ref. to Claim Corner:

Coordinates: 4449 S -N. 4479 E.

Date Finished: MAY 11, 1988

Scale: 1" : 10'

Inclination: -70° Bearing: 240°

Total Depth: 479'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y	Samp. Int. SAMPLE #	Esti- mated
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION													
180	/							165.4'-202.3' INTENSLY SILICIFIED GABBRO (CONTINUED)		TRACE TO 1% Py		100	BQ	184	100	1967	
190							X				189						
							X					100		194	100	1968	
200	/						X				199			199			
							X	202.3'									
							X	202.3'-224.7' SILICIFIED GABBRO		TRACE TO 1% Py Po		100					
								- FINE TO MEDIUM GRAINED (VARIABLE THROUGH UNIT)									
								- MEDIUM GREY-GREEN IN COLOUR									
								- MODERATELY TO HIGHLY SILICIFIED									
								- GABBROIC TEXTURE EVIDENT									
								- HEAVILY TO MODERATELY FRACTURED - HARD-LINE TO SAND									
								- CARBONATE FRACTURES									
210							X	- WEAK FOLIATION @ 40-45° TO C.A.			209						
							X	- TRACE Py Po AS DISSEMINATED FINE GRAINS AND WISPY STRINGERS									
							X	1% LOCALLY									
							X	205.8-207.1 - INTENSLY SILICIFIED AS 165.4'-202.3'				100					
220							X				219						
							X					100		224.7			
							X	224.7-239' INTENSLY SILICIFIED GABBRO		NIL TO TRACE Py							
								- AS 165.4'-202.3'									
								- TAKES ON PROMINENT BLUEISH TINT, AS WELL AS PROMINENT									
								- BANDING @ 45° TO C.A.			229			224.7	100	1969	
								- IN BUNDLED SECTIONS SILICA APPEARS VERY MUCH AS CHERT									
								- OCCASIONAL MARL CLOTS									
								- RARELY GABBROIC TEXTURES ARE USABLE				100		234			
								- GRADATIONAL CONTACTS									
230							X										
							X										
							X										
240							X				239	100		239	100	1970	

Hole No. ML-45

Project: McVICAR L.

Page No: 5 Of 8

Casing Collar Elev.: Ground Elev.:

Date Started: MAY 9, 1988

Ref. to Claim Corner:

Coordinates: 4149 S -N. 4179 E.

Date Finished: MAY 11, 1988

Scale: 1" = 10'

Inclination: -70° Bearing: 210°

Total Depth: 479'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated #
	SERICITATION	CHLORITIZATION	CARBONATIZATION	SILICIFICATION												
240																
250								239-275.5 SILICIFIED GABBRO - MEDIUM GRAINED WITH OCCASSIONAL FINE GRAINED SECTION - MEDIUM TO DARK GREEN - MODERATELY TO HIGHLY SILICIFIED - MUCH AS 202.3-224.7 FEET GRAN SIZE ON AVERAGE IS LARGER - TRACE TO 1% PYRITE AS FINE DISSEMINATED GRAINS - FINE GRAINED SECTIONS OCCUR WITH "CLOTS" OF COARSER GRAINED MATERIAL - WEAK TO MODERATE QUARTZ - CARBONATE FRACTURING 260'-275.5' - FINE GRAINED WITH NUMEROUS MEDIUM GRAINED "CLOTS"		TRACE TO 10% Py	249	100	BQ			
260								259-259.6 SILICIFIED W/ 3" QUARTZ VEIN IRREGULAR			259	100				
270											269	100				
280								275.5 SHARP			279	100				
290								284.2 SHARP			289	100				
300								284.2-342.7' FELSIC INTRUSIVE - AS 121.5'-127.4' EXCEPT ONLY TRACE VERY FINE GRAINED PYRITE - SHARP IRREGULAR CONTACTS		TRACE Py						
								284.2-342.7' GABBRO - MEDIUM TO DARK GREEN IN COLOUR - MEDIUM GRAINED GENERALLY WITH FINE GRAINED SECTIONS CONTAINING "CLOTS" OF MEDIUM GRAINED GABBRO AS 239-275.5 - MODERATELY SILICIFIED - WEAK TO MODERATE HAIR-LINE TO 5MM QUARTZ - CARBONATE FILLED FRACTURES - TRACE Py - 299.6'-315.4' - FINE GRAINED WITH MEDIUM GRAINED "CLOTS" - GENERALLY MASSIVE - SILICIFICATION INCREASES TOWARD LOWER CONTACT		TRACE Py						

Hole No. ML-45

Project: McVICAR L. 1446

Page No: 6 Of 8

Casing Collar Elev.: Ground Elev.:

Date Started: MAY 09, 1988

Ref. to Claim Corner:

Coordinates: 4449 S N 4479 E.

Date Finished: MAY 11, 1988

Scale: 1" = 10'

Inclination: -70° Bearing: 240°

Total Depth: 479'

Logged By: B. HILL

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100%	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y	Samp. Int. SAMPLE #	Esti- mated
	SERICITIZATION	CHLORITIZATION	CARBONITIZATION	SILICIFICATION													
300							X	284.2-342.7' GABBRO (CONTINUED)		TRACE Py			BQ				
						X	X					100					
310						X	X					309					
						X	X					100					
320						X	X					319					
						Y	Y				100						
330						X	X	329' ACID TEST CORRECTED $\angle = 68.5^\circ$			329						
						X	X					100					
340						X	X					339					
						X	X	342.7' GRADATIONAL		TRACE Py		100					
350						X	X	349.5' GRADATIONAL	342.7'-349.5' HIGHLY SILICIFIED GABBRO - BUFF GREEN IN COLOUR, FINE TO MEDIUM GRAINED, HIGHLY SILICIFIED - TRACE PYRITE - MODERATELY FRACTURED WITH QUARTZ-CARBONATE MATRIX-LINE FRACTURES - GABBROIC TEXTURES ARE VISIBLE FOR THE MOST PART	TRACE Py		100		349.5	100	1971	
								355' GRADATIONAL	349.5-355' BRECCIATED GABBRO - MEDIUM GREEN IN COLOUR, HIGHLY SHEARED MAFIC ROCK IS REPLICATED IN A QUARTZ-CARBONATE MATRIX, SOME ROTATION OF CLASTS CAN BE NOTED - TRACE TO 1% PYRITE USUALLY ASSOCIATED WITH QUARTZ- CARBONATE	TRACE TO 1% Py		100		355			
360								355'-372.7' INTENSELY SHEARED ROCK (GABBRO?) (CONTINUED ON NEXT PAGE)		2-3% Py		100		359.5	100	1972	
								355'-372.7' INTENSELY SHEARED ROCK (GABBRO?) (CONTINUED ON NEXT PAGE)			359	100		359.5	100	1973	

ALTERED ZONE
355'-432.3'

Inclination: -70°

Ground Elev.:

Bearing: 240°

Project: McVICAR L. 1446

Date Started: MAY 9, 1988

Date Finished: MAY 11, 1988

Total Depth: 479

Page No: 7 Of 8

Ref. to Claim Corner:

Scale: 1" = 10'

Logged By: B. HILL

SECTION	ALTERATION				GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100 %	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti- mated
	SERICITIZATION	CHLORITIZATION	CARBONATIZATION	SILICIFICATION										
360						362.8-365.1 - MODERATE PY SHEARING @ 75° TO C.A.		2-3% Py				362 363.8	100 100	1973 1974
370						372.7 FOLIATION @ 70° TO C.A.		1% Py				367.4 371.4	100 100	1975 1976
380						372.7-391.8' SHEARED/FOLIATED GABBRO - MEDIUM TO DARK GREEN IN COLOUR, FINE GRAINED MODERATELY TO WELL FOLIATED AND VERY WEAKLY SHEARED - GRADATIONAL CONTACTS - 1% FINE GRAINED DISSEMINATED PYRITE - MINOR QUARTZ-CARBONATE PARALLEL TO FOLIATION						379 384	100 100	1977
390						GRADATIONAL 391.8 SHEARING @ 65° TO C.A.		2-3% Py				391.8 393.7	100 100	1978 1979
400						400.7 SHARP		4-6% Py				397 400.7	100 100	1980 1981
410						400.7-426.5' ALTERED FELSIC INTRUSIVE - TAN GREEN-BROWN IN COLOUR, GENERALLY APHANTIC, WEAK SHEARING (FOLIATION?) IS PRESENT THROUGH OUT UNIT @ 55° TO C.A. - WEAKLY SERICITIZED, VERY SILICIOUS, 4-6% PYRITE AS KING TO MEDIUM GRAINED STRINGERS BUT MORE OFTEN DISSEMINATED - WEAKLY FRACTURED WITH QUARTZ-CARBONATE FLOODING - PORE QUARTZ BOUDIN - 420.3-420.9 - QUARTZ VEIN WITH INCLUSIONS OF FELSIC INTRUSIVE						409 410.7	100 100	1982 1983
420						WEAKLY WEATHERED BY GROUND WATER						415.7 419	100 100	1984

Hole No. ML-45

Project: McVICKAR L. 1446

Page No: 8 Of 8

Casing Collar Elev.:

Ground Elev.:

Date Started: MAY 9 1988

Ref. to Claim Corner:

Coordinates: 449 S N. 449 E E.

Date Finished: MAY 11, 1988

Scale: 1"=10'

Inclination: -70° Bearing: 240°

Total Depth: 479'

Logged By: B. HILL

SECTION	ALTERATION				MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE 100 %	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Sample	Int. Sample #	Esti- mated
	SERICITIZATION	CHLORITIZATION	CARBONATIZATION	SILICIFICATION												
420							420.7' - 426.5' ALTERED FELSIC INTRUSIVE (CONTINUED)		4-6% Py			BQ	420.7	100	1984	
							426.5' - 432.3' BRECCIATED/SHEARED GABBRO - MUCH AS 349.5 - 355' EXCEPT INTENSITY IS SLIGHTLY LOWER - UPPER CONTACT IS SHARP, LOWER CONTACT IS GRADATIONAL		TRACE Py	429	100		426.5	100	1985	
430							432.3' - 439.4' GABBRO - MEDIUM TO DARK GREEN - MEDIUM GRAINED, MINOR CM SCALE QUARTZ-CARBONATE VEINING, 30% MAFICS (PYROXENE) 50% PLAGIOCLASE - TRACE FINE GRAINED DISSEMINATED PYRITE - LOWER CONTACT IS SOMEWHAT GRADATIONAL		TRACE Py		100		431	100	1986	
							439.4' - 447.4' BRECCIATED GABBRO - WEAKLY BRECCIATED 15-20% QUARTZ-CARBONATE MATRIX - SOME CLASTS ARE RECOGNIZABLE AS GABBRO WHILE IN OTHERS ORIGINAL TEXTURES ARE OBSCURED - TRACE FINE GRAINED DISSEMINATED PYRITE - 445.4' - 446.4' ALTERED FELSIC INTRUSIVE MUCH AS 400.7' TO 426.5', ONLY TRACE TO 1% PYRITE, SHARP CONTACTS		TRACE PYRITE	439	100		441	100	1987	
440							447.4' - 460.5' ANORTHOSITE PORPHYRY - LARGE 1 CM PLAGIOCLASE PHENOCRYSTS, ROUNDED PHENOCRYSTS GIVES UNIT A POP-CORN TEXTURE, UP TO 85% PHENOCRYSTS - WEAKLY SILICIFIED, NIL TO TRACE PYRITE, VERY WEAKLY FRACTURED		NIL TO TRACE Py	449	100		444			
450							460.5' - 473.7' TONALITE - FINE TO MEDIUM GRAINED, MEDIUM GREY GREEN, HAS "SALT & PEPPER" APPEARANCE - GENERALLY MASSIVE GRANULAR - VERY WEAKLY SERICITIZED IN PLACES, TRACE PYRITE - WEAK TO NIL FRACTURING 469.3 - 470.1 - XENOLITH OF ANORTHOSITE PORPHYRY		TRACE Py	459	100		469			
460							473.7' - 478' ANORTHOSITE PORPHYRY - AS 447.4 - 460.5'									
470							478' - 479' GABBRO - DARK GREEN, FINE GRAINED, WEAKLY SILICIFIED - TRACE PYRITE - WEAKLY FRACTURED WITH HAIR-LINE QUARTZ-CARBONATE FLOODED FRACTURES, SHARP CONTACT		NIL TO TRACE Py		100					
479							479' END OF HOLE			479						

479' ACID TEST
CORRECTED $\angle = 68.5^\circ$



Ontario

Ministry of
Northern Development
and MinesReport
of Work

DOCUMENT No.

W8803-193



52011SW0023 36 MCVICAR LAKE

900

Name and Postal Address of Recorded Holder	Prospector's Licence No.
BHP-UTAH MINES LTD. SUITE 900, 25 ADELAIDE ST. EAST	T. 793
TORONTO, ONTARIO M5C 1Y2	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 5439-4900	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only)	KRL	846064 et al							
	☐ Manual Work	see appended							
	☐ Shaft Sinking Drifting or other Lateral Work.	list							
	☐ Compressed Air, other Power driven or mechanical equip.								
	☒ Power Stripping								
☒ Diamond or other Core drilling									
☐ Land Survey									

All the work was performed on Mining Claim(s):

McVicar Lake G 212/
Stoughton Lake G 2228

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Diamond Drilling Contractor: Langley Drilling
49 Jayfield Road
Brampton, Ontario L6S 3G3

Equipment Used: JKS 300

Work Period: April 13 - May 11, 1988

* 4710 days allocated to KRL -
846064 et al (see appended list)
729 days to be * held in reserve
190

DDH NO.	CLAIM NO.	T.D. (FEET)
ML.35	846028	309
ML.36	846028	369
ML.37	846028	429
ML.38	846033	509
ML.39	846028	399-160
ML.40	846033	489
ML.41	846033	509
ML.42	846033	629
ML.43	846033	649
ML.44	846036/846033	669
ML.45	846033	479-179

TOTAL 4900
5439 feet

Date of Report JULY 21, 1988

Recorded Holder or Agent (Signature) Rodney N. Thomas

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

RODNEY N. THOMAS C/o BHP-UTAH MINES LTD. SUITE 900, 25 ADELAIDE ST. EAST

TORONTO, ONTARIO M5C 1Y2

Date Certified JULY 21, 1988

Certified by (Signature) Rodney N. Thomas

Table of Information/Attachments Required by the Mining Recorder

Rodney N. Thomas

Type of Work	Specific information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing: footage, diameter of core, number and angles of holes.		
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

REPORT OF WORK CLAIMLIST - JULY 21, 1988

MDIV CLAIM RECDATE PREVWKFILED WKDUE DATE AMTWK DUE TALLY WKFILED THIS REPORT

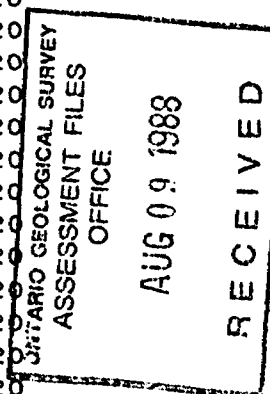
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ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
AUG 09 1988
RECEIVED

RECEIVED
JUL 25 1988
PATRICIA MINING
DIVISION

REPORT OF WORK CLAIMLIST - JULY 21, 1988

MDIV	CLAIM	RECDATE	PREVWKFILED	WKDUE	DATE	AMT	WKDUE	TALLY	WKFILED	THIS	REPORT
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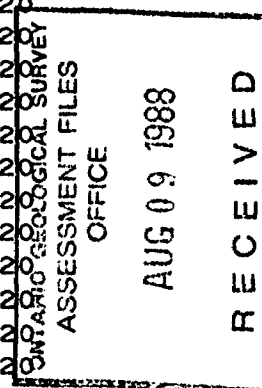


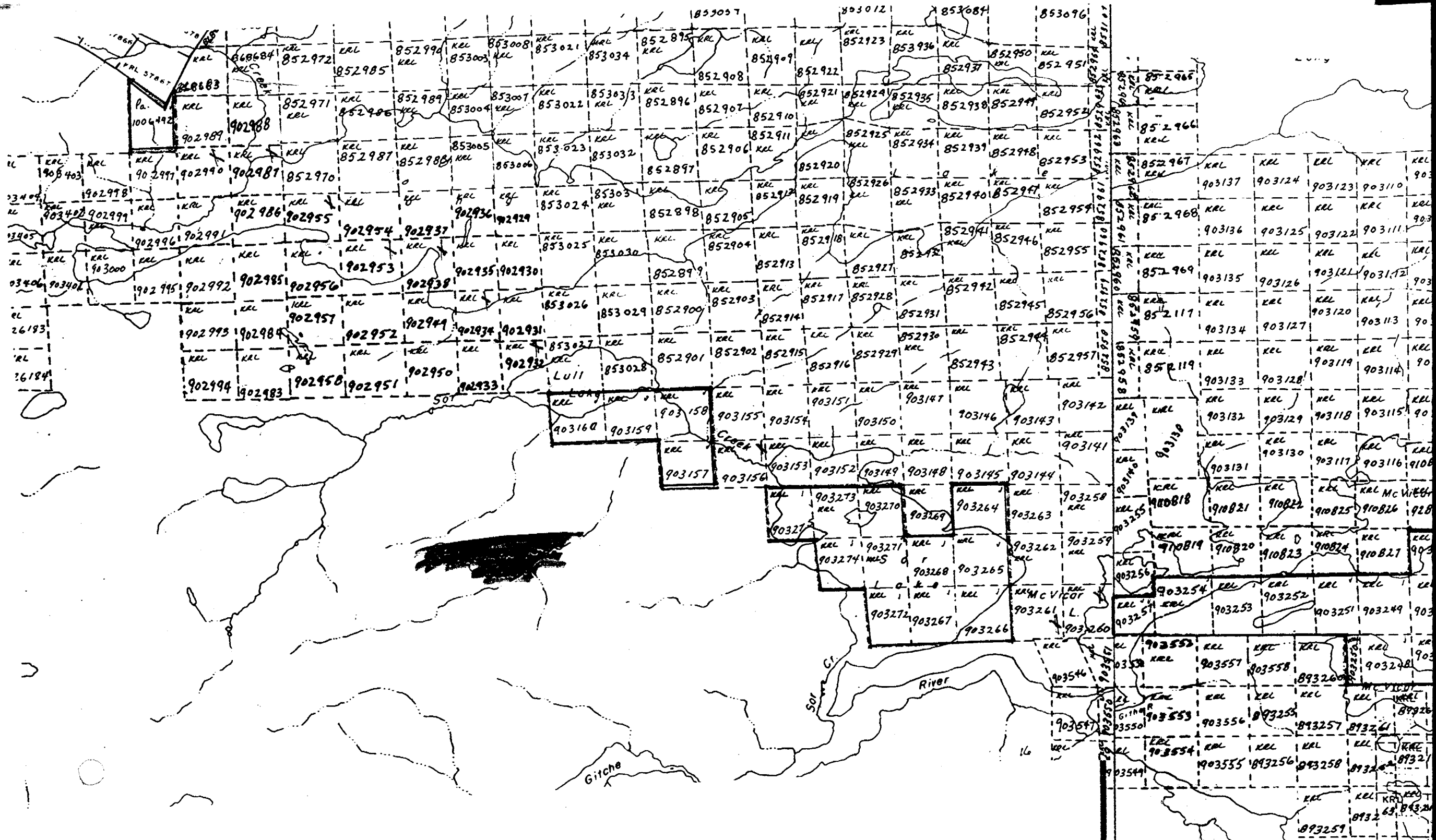
REPORT OF WORK CLAIMLIST - JULY 21, 1988

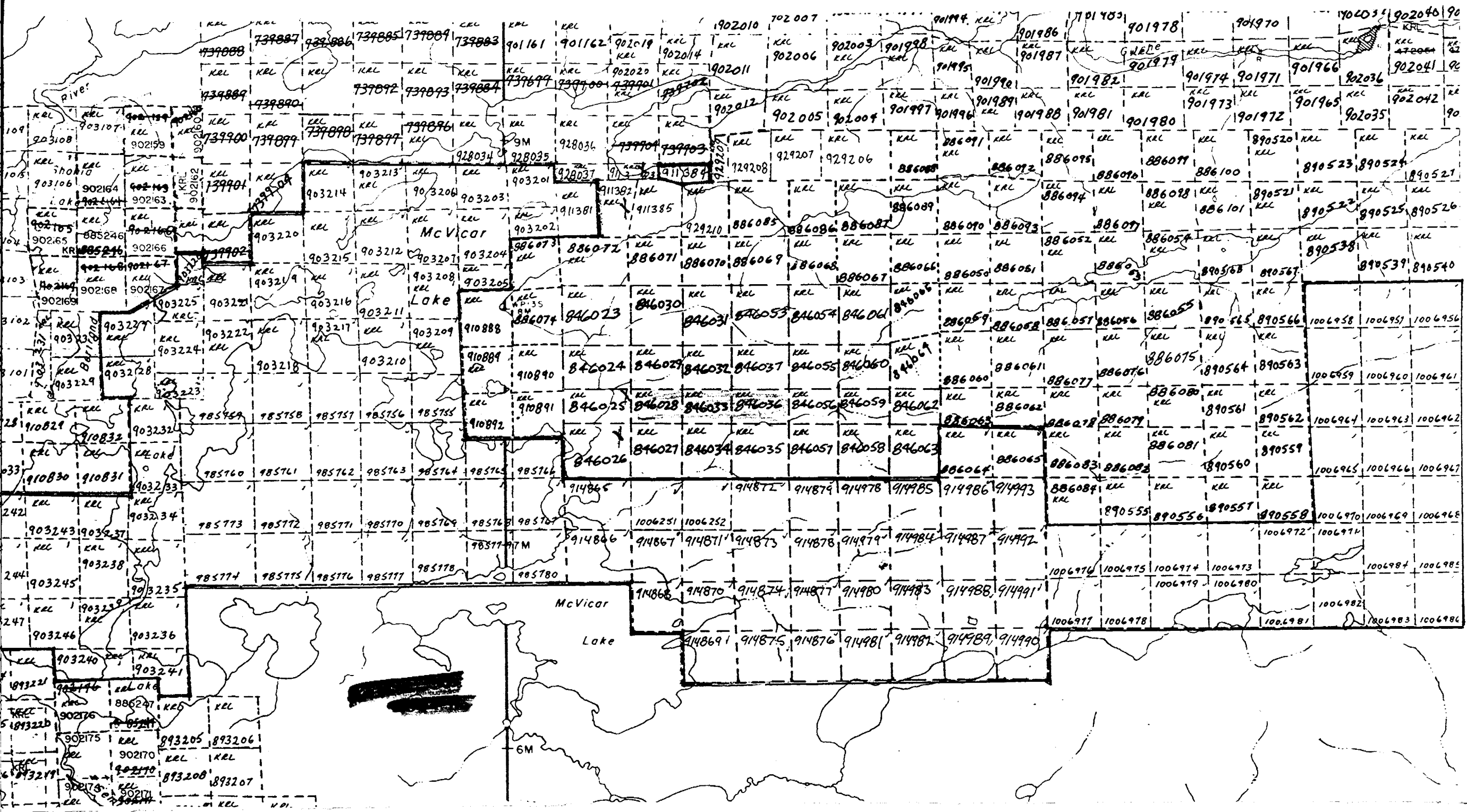
MDIV CLAIM RECDATE PREVWKFILED WKDUE DATE AMTWK DUE TALLY WKFILED THIS REPORT

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PA	1006959	871021	0	881021	20	1	20
PA	1006960	871021	0	881021	20	1	20
PA	1006961	871021	0	881021	20	1	20
PA	1006962	871021	0	881021	20	1	20
PA	1006963	871021	0	881021	20	1	20
PA	1006964	871021	0	881021	20	1	20
PA	1006965	871021	0	881021	20	1	20
PA	1006966	871021	0	881021	20	1	20
PA	1006967	871021	0	881021	20	1	20
PA	1006968	871021	0	881021	20	1	20
PA	1006969	871021	0	881021	20	1	20
PA	1006970	871021	0	881021	20	1	20
PA	1006971	871021	0	881021	20	1	20
PA	1006972	871021	0	881021	20	1	20
PA	1006973	871021	0	881021	20	1	20
PA	1006974	871021	0	881021	20	1	20
PA	1006975	871021	0	881021	20	1	20
PA	1006976	871021	0	881021	20	1	20
PA	1006977	871021	0	881021	20	1	20
PA	1006978	871021	0	881021	20	1	20
PA	1006979	871021	0	881021	20	1	20
PA	1006980	871021	0	881021	20	1	20
PA	1006981	871021	0	881021	20	1	20
PA	1006982	871021	0	881021	20	1	20
PA	1006983	871021	0	881021	20	1	20
PA	1006984	871021	0	881021	20	1	20
PA	1006985	871021	0	881021	20	1	20
PA	1006986	871021	0	881021	20	1	20

TOTAL 4710 165 4710









McVicar L.C. DDR #36