

# GM 49061

DRILL HOLE RECORD, MC LEOD PROPERTY

Documents complémentaires

*Additional Files*



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Énergie et Ressources  
naturelles

Québec 

# Drill Hole Record

SUMMARY LOG: MD-88-30



Property <b>M<sup>c</sup>LEOD</b>	District <b>MATAGAMI</b>	Hole No. <b>MD-88-30</b>	<table border="1"> <tr> <td>Tests at 31m</td> <td>102</td> <td>175</td> <td>250</td> <td>306</td> <td>Hor. Comp.</td> </tr> <tr> <td>Corr. Dip</td> <td>-95°</td> <td>-90°</td> <td>-88°</td> <td>-87°</td> <td>-85°</td> <td>Vert. Comp.</td> </tr> </table>	Tests at 31m	102	175	250	306	Hor. Comp.	Corr. Dip	-95°	-90°	-88°	-87°	-85°	Vert. Comp.
Tests at 31m	102	175		250	306	Hor. Comp.										
Corr. Dip	-95°	-90°	-88°	-87°	-85°	Vert. Comp.										
Commenced <b>AUG. 16/88</b>	Location <b>L 9+40 W; 0+18 N</b>	Core Size <b>3</b>	True Brg. <b>NO SPECKLE-SOIL.</b>	Logged by												
Completed <b>AUG. 22/88</b>	Objective <b>SULPHIDE ROCK IN WABASSEE BASALTS, KEY 9 LOWER TUFFITES</b>	% Recov. <b>99%</b>	Date <b>AUG. 23/88.</b>													

Claim **127819-3**  
 T Brg.  
 Collar Dip **-90°**  
 Elev.  
 Length  
 Hole No. Sheet

Feet/Metres		Description	sample number	interval	Analysis				
From	To								
0	30	OVERBURDEN. → NQ CASING LEFT IN							
30	281.7	PRIMARILY MASSIVE BASALTS: VARIABLY CARBONATIZED, EPIDOTIZED, CHLORITIZED, MAGNETIC. TUFF UNITS AT: 81-85m. (MAFIC, POSSIBLE SPHALERITE MINERALIZATION) 105-106m (MINERALIZED 10-12% PY) - FLOW TOP 142-144m. (CHLORITIZED) 180-187 (LAPILLI TUFF) 199-205 (HYALOCLASTIC - FLOW TOP)							
		DYKES / INTRUSIVES AT: 30-32 (FELDSPAR PORPHYRY DYKE) 130-131 (GABBROIC SILL) 144-156 (FELSIC DYKE) 187-199 (INTRUSIVE FELDSPAR PORPHYRY) 215-218 (GABBRO SILL?) 247-254 (DIORITE SILL?)							
281.7	313.6	FAULT ZONE - MAINLY MAGNETIC BASALT. - BADLY BROKEN - HOLE STOPPED AT 313.6 m. DUE TO FAULT.							

Ministère de l'Énergie et des Ressources  
 Service de la Géoinformation  
 Date: 9 NOV 1989  
 No G.M. **49061**

# Drill Hole Record

# SUMMARY LOG



Property	MCLEOD	District	MATAGAMI	Hole No.	MD-88-30 (CONTINUATION)
Commenced	RECOMMENCED NOV-21/88	Location		Tests at	Hor. Comp.
Completed	DEC-18/88	Core Size	BQ	Corr. Dip	Vert. Comp.
Co-ordinates	9+35 W, 0+20 N.	True Brg.		Logged by	
Objective	SULPHIDE ROCK, UPPER, KEY, LOWER TUFFITES.	% Recov.	99%	Date	DEC 18/88

Feet/Metres	Description	sample number	interval	Analysis
From	To			
313.6	333.8		1 whole rock	
333.8	336.9		7 assay samples.	
336.9	415.7		2 whole rocks, 3 assay samples.	
415.7	418.6			
418.6	427.1			
427.1	432.9		4 assay samples.	
432.9	493.2		1 whole rock.	
493.2	495.1			
495.1	510.1		1 whole rock	
510.1	516.6		} 12 assay samples 1 whole rock	
516.6	568.2			
568.2	569.8			
569.8	608.8		1 whole rock	
608.8	610.5			
610.5	678.0		2 whole rocks.	
678.0	679.6			
679.6	754.9		3 assay samples, 2 whole rocks.	
754.9	755.3			
755.3	797.2		1 whole rock	
797.2	798.05			
798.05	804.9		1 whole rock, 3 assay samples.	
804.9	825.0		1 whole rock	

# Drill Hole Record

(summary log-page 2)



Property	District	Hole No. MD-88-30	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
 T Brg.  
 Collar Dip  
 Elev.  
 Length  
 Hole No. MD-88-30 Sheet 2

Feet/Metres		Description	sample number	interval	Analysis					
From	To									
825.0	825.4	LAYERED CHERY TUFF (KEY TUFFITE)	10 assay samples.							
825.4	834.1	SILICIFIED MINERALIZED RHYOLITE								
834.1	883.7	MASSIVE AMYGDULAR, VARIOLITIC, BLEACHED RHYOLITES	3 whole rocks.							
883.7	949.1	MAGNETIC GABBRO SILL	2 whole rocks.							
949.1	949.4	ALTERED TUFF (LOWER TUFFITE?)	11 assay samples.							
949.4	952.7	HYBRID ZONE OF ALTERED RHYOLITE AND ALTERED GABBRO								
952.7	952.9	MASSIVE MAGNETITE / SPHALERITE?								
952.9	958.3	ALTERED RHYOLITE		1 whole rock						
958.3	969.0	MASSIVE AMYGDULAR AND SPHERULITIC RHYOLITES		1 whole rock						
		END OF HOLE AT 969.0 (CASING LEFT IN)								

MD-88-30 (Ext.)

DEPTH	250m	250m	306m	350	430m	500m	567m	650m	725m
DIP	-86°	-86°	-85½°	-85½°	-84¾°	-85°	-84°	-84°	-83½°
AZIMUTH	343°				333°		337°		342°

800m -84½°	875m -83½°	950m -84°						
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# Drill Hole Record



Property <u>McCLEOD</u>	District <u>MATAGAMI</u>	Hole No. <u>MD-88-30</u>	<u>30m</u> / <u>-85°</u>
Commenced <u>AUG. 16, 1988</u>	Location	Tests at <u>31m, 102m, 175m, 250m</u>	Hor. Comp.
Completed <u>AUG. 22, 1988</u>	Core Size <u>BQ</u>	Corr. Dip <u>-90°, -90°, -88°, -87°</u>	Vert. Comp.
Co-ordinates	True Brg.	Logged by	
Objective <u>MAGNETIC SULPHIDED ROCK IN LOWER WABASSEE BASALTS, KEY &amp; LOWER TUFFITES</u>	% Recov. <u>99%</u>	Date <u>Aug. 23/88</u>	

Claim 127819-3  
 T Brg.  
 Collar Dip -90°  
 Elev.  
 Length  
 Hole No. MD-8830 Sheet 1

Feet/Metres	Description	sample number	interval	Analysis
From To				
0.0 30.0	OVER BURDEN			
30.0 31.5	NQ CASING (CORE NOT RETRIEVED, BUT IS SAME AS 31.5 - 32.4 - FELDSPAR PORPHYRY DYKE) LEFT IN.			
31.5 32.4	FELDSPAR PORPHYRY DYKE (20 x φ) - 30-35% PALE CHECK-CHECKED, SUBHEDRAL PLAG. ? FELDSPAR CRYSTALS IN LIGHT GREENISH-GREY MATRIX. - FELDSPAR CRYSTALS ARE 1-2mm - NO PREFERRED ORIENTATION EXCEPT AT CT. - PLAG. ~ 4% 1-2m. CHLORITE CLOTS - MATRIX IS FINE-GRAINED MASS OF FELDSPAR, QUARTZ, CHLORITE & POSSIBLY HORNBLENDE IN TRACE AMOUNTS. - PHENOCRYSTALS ARE ALIGNED // TO LOWER CONTACT NEAR CONTACT ONLY - LOWER CONTACT AT 32° To CA. - CONTACT IS CHILLED OVER A 1 CM INTERVAL.			
	NOTE: BROKEN PIECE 31.8 - 32.2			
32.4 - 35.3	BASALT (VT φ) - MASSIVE, FINE-GRAINED, DARK GREEN FLOW - APHYRIC TEXTURE - 1% CARBONATE STRINGERS WITH UNIFORM ORIENTATION 25-40° To CA			

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
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Feet/Metres From To	Description	sample number	interval	Analysis				
	V7 <sup>cont'd.</sup> : TRACE PYRITE, MAINLY ASSOCIATED WITH CARBONATE STRINGERS, BUT ALSO AS DISCREET, ANHEDRAL, AGGLOMERATIONS UP TO 2 mm.							
	- CARBONATE APPEARS TO BE FRACTURE-FILLING RESULTING FROM LATE FRACTURING							
	- CONTACT TRANSITIONAL INTO NEXT UNIT.							
35.3 - 42.0	BASALT (V7 en H)							
	- MESH TEXTURED MASSIVE FLOW							
	- MEDIUM TO DARK GREEN.							
	- FORMER PHENOCRYSTS OF A MAFIC MINERAL (PYROXENE?) APPEAR TO HAVE RETROGRADED TO FINE, ANHEDRAL CLOTS OF EPIDOTE, QUARTZ, CARBONATE)							
	- CLOTS ARE PALE GREEN, REMNANT PHENOCRYST IS BLACK.							
	- THESE ANHEDRAL CLOTS LOCALLY SHOW A PREFERRED, FOLIATED, ORIENTATION AND LOCALLY SHOW NONE → FOLIATION AT 0-10° TO CA							
	- CROSS-CUTTING CARBONATE STRINGERS ARE CUT BY LATER EPIDOTE & QUARTZ-FILLED FRACTURES AT 35-45° TO CA.							
	- TRACE PYRITE IN RAPE 1-2 mm. FINE CRYSTAL AGGLOMERATIONS							
	- GRADATIONAL INTO NEXT UNIT							

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MP-88-30	Sheet 3
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Feet/Metres	Description	sample number	interval	Analysis
From To				
42.0 46.3	BASALT (V7 $\phi$ n) - SAME AS 32.4 - 35.3 EXCEPT - UP TO 2% CARBONATE IN STRINGERS NOW - AT 30-75° TO CA. - THESE ARE CUT BY EPIDOTE-FILLED FRACTURES	12501	43.75 43.9	whole rock
46.3 47.5	BASALT (V7E $\eta$ o) - AMYGDULAR FLOW UNIT. - VERY FINE, MEDIUM TO DARK GREEN. MATRIX - AMYGDULES FORM 10-15% OF ROCK - 1 TO 5 mm. SIZE - APPEAR TO HAVE RETROGRADED FROM A DARK MAFIC MINERAL TO A FINE SERICITIC MASS. - EPIDOTE-FILLED FRACTURES ABUNDANT 46.7-47.1			
47.5 51.2	BASALT (V7n $q$ $\Delta$ ) - DARK GREENISH-GREEN, MASSIVE FLOW <del>47.5-48.1</del> - FOLIATED AT 0° TO 70° TO CA - 48.1 - 48.55 - QUARTZ - CARBONATE - CHLORITE VEIN v.g. TRACE PY, CPY ON LOWER CONTACT - BRECCIFORM VEIN, WITH BASALTIC CHUNKS LARGELY ALTERED TO CHLORITE			



# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MP-87-30 Sheet 4
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Feet/Metres From To	Description	sample number	interval	Analysis				
	V7 n g mt cont'd. v.g. 49.25 - 49.3 - DISTINCT QUARTZ-CARBONATE VEIN AT 55° TO CA AND CUTTING ⊥ TO FOLIATION							
	v.g. - 49.75 - 49.9 - QUARTZ-CARBONATE-CHLORITE VEIN - BRECCIFORM, BARREN							
51.2 70.3	BASALT (V7 □ u Mt n) - MASSIVE, DARK GRAYISH-GREEN - APHYRIC TO PORPHYRITIC; LARGELY, SLIGHTLY PORPHYRITIC - PHENOCRYSTS OF AMPHIBOLE LESS THAN 1mm., BUT OCCASIONALLY UP TO 3mm - MAGNETIC FROM 51.0 TO 64.0, MAGNETITE IS A VERY FINE PRIMARY CONSTITUENT. - TRACE AMOUNTS OF VERY FINE PY. PRESENT SCATTERED IN MATRIX - POSSIBLY A BREAKDOWN PRODUCT OF AMPHIBOLE PHENOS. - 1-2% CARBONATE STRINGERS AT 30-70° TO CA. - 61.5-64.0 - EPIDOTE MARKS BLEACHED ZONES WHICH ARE POSSIBLY FLOW MARGINS							
70.3 - 74.4	BASALT (V7 ≠ n e) - SLIGHTLY SHEARED, DARK GREEN, APHYRIC, FINE-GRAINED BASALT - CARBONATE-QUARTZ STRINGERS AT 0-55° TO CA;    TO SHEARING IN MOST INSTANCES - PROMINENT SHEAR AT 72.9 AT 27° TO CA							

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MD-11-30 Sheet 5
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Feet/Metres	Description	sample number	interval	Analysis					
From To									
	V7 # n e cont'd. - 731 - 73.25 - EPIDOTE, QUARTZ, CARBONATE FRACTURE FILLINGS // TO SHEARING. - GRADATIONAL TRANSITION								
74.4 81.3	BASALT (V7 B u M t n) - SAME AS 51.2 - 70.3, BUT LESS MAGNETIC, LESS CARBONATE, AND PHENOS OF AMPHIBOLE ARE 2-3 mm. (LARGER) - SOME CARBONATE FRACTURE-FILLINGS EXHIBIT HEMATITE STAINING.								
81.3 84.7	MAFIC TUFF (V9 B c n) - MEDIUM TO DARK GREEN, FINE GRAINED - WELL Banded AT 20°-30° TO CA. - CHLORITE + CARBONATE PARALLEL TO BANDING - SOME CROSS-CUTTING QUARTZ-CARB. VEINLETS - EUTAXITIC TEXTURE - UNIDENTIFIED EUBEDRAL TO SUBHEDRAL PALE PINK MINERAL AT 82.4 TO 82.6 IN CHLORITE RICH ZONE - PALE BEAVIN SPHALERITE? PROMINENT ALONG CHLORITIC BANDS AT 82.3 TO 82.6 ~ 1% OF ROCK.	12602	82.0 82.2	whole rock					
					Zn	Cu	Pb	Ag	As
		12603	82.2 82.6		69	33	2	1	<10

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
					MD-78-30	6

Feet/Metres		Description	sample number	interval		Analysis					
From	To					Zn	Cu	Pb	Ag	Au	
54.7	104.95	<p><b>BASALT (V7 n, j)</b></p> <ul style="list-style-type: none"> <li>- DARK GRAYISH-GREEN, VERY FINE GRAINED</li> <li>- TEXTURE MAINLY APHYRIC, LOCALLY SLIGHTLY PORPHYRATIC, LOCALLY VESICULAR.</li> <li>- HIGH MAGNETITE CONTENT (1%) AS FINE, EVENLY DISTRIBUTED GRAINS.</li> <li>- PLAG. FELDSPAR IS PALE CREAMY-GREEN COLOR</li> <li>- UNIFORMLY SAUSSURITIZED</li> <li>- LOCALLY VESICULAR - 96.4 - 96.9</li> <li>- 101.0 - 103.4</li> <li>- 85.2 - 86.6</li> <li>- VESICLES FILLED BY CARBONATE &amp; QTZ.</li> <li>- QTZ - CARB. FRACTURE FILLINGS FORM 1-2% OF ROCK</li> <li>- AT PREDOMINANTLY 30°-60° TO CA.</li> <li>- HEMATITE ON FRACTURE SURFACES 98.4 - 98.8</li> <li>- ANHEDRAL AGGREGATIONS OF PY. FORM &lt;1% OF ROCK AT RANDOM INTERVALS.</li> </ul>	12503	93.35	93.5	whole rock					
104.95	105.7	<p><b>MINERALIZED TUFF (V9 c, py, j)</b></p> <ul style="list-style-type: none"> <li>- BANDED WITH ALTERNATING QTZ-CARB-PY BANDS AND CHLORITE-PY-CARB. BANDS AT 30°-50° TO CA.</li> <li>- 10-12% PY. - SYN VOLCANIC.</li> <li>- MINOR X-CUTTING QTZ-CARB. STRINGS.</li> </ul>	12601	104.9	105.7	69	11	9	<1	<10	

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MD-88-30	Sheet 7
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Feet/Metres	Description	sample number	interval	Analysis
From	To			
105.7	113.4			
	<p><b>BASALT / MINOR TUFF (V7/V9 j, q, c n) (FLOW TOP)</b></p> <ul style="list-style-type: none"> <li>- MEDIUM TO DARK GREEN, FINE GRAINED, LOCALLY TUFFACEOUS BASALT HORIZON.</li> <li>- CONFORMABLE QTZ.-CARB. ZONES AND X-CUTTING STRINGERS FORM 10-15% OF THIS UNIT.</li> <li>- MATRIX IS ALSO CARBONATE-ENRICHED</li> <li>- CHLORITE COMMON AT TUFFACEOUS CONTACTS WITH &amp; WITHOUT QTZ.-CARB.</li> <li>- PY, CPY LOCALLY ABUNDANT.</li> </ul> <p>107.6 - 107.65 FINE AGGLOMERATIONS OF PY FORM 4% OF ROCK</p> <p>109.4 - 109.5 FINE ANHEDRAL PY + LARGE XTALS OF EUNEDRAL PY FORM 7% ROCK</p> <p>112.55 - 112.6 - Tr CPY, 5% PY IN QTZ.-CARB. BAND.</p> <p>112.85 - 112.9 - 2% CPY, 5% PY " " " "</p> <p>113.05 - 113.1 - Tr CPY, 3% PY " " " "</p>			
113.4	130.4			
	<p><b>BASALT (V7, j, c n)</b></p> <ul style="list-style-type: none"> <li>- DARK GRAYISH-GREEN, FINE-GRAINED, MASSIVE BASALT CUT BY QTZ.-CARB STRINGERS - LOCALLY FOLIATED.</li> <li>- LOCALLY MAGNETIC</li> <li>- APHYRIC TEXTURE</li> <li>- TRACE PY. IN RANDOM CLOTS.</li> <li>- SHARP LOWER CONTACT @ 30° TO CA.</li> <li>- BROKEN CORE AT 120.9-121.0, 122.7-122.8, 121.7-121.8.</li> </ul>			

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MD-PF-30	Sheet 8
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Feet/Metres	Description	sample number	interval	Analysis				
From To								
130.4 131.1	GABBRO SILL (3G □ φ j) - MOTTLED LIGHT GREEN & BLACK. - FLOW TEXTURE - PROBABLY METAMORPHIC - UPPER CT. MARKED BY QTZ-CARB STRINGER AT 30° To CA, LOWER CT. SHARP AT 40° TO CA. - BLACK ELONGATE AMPHIBOLES (25%) IN FINE FELDSPAR/CHLORITE MATRIX.							
131.1 142.0	BASALT (V7 j c n) - SAME AS 113.4 - 130.4 - LOWER CONTACT VEIN GRADATIONAL INTO NEXT UNIT							
142.0 143.9	BASALTIC TUFF (V9 <sup>B</sup> φ c, j, q) - ALTERNATELY GREY AND DARK GREEN - ALTERNATING CHLORITE AND CARBONATE-RICH BANDS - BANDING AT 25-30° TO CA - 1-2% CLOTS OF PALE PY. - X-CUTTING QTZ-CARB STRINGERS FORM 4% - SHARP CT AT 143.9. - SHEARED AT 43° TO CA - BROKEN CORE 143.85 - 143.95 - LEUCOXENE SPECKLING, LARGE PINK FELDSPAR CRYSTALS, TUFFACEOUS FRAGS.							

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-30  
Sheet

Feet/Metres		Description	sample number	interval		Analysis				
From	To									
143.9	155.7	FELSIC DYKE (DYKE α □ q c h) - PALE BUFF PINK TO DARK PINK. - COARSE-GRAINED, PORPHYRITIC, LOCALLY SHEARED & BRECCIATED) - ROUND QTZ. PHENOS (UP TO 5mm. DIA.) FORM 25% OF ROCK - PINK K-FELDSPAR RICH GROUNDMASS CONTAINING FINE QUARTZ AND CALCITE. - FREQUENT FRACTURES FILLED BY CHLORITE, QTZ, CARB. - BROKEN CORE AT 145.7 - 146.5 150.6 - 151.0 153.8 - 154.0 154.5 - 154.8 - LOWER CONTACT IS CHILLED OVER 0.2 m.	12504	147.9	148.05	whole rk				
155.7	169.0	BASALT (V7 j, c h) - DARK GRAYISH-GREEN, FINE GRAINED. - APHYRIC TEXTURE - CUT BY FREQUENT QTZ-CARB. FRACTURE FILLINGS								
169.0	175.0	VARIOLITIC BASALT (V7* n, c j o) - MEDIUM GRAYISH-GREEN - VARIOLITIC ELONGATED FRAGS. IN CHLORITIC MATRIX FORM 90% OF ROCK - CONFORMABLE QTZ-CARB. PHENOS FORM 8-10% OF ROCK. - FOLIATION AT 30°-43° TO CA - FAST, GRADATIONAL CONTACTS ABOVE & BELOW UNIT.	12505	170.4	170.6	whole rk.				

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. <b>ND-PP-30</b>	Sheet <b>10</b>
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Feet/Metres		Description	sample number	interval		Analysis									
From	To														
175.0	180.3	<b>BASALT (V7jcn)</b> - SAME AS 155.7 - 169.0 - + TR PY AS PALE CLOTS RANDOMLY DISTRIBUTED.													
180.3	187.4	<b>LAPILLI TUFF (V9 □ ij)</b> - MEDIUM GREENISH-GRAY, PORPHYRITIC ROCK. - LAPILLI OCCUR 80% - LIGHT GREY, DARK GREEN MATRIX - APPEARS TO HAVE FORMED AS A FLOW OR SILL → LIQUID - LAPILLI MAINLY COMPOSED OF FINE FELDSPAR (5mm - 1cm SIZE) - 10% OF THIS UNIT IS FELDSPAR PORPHYRY OF INTRUSIVE ORIGIN - SHARP CONTACTS WITH LAPILLI TUFF - 1-2% CARBONATE STRINGERS													
187.4	199.3	<b>INTRUSIVE FELDSPAR PORPHYRY (2Tjn)</b> - MED. TO LIGHT GREY GROUNDMASS WITH 15% SUBHEDRAL, DIRTY WHITE, FELDSPAR CRYSTALS EVENLY DISTRIBUTED. - MASSIVE, PORPHYRITIC TEXTURE. - CONTACTS FAIRLY SHARP, CHILLED - UPPER AT 45° TO CA - LOWER AT 55° TO CA - 2% CARBONATE STRINGERS	12506	193.1	193.25										whole rock
199.3	205.0	<b>HYALOCLASTIC BASALT (V7 Δ cf) FLOW TOP</b> - MEDIUM GREEN TO BLACK MATRIX WITH SUBANGULAR PINK FRAGMENTS	12507	202.9	203.05										whole rock

# Drill Hole Record



Property	District	Hole No.			
Commenced	Location	Tests at	Hor. Comp.		
Completed	Core Size	Corr. Dip	Vert. Comp.		
Co-ordinates		True Brg.	Logged by		
Objective		% Recov.	Date		

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-11-30  
Sheet 11

Feet/Metres From To	Description	sample number	interval	Analysis					
	V7 Δ cf cont'd. FORMING 20% OF ROCK - 5% ARE DIRTY WHITE FELDSPARCS. - HYALOCLASTIC TEXTURE - UNFOLIATED. - VARIOLITES ON PILLOW SELVAGES - CHLORITE RICH LAYERS CONTAIN FINE CLOTS OF PY.								
205.0 215.4	BASALT (V7E) - MASSIVE, APHYRIC FLOW UNIT - MED. GREYISH-GREEN, FINE GRAINED, WITH 2% SCATTERED EPIDOTE CLOTS FROM < 1mm TO 1cm IN SIZE - MILDLY MAGNETIC UNIT. - TRACE PYRRHOTITE IN SOME FRACTURES.								
215.4 217.8	GABBRO SILL? (3G □ φ j) - MED. GREENISH GREY MATRIX WITH LARGELY DETEIORATED 0.5-1.5 cm. FELDSPAR X7ALS. - PORPHYRITIC, ALMOST OPHITIC TEXTURE - FELDSPAR PHENOC, BROKEN UP & SURROUNDED BY PYROXENE! FAULT (BROKEN ALTERED CORE) AT <del>216.5</del> 216.5 - 216.9								
217.8 219.4	SHEARED BASALT (V7 ≠ φ j) - SCHISTOSE, DARK GREEN, FINE GRAINED. - ≠ AT 20-30° TO CA - < 1% PY IN CHLORITIC PORTIONS.								



# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-30  
Sheet 12

Feet/Metres	Description	sample number	interval		Analysis
From To					
219.4 237.9	<p>MASSIVE BASALT (V7 je Mt)</p> <ul style="list-style-type: none"> <li>- MED. TO DARK GREENISH-GREY, FINE GRAINED.</li> <li>- APHYRIC MAINLY, LOCALLY SLIGHTLY PORPHYRITIC (1-2mm FELDSPAR PHENOS)</li> <li>- MAGNETIC THROUGHOUT</li> <li>- 1-2% CARBONATE STRINGERS, LOCALLY EPIDOTIZED.</li> <li>- SCATTERED FINE CLOTS OF PY, PO.</li> </ul>	12508	232.8	232.95	whole rock
237.9 241.6	<p>SHEARED BASALT (V7 ≠ j q φ)</p> <ul style="list-style-type: none"> <li>- MILDLY SCHISTOSE, GREEN TO DARK GREEN, FINE GRAINED.</li> <li>- CHLORITIZED, CARBONATE-QUARTZ VEINLETS &amp; STRINGERS.</li> <li>- PALE PY CLOTS (1%) ALONG SCHISTOSITY PLANES.</li> <li>- ≠ AT 35-40° TO CA.</li> </ul>				
241.6 246.6	<p>MASSIVE BASALT (V7 j)</p> <ul style="list-style-type: none"> <li>- TRANSITION INTO UNSHEARED MASSIVE BASALT.</li> <li>- DARK GREENISH-GREEN, APHYRIC TEXTURE, FINE GR.</li> <li>- 1-2% CARBONATE STRINGERS AT ALL ORIENTATION.</li> </ul>				
246.6 253.7	<p>DIORITE (SILL?) (2 D □ j)</p> <ul style="list-style-type: none"> <li>- LIGHT GREY, MEDIUM GRAINED, MASSIVE BUT LOCALLY PORPHYRITIC ROCK</li> <li>- CONTACTS DISTINCT BUT IRREGULAR.</li> <li>- 1% CARBONATE STRINGERS.</li> </ul>	12509	250.95	251.1	whole rock

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MD-88-30	Sheet 13
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Feet/Metres	Description	sample number	interval	Analysis				
From To								
253.7 259.4	<p>MASSIVE BASALT (V7j)</p> <p>- MED. GREEN, APHYRIC, FINE GRAINED, UNIFORM ROCK.</p> <p>- 3% RANDOM CARBONATE STRINGERS.</p> <p>- LOCAL MINOR SHEARING</p>							
259.4 268.8	<p>SHEARED BASALT (V7 <math>\phi</math> <math>\neq</math> j q)</p> <p>- MED. GREYISH-GREEN TO DARK GREEN, LOCALLY SCHISTOSE, LOCALLY SLIGHTLY SHEARED.</p> <p>- <math>\neq</math> AT 35-40° TO CA.</p> <p>267.4 - 268.0 - SHEARED DIORITE (2D <math>\neq</math> j)</p> <p>- BOTH CONTACTS OF SHEARED DIORITE MARKED BY MINERALIZED, SHEARED QUARTZ-CARBONATE VEINS 0.15m WIDE - 2-3% PY IN THEM.</p> <p>- LOWER CONTACT OF SHEARING IS GRADATIONAL.</p>							
268.8 281.7	<p>MASSIVE BASALT (V7 <math>\phi</math> j q Mt)</p> <p>- DARK GREENISH-GREY, APHYRIC TEXTURED, FINE GRAINED BASALT.</p> <p>- 2-4% QUARTZ-CARB. STRINGERS.</p> <p>- MAGNETIC, CONTAINING BOTH FINE BLACK MAGNETITE EVENLY DISTRIBUTED, AND RANDOM CLOTS OF PYRRHOTITE.</p> <p>- BROKEN CORE AT 273.7 - 274.0</p> <p>276.6 - 276.7</p> <p>280.5 - 280.6</p>							

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-30  
Sheet 14

Feet/Metres From To	Description	sample number	interval	Analysis
281.7 313.6	FAULT ZONE → MAINLY BASALT (V7 ▲ ≠ Mt) - 85% BADLY BROKEN CORE - PRIMARILY MASSIVE, UNALTERED BASALT, WHICH IS APHYRIC, MED. GREYISH - GREEN, MAGNETIC (SAME AS 268-8 - 281-7 ONLY BADLY FAULTED) - MAGNETITE OCCURS FAIRLY EVENLY THROUGHOUT AS FINE, BLACK GRAINS - <del>PIRRIT</del> PYRRHOTITE AS RANDOM CLOTS UP TO 4 mm. - LOCAL HEMATITE STAINING. - LOCALLY FOLIATED AT 50° TO 80° TO CA.  - HOLE CONSIDERED LOST IN FAULT ZONE & TERMINATED  END OF HOLE - CASING LEFT IN	12510	282.55 282.7	whole rock

don't type.

# Drill Hole Record



Property **M<sup>c</sup>LEOD** District **MATAGAMI** Hole No. **MD-88-30**  
 Commenced: **Nov. 21/88** → RE-COMMENCED Location Tests at Hor. Comp.  
 Completed Core Size **BQ** Corr. Dip Vert. Comp.  
 Co-ordinates **9+35W, 0+20N** True Brg. Logged by  
 Objective **SULPHIDE ROCK: UPPER, KEY, LOWER TUFFITES.** % Recov. Date

Claim  
 T Brg.  
 Collar Dip  
 Elev.  
 Length  
 Hole No. **MD-88-30** Sheet **15**

Feet/Metres		Description	sample number	interval		Analysis				
From	To					Zn	Cu	Pb	Ag	Au
313.6	333.8	<b>FAULT ZONE (V7 ▲ <math>\phi</math> Mt)</b> - INTERVALS OF DK. GREEN, FINE-GRAINED, CHLORITIZED, MAGNETITE-BEARING BASALT WHICH ARE FAIRLY INTACT, INTERSPERSED WITH INTERVALS OF EXTREMELY BROKEN CORE CONTAINING MUD SEAMS, CHLORITE SHEARS, EPIDOTE/QTZ./CARB. ALTERATION AND FRACTURE FILLINGS. - OPEN SPACE OCCURS AT 319.9 - 320.8. - MUD SEAMS OCCUR AT 318.0, 318.8, 319.0, 319.3, 319.5, 324.4, 327.8. - HEMATITE STAINING ON MANY FRACTURE SURFACES; MAGNETITE CONTENT VARIABLE UP TO 2%. - FAIRLY INTACT SEGMENTS INCLUDE: 313.6-315.9, 325.2-326.3, 327.0-328.7, 329.3-330.9, 331.3-333.2; REMAINING SEGMENTS EXTREMELY BROKEN TO VERY BLOCKY.	12105	332.0	332.2	white rock.				
333.8	336.9	<b>FAULTED MINERALIZED MAFIC TUFF (V9B ▲ Py Ch <math>\phi</math>)</b> - DK. GREEN TO BLACK, TO MED. GREEN WITH GREY CHERT LAYERS. - RICH IN SECONDARY (RECRYSTALLIZED) PYRITE = 6% OVER ENTIRE THICKNESS.; PYRITE IS ALMOST 100% RECRYSTALLIZED, BUT SOME FINE, SYNDEPOSITIONAL PYRITE REMAINS NEAR CHERTY LAYERS FROM 335.5 - 336.0 - MOST OF UNIT IS BADLY BROKEN UP, CHLORITIZED, SHEARED, WITH MINOR MUD SEAMS AT 336.0 AND 336.3.; TRANSITIONS INTO ADJACENT UNITS APPEAR TO BE GRADUAL. - CHERT LAYERS AT 42° TO CA; SI FOLIATION AT 45° TO CA; MUD SEAMS RELATED TO FAULT ZONE AT 18-25° TO CA.	12782	333.8	335.5					
			83	335.5	336.1					
			84	336.1	337.0					
			85	337.0	338.5					
			86	338.5	340.0					
			87	340.0	341.5					
			88	341.5	343.0					
336.9	346.6	<b>AMYGDULAR BASALT (V7 <math>\phi</math> ▲ <math>\neq</math> Py j)</b> - DK. GREEN WITH WHITE SPOTS.								

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 350m	Hor. Comp.
Completed	Core Size	Corr. Dip -85 1/2°	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MD-77-30	Sheet 16
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Feet/Metres From To	Description	sample number	interval	Analysis				
	V70φ ▲ Py ≠ j cont'd: MASSIVE, FINE GRAINED, APHYRIC UNIT WITH 10-15% IRREGULARLY-SPACED AMYGDULES OF QTZ/CARB. -NON-MAGNETIC, CONTAINS 2-3% PYRITE IN PORTION UP TO 341.9 AS RANDOM -AGGREGATES AND AS SECONDARY CONCENTRATIONS ALONG S1 SCHISTOSITY AND IN CARB/QTZ. STRINGERS. -S1 FOLIATION VERY WELL DEVELOPED LOCALLY - AT 25° TO 50° TO CA. -UNIT IS FAULTED WITH RESULTANT EXTREMELY BROKEN UP CORE AT 340.3-342.3 AND 346.4-346.6 -LOWER CT. IS VERY GRADATIONAL: UNIT REPRESENTS TOP OF BASALT FLOW FORMED IN SHALLOW WATER WITH MAFC TUFF LAYER COMPLETING THE CYCLE ON TOP.							
346.6 367.5	MASSIVE BASALT (V70φ η j q) -DK. GREEN, MASSIVE; CHANGING FROM AMYGDULAR (3-5% QTZ/CARB-AMYGDULES) IN UPPER PORTION TO A MASSIVE CHLORITIZED, SAUSSERITIZED BASALT -ENTIRE UNIT IS CHLORITE AND CARBONATE RICH AND HAS LOCALLY WELL-DEVELOPED FOLIATION AT 28° TO 35° TO CA -348.0-348.2: WELL-MINERALIZED QTZ/CARB./CHLORITE/PY/CPY. VEIN AT 40°-50° TO CA. -CONTAINS 10% PYRITE, 2% CHALCOPYRITE AS COARSE AGGREGATES WITHIN CARBONATE-RICH PART OF VEIN -366.4 = SHEAR AT 15° TO CA. IN CHLORITIZED, SAUSSERITIZED BASALT. -BADLY BROKEN CORE: 363.7-363.9, 364.2-364.6	12789 90 91	346.9 347.9 347.9 348.2 348.2 349.2	Zn	Cu	Pb	Ag	Au
		12106	362.85 363.0	whole rock.				

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 430m	Hor. Comp.
Completed	Core Size	Corr. Dip -84 3/4°	Vert. Comp.
Co-ordinates		True Brg. 001°	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-30  
Sheet 17

Feet/Metres From To	Description	sample number	interval	Analysis
367.5 372.2	<p><b>FAULT ZONE (V7▲φ)</b></p> <ul style="list-style-type: none"> <li>- MAINLY EXTREMELY BROKEN CHLORITIC BASALT; LOCALLY CARBONATE-POOR, EPIDOTE RICH.</li> <li>- SHEARING INTENSE LOCALLY; SILICIFIED, TUFFACEOUS LOCALLY BUT SO BADLY BROKEN THAT CONTACTS NOT EVIDENT.</li> </ul>			
372.2 376.8	<p><b>AMYGDULAR BASALT. (V7○cj)</b></p> <ul style="list-style-type: none"> <li>- MED. GREEN, MASSIVE BASALT WITH LOCAL PLAGIOCLASE PHENOCRYSTS OF 1-2mm. SIZE, PLUS 5% 3-4mm. AMYGDULES OF CHLORITE AND CARBONATE.</li> <li>- HEMATITE STAINS ON FRACTURE SURFACES; PARTLY HEALED FAULT ZONE AT 374.9-375.0.</li> </ul>			
376.8 388.4	<p><b>FAULTED, SHEARED PORPHYRITIC BASALT (V7□▲≠φ)</b></p> <ul style="list-style-type: none"> <li>- MEDIUM GREYISH-GREEN PORPHYRITIC BASALT; PHENOCRYSTS OF PLAGIOCLASE (1-2mm.) ARE LOCALLY PROMINENT BUT OBSCURE FOR THE MOST PART.</li> <li>- 70% OF THIS SEGMENT IS BADLY BROKEN UP, SHEARED, CONTAINING MUD SEAMS.</li> <li>- WORST FAULTED PORTIONS ARE 377.7-378.8, 379.7-379.9, 385.2-386.8, 387.2-388.4</li> </ul>			
388.4 415.7	<p><b>MASSIVE MAGNETIC BASALT (V7Mt▲φeq)</b></p> <ul style="list-style-type: none"> <li>- DARK GREEN, FINE-GRAINED, APHYRIC, MASSIVE, UNIFORM UNIT.</li> <li>- Pervasively chloritized; LOCAL CHLORITE PHENOCRYSTS (AFTER PYROXENE?)</li> <li>- ABUNDANT X-CUTTING STRINGERS OF EPIDOTE &amp; QUARTZ.</li> <li>- TRACE PYRITE AS RANDOM CLOTS THROUGHOUT; VARIABLY MAGNETIC - PROBABLY UP TO 2% MH.</li> <li>- CUT BY BASALTIC DYKE WITH FAINTLY DIABASIC TEXTURE AT 399.1-399.9</li> </ul>	12107	402.0 402.2	whole rock

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. M.A. 55-10	Sheet 18
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Feet/Metres From To	Description	sample number	interval	Analysis						
	V7Mt $\Delta \phi_{eq}$ cont'd. - MANY STRECHES OF BROKEN CORE AND SLIGHTLY SHEARED BASALT, INCLUDING: 401.5-401.9, 389.8-390.0, 390.8-391.4, 392.0-392.1, 403.3-403.7, 404.3-405.0, 406.8-408.9, 411.2-411.6 - BASALTIC DYKE AT 412.8-414.1 WITH FAINTLY DIABASIC TEXTURE.									
415.7 418.6	MAFIC TUFF (V9B $\phi_{nq}$ ) - MAINLY MED. TO DK. GREEN LAMINATED CHOKITE AND CARBONATE RICH, FINE, ASHY TUFF; NON-MAGNETIC - PRIMARY BEDDING OBSCURED BY S1 FOLIATION, WELL-DEVELOPED AT 24-27° TO CA. - TOP OF UNIT MARKED BY GREY AND WHITE FRACTURED QUARTZ VEIN AT 415.7-416.0, WHICH IS POORLY MINERALIZED (TR. PY.) - 416.0-416.3 - BADLY BROKEN CORE MARKING A MINOR FAULT ZONE AT COMPETENCY CONTRAST. - 418.0-418.3 - CHERT BANDS LAMINATED AT 26° TO CA. - LOWER CT. MARKED BY QTZ/CARB. BRECCIA AT 418.6-418.7.									
418.6 427.1	MAGNETIC AMYGDULAR BASALT (V7Mt $\odot \phi_{qj}$ ) - DK. GREEN, FINE-GRAINED, APHYRIC; CONTAINS <5% 2-4mm. AMYGDULES OF CARBONATE AND/OR PYRITE (PYRITE <1% OF ROCK VOLUME) - UNIT VARIABLY MAGNETIC AND CUT BY NUMEROUS QTZ/CARB. STRINGERS. - 423.9-424.6: PORPHYRITIC, CARBONATE-RICH, INTERMEDIATE DYKE. - CTS. AT 33° TO CA. - Pervasively chloritized; increasing pyrite content nearing lower CT. - LOWER CT. MARKED BY SHEAR & MUD SEAM AT 22° TO CA.									

# Drill Hole Record



Property	District	Hole No.
Commenced	Location	Tests at
Completed	Core Size	Corr. Dip
Co-ordinates		True Brg.
Objective		% Recov.
		Hor. Comp.
		Vert. Comp.
		Logged by
		Date <i>Nov. 26 / 89</i>

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. <i>112</i>	Sheet <i>19</i>
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Feet/Metres		Description	sample number	interval		Analysis				
From	To					Zn	Cu	Pb	Ag	Au
427.1	432.9	MAFIC TUFF (V9B ▲ ≠ Py)								
		- MED. TO DK. GREEN TO ALMOST BLACK; FINE-GRAINED, SHEARED, LOCALLY VERY BROKEN UP AND WITH MUD SEAMS; TOP OF UNIT MARKED BY QTZ/CARB/CHL. BRECCIA (427.1-427.4) WITH 8% PYRITE OVER 0.3m; NON-MAGNETIC.	12792	427.0	428.5					
		- FOLIATION VARIES WIDELY FROM 45° TO 0° TO CA.	93	428.5	430.0					
		- CHLORITE RICH BRECCIA & TUFF AT 427.8-428.8 - BLACK WITH 2% PYRITE.	94	430.0	431.5					
		- 428.7-430.4 IS EXTREMELY SHEARED AND BROKEN UP - FOLIATION APPEARS PARALLEL TO BEDDING HERE AT 5° TO 20° TO CA; 3cm. PYRITIC, CHERTY LAYER OCCURS AT 429.7	95	431.5	433.0					
		- LOWER PORTION IS REPETITION ON mm. SCALE OF FINE CHLORITIC TUFF BANDS (<1% PYRITE)								
		- LOWER CT. MARKED BY SHEAR (MUDDY) AT 31° TO CA								
432.9	493.2	MASSIVE MAGNETIC BASALT. (V7 Mt φ 0 qj)								
		- DK. GREEN TO DK. GREYISH-GREEN; VARIABLE TEXTURE - MAINLY FINE-GRAINED, APHYRIC; LOCALLY SLIGHTLY PORPHYRITIC WITH CHLORITIZED PHENOCRYSTS; LOCALLY AMYGDULAR WITH SCATTERED AND CLUSTERED AMYGDULES OF CARB/QTZ.; BUT UNIT IS FAIRLY UNIFORM MASSIVE BASALT WITH FINE, APHYRIC TEXTURE, Pervasively chloritized.	12108	436.5	436.65	whole rock.				
		- PYRITE OCCURS RARELY AS SCATTERED CLOTS.; MAGNETIC THROUGHOUT (EXCEPT ADJACENT TO QTZ/CARB. STRINGERS) - MAGNETITE IS FINE AND OCCUPIES TRACE TO 3% OF ROCK.								
		- DEGREE OF BRITTLE FRACTURING HAS DROPPED SUBSTANTIALLY - ONLY MINOR LOCAL SEGMENTS OF BROKEN CORE.								
		- QTZ/CARB. STRINGERS COMMON, AS WELL AS QTZ/EPIDOTE FRACTURE-FILLING AND HEMATITE STAINING; MAGNETITE CONTENT VARIABLE, DECREASING TO ZERO AT BOTTOM OF FLW.								



# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 500m	Hor. Comp.
Completed	Core Size	Corr. Dip -85°	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet 2A
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Feet/Metres		Description	sample number	interval		Analysis						
From	To											
493.2	495.1	<p>WELDED TUFF (V9in)</p> <p>- MED. GREENISH-GREY UNIT CONSISTING OF ACCRETIONALLY LAPILLI-SIZED, ROUNDED, OBLONG MASSES WHICH ARE LIGHT GREY AND CARBONATE-RICH WITH CHLORITIC INTERSTITIAL MATERIAL MAKING UP &lt;15% OF ROCK.</p> <p>- BOTH UPPER AND LOWER CONTACTS ARE BANDED, CARBONATE-RICH; BANDING AT 10°-25° TO CA; UPPER CT. BROKEN CORE; LOWER CT. DISCORDANT AT 34° TO CA.</p> <p>- 6 cm. QTZ/CARB. VEINLET AT 493.5.</p>										
495.1	510.1	<p>MASSIVE BASALT (V7φ)</p> <p>- DK. GREEN WITH SPECKLED APPEARANCE DUE TO PERVASIVE SAUSSURITIZATION.</p> <p>- MASSIVE, FINE-GRAINED, APHYRIC; PERVASIVELY CHLORITIZED, NON-MAGNETIC.</p> <p>- GLOMEROPHYRIC TEXTURE PARTIALLY DEVELOPED AT 506.4 - 510.1 (FLOW BASE).</p> <p>- X-CUT BY CARB. STRINGERS AND SEVERAL CHLORITIC MUD SEAM PARTINGS.</p>	12109	496.95	497.1	with No. rock.						
510.1	516.6	<p>MAFIC MINERALIZED TUFF (V9BφηPyCh) (UPPER TUFFITE)</p> <p>- MED. TO DK. GREEN WITH REMOBLIZED PARTIAL BEDS AND WISPS OF GREY CHERT AND/OR CARB.</p> <p>- CHERT AND/OR CARB. CONSTITUTE 10-12% OF ROCK AND OCCUR AS REMNANT STRUCTURES IN COMPLETELY CHLORITIZED TUFFACEOUS MATRIX: POSSIBLY REPRESENTING TWO PHASES OF DEPOSITION - AN EARLIER MINOR CHERTY TUFF HORIZON WHICH WAS DISRUPTED, BROKEN UP BY LATER MAFIC CHLORITIC TUFF DEPOSITION.</p> <p>- ~ 8% PYRITE MAINLY AS RECRYSTALLIZED PYRITE ASSOCIATED WITH CARB. &amp; CHERT.</p> <p>- 513.9 - 514.9 IS BEST MINERALIZED SEGMENT - DK. BROWN MINERAL (SPHALERITE) TRACE TO 1%</p>	12796	510.1	511.4	Zn	Cu	Pb	Ag	Au		
			97	511.4	512.4							
			98	512.4	513.9							
			99	513.9	514.9							
			12800	514.9	516.6							
			01	516.6	518.0							

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 567m	Hor. Comp.
Completed	Core Size	Corr. Dip -84°	Vert. Comp.
Co-ordinates		True Brg. 337°	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
					MAN-567-2	21

Feet/Metres From To	Description	sample number	interval		Analysis					
					Zn	Cu	Pb	Ag	Au	
	V9BØη Py Ch cont'd: 15-16% PYRITE IN INTERVAL 513.9-514.9. - DISCORDANT CT. AT 510.1 AT 85° TO CA.; LOWER CT. IS GRADATIONAL. - ORIGINAL BEDDING DISRUPTED - POSSIBLY AT 31° TO CA; FOLIATION AT 30°-40° TO CA.									
516.6 568.2	CARBONATIZED, SILICIFIED ANDESITE (V6ησ Pyjq) - MED. GREEN TO MED. GREENISH-GREEN UNIT - MINOR VARIATIONS IN TEXTURE FROM MAINLY FINE-GRAINED, APHYRIC TO MILDLY PORPHYRIC - WITH PLAGIOCLASE PHENOCRYSTS OF 1-2mm. IN FINE MED. GREEN LIGHTLY CHLORITIZED MATRIX. - LOCALLY AMYGDULAR: EG. NEAR TOP OF UNIT - CARB./QTZ. AMYGDULES FORM 8-10% OF ROCK - GREAT ABUNDANCE OF QTZ/CARB. STRINGERS X-CUTTING AT VARIOUS ANGLES: APPARENTLY TWO GENERATIONS OF FRACTURING - AN EARLIER, MINERALIZED, SYN-TUFF-DEPOSITION SET; AND A LATER UNMINERALIZED X-CUTTING SET OF TYPICAL QTZ/CARB./HEM. STRINGERS. - EARLIER SET CHARACTERIZED BY ABUNDANCE OF SECONDARY (RECRYSTALLIZED) PYRITE IN GREY, CARBONATE-FILLED FRACTURES WHICH LOCALLY HAVE WISPY APPEARANCE. → 531.7 - EXAMPLES AT 519.4, 521.3, 521.6, 522.7, 523.5, 524.9, 526.4, 527.2, 536.1. - BECOME LESS COMMON, EVENTUALLY NON-EXISTENT AFTER 542. - BROKEN CORE REPRESENTING MINOR FAULTS AT 527.5-527.9, 533.7-533.8, 541.7, 554.8-555.3 - LOWER CT. ABRUPT, MARKED BY BROKEN CORE; CARB./QTZ. VEINLET AT 80° TO CA.	12802	518.0	519.5						
		03	519.5	521.0						
		04	521.0	522.0						
		05	522.0	523.5						
		06	523.5	525.0						
		07	525.0	526.5						
		12110	541.1	541.25	whole rock					
568.2 569.8	INTERMEDIATE DYKE (DYKE ijcPy) - MED. TO DK. GREENISH-GREY WITH LOCAL PINKISH TINT; FINE-GRAINED, APHYRIC.									

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length

Hole No. MD-88-30  
Sheet 22

Feet/Metres From To	Description	sample number	interval	Analysis
	DYKE i-jc Py cont'd: CARBONATIZED, AND X-CUT BY NUMEROUS CARB. STRINGERS; BOTH CONTACTS MARKED BY CHLORITIC SHEARS, LOWER MINERALIZED WITH 20% EUBEDRAL PYRITE OVER 0.1m.			
569.8 608.8	ANTHOPHYLLITE-BEARING BASALT (V70 anth jg) - BUFF TO MED. TO DK. GREEN; TEXTURE VARIABLE - LOCALLY PILLOWED BASALT; LOCALLY AMYGDULAR; LOCALLY MASSIVE, APHYRIC. - RADIATING MASSES OF CREAMY-YELLOW ANTHOPHYLLITE OCCUR AT PILLOW AND/OR FLOW MARGINS - WHICH ARE SOMETIMES VITROCLASTIC AND MINERALIZED WITH SUB TO EUBEDRAL PYRITE. - 569.8 - 582.2: PILLOWED BASALT, LOCALLY AMYGDULAR (PLAG., QTZ/CARB. AMYGDULES), WITH THREE POORLY DEVELOPED VITROCLASTIC HORIZONS; ABUNDANT CARB./QTZ./CHLORITE STRINGERS. - 582.2 - 588.5: MASSIVE, APHYRIC BASALT; SLIGHTLY SAUSSERITIZED; X-CUT BY ABUNDANCE OF QTZ/CARB STRINGERS. - 588.5 - 596.0: MASSIVE, GREY, SILICIFIED, VERY FINE-GRAINED APHYRIC BASALT; HOSTS CHLORITIC FAULT AT 592.9-593.1, AND MANY QTZ. STRINGERS; GRADUAL TRANSITION INTO AMYGDULAR BASALT. - 596.0 - 608.8: AMYGDULAR, SILICIFIED BASALT; FINE, APHYRIC, CONTAINING UNEVENLY-DISTRIBUTED AMYGDULES OF QTZ/CARB, PLAGIOCLASE; ALSO ANTHOPHYLLITE CLUSTERS AT POSSIBLE FLOW CONTACTS.; LOWER CT. SHARP WITH QTZ./CARB. SHEAR AT 77° TO CA	12111	597.6 597.75	whole rock
608.8 610.5	INTERMEDIATE DYKE (DYKE i □) - GREENISH-GREEN, MEDIUM-GRAINED, PORPHYRITIC DYKE WITH BOTH CONTACTS MARKED BY QTZ./CARB./CHLORITE SHEARS; 2-4mm CHLORITIZED PYROXENE? PHENOCRYSTS FORM			

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 650 m	Hor. Comp.
Completed	Core Size	Corr. Dip -84°	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. M.D.-88-27	Sheet 23
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Feet/Metres	Description	sample number	interval	Analysis
From To				
	DYKE $\square$ cont'd: 12-14% OF DYKE; LOCALLY PLAGIOCLASE PHENOS.			
610.5 652.5	<p>MASSIVE BASALT (V7qe)</p> <ul style="list-style-type: none"> <li>- DK. GREEN, SPECKLED; MASSIVE, UNIFORM, UNALTERED, UNDEFORMED BASALT FLOW.</li> <li>- TEXTURE IS FINE-GRAINED TO ALMOST MEDIUM-GRAINED LOCALLY; 55-65% FINE MAFIC MINERALS, 15-25% 1mm. DK. QTZ. CRYSTALS; 20-30% PLAGIOCLASE CRYSTALS - CAUSING THE SPECKLED APPEARANCE.</li> <li>- X-CUT BY NUMEROUS QTZ. STRINGERS, SOME WITH EPIDOTE, SOME WITH CARBONATE.</li> <li>- LOWER PORTION IS SLIGHTLY PORPHYRATIC AND BECOMES GLOMEROPHYRIC FROM 638 TO 647 (4-6mm. ROUND GLOMEROCLASTS OF PLAGIOCLASE)</li> <li>- SHEARED, BROKEN CORE AT 652.1-652.4; SHEARING AT 20-32° TO CA.</li> <li>- LOWER CT. ABRUPT AT 39° TO CA.</li> </ul>	12112	616.8 616.95	whole rock
652.5 678.0	<p>AMYGDULAR, SILICIFIED BASALT (V700σqj)</p> <ul style="list-style-type: none"> <li>- MED. GREY TO GREENISH-GREY; FINE-GRAINED, APHYRIC WITH ABUNDANT, UNEVENLY DISTRIBUTED AMYGDULES OF DK. QTZ, MINOR CARB.</li> <li>- UNIT IS VERY FRACTURED, AND IS RIDDLED WITH QTZ/CARB. STRINGERS</li> <li>- SERICITIC SHEAR AT 29° TO CA AT 656.9-657.0</li> <li>- 661.3 - 662.5 UNIT IS SERICITIZED, CHLORITIZED AND SPHERULITIC WITH VARIABLE FOLIATION OF 0-20° TO CA.</li> <li>- 661. - 678 IS SERIES OF AMYGDULAR PILLOWS WITH 1-4 cm. SHEARED, UNMINERALIZED VITROCLASTIC HORIZONS OCCURRING APPROXIMATELY EVERY 1.4m; - AMYGDULES BECOME MORE</li> </ul>	12113	653.85 654.0	whole rock

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
					MA-58-20	24

Feet/Metres From To	Description	sample number	interval	Analysis				
				Zn	Cu	Pb	Ag	Am
	V7000 <sub>g</sub> ; coated-CHLORITE/PLAGIOCLASE RICH IN THIS SEGMENT, AND BECOME CONCENTRATED NEAR PILLOW MARGINS; INDICATIVE OF SHALLOW-WATER FORMATION, MINOR COMPRESSION WHICH RESULTED IN SHEARING AT WEAK POINTS IE. PILLOW MARGINS.							
678.0 679.6	MAFIC TUFF (V9B0jq) -MED. TO DK. GREEN, CHLORITIC, FINE-GRAINED, UNMINERALIZED, UNSTRATIFIED TUFF. -UPPER CT. MARKED BY QTZ./CARB. VEINLET AT 80° TO CA; LOWER CT. AT 42° TO CA. -ABUNDANT QTZ./CARB STRINGERS ALONG FOLIATION AT 42° TO 80° TO CA.							
679.6 689.2	AMYGDULAR SILICIFIED BASALT (V700 <sub>g</sub> Py) -MEDIUM GREYISH-GREEN; VERY FINE-GRAINED; LOCAL CONCENTRATIONS OF PLAGIOCLASE/QTZ/ CARB. FILLED, ROUNDED AMYGDULES -VERY SIMILAR TO 6525-678-0, BUT PILLOW MARGINS LESS EVIDENT AND POORLY-DEVELOPED VITROCLASTIC HORIZONS AT 680.5, 682.7 ARE MINERALIZED WITH FINE PYRITE -684.7-685.0- FINE-GRAINED, GREY, SILICEOUS DYKE CUTTING AT 52° TO CA -RAPID TRANSITION TO NEXT UNIT MARKED BY QTZ./CARB STRINGERS.	12808 09 10	679.6 681.0 681.0 682.5 682.5 684.0					
		12114	684.25 684.4	whole rock				
689.2 754.9	MASSIVE BASALT (V70 <sub>g</sub> je) -MEDIUM TO DARK GREEN; TEXTURE MAINLY SUBOPHTIC WITH RANDOMLY ORIENTED PLAGIOCLASE LATHS, FORMING 20-60% OF ROCK, IN FINE MATRIX OF PYROXENE? -PERVASIVELY CHLORITIZED -LOCALLY FINE-GRAINED, APHYRIC; LOCALLY SUBOPHTIC APPROACHING GLOMEROPHYRIC.	12115	722.8 722.95	whole rock				

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 725m	Hor. Comp.
Completed	Core Size	Corr. Dip -83 1/2°	Vert. Comp.
Co-ordinates		True Brg. 342°	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. Mn-18-30	Sheet 25
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Feet/Metres From To	Description	sample number	interval	Analysis
	V7 qje cont'd. CONTAINS <1% PYRITE AS RANDOM CLOTS, LOCALLY HEMATITIC, LOCALLY SLIGHTLY MAGNETIC. - CUT BY ABUNDANT QTZ/CARB AND EPIDOTE STRINGERS. - 704.6-705.0 - MINOR MAFIC TUFF HORIZON (UNMINERALIZED) - 710.9-711.8 - SLIGHTLY SHEARED WITH FOLIATION AT 45° TO 60° TO CA. - 725.2-725.9 - FINE-GRAINED, GREY, SILICEOUS DYKE AT 44° TO CA. - 753.0-754.9 - FOLIATED AT 35° TO CA WITH INCREASE IN NUMBER OF QTZ./CARB. STRINGERS			
754.9 755.3	SHEARED MAFIC TUFF (V9B ≠ Cqj) - PALE GREENISH-BROWN TO LAMINATED DK. GREEN / PALE GREEN / WHITE - CHLORITE / CARBONATE RICH; 1% PYRITE IN LOWER PORTION. - VERY SHEARED AT 44-52° TO CA			
755.3 796.8	MASSIVE BASALT (V7jq Hem) - UNIFORM DARK GREEN WITH MINUTE WHITE SPECKLING (DUE TO SAUSSERITIZATION) - FINE-GRAINED, APHYRIC; APPROX. 30% PLAGIOCLASE; SLIGHTLY CHLORITIZED. - X-CUT BY QTZ/CARB / SPECULAR HEMATITE STRINGERS AT 1.5-2 / METRE FREQUENCY - 773.3-775.5 - FINE-GRAINED, DARK GREEN BASALTIC DYKE. - TRACE PYRITE PRESENT AS RANDOM CLOTS; SLIGHTLY MAGNETIC LOCALLY	12116	777.3 777.45	whole rock
796.8-797.2	ALTERED AMYGDULAR BASALT (V70Pyj) - TRANSITION ZONE TO AMYGDULAR UNIT BELOW; DK GREEN AND PATCHES OF GREENISH-GREY - 4% FUNERAL PYRITE CUBES; MARKS TOP OF THE AMYGDULAR FLOW BELOW			

# Drill Hole Record



Property	District	Hole No.		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
Commenced	Location	Tests at	Hor. Comp.							
Completed	Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates		True Brg.	Logged by							
Objective		% Recov.	Date							

Feet/Metres		Description	sample number	interval		Analysis					
From	To					Zn	Cu	Pb	Ag	Au	
797.2	798.05	ACID DYKE (DYKE α) - EXTREMELY SILICEOUS; LIGHT GREY WITH PINK TINGE; MEDIUM-GRAINED, FOLIATED, EQUIGRANULAR TEXTURE IS OBSCURED BY LATER SILICIFICATION. - UPPER CT. UNULATING; LOWER CT. SHARP AT 55° TO CA.									
798.05	804.9	AMYGDULAR PYRITIC BASALT (V7 φ Py j) - BLOTCHY APPEARANCE - DK. CHLORITIC GREEN PATCHES WITH LIGHTER SHADES OF GREEN INDICATING SILICIFICATION. - 20% IRREGULARLY DISTRIBUTED 2-4 mm. CARB./QTZ. AMYGDULES; X-CUT BY FINE NETWORK OF CARB./QTZ. STRINGERS - CHARACTERIZED BY PATCHES OF COARSE AGGREGATES OF PYRITE WHICH FORM 2-3% OF UNIT - GRADATIONAL TRANSITION TO NEXT UNIT.	12117	801.1	801.25	whole rock					
			12811	798.0	799.5						
			12	799.5	801.0						
			13	801.0	802.5						
804.9	825.0	CRYSTAL TUFF (V9 i φ j q) - MED. TO DK. GREYISH-GREEN; PORPHYRITIC TEXTURE WITH 15-35% ROUNDED, 1-2 mm, PLAGIOCLASE PHENOCRYSTS IN SLIGHTLY-CHLORITIZED, GREYISH-GREEN MATRIX OF INTERMEDIATE COMPOSITION - 811.6 - 812.3: PORPHYRITIC SYENITE DYKE - 10-12% 2-4 mm. PLAGIOCLASE PHENOCRYSTS IN FINE-GRAINED REDDISH-BROWN GROUNDMASS. - UNIT CUT BY FINE NETWORK OF QTZ./CARB. STRINGERS. - FOLIATION AT 35-40° TO CA BECOMES EVIDENT AT 824.5-825.0; ALSO 824.5-824.6 CONTAINS 4% AGGREGATES OF PYRITE (REST OF UNIT IS TRACES OF RANDOM CLOTS)	12118	816.05	816.2	whole rock.					

# Drill Hole Record



Property	District	Hole No.			
Commenced	Location	Tests at	Hor. Comp.		
Completed	Core Size	Corr. Dip	Vert. Comp.		
Co-ordinates		True Brg.	Logged by		
Objective		% Recov.	Date	Dec. 15/88	

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MN-88-30  
Sheet 27

Feet/Metres	Description	sample number	interval	Analysis				
From To				Zn	Cu	Pb	Ag	Au
825.0 825.4	LAYERED CHERTY TUFF (V9αChPy <sub>δ</sub> ) : KEY TUFFITE							
	-ALTERNATING MEDIUM TO LIGHT GREYISH-GREEN, GREY, AND BUFF-GREY LAYERS AT 36° TO CA;	12	823.0 824.5					
	LAYERS ARE 2-25 mm- IN THICKNESS ; DARKER LAYERS ARE CHLORITIC, THE GREY AND	15	824.5 825.0					
	BUFF-GREY ARE CHERT LAYERS.	16	825.0 825.4					
	- CHERT LAYERS ARE PARALLEL TO FOLIATION AS EXHIBITED BY DISCONTINUOUS BANDS OF SECONDARY	17	825.4 826.4					
	PYRITE ; PYRITE FORMS 12-13% OF UNIT AND IS ENTIRELY REMOVED EXCEPT FOR SOME	18	826.4 828.0					
	VERY FINE PRIMARY PYRITE ACCOMPANIED BY VERY FINE SPHALERITE AND CHALCOPYRITE IN A	19	828.0 829.5					
	2cm. CHERT BAND AT 825.3	20	829.5 831.0					
	- UPPER CT. IS SHEARED, CHLORITIC, BROKEN UP ; LOWER CT. IS UNDULATING SURFACE.	21	831.0 832.5					
		22	832.5 834.0					
825.4 834.1	SILICIFIED MINERALIZED RHYOLITE (V2σPy <sub>qj</sub> )	23	834.0 835.5					
	-MED. TO DK. GREY WITH 10% SUBHEDRAL, 1-2mm. WHITE PLAGIOCLASE AMYGDULES SCATTERED							
	EVENLY ; MATRIX APPEARS VITROPHYRIC BECAUSE OF SILICIFICATION DESTROYING ORIGINAL (VARIOLITIC?)							
	TEXTURE. ; NETWORK OF QTZ/CARB FILLED CRACKS APPROACHING A BRECCIATION ZONE.							
	- PYRITE PRESENT ALONG CRACKS AVERAGES 1% OVERALL, BUT LOCALLY MORE CONCENTRATED ;							
	TWO TYPES PRESENT - A BRASSY COPPER-CONTAINING TYPE, AND A DULL BRONZY PYRITE WHICH IS							
	PREVALENT LOWER DOWN. IE 828 - 834 m.							
	-829.6 - 830.9 - CARBONATE/CHLORITE RICH CONTAINING 4% DULL BRONZY PYRITE.							
	- LOWER PORTION IS FRESHER IN APPEARANCE WITH A GRADATIONAL TRANSITION TO VARIOLITIC RHYOLITE.							
834.1 842.8	VARIOLITIC RHYOLITE (V2*σ)							
	-FINELY MOTTLED/SPECKLED LIGHT GREY IN DARK GREY VITRIC MATRIX.							



# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 875 m	Hor. Comp.
Completed	Core Size	Corr. Dip -83 1/2°	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-31  
Sheet 28

Feet/Metres From To	Description	sample number	interval	Analysis
	V2*σ cont'd.: VARIOLITIC TEXTURE WITH DENSE POPULATION OF 1mm. DISTINCT, BUT USUALLY PARTIALLY OBTUSCURED, VARIOLES FORMING 40-70% OF ROCK IN DARK SILICIFIED VITRIC GROUNDMASS; THIS LOCALLY GRADES INTO A MICROSPHERULITIC TEXTURE WITH DARK, ROUNDED, 1-2mm. QUARTZ SPHERULES IN MEDIUM GREY VITROPHYRIC MATRIX. - VERY FINELY CRACKED UP BUT NO SIGNIFICANT FORMATION OF QTZ/CARB. STRINGERS. - PYRITE CONTENT IS TRACE TO NIL. - LOWER CT. BROKEN UP, SHARP AT 20° TO CA	12119	841.55 - 841.7	whole rock
842.8 - 855.7	MASSIVE BLEACHED RHYOLITE (V2*k) - VERY LIGHT CHANGING GRADUALLY TO LIGHT AND MEDIUM GREY WITH INCREASING DEPTH (BLEACHED) - UPPER PORTION (842.8-847.0) IS FOLIATED - ORIGINAL SPHERULITIC TEXTURE BEING STRAINED AND OBTUSCURED. - FOLIATION AT 35-42° TO CA. - SERICITE IS PRESENT ON SHEAR SURFACES; PYRITE CONTENT IS TRACE (RARE AGGREGATES) - TEXTURE IS STRAINED SPHERULITIC, BECOMING SPHERULITIC, BECOMING VARIOLITIC - 853.0-853.6 - CHLORITIC, SAUSSURITIZED (LEUKOXENE-BEARING) BASALT XENOLITH WITH SHARP CONTACTS AT 4.3° TO CA AND ABUNDANT QTZ/CARB. AMYGDULES AND STRINGERS. - 856.3-856.8 - ELONGATE XENOLITH OF MAFIC VOLCANIC ENTIRELY ALTERED TO CHLORITE, SERICITE WITH AGGREGATIONS OF PYRITE ALONG CONTACTS. - AT 0° - 45° TO CA.	12120	848.15 - 848.3	whole rock
855.7 - 883.7	MASSIVE RHYOLITE (V20*j) - MEDIUM TO DARK GREY AND STEEL-GREY; TEXTURALLY VARIABLE FROM MAINLY FINE-GRAINED,			

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-20  
Sheet 29

Feet/Metres From To	Description	sample number	interval	Analysis
	V20* cont'd = VARIOLITIC TO MEDIUM-GRAINED QTZ. PORPHYRY (863.1 - 865.3), TO AMYGDULAR, VARIOLITIC (868.0 - 874.0) - HOSTS AMYGDULES AND STRINGERS OF CARB/QTZ.			
	- 878.4 - 883.7 - BECOMES DARK GREY WITH BLOTCHY SEGMENTS AND INCREASING, BUT VARIABLE MAGNETITE CONTENT. (REST OF UNIT HAS NIL MAGNETITE CONTENT)	12121	879.0 - 879.15	whole rock
	- UNIT CONTAINS RANDOM AGGREGATES OF PYRITE IN (OVERALL) TRACE AMOUNTS.			
	- LARGE, 8mm. CRYSTAL OF CHALCOPYRITE PRESENT IN QTZ-STRINGER AT 882.7.			
	- LOWER CT. IS SHARP, INTRUSIVE, AT 23° TO CA.			
883.7	949.1 MAGNETIC GABBRO (3GM+øe)			
	- DK. GREENISH-GREEN; MASSIVE, FAIRLY UNIFORM, FINE-GRAINED, EQUIGRANULAR GABBRO SILL			
	- HIGHLY MAGNETIC, CONTAINING UP TO 5% MAGNETITE WHICH IS FINELY DISSEMINATED.			
	- LOCALLY EPIDOTE-RICH; LOCALLY X-CUT BY FINE NETWORK OF CARB./QTZ. STRINGERS.	12122	903.0 - 903.15	whole rock
	- 885.4 - 885.8 AND 886.4 - 886.7 ARE SEVERELY ALTERED RHYOLITIC XENOLITHS.			
	- UPPER PORTION IS VERY FINE, CHLORITIC DUE TO CHILLING.			
	- FOLIATION IS LIGHT BUT PRESENT THROUGHOUT UNIT.			
	- 883.7 - 907 IS HIGHLY MAGNETIC; 907 - 936 IS LESS MAGNETIC; 936 - 945 IS HIGHLY MAGNETIC AGAIN.			
	- 940.1 - 940.8 IS BROKEN UP WITH CALCITE/MUD SEAMS (MINOR FAULT ZONE).			
	- APPEARS TO BE MORE CHLORITIZED IN LESS MAGNETIC SEGMENTS, FRESHER IN MAGNETIC SEGMENTS.	12123	927.95 - 928.0	whole rock
	- LOWER 0.2m. IS SHEARED AT 44° TO CA.			
949.1	949.4 ALTERED TUFF? (V9αη Py cjq)			
	- CONTACT ZONE WITH GABBRO SILL; FOLIATED WITH LAYERS OF CHERT, CARBONATE, CHLORITE			

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 950 m	Hor. Comp.
Completed	Core Size	Corr. Dip -84°	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Dec 18/88

Claim  
 T Brg.  
 Collar Dip  
 Elev.  
 Length  
 Hole No. 99.20  
 Sheet 30

Feet/Metres From To	Description	sample number	interval	Analysis				
				Zn	Cu	Pb	Ag	Au
	V9αη Pycjg cont'd: AND RECRYSTALLIZED BRASSY PYRITE. - CONTAINS 9-10% PYRITE, MAINLY ALONG CARBONATE/CHLORITE RICH FOLIATIONS & CRACKS. - UPPER CT. SHARP AT 40° TO CA; LOWER CT. INDISTINCT AS UNIT BELOW IS CRACKED UP, MINERALIZED ALONG FRACTURES. - POSSIBLY REPRESENTS A TUFF HORIZON BUT IS POSSIBLY DUE TO CONTACT METAMORPHISM OF RHYOLITE WITH MINERALIZATION HAVING BEEN REMOVED FROM BELOW. - NO SPHALERITE IS EVIDENT.	12826	947.0 948.0					
		27	948.0 949.1					
949.4 952.72	HYBRID ZONE OF ALTERED RHYOLITE, ALTERED GABBRO (V2/3Gησφ Pycj)	28	949.1 949.4					
	- LIGHT TO MEDIUM GREY (RHYOLITIC) TO MEDIUM GREYISH-GREEN (GABBROIC)	29	949.4 950.0					
	- CARBONATIZED IN RHYOLITIC PORTIONS; CHLORITIZED, SILICIFIED IN GABBROIC PORTION.	30	950.0 951.5					
	- REPRESENTS ZONE OF INTERFINGERING AT BOTTOM OF GABBRO SILL.	31	951.5 952.7					
	- CONTAINS 2-3% PYRITE BOTH AS COARSE SUBHEDRAL AGGREGATES AND AS FINE DISSEMINATIONS.	32	952.7 952.95					
	- ORIGINAL TEXTURES UNDISCERNIBLE.	33	952.95 954.5					
	- CONTAINS MANY FINE FRACTURES LOCALIZING PYRITE CRYSTALLIZATION, AND SOMETIMES CALCITE-FILLED.	34	954.5 956.0					
		35	956.0 957.5					
952.72 952.94 (0.22 m.)	MASSIVE MAGNETITE / SPHALERITE? (Mt/Sph?Pycj) - VERY DARK BROWN; VERY FINE-GRAINED (POWDER SIZE); MAGNETIC SUSCEPTIBILITY IS ~75. - 85% MAGNETITE/SPHALERITE? MIX; 6% BRASSY RECRYSTALLIZED PYRITE; 5% CARBONATE; SOME CHLORITE AND QUARTZ.; TESTER INDICATES LOW CONDUCTIVITY. - FINELY BANDED AT 43° TO CA; UPPER CT. IS IRREGULAR AT ABOUT 40° TO CA; LOWER CT. IS UNDULATING AT ABOUT 75° TO CA; UPPER IS MARKED BY PYRITE-BEARING CHLORITE AND IS SHEARED;	36	957.5 959.0					

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date <i>Dec 18/88.</i>

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-30  
Sheet 31

Feet/Metres From To	Description	sample number	interval	Analysis
	MASSIVE Mt/Sph. (cont'd): LOWER CT. IS SHARP AND APPEARS TO BE AN EROSIONAL SURFACE.			
952.94 958.3	ALTERED RHYOLITE (V2 Δ 0 Λ η) - BLOTCHY PALE GREY TO PALE GREENISH-GREY, CONTAINING NETWORK OF FINE FRACTURES FORMED IN TWO DISTINCT EVENTS: EARLIER EVENT CHARACTERIZED BY SILICIFICATION/SERICITIZATION AND FRACTURES ARE HEALED; LATER EVENT CHARACTERIZED BY FINE CALCITE-FILLED FRACTURES. - MINOR, VARIABLE MAGNETITE CONTENT INDICATES METAMORPHIC EFFECT OF GABBRO SILL ABOVE. - SULPHIDE CONTENT IS TRACE TO NIL; CARBONATIZATION IS PERVASIVE. - WHERE ORIGINAL TEXTURE NOT DESTROYED, IT IS AMYGDULAR	12124	955.2 955.3	whole rock
958.3 969.0	MASSIVE RHYOLITE (V2 0 * 5 Δ) - MEDIUM TO LIGHT GREY; MAINLY AMYGDULAR FROM 958.3 TO 962.5 AND MED. GREY - 1-4 mm. STRETCHED AMYGDULES OF QTZ/CARB IN VERY SILICEOUS RHYOLITE - 962.9-963.1 IS A GABBROIC DYKE WITH CALCITE ON UPPER CT. AND BLEACHING BELOW. - 962.5-967.2 IS SILICIFIED, WITH REMNANT AMYGDULAR TEXTURE - IT IS BLOTCHY DUE TO BRECCIATION, SILICIFICATION AND SERICITIZATION ALONG FRACTURES. - 967.2-968 IS SPHERULITIC WITH STRETCHED DARK QTZ. SPHERULES IN LIGHT GREY SILICEOUS MATRIX; 968-969 IS VARIOLITIC, DARK GREY; SILICIFIED AND SERICITIZED. - ENTIRE UNIT IS VERY BROKEN UP ALONG MYRIAD FRACTURE PLANES.	12125	966.9 967.0	whole rock
	END OF HOLE (969.0) - CASING LEFT IN -			

# Drill Hole Record

## SUMMARY LOG



Property	MCLEOD	District	MATAGAMI	Hole No.	MD-88-33
Commenced	OCT. 27 / 88	Location	1	Tests at	Hor. Comp.
Completed	NOV. 20 / 88	Core Size	BQ	Corr. Dip	Vert. Comp.
Co-ordinates	6+70W; 0+30N (UNSURVEYED)			True Brg.	Logged by
Objective	UPPER, KEY, LOWER TUFFITES.			% Recov.	Date

Feet/Metres		Description	sample number	interval	Analysis					
From	To									
0	40.0	OVERBURDEN: CASING LEFT IN.								
40.0	43.5	DIABASE DYKE	1 whole rock							
43.5	53.9	BASALT.								
53.9	55.3	MAFIC TUFF								
55.3	71.8	MAGNETIC CARBONATIZED BASALT	1 whole rock							
71.8	76.2	GRAPHITIC MAGNETIC TUFF	2 assay samples							
76.2	130.2	MAGNETIC GABBRO	1 whole rock							
130.2	167.8	ALTERNATING MAGNETIC BASALTS AND GABBROS	1 whole rock							
167.8	173.0	DACITE								
173.0	179.7	MAGNETIC BASALT	1 whole rock							
179.7	188.0	ANDESITE								
188.0	218.6	ALTERED BASALT / TRANSITION ZONE TO GRANODIORITE SILL	1 whole rock							
218.6	270.8	GRANODIORITE / DIORITE SILL	2 whole rocks							
270.8	281.5	GABBRO / DIABASE SILL (FAULT CONTACTS)	1 whole rock							
281.5	474.0	GRANODIORITE / DIORITE / HYBRID ALTERATION / MAGNETIC TONALITE / DIORITE	6 whole rocks; 5 assay samples.							
474.0	485.9	GABBRO SILL	1 whole rock							
485.9	497.6	ALTERED BASALT								
497.6	504.4	GABBRO SILL								
504.4	567.7	MASSIVE MAGNETIC AND NON-MAGNETIC BASALTS	2 whole rocks.							
567.7	577.7	BRECCIATED ACID DYKE WITH LOWER FAULT CONTACT.	1 whole rock							
577.7	586.9	BASALT								
586.9	587.6	MAFIC TUFF								

# Drill Hole Record



Property	District	Hole No.	MD-88-33
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
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Feet/Metres		Description	sample number	interval	Analysis									
From	To													
587.6	589.5	ACID DYKE												
589.5	607.2	ANDESITE (ANTHOPHYLLITE-BEARING)		1 whole rock.										
607.2	609.6	ACID DYKE.												
609.6	611.4	SILICIFIED ANDESITE.												
611.4	615.8	FELDSPAR PORPHYRY DYKE		1 whole rock										
615.8	631.1	SILICIFIED PILLOWED ANDESITE		4 whole rocks, 4 assay samples.										
631.1	662.3	RHYOLITE		1 whole rock. 3 assay samples.										
662.3	663.2	ANDESITE												
663.2	703.6	RHYOLITES : LOWER PART MINERALIZED		1 whole rock; 7 assay samples.										
703.6	704.7	MINERALIZED TUFF (LOWER TUFFITE)		40% PYRITE, 2% SPHALERITE 1 assay sample.										
704.7	729.0	RHYOLITES : MAINLY MINERALIZED		1 whole rock; 10 assay samples.										
729.0	756.7	MAGNETIC GABBRO		1 whole rock										
756.7	765.6	RHYOLITE : UNMINERALIZED		1 whole rock.										
		EOH @ 765.6m.												

# Drill Hole Record



Property **MCLEOD** District **MATAGAMI** Hole No. **MD-88-33**  
 Commenced **OCT. 27, 1988** Location **6+70W, 0+30N.** Tests at **41m 100m 181m 250 323** Hor. Comp. 

400	475	550	625	710	765
-88°	-87½°	-89°	-87¼°	-88°	-87°
	065°		037°		036°

  
 Completed **Nov. 20, 1988** Core Size **BQ** Corr. Dip **-89½° -89° -87¼° -88° -87¼°** Vert. Comp.  
 Co-ordinates **6+70W; 0+30N (UNSUREVED)** True Brg. **062° 065°** Logged by  
 Objective **SULPHIDE ROCK : UPPER, KEY, LOWER TUFFITE HORIZONS** % Recov. Date

Claim **127819-3**  
 T Brg.  
 Collar Dip  
 Elev.  
 Length **765.6 M**  
 Hole No. **M.N. 96-77** Sheet **1**

Feet/Metres		Description	sample number	interval		Analysis
From	To					
0	40.0	OVERBURDEN : CASING LEFT IN				
40.0	43.5	DIABASE DYKE (3DMt $\phi$ ) - DARK GREENISH-GREY TO BLACK; DIABASIC TEXTURE WITH 30% RANDOMLY ORIENTED, WHITE PLAGIOCLASE LATHS IN DARK CHLORITIZED PYROXENIC MATRIX. - 42.7 - 43.5 : CHILLED MARGIN; TEXTURE OBSCURED - HARD, SILICIFIED. - 40.0 - 41.1 : BROKEN CORE.	12576	41.1	41.3	whole rock.
43.5	52.3	MAGNETIC CARBONATIZED BASALT (V7Mt $\eta$ $\phi$ jg) - DARK GREENISH-GREEN TO DK. GREY; FINE-GRAINED, APHYRIC; CHLORITIZED. - ABUNDANCE OF CARBONATE AS STRINGERS, WISPS, FRACTURE FILLINGS, SOMETIMES ACCOMPANIED BY QUARTZ - PYRITE AS RANDOM AGGREGATES IN TRACE TO 1% AMTS.				
52.3	53.9	GLOMEROPHYRIC BASALT (V7 $\odot$ q Hem) - MOTTLED. - PALE GREEN ROUNDED GLOMEROCLASTS OF PLAG. FELDSPAR IN DARKER GREEN, CHLORITIZED MATRIX; ABUNDANT X-CUTTING QTZ/HEMATITE STRINGERS; SHARP LOWER CT. AT 18° TO CA, GRADATIONAL UPPER CT. (BOTTOM OF A FLOW)				
53.9	55.3	MAEIC TUFF (V9 $\beta$ $\phi$ $\eta$ jg) - DK. GREEN, POORLY DEVELOPED, CHORTIC TUFF WITH ABUNDANT QTZ/CARB. STRINGERS PARALLEL TO FOLIATION AT 32° TO CA.				

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 100m	Hor. Comp.
Completed	Core Size	Corr. Dip - 89°	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-32  
Sheet 2

Feet/Metres	Description	sample number	interval	Analysis				
From To								
	V9BØn <sub>g</sub> ; cont'd: -VITROCLASTIC LAYERS FROM 53.9 - 54.3; MINOR, DISCONTINUOUS PYRITIC LAYER AT 54.4; GRADATIONAL DOWN INTO NEXT UNIT.							
55.3 71.8	MAGNETIC CARBONATIZED BASALT (V7Mt <sub>n</sub> Øj <sub>g</sub> ) - SAME AS 43.5 - 52.3 - BECOMES DK GREY TO BLACK AT 69.0 - 71.8 INDICATING INCREASING GRAPHITE CONTACT.	12577	69.75 69.9					whole rock
71.8 76.2	MAFIC GRAPHITIC MAGNETIC TUFF (V9BG <sub>p</sub> Mt <sub>j</sub> ) - BLACK WITH WHITE CARBONATE-RICH STREAKS. - MAINLY BLACK GRAPHITIC, SILICEOUS MATERIAL IN THIN LAYERS (AT 25° TO CA) WITH FINE GRAINED SYNDEPOSITIONAL PYRITE FINELY DISSEMINATED IN SOME LAYERS BUT FORMING <1% OF UNIT; ALSO LOCAL ANHEDRAL SECONDARY PYRITE ALONG FOLIATION AT 35° TO CA - ABUNDANT CARBONATE PARALLEL TO FOLIATION, OCCASIONALLY ACCOMPANIED BY HEMATITE. - LOCALLY BRECCIATED, IE. AT 72.7 - 72.8, 74.4 - 74.5 WITH CARBONATE AS CEMENT. - BROKEN CORE AT 73.0 - 73.2, 73.7 - 74.0 - LOWER CONTACT IS BAKED, WITH INCREASE IN REDDISH HEMATITIC LAYERS, REMOBLIZED PYRITE, CARBONATE, EPIDOTIZATION. - CT. AT 76.2 APPEARS TO BE AT 32° TO CA BUT IS BADLY BROKEN.	12705 06	74.0 75.0 75.0 76.2					Zn Cu Pb Ag Au
76.2 130.2	MASSIVE MAGNETIC GABBRO (3GMt) - DK. GREY, ALMOST BLACK, SPECKLED WITH WHITE PLAGIOCLASE LATHS. - OPHITIC TEXTURE WITH 30-35% WHITE EUHEDRAL PLAG. LATHS IN BLACK PYROXENE RICH ANHEDRAL							



# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-33 Sheet 3

Feet/Metres From To	Description	sample number	interval	Analysis
	3G Mt cont'd: GROUNDMASS; WITH BLACK MAGNETITE FORMING 2-5% OF ROCK. - REMARKABLY UNIFORM IN COMPOSITION, MAGNETITE CONTENT; POSSIBLY SERPENTINIZED TO MINOR EXTENT RESULTING IN SLIGHTLY GREASY FEEL. - SEVERAL STRETCHES OF BADLY BROKEN CORE (MARKING BRITTLE FAULTS): 76.2-76.4 - MUDDY, 90.0-90.3, 93.2-95.0, 96.1-99.8, 102.8-103.4, 106.1-106.3, 128.4-130.2. - FRACTURES FILLED BY CARBONATE, HEMATITE, SERPENTINE → SOME ARE VUGGY. - 128.6-130.2 - CHILLED MARGIN: MATRIX VITRIFIED LEAVING SCATTERING OF BLACK MAGNETITE PHENOCRYSTS.	12578	109.0 109.15	whole rock.
130.2 136.6	MAGNETIC CARBONATIZED BASALT. (V7 Mt njq) - DK. GREY, ALMOST BLACK; FINE, APHYRIC; SLIGHTLY CHLORITIZED, POSSIBLY SLIGHTLY GRAPHITIC; ABUNDANCE OF CARBONATE/QUARTZ STRINGERS; - CONTACTS ARE BOTH UNBAKED AND BADLY BROKEN; ADJACENT GABBRO IS CHILLED. - SLIGHTLY MAGNETIC.			
136.6 149.7	MASSIVE MAGNETIC GABBRO (3G Mt) - SAME AS 76.2-130.2. - BOTH CONTACTS CHILLED; BADLY BROKEN CORE AT 136.7-137.3, 142.5-142.6 146.5-146.7, 147.3-147.4.; LOWER CT. APPEARS SHARP AT 80° TO CA.	12579	146.05 146.2	whole rock.
149.7 167.8	MASSIVE MAGNETIC BASALT (V7 Mtejq) - MED. GREYISH-GREEN; FINE, APHYRIC; POSSIBLY OF ANDESITIC COMPOSITION. - FINE, FELTY INTERGROWTH OF PLAGIOCLASE AND PYROXENES.			

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 181m	Hor. Comp.
Completed	Core Size	Corr. Dip -87 1/4°	Vert. Comp.
Co-ordinates		True Brg. 063°	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MD-88-33	Sheet 4
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Feet/Metres	Description	sample number	interval	Analysis
From To				
	V7Mtejq cont'd: ABUNDANT X-CUTTING EPIDOTE/QTZ./CABB. STRINGERS; HIGHLY MAGNETIC. - SLIGHTLY SHEARED AT 164.7-165.0 AT 52° TO CA. - SHEAR CONTACT WITH NEXT UNIT AT 167.8 AT 50° TO CA.			
167.8 173.0	DACITE (V4φqj) - LIGHT GREENISH-GREY; MEDIUM GRAINED VAROLITIC TO FINE GRAINED APHYRIC. - CHLORITIZED; ABUNDANT X-CUTTING QUARTZ/CABB. VEINLETS. - QTZ/CARB/CHLORITE SHEARS CONTAINING PYRITE ALONG FOLIATION AT 170.75, 171.3. - LOWER CT. SHEARED, SHARP AT 80° TO CA (AS IN PREVIOUS SHEARS THIS UNIT).			
173.0 179.7	MASSIVE MAGNETIC BASALT. (V7Mtejq) - DK. GREEN, FINE GRAINED BASALT; SLIGHTLY CHLORITIZED; MAGNETITE-RICH. - CUT BY ABUNDANT EPIDOTE/QTZ./CABB. STRINGERS. - GRADATIONAL TRANSITION INTO NEXT UNIT.	12580	173.1 173.2	whole rock.
179.7 188.0	MASSIVE ANDESITE (V6jq) - SPECKLED MED TO DK GREEN; SUBOPHTIC TEXTURE; 40-45% PLAG. LATHS (1-2mm.) IN CHLORITIZED PYROXENITIC? MATRIX.; NON-MAGNETIC - CUT BY CARB/QTZ. SHEARS AT VARIOUS CORE ANGLES.			
188.0 207.5	ALTERED BASALT (V7nΛφji) - DK. GREYISH-GREEN TO MED. GREY TO LIGHT GREY; TEXTURES VARIABLE, OBSCURED BY			

# Drill Hole Record



Property	District	Hole No.			
Commenced	Location	Tests at 250 m.	Hor. Comp.		
Completed	Core Size	Corr. Dip -88°	Vert. Comp.		
Co-ordinates		True Brg.	Logged by		
Objective		% Recov.	Date		

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MC-10-22  
Sheet 5

Feet/Metres From To	Description	sample number	interval	Analysis
	V7ηλøji cont'd: LATER METAMORPHISM; ABUNDANT CARBONATE THROUGHOUT, BOTH INTERSTITIALLY AND AS STRINGERS; MUCH OF UNIT IS SLIGHTLY TALCOSE AND SLIGHTLY CHLORITIZED; SERICITIZATION EVIDENT IN MORE SILICEOUS SEGMENTS -VERY TALC/CARB.-RICH AT 200.8 - 205.8.; SHEARED AT 67° TO CA AND EXHIBITING PROMINENT PORPHYROBLASTS OF QTZ/CARB/TALC. -HEMATITE ON FRACTURES IN UPPER SECTION; NON-MAGNETIC	12581	202.4 - 202.6	whole rock
207.5 - 212.6	TRANSITION ZONE (V7/1D λq) -HYBRID MIXED ZONE TRANSITIONAL FROM ALTERED BASALTIC UNIT INTO MASSIVE GRANODIORITE -TEXTURE VARIES FROM SUBOPHTIC TO PORPHYRITIC WITH PHENOCRYSTS OF BLUE QUARTZ AND K-FELDSPAR; SERICITIZED THROUGHOUT; ABUNDANT QTZ./CARB STRINGERS, WISPS. -LOCALLY SAUSSERITIZED; NON-MAGNETIC			
218.6 - 258.9	GRANODIORITE (1D/2D q Hem.i) -MED. TO COARSE GRAINED, PORPHYRITIC INTRUSIVE COMPOSED OF SUB-ANHEDRAL PHENOCRYSTS OF PLAG-FELDSPAR (40%), ANHEDRAL BLuish TO CLEAR QUARTZ (0-20%); PINKISH K-FELDSPAR (5-20%), UP TO 50% BLACK TO DK GREEN. MATRIX OF PYROXENES, HORNBLende -ABUNDANT QTZ-FILLED FRACTURES, OCC. WITH HEMATITE; LOCAL INTENSE SAUSSERITIZATION. -COMPOSITIONAL RANGE FROM GRANODIORITE - QUARTZ DIORITE - DIORITE. -NON-MAGNETIC; HEMATIZATION INTENSE WHERE FRACTURED, LOCALLY PERVASIVE. -MORE MAFIC SEGMENTS ARE SLIGHTLY TALCOSE. -XENOLITHS OF BASALT AT 222.3 - 223.3, 225.9 - 226.5	12582	222.0 - 222.15	whole rock

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. <u>MAC-99-22</u>	Sheet <u>6</u>
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Feet/Metres		Description	sample number	interval		Analysis					
From	To										
		ID/2D cont'd: MASSIVE, UNIFORM, MED. GRAINED, HYPIDIOMORPHIC GRANULAR FROM 237 TO 258.5m. - ABUNDANT QTZ/EPIDOTE/ANTHOPHILLITE? FILLED FRACTURES; GRADUAL LOWER TRANSITION.	12583	255.0	255.15	whole rock.					
258.9	270.8	ALTERED GRANODIORITE/DIORITE (ID/2D on $\phi$ qj) - MED. TO LIGHT GREY, MOTTLING OBLISCURED WHERE PRESENT; ABUNDANT VEINS OF QTZ/CARB/CHLORITE; ONE CONTAINS FUCHSITE; SAUSSERITIZATION OF PLAG. LOCALLY PRESENT AS EVENLY DISTRIBUTED COARSE SPECKLING. - SILICIFICATION, CARBONATIZATION, SLIGHT CHLORITIZATION ARE PERVASIVE, AS WELL AS BEING EXPRESSED IN QTZ/CARB/CHL. VEINING.; VEINS ARE POORLY MINERALIZED WITH TRACE AMTS. OF EUHEDRAL PYRITE. - PREDOMINANT SHEARING AT 50°-70° TO CA. - LOWER CT. SHARP AT 36° TO CA.									
270.8	281.5	GABBRO/DIABASE SILL (3G/3D FAULTED Mt $\phi$ ) - BLACK TO CHARCOAL GREY. (C.I. = 90). - DIABASIC TEXTURE (SUBOPHTIC) WITH RANDOMLY ORIENTED PLAGIOCLASE LATHS (2mm.) IN PYROXENITIC GROUNDMASS. - EXTREMELY MAGNETIC, LOCAL HEMATIZATION; PERVASIVE CHLORITIZATION. - UPPER CT. FAULTED, MUDDY WITH 30cm. CHILL MARGIN IN DIABASE (AT 36° TO CA) - LOWER CT. SHARP AT 35° TO CA. - EXTREMELY BROKEN CORE AT: 270.8-271.5, 276.9-281.5 - LAST STRETCH CONTAINS SEVERAL MUD SEAMS AND COULD BE A MAJOR OBSTACLE FOR DOWNHOLE GEOPHYSICS.	12584	275.95	276.1	whole rock.					

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length

Hole No. MD-88-33 Sheet 7

Feet/Metres	Description	sample number	interval	Analysis
From To				
281.5 289.7	<p>GRANODIORITE (ID Hem g j)</p> <p>-SPECKLED PINK, WHITE, BLACK, GREEN, GREY; EQUIGRANULAR TO SLIGHTLY PORPHYRITIC</p> <p>- APPROX. COMPOSITION IS 15% QUARTZ, 25-35% K-FELDSPAR, 30-50% PLAGIOCLASE;</p> <p>20-30% DARK MAFIC MINERAL (S)</p> <p>- PERVASIVE HEMATIZATION FROM 286.5 TO 289.7; WITH HEMATITE CONCENTRATED IN QTZ/CARB. STRINGERS AND FRACTURES.</p>			
289.7 358.5	<p>ALTERED, DYKED, SHEARED GRANODIORITE (ID η σ φ ≠ j q)</p> <p>-SIMILAR TO 258.9 - 270.8 IN MOST RESPECTS; BUT HOSTING SEVERAL MAFIC TO INTERMEDIATE DYKES, AND HAVING BEEN SHEARED LOCALLY; ABUNDANT X-CUTTING QTZ/CARB. STRINGERS.</p> <p>-DYKES:-290.3 - 291.2 - INTERMEDIATE; MEDIUM GREY DYKE WITH FOLIATION WELL-DEVELOPED PARALLEL TO SHARP UPPER &amp; LOWER CTS. AT 39° TO CA; HOSTS 10-15% STRETCHED, CHLORITIZED MAFIC CONSTITUENT.</p> <p>-303.5 - 304.7 AND 304.9 - 305.4 AND 305.6 - 306.5 - MAFIC TO INTERMEDIATE, DK. GREEN, FINE, APHYRIC, SLIGHTLY CHLORITIZED DYKES OF ANDESITE OR BASALTIC COMPOSITION</p> <p>- CORE ANGLES OF CONTACTS APPEAR CONSTANT AT 26°-29° TO CA.</p> <p>- 310.5 - 311.8 - MED. GREEN, MAFIC TO INT. DYKE WITH SLIGHTLY PORPHYRITIC TEXTURE, AND CHLORITIZED PHENOCRYSTS; UPPER AND LOWER CTS. PARALLEL AT 35-36° TO CA.</p> <p>- SHEARS: - MINOR 2-3 cm. QTZ/CARB./CHLORITE SHEARS OCCUR FREQUENTLY</p> <p>-306.5 - 308.1 - BLACKISH, CHLORITIZED, SHEARED AT 27° TO CA WITH SERICITIZED SLIP AT 307.5</p> <p>-312.4 - 313.7 - MINERALIZED SHEAR ZONE; SEVERELY CHLORITIZED, CARBONATIZED</p>	12585	331.8 331.95	whole rock

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 323m	Hor. Comp.
Completed	Core Size	Corr. Dip -87 1/4°	Vert. Comp.
Co-ordinates		True Brg. 065°	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-99-32  
Sheet 8

Feet/Metres From To	Description	sample number	interval		Analysis				
			Zn	Cu	Pb	Ag	Am		
	1D η σ φ ≠ j <sub>g</sub> cont'd. SHEAR ZONE HOSTING A MINERALIZED QTZ/CARB/CHL./PY. VEIN AT 312.7 - 313.1; CONTAINS 4% EUBEDRAL PYRITE; AT 18° TO CA	12707	312.0	312.7					
	- WIDE WHITE BULL QUARTZ VEIN AT 335.7 - 337.0 WITH QTZ/CARB/CHLORITE SHEAR AFTER IT AT 337.0 - 337.4; - UNMINERALIZED, SERICITE ON SLIP SURFACES.	08	312.7	313.1					
	- TRANSITIONAL ROCK BECOMES MORE MASSIVE, DIORITIC FROM 351.5 - 359.5, WITH MANY QTZ/CARB. VEINLETS	09	313.1	314.0					
		12711	335.7	337.3					
358.5	375.0	DIORITE (2D)							
	- MASSIVE, PANIDIOMORPHIC GRANULAR, INTRUSIVE CONTAINING 40-50% PLAGIOCLASE, 40-50% BLACK AND DK. GREEN MAFIC MINERALS, <5% QUARTZ, <5% K-FELDSPAR.								
	- C.I. = 60								
	- NON-MAGNETIC, MINOR HEMATITE STAINING ON FRACTURES	12586	364.25	364.4					whole rock
	- BROWNISH-GREY, VERY SILICEOUS DYKE AT 371.7 - 371.9 AT 58° TO CA								
	- GRADATIONAL TRANSITIONS ON BOTH CONTACT AREAS.								
375.0	392.5	HYBRID ALTERATION ZONE (ZEOLITE + Hem)							
	- MOTTLED DK. GREY AND TUSCAN RED WITH SOLID APPLE GREEN STRETCHES; VERY HARD-SILICIFIED, EPIDOTIZED.								
	- VERY SPECTACULAR, BUT ODD-LOOKING, CONTACT METAMORPHIC ZONE								
	- 375.0 - 385.0 - PRIMARILY MED. TO DARK GREY APHANTIC MATRIX WITH FLAKES OF DARK MAFIC MINERAL PARALLEL TO FOLIATION;								
	→ AN UNRECOGNIZED PALE GREYISH-GREEN ALTERATION, PLUS EPIDOTIZATION SPREADING FROM INTRICATE SYSTEM OF MICROFRACTURES.								
	- BROKEN CORE AT 381.6 - 381.9.								

# Drill Hole Record



Property	District	Hole No.		
Commenced	Location	Tests at	400 m	Hor. Comp.
Completed	Core Size	Corr. Dip	-88°	Vert. Comp.
Co-ordinates		True Brg.		Logged by
Objective		% Recov.		Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. 9  
M N 00 27

Feet/Metres	Description	sample number	interval	Analysis				
From To				Zn	Cu	Pb	Ag	Au.
	2E5T Yet Hem cont'd:							
	-383.0 - 385.0 : SHEARED WITH FOLIATION AT 60° TO CA, X-CUT BY NUMEROUS EPIDOTE-FILLED FRACTURES, OCC. WITH HEMATITE; UNIDENTIFIED VERMILLION RED, AMORPHOUS MINERAL WITH EPIDOTE AT 384.85.	12710	386.7 - 387.2					
	-385.0 - 386.0 : 70% MASSIVE, APPLE-GREEN EPIDOTE WITH 15% QUARTZ; WITHIN MASSIVE EPIDOTE AT 385.8 - 386.0 ARE SEVERAL SERPENTINIZED ASBESTIFORM LAYERS WITH 2-3 cm. MASSIVE ASBESTOS AT 386.0.	12587	389.2 - 389.4	whole rock.				
	-386.0 - 388.7 : YOUNAMEITITE - MIXTURE OF <sup>30%</sup> EPIDOTE (BOTH MASSIVE, AS STRINGERS, AND DISSEMINATED), 40% TUSCAN RED, FINE-GRAINED, UNRECOGNIZED MINERAL, WITH 5-10% CHARCOAL GREY REMNANT PHENOCRYSTS OF PYROXENE?, AND THE REMAINDER A FINE, GREY SILICIFIED GROUNDMASS.							
	-388.7 - 392.5 : MOTTLED BROWNISH-GREY ALTERED ROCK WITH OBSCURED DIABASIC TEXTURE EXHIBITING 2-3mm RANDOMLY ORIENTED LATHS OF (TREMOLITE?) AMPHIBOLE IN A FINE SILICEOUS, EPIDOTIZED MATRIX, AND AN OVERPRINTING OF A LIGHT PINKISH-GREY MINERAL							
	-LOWER CT. IS SHARP DYKE CT. AT 14° TO CA.							
392.5 431.8	MAGNETIC TONALITE (2TME)							
	-UNIFORM MED. TO LIGHT GREY; FINE GRAINED FROM 392.5 TO 404 AND BECOMING GRADUALLY COARSER GRAINED; TEXTURE IS VARIABLE FROM ALLOTRIOMORPHIC GRANULAR THROUGH TO PANIDIOMORPHIC GRANULAR.	12588	418.4 - 418.55	whole rock				
	-30-40% PLAGIOCLASE, 0-20% K FELDSPAR; UP TO 20% BIOTITE; UP TO 20% AMPHIBOLE; UP TO 15% QUARTZ; 1-3% MAGNETITE; VARIABLY EPIDOTIZED, HEMATIZED.							
	-EPIDOTE IS PRINCIPAL ALTERATION, AND IS LOCALLY CONCENTRATED AS SOLID EPIDOTE BANDS AND AN							

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	473m
Completed	Core Size	Corr. Dip	-87 1/2°
Co-ordinates		True Brg.	065°
Objective		% Recov.	
			Hor. Comp.
			Vert. Comp.
			Logged by
			Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
					11. 20. 77	10

Feet/Metres	Description	sample number	interval	Analysis
From To				
	2TME cont'd: INTERGRANULAR NETWORK; WHERE EPIDOTIZATION IS INTENSE TONALITE TEXTURE IS PANIDIOMORPHIC GRANULAR; HEMATIZATION IS MINOR, LOCAL - AS IS SERICITIZATION.			
	-BADLY BROKEN CORE AT 396.7-398.4, 399.8-400.3 (BLOCKY GROUND AS A WHOLE)			
431.8	441.0 ALTERED, FAULTED TONALITE (2T FAULT H <sub>m</sub> & Mt)			
	-EXTREMELY ALTERED LOCALLY TO SPECKLED WHITE AND BLACK WITH PANIDIOMORPHIC TEXTURE, WHERE LATHS OF PLAG. FORM 60% OF ROCK WITH REMAINDER BIOTITE AND AMPHIBOLE; LESS MAGNETITE.			
	-HEMATIZED, EPIDOTIZED; ABUNDANT BROKEN CORE, LOCALLY CRUMBLY.			
	-440.1-440.5 IS BADLY BROKEN WITH SAND AND MUD AND NEIGHBOURING VUGGILY TEXTURED HORNBLende-RICH ROCK (BRITTLE FAULT ZONE)			
441.0	468.1 MAGNETIC TONALITE (2TME)			
	-SAME AS 392.5-431.8; QUITE MAGNETIC, EPIDOTIZED SOMEWHAT LESS.	12589	463.1 463.3	whole rock.
	-458.6-459.2: MUDDY, SANDY FAULT ZONE, SAND SEAM.			
	-FROM MEDIUM-GRAINED HYPIDIOMORPHIC GRANULAR, AGAIN BECOMES GRADUALLY FINER GRAINED NEARING OTHER CONTACT, I.E. 460.1-468.1 IS FINE GRAINED, MEDIUM-GREY TONALITE OF APPARENTLY SAME COMPOSITION.			
468.1	474.0 COARSE-GRAINED DIORITE (20φ)			
	-COARSE TO MEDIUM GRAINED EQUIGRANULAR - ALLOTRIOMORPHIC GRANULAR ROCK.			
	-40-60% PARTLY SERICITIZED PLAGIOCLASE, 5-10% K FELDSPAR, 40-60% CHLORITIZED AMPHIBOLE, PYROXENE; NON-MAGNETIC.			



# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
					64-27	//

Feet/Metres	Description	sample number	interval	Analysis
From To				
	20 $\phi$ cont'd -- SHARP UPPER CTS. WITH TONALITE AT VARIOUS ANGLES; ABRUPT, SHEARED LOWER CT. AT 44° TO CA.			
474.0 485.9	NON-MAGNETIC GABBRO SILL (3G $\phi$ Hem) - SPECKLED DARK GREY-GREEN AND CREAMY WHITE; 50-60% ALTERED CHLORITIC MATRIX, 40-50% 2mm LATHS OF PLAGIOCLASE (SUBOPHITIC TEXTURE) WHICH ARE RANDOMLY ORIENTED. - SPECULAR HEMATITE IN SOME CRACKS; ABUNDANCE OF CHLORITIC, HEM/QTZ BEARING FRACTURES AND MINOR SHEARS. - 482.9 - 485.9 IS TRANSITIONAL ZONE - MIXTURE OF ALTERED BASALT AND GABBRO WITH INCREASING ABUNDANCE OF QTZ/HEM. STRINGERS.	12590	477.4 477.55	white rock
485.9 497.6	ALTERED BASALT (V7 $\eta$ $\phi$ qj) - MED. GREEN, FINE GRAINED, EXHIBITING DEVELOPED FOLIATION AT 0° TO 30° TO CA - UNDULATING; SCHISTOSITY AT 32-38° TO CA.; PROBABLY A LARGE XENOLITH. - ABUNDANT QTZ/CARB VEINING; 494.3-494.5 IS QTZ/CARB/CHL. VEIN. AT 38° TO CA. - <del>THE</del> BASALT IS CHLORITIZED/SAUSSERITIZED - ACID DYKE AT 495.9 - 496.7 WITH PYRITE ON CTS.; CTS. AT 5°-10° TO CA. - GRADUAL TRANSITION INTO GABBROIC SILL.			
497.6 504.4	GABBRO SILL (3G $\phi$ Hem qj) - SAME AS 474.0 - 485.9 - NON-MAGNETIC; POSSIBLY SIMPLY A PORPHYRITIC BASALT FLOW.			

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 550m	Hor. Comp.
Completed	Core Size	Corr. Dip -89°	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. 0000  
Sheet 12

Feet/Metres	Description	sample number	interval	Analysis
From To				
504.4 546.5	<p>MASSIVE MAGNETIC BASALT (V7 Mt <math>\phi</math> jeq)</p> <p>-MED. TO DK. GREEN; MASSIVE, APHYRIC TO SLIGHTLY PORPHYRITIC</p> <p>-MILD CHLORITIZATION IS PERVASIVE; LOCAL MINOR EPIDOTIZATION, CARBONATIZATION.</p> <p>-ABUNDANT MINOR STRINGERS, CRACKS OF EPIDOTE, CARBONATE, QUARTZ.</p> <p>-QUITE MAGNETIC; PROBABLY CONTAINING UP TO 4% MAGNETITE; TRACE AMOUNTS OF PYRITE DISTRIBUTED RANDOMLY AS ANHEDRAL AGGREGATES, AND IN SOME QTZ/CARB. STRINGERS.</p> <p>-AMYGDULAR AT 546.2-546.5; GRADATIONAL APPARENTLY INTO NON-MAGNETIC BASALT.</p>	12591	521.9 522.05	whole rock
546.5 567.7	<p>MASSIVE NON-MAGNETIC BASALT (V7 <math>\Delta</math> jeq)</p> <p>-MED. TO DK. GREEN; MASSIVE, APHYRIC TO PORPHYRITIC TEXTURE; PERVASIVE CHLORITIZATION.</p> <p>-ESSENTIALLY IDENTICAL TO PRECEDING UNIT EXCEPT NO MAGNETITE IS PRESENT, NO EPIDOTE IS PRESENT, SEVERAL ZONES OF MILD BRECCIATION PRESENT - HEALED BY QTZ/CARBONATE.</p> <p>-SLIGHTLY PORPHYRITIC FROM 560 TO 563.5;</p> <p>-566.3-567.7 SHEARED AT 50° TO 70° TO CA; LOWER CT. MARKED BY 5cm. QTZ VEINLET.</p>	12592	557.8 557.95	whole rock
567.7 576.7	<p>BRECCIATED ACID DYKE (DYKE <math>\alpha</math> <math>\Delta</math> jeq)</p> <p>-MOTTLED GREYS WITH PINKISH TINGE; PORPHYRITIC TEXTURE WITH ROUND ORTHOCLASE? CRYSTALS IN SILICEOUS, SLIGHTLY CHLORITIC MATRIX, BUT ALL OF WHICH IS OBSCURE AND BRECCIATED INTENSELY WITH RESULTANT FINE NETWORK OF CARBONATE FRACTURES AND EXTENSIVE BADLY BROKEN CORE.</p> <p>-SHEARED NEAR UPPER CT. AT 65° TO CA; LOWER CT. IS CHLORITE SHEAR ADJACENT TO FAULT AT 36° TO CA.</p>	12593	574.2 574.35	whole rock

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MD-88-33	Sheet 13
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Feet/Metres	Description	sample number	interval	Analysis					
From To									
576.7 577.7	FAULT ZONE (FAULT) - FINELY BROKEN, CHLORITIC, MUDDY CORE CONSISTING ENTIRELY OF BLACK CHLORITE WITH MINOR QTZ/CARB. AND MUD SEAMS.								
577.7 582.0	SHEARED, CARBONATIZED BASALT. (V7 ≠ n <sub>2</sub> j <sub>9</sub> ) - MED TO DK. GREY; FINE, AMYRIC TO PORPHYRITIC; FOLIATED, LOCALLY INTENSELY SHEARED TO A CHLORITE/QTZ/CARB. SCHIST.; SOME BROKEN CORE; SHEARING AT 45°-65° TO CA.								
582.0 586.9	MASSIVE BASALT (V7° Hemj) - MED. GREENISH-GREY; SCHISTOSE 582.0 - 584.1 WITH SCHISTOSITY AT 70° TO CA, AND ABUNDANT CARB/QTZ. STRINGERS; PYRITE & HEMATITE RICH FROM 584.2 - 585.6; AMYGDULAR, WITH SAUSSERITIZED PLAG. AND CHLORITE IN AMYGDULES AT 586.1 - 587.0; 10 cm. GABBROIC DYKE AT 586.3 - 586.4.								
586.9 - 587.6	MAFIC TUFF (V9 ∅ j) - DK. GREEN TO BLACK; CHLORITE, CARBONATE RICH UNIT WITH ORIGINAL BEDDING DESTROYED BY SCHISTOSITY AT 47° TO CA.; FINE PYRITE IN CHLORITE WITH 2mm. MUD SEAMS AT 587.3								
587.6 589.5	ACID DYKE (DYKE α) - PINK TO PINKISH-GREY; EQUIGRANULAR TEXTURE OBSCURED; K-FELDSPAR RICH - 60-70% K-FELDSPAR, 30-40% QTZ, 5-10% CHLORITE. - UPPER CT. AT 52° TO CA; LOWER CT. AT 50° TO CA WITH MUD SEAM.								

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 625m	Hor. Comp.
Completed	Core Size	Corr. Dip -87 <sup>3/4</sup> P	Vert. Comp.
Co-ordinates		True Brg. 037°	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MN-11-33	Sheet 14
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Feet/Metres		Description	sample number	interval		Analysis										
From	To															
589.5	607.2	MASSIVE ANDESITE (V6 σ <sub>jq</sub> anth.)														
		- MED. TO LIGHT GREYISH-GREEN; MAINLY FINE GRAINED APHYRIC WITH MANY AMYGDULAR SEGMENTS.	12594	597.35	597.5	whole rock										
		- 589.5 - 591.5 - BRECCIATED, BROKEN UP WITH NETWORK OF CARBONATE-FILLED MICROFRACTURES -														
		PROBABLY A BAKED CONTACT; 1% PYRITE AS 2-3mm CUBES.														
		- 591.5 - 600.0 - FINE, APHYRIC WITH ABUNDANT (LOCALLY) ROUNDED AMYGDULES FILLED BY CARB/QTZ/PY.														
		- NUMEROUS CARB-FILLED MICROFRACTURES.														
		- 600.0 - 603.7 - AGGLOMERATIONS OF FINE TO COARSE, ACICULAR ANTONOPHYLLITE FORM 8% OF ROCK - PROBABLY INDICATE POORLY FORMED PILLOWS.														
		- 606.0 - 607.2 - CARB/CHLORATE RICH, BROKEN CORE, FOLIATION AT 40° TO CA.														
607.2	609.6	ACID DYKE (DYKE α)														
		- LIGHT GREY WITH PINK TINT; PRIMARILY QTZ. AND K-FELDSPAR; UPPER CT. AT 54° TO CA, LOWER CT. AT 40° TO CA. AND SHEARED.														
609.6	611.4	SILICIFIED ANDESITE (V6 σ <sub>jq</sub> )														
		- MED. TO LIGHT GREY; FINE, APHYRIC; VERY HARD, SILICIFIED PERVASIVELY														
		- NUMEROUS CARB-FILLED MICROFRACTURES; BROKEN CORE 611.0 - 611.2.														
611.4	615.8	FELDSPAR PORPHYRY DYKE (DYKE β □)														
		- MATRIX OF MED. TO LIGHT PINKISH-GREY WITH ABUNDANT CREAMY PLAGIOCLASE PHENOCRYSTS, GIVING SPOTTED APPEARANCE; MATRIX OF QTZ/K-FELDSPAR/BIOTITE WITH 15-25% PLAG. PHENOCRYSTS.	12595	612.4	612.55	whole rock.										

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. MD-88-33  
Sheet 15

Feet/Metres From To	Description	sample number	interval	Analysis				
	DYKE <input checked="" type="checkbox"/> cont'd: FLOW BANDED ADJACENT TO CONTACTS, WHICH ARE ABRUPT, IRREGULAR.							
615.8 626.4	SILICIFIED PILLOWED ANDESITE (V6σ00Δ)							
	-MED. GREYISH-GREEN; PILLOWED UNIT WITH TEXTURAL VARIATIONS FROM FINE, APHYRIC WITHIN PILLOWS; TO LOCALLY AMYGDULAR; TO VARIOLITIC NEAR SOME PILLOW MARGINS; TO VITROCLASTIC IN PILLOW INTERSTICES.; TRACE PYRITE CONCENTRATED IN VITROCLASTIC ZONES, BUT ALSO PRESENT AS RANDOM CLOTS.	12596	623.0 623.2					whole rock
	-EITHER OF ORIGINAL SILICEOUS (ANDESITE OR DACITE) COMPOSITION OR SILICIFIED SUBSEQUENT TO FORMATION (APPEARS TO BE A GRADATIONAL TRANSITION FROM RHYOLITE UP TO ANDESITE IN THIS HOLE; AS OPPOSED TO ABRUPT AT K.T. CONTACT IN OTHER HOLES)	12597	627.0 627.1					whole rock
	- LOWER CT. IS SHEARED	12598	628.75 628.9					whole rock
		12599	630.6 630.75					whole rock
626.4 631.1	TRANSITION ZONE OF ALTERNATING ANDESITE AND VARIOLITIC RHYOLITE (V6φ/V2*qc)			Zn	Cu	Pb	Ag	Au
	-626.4-628.2: VARIOLITIC RHYOLITE PILLOWS? - MED. TO LIGHT GREY; VERY HARD, SILICEOUS; APPARENT PILLOW MARGIN AT 627.0; MOST OF INTERVAL IS BADLY BROKEN WITH CALCITE/HEMATITE ALONG FOLIATED FRACTURE PLANES;	12757	625.0 626.5					
		58	626.5 628.0					
		59	628.0 629.5					
	-628.2-628.3: HEMATIZED ACID DYKE = BRICK RED, PORPHYRITIC; K-FELDSPAR, QTZ., PLAG-PHENOX.	60	629.5 631.0					
	-628.3-628.4: CHLORITIZED ANDESITE: DK. GREEN, CHLORITIC, SHEARED AT 43° TO CA; 1% PYRITE WITH CARB/QTZ. STRINGERS.	61	631.0 632.0					
		62	632.0 633.0					
	-628.4-630.2: VARIOLITIC RHYOLITE: MED. TO LIGHT GREY; VERY HARD, SILICEOUS; MINOR PYRITE AT POSSIBLE PILLOW MARGIN AT 629.7; GRADATIONAL INTO -	63	633.0 634.5					
	-630.2-631.1: CHLORITIZED ANDESITE: DK. GREY-GREEN; FINE, APHYRIC, NETWORK OF							

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MA 94-77	Sheet 16
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Feet/Metres From To	Description	sample number	interval	Analysis
	MICROFRACTURES FILLED WITH CARB./QTZ.; STRONG FOLIATION AT 40° TO CA.; LOWER CT. SHEARED AT 57° TO CA.			
631.1 662.3	RHYOLITE. (V2) -631.1-632.8 - EXTREMELY CRACKLED UNIT WITH MESHWORK OF MICROFRACTURES; MED. GREY WITH LOCAL BROWNISH-PURPLE TINGE; APPEARS TO HAVE BEEN A MASSIVE PORPHYRITIC FLOW; PREDOMINANT FRACTURE PLANE AT 57-62° TO CA; TRACE PY. IN CRACKS NEAR 631.1-631.2. -632.8-638.2 - MED. GREY WITH LOCAL REDDISH TINGE; MASSIVE, VERY FINE, VERY SILICEOUS RHYOLITE.; PINK FELDSPAR PHENOCRYSTS SCATTERED THROUGHOUT.; 1% PYRITE PRESENT IN RANDOM CLOTS AND ALONG FRACTURE PLANES; BADLY BROKEN CORE FROM 635.5 TO 638.2; SLIGHTLY MAGNETIC. -638.2-662.3 - MED. TO LIGHT GREY MASSIVE RHYOLITES; EXTREMELY HARD, SILICEOUS; PYRITE IN TRACE AMOUNTS AS RANDOM CLOTS; CHALCOPRITE AT 657.65 AS SMALL BLEBS ALONG A QUARTZ-HEALED MICROFRACTURE; RHYOLITE BRECCIA AT 655.7 TO 656.5 WITH FRACTURES HEALED BY QTZ/CALCITE; BADLY BROKEN AT 659.0-659.2; NO MAGNETIC RESPONSE	12600	634.7 634.85	whole rock
662.3 663.2	ANDESITE (V6 Hem) - DK. GREYISH-GREEN; MASSIVE, APHYRIC; UNIFORMLY CHLORITIZED; UPPER CT. MARKED BY QTZ/CARB STRINGER AT 36° TO CA; LOWER CT. SHARP, CHILLED, AT 32° TO CA.			
663.2 695.05	RHYOLITE (V2) - SAME AS ABOVE AT 638.2-662.3			

# Drill Hole Record



Property	District	Hole No.			
Commenced	Location	Tests at	Hor. Comp.		
Completed	Core Size	Corr. Dip	Vert. Comp.		
Co-ordinates		True Brg.	Logged by		
Objective		% Recov.	Date		

Claim	T Brg.	Collar Dip	Elev.	Length	Analysis				
					Zn	Cu	Pb	Ag	Au

Feet/Metres	Description	sample number	interval
From To			
	V2 (cont'd.) BADLY BROKEN CORE AT 670-671.6; 675.8-677.6; 679.5-680.1; 680.9-681.5; 683.4-684.0; 684.7-687.7; 691.3-693.4. -ENTIRE UNIT IS VERY BLOCKY -686.0-692.0: AMYGDULAR; LARGE AMYGDULES OF CALCITE/QTZ. (SOME WITH CHLORITE, PYRITE) IN MASSIVE SILICEOUS DK. GREY RHYOLITE.	12101	678.65 678.8
695.05 697.75	CARBONATIZED RHYOLITE (V2 n □ Py) -LIGHT TO BUFF GREY (BLEACHED APPEARANCE); MASSIVE PORPHYRITIC WITH <10% PHENOCRYSTS OF CHLORITE, QUARTZ, CARBONATE, AND SECONDARY SUB TO EUBEDRAL PYRITE (1%) WHICH OCCURS AS SCATTERED RECRYSTALLIZED PHENOCRYSTS.	12764	694.0 695.0 65 695.0 696.5 66 696.5 698.0
697.75 703.6	MINERALIZED RHYOLITE (V2 * Py) -MEDIUM GREY, MASSIVE, SLIGHTLY FOLIATED, LOCALLY SPHERULITIC RHYOLITE. -SOME BRECCIATION EVIDENT AT 698.8-700.9, WITH FRACTURES HEALED BY QUARTZ, CHLORITE. -BRECCIATED, MINERALIZED FLOW MARGINS AT 701.9-702.0, 702.6-702.75, 703.0-703.1 - UNIT AS A WHOLE CONTAINS 2% PYRITE, MAINLY AS RANDOM AGGREGATES, BUT ALSO CONCENTRATED ALONG FRACTURES, ESPECIALLY AT FLOW MARGINS. -LOWER CT. ABRUPT AT 35° TO CA	67	698.0 699.5 68 699.5 701.0 69 701.0 702.5 70 702.5 703.6
703.6 - 704.7	MINERALIZED TUFF (V9 α Py Sph cjq) : LOWER TUFFITE. -FOLIATED, BEDDED, DARK TO LIGHT GREY CHLORITIC, SILICEOUS TUFF. -CONTAINS 7-8% VERY FINE SYNDEPOSITIONAL MIXTURE OF PYRITE AND SPHALERITE AS SEMI-MASSIVE		

# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. Min. to Max. 20	Sheet 18
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Feet/Metres From To	Description	sample number	interval		Analysis						
			Zn	Cu	Pb	Ag	Au				
	V9αPy Sphcjq cont'd; SULPHIDES ALONG BEDDING PLANES AT 703.65-703.7 AND AT 703.9-704.4; UNIT ALSO CONTAINS 35% PYRITE OCCURRING AS LARGE SECONDARY SUB TO EUHEDRAL AGGREGATES. CONCENTRATED ALONG FOLIATION (S1 SCHISTOSITY) PLANES; SECONDARY PYRITE IS SHINIER, BRASSY; SYNDEPOSITIONAL SULPHIDE MIXTURE IS BRONZE; TRACE CHALCOPYRITE OCCURS AS DISCREET GRAINS IN MIXTURE	12771	703.6	704.7							
	- BEDDING IS 20-28° TO CA; SCHISTOSITY IS 30-40° TO CA.	72	704.7	706.2							
	- UNIT IS LOCALLY VERY CHLORITIC, SILICEOUS, AND IS CUT BY QTZ./CARB STRINGERS PRIMARILY PARALLEL TO S1, BUT ALSO IN RANDOM ORIENTATIONS.	73	706.2	707.5							
	- 704.2 - 704.6 IS BADLY BROKEN, CHLORITIC.	74	707.5	709.0							
	- LOWER CT. OBLITERATED BY CARB/QTZ VEINLETS AND REMOBILIZED PYRITE AGGREGATES.	75	709.0	710.0							
		76	710.0	711.5							
		77	711.5	713.0							
		78	713.0	714.5							
		79	714.5	716.0							
		80	716.0	717.5							
		81	717.5	719.0							
704.7 706.2	MINERALIZED RHYOLITE (V2 Pyδjq) - BLOTCHY DARK GREY SHADES; VERY FINE-GRAINED, SLIGHTLY CHLORITIC; CONTAINS 3-4% PYRITE AS COARSE AGGREGATES; CUT BY NUMEROUS QTZ./CARB FRACTURE FILLINGS.										
706.2 709.5	RHYOLITE (V2) - DK. TO MED. GREY; FINE, SILICEOUS, SLIGHTLY PORPHYRITIC; SPHERULITIC AT 708.9-709.4 - 2mm. ROUND QTZ. SPHERULES WITH CARBONATE CORONAS IN FINE SILICEOUS MATRIX. - CUT BY NUMEROUS QTZ./CARB-FILLED MICROFRACTURES. - LOWER CT. IS SHEAR CT. WITH MVD AT 20° TO CA. - < 1% PYRITE AS RANDOM CLOTS.										



# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 710	Hor. Comp.
Completed	Core Size	Corr. Dip -88°	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. Mn. 00-22	Sheet 19
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Feet/Metres	Description	sample number	interval	Analysis
From To				
709.5 710.0	SILICEOUS TUFF (V9 α <sub>j</sub> ) - FINELY BANDED DIRTY GREENISH-GREYS; WELL-FOLIATED (SCHISTOSE) AT 20-28° TO CA. - FINE-GRAINED SILICEOUS WITH ABUNDANT CARBONATE; CHLORITE AND SERICITE ON SCHISTOSITY PLANES. - ONLY TRACE AMOUNTS OF PYRITE; BOTH CTS. SHARP AT 29° TO CA.			
710.0 729.0	RYHOLITE (V2*) - BLOTCHY TO SOLID MED & DK-GREYS TO 717.5; 717.5-720.8 IS LIGHT GREY, SPHERULITIC - SPHERULES ARE STRETCHED ALONG FLOW DIRECTION, FORM 15-25% OF ROCK AND ARE IN A LIGHT GREY, VERY SILICEOUS MATRIX; TRACE TO NIL PYRITE IN SPHERULITIC PART. - UPPER PORTION (710.0-716.2) IS SLIGHTLY CRACKED UP, BLOTCHY; WITH PYRITE MINERALIZATION FORMING 1% OF ROCK - OCCURRING AS RANDOM CLOTS AND CONCENTRATED ALONG AND NEAR CRACKS; 1 cm-WIDE QTZ-FILLED FRACTURE AT 714.0-714.2 CONTAINS PYRITE AND CRYSTALLINE SPHALERITE. - 720.8-729.0 IS DK.-MED. GREY; MASSIVE, FINE-GRAINED; SLIGHTLY PORPHYRITIC; HOSTS SCATTERED CALCITE-FILLED AMYGDULES; 728.8-729.0 IS LIGHTLY CARBONATIZED AND CONTAINS RANDOM CLOTS OF PYRITE; 720.8-728.8 CONTAINS TRACE TO NIL PYRITE. - LOWER CT. IS SHARP, SHEARED, INTRUSIVE AT 59° TO CA; IT IS MUDDY, CHLORITIC	12102	712.0 712.15	white rock
729.0 756.7	MAGNETIC GABBRO (3G M+φ <sub>j</sub> ) - MED. TO DK. GREYISH-GREEN; WELL-FOLIATED AT BEGINNING, BUT FOLIATION GRADUALLY WEAKENS TO ZERO BY 735.0; THIS CHANGE IN FOLIATION IS DIRECTLY RECIPROCAL TO THE MAGNETITE CONTENT (IE. BEGINNING AT ZERO AND INCREASING TO 1-3% OF ROCK BY 735.0	12103	736.0 736.1	white rock

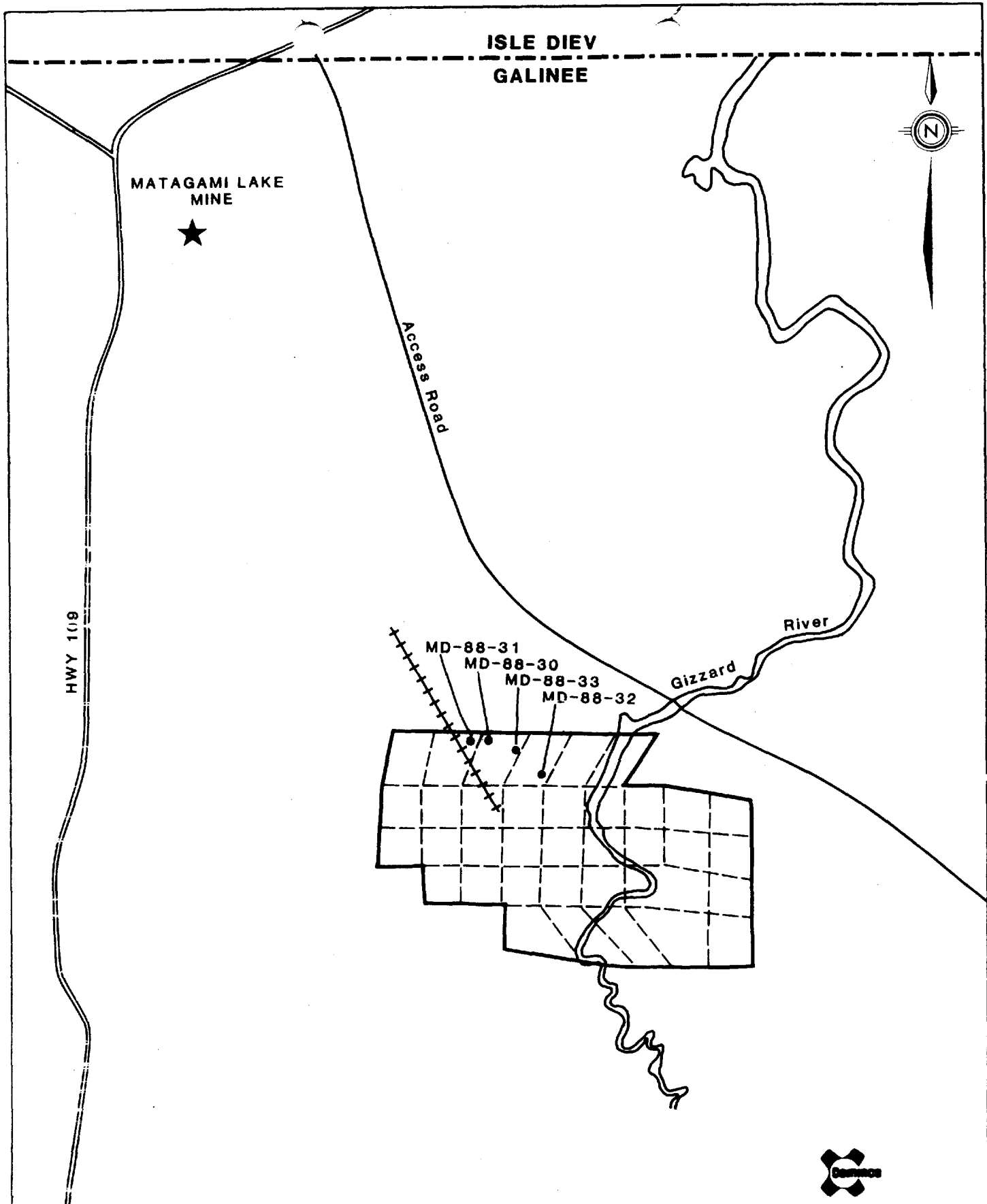
# Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at 765m	Hor. Comp.
Completed	Core Size	Corr. Dip -87°	Vert. Comp.
Co-ordinates		True Brg. 036°	Logged by
Objective		% Recov.	Date Nov. 20, 1988.

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. MA. 00 22	Sheet 20
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Feet/Metres	Description	sample number	interval	Analysis
From To				
	3G Mtg. cont'd : GABBRO IS FINE TO MEDIUM GRAINED, MASSIVE, UNIFORM ; CHLORITIZATION IS PERVASIVE ; CARBONATE STRINGERS AND WISPS ARE ABUNDANT ; PYRITE OCCURS AS SCATTERED 1mm. AGGREGATES IN TRACE AMTS. ; HEMATITE ON SOME FOLIATION SURFACES, SPECULAR HEMATITE PLUS CALCITE AS FRACTURE FILLINGS.			
	- FOLIATION AT 25-60° TO CA ; GRADUALLY DECREASING CA FROM 729 TO 735.			
	- MAGNETIC CONTENT DECREASES UNEVENLY, BUT STEADILY, TO ZERO FROM 746 TO 756.7			
756.7 765.6	RHYOLITE (V2Δ)			
	- MED. TO DK. GREY ; FAIRLY UNIFORM, VERY FINE GRAINED <sup>TO</sup> GLASSY TEXTURE			
	- UPPER PORTION IS BUFF-TINTED AND PROBABLY SLIGHTLY BAKED.	12104	763.85 764.0	whole rock
	- FINE NETWORK OF QTZ/CARB FILLED FRACTURES CUT LOWER PORTION, RESULTING IN BRECCIATION, BADLY BROKEN CORE AT 760.6-761.2, 762.0-763.0, 764.9-765.6			
	- TRACE PYRITE PRESENT AS SCATTERED 1mm. CRYSTALS.			
	END OF HOLE 765.6m.			



Drawn by: J.D.C./ D.W.M.		Traced by: L.S.	
Revised by	Date	Revised by	Date

**MCLEOD PROPERTY**

**QUEBEC**

**PROPERTY LOCATION MAP**

Scale: 1:50000

Date: JANUARY 1989

Plate **FIGURE 1**