



Your file Votre référence

24 November, 1986

Our file Notre référence

DIRECTOR GENERAL, YUKON REGION

Attention: Regional Manager
 Mineral Rights



RESTRICTED

Enclosed are Diamond Drill logs etc., submitted by AMP Exploration and Mining Company Ltd. for Assessment on the BARB 1 to 24, 1 to 6 Frs. 29, 30; LOG 20, 22, 24, 26, 45, 53, 55, 90, 92, 133 and 100F to 103F mineral claims located on 105-B-4.

Drilling was as follows:

100 F	243 Feet
100 F	304 Feet
100 F	498 Feet
TOTAL	1,045 Feet

Assessment credit required is \$18,000.00. We have requested the location of the drill core and will advise as soon as we receive this information.

Yours truly,

Yolanda T. Burkhard
Mining Recorder
Watson Lake Mining District
P. O. Box 269
Watson Lake, Yukon
Y0A 1C0

091872

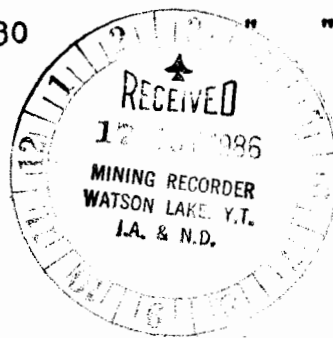
NJM
encl.

Report on underground exploration on on A.M.P. Explorations and Mining Co. Ltd.'s Logjam Property, Watson Lake Mining District, claim sheet 105 B-4.

On August 2, 1986 underground exploration work commenced on A.M.P. Explorations and Mining Co. Ltd.'s Logjam precious-base metal property. The property is located 12 km north of the Alaska Highway at a point 200 km southeast of Whitehorse, Yukon Terr. Access to the claims is provided by some 18 km of mining road including some sections which require 4 wheel drive. Topography is mountainous and relief is in the order of 600m, ranging from 1270 to 1900m.

The property consists of 46 claims and fractional claims as follows:

<u>Claim Name</u>	<u>Grant No.</u>	<u>Expiry Date</u>	<u>No.</u>
Barb 1-2	Y72102-103	Oct. 8, 1988	2
Barb 9-16	Y72110-117	Oct. 8, 1986	8
Barb 3-8	Y72104-109	" " 1988	6
Barb 17-24	YA21405-412	" " 1986	8
Log 20,22	YA 11229,231	" " "	2
Log 24,26	YA 11233,235	" " "	2
Log 45,53	YA 11378,386	" " "	2
Log 55	YA 11388	" " "	1
Log 90-92	YA 11423,425	" " "	2
Log 133	YA 11466	" " "	1
100Fr.-103Fr.	YA 55782-785	" " "	4
Barb 29-30	YA 68731-732	" " "	2
Barb 1-6Fr.	YA 68725-730	" " "	6
			<u>46</u>



The planned programme includes some 2600 ft. of A Q wireline diamond drilling and some 200 ft. of drifting on the No. 4 and No. 6 veins. As of Oct. 8, 1986, the programme was only partly completed and work done included the following:

- (1) Mobilization of equipment and personnel.
- (2) Rehabililation of camp buildings and underground workings.
- (3) Drifting in quartz-sulphide mineralization on the No. 4 vein. As of Oct. 8, 1986 the drift had advanced 70 ft. (6'x 7' drift). Visible mineralization includes quartz, arsenopyrite, galena and sphalerite.
- (4) Two diamond drill hole cut-outs in the No. 6 vein drift in galena sphalerite - arsenopyrite mineralization and diorite wall rock. The cut-outs average 6'x8'x7' each.
- (5) Underground A.Q. wire-line diamond drilling totalling 677 ft in 2-1/2 holes. The drill cores are currently stored at the property.
- (6) Caterpillar work on mine area roads totalling some 4000 ft. of regrading and widening switch-backs.
- (7) Underground surveying and geological mapping on 5150 level totalling 885 ft. and 860 ft. respectively.
- (8) Planning and layout of 2600ft. of diamond drilling.

As of the present date, diamond drill hole logs, and assays and assays of drift exposures are incomplete but will be submitted when available.

To Oct. 8, 1986, 10 persons have been employed by the project and their names, addresses and wages along with other costs are included on the accompanying cost statement.

The location of the preceding described work with respect to claim boundaries is shown on the accompanying map at a scale of 1:2500.

Respectfully submitted,

D.C. Miller

D.C. Miller, P. Eng.

October 15, 1986

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 Canada V7P 2R5
 Phone: (604) 985-0681
 Telex: 04-352667



Certificate
 of Analysis

REPORT: 426-5851 (COMPLETE)

REFERENCE INFO:

CLIENT: AMP EXPLORATION & MINING CO. LTD.
 PROJECT: NONE GIVEN

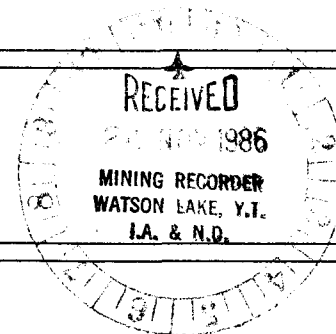
SUBMITTED BY: UNKNOWN
 DATE PRINTED: 12-NOV-86

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold - FIRE ASSAY	63	0.001 OPT		
2	Ag	Silver	63	0.01 OPT		
3	Pb	Lead	63	0.01 PCT		
4	Zn	Zinc	63	0.01 PCT		
5	Bi	Bismuth	1	0.01 PCT		
6	As	Arsenic	1	0.01 PCT		
7	W	Tungsten	1	0.01 PCT		
8	Sn	Tin	1	0.01 PCT		

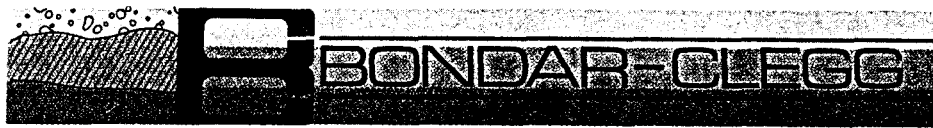
SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BEB ROCK	63	2 -150	63	ASSAY PREP	63
				OVERWEIGHT SAMPLE/LB	105

REPORT COPIES TO: MR. D.C. MILLER
 AMP EXPLORATION & MINING

INVOICE TO: AMP EXPLORATION & MINING



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REPORT: 426-5851

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Pb PCT	Zn PCT	Bi PCT	As PCT	W PCT	Sn PCT
R2 2826	H-1	0.009	3.65	3.05	1.45				
R2 2827	"	<0.002	0.19	0.02	0.05				
R2 2828	"	0.033	12.66	4.75	2.60				
R2 2829	"	<0.002	0.05	0.04	<0.01				
R2 2830	"	<0.002	0.09	0.06	<0.01				
R2 2831		0.010	3.30	1.12	1.00	3.2			
R2 2832		<0.002	0.18	0.06	0.06				
R2 2833		0.102	4.89	3.55	11.00	0.5			
R2 2834		<0.002	0.10	0.03	<0.01				
R2 2835		0.002	3.51	1.61	0.75	1.5			
R2 2836		<0.002	0.14	0.08	0.04				
R2 2837		0.011	0.27	0.16	0.33				
R2 2851		<0.002	0.82	0.48	0.47				
R2 2852		0.002	0.16	0.06	0.10				
R2 2853		<0.002	0.19	0.10	0.08				
R2 2854		0.005	1.62	0.64	0.40				
R2 2855		0.003	0.41	0.22	0.30				
R2 2856		0.009	0.92	0.42	0.64				
R2 2857		<0.002	0.02	<0.01	<0.01	2.3			
R2 2858		0.004	0.11	0.01	<0.01				
R2 2859		0.005	0.21	0.06	1.46				
R2 2860		<0.002	0.07	<0.01	<0.01				
R2 2861		0.002	0.09	0.02	<0.01				
R2 2862		0.002	0.09	0.01	<0.01				
R2 2863		0.002	1.31	0.88	1.97				
R2 2864		<0.002	0.06	<0.01	<0.01				
R2 2865		0.007	1.63	0.60	0.75				
R2 2866		<0.002	0.08	0.02	<0.01				
R2 2867		0.002	0.07	0.01	<0.01				
R2 2868		<0.002	0.03	0.05	<0.01				
R2 2869		0.004	0.48	0.17	0.30				
R2 2870		0.005	0.04	<0.01	<0.01				
R2 2871		<0.002	0.15	0.02	0.01				
R2 2872		0.053	6.78	1.20	8.30				
R2 2873		0.005	0.06	<0.01	0.01				
R2 2874	H-1	<0.002	0.03	0.02	0.01				
R2 2875	H-1	<0.002	0.03	<0.01	<0.01				
R2 2926		<0.002	0.65	0.30	0.45				
R2 2927		<0.002	1.98	0.96	1.68				
R2 2928		<0.002	0.37	0.18	0.23				

H-1
 U.L. 1 e 155-186.3 1.3

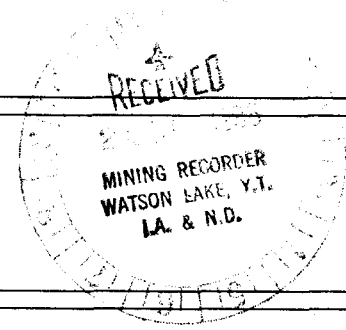
3.2
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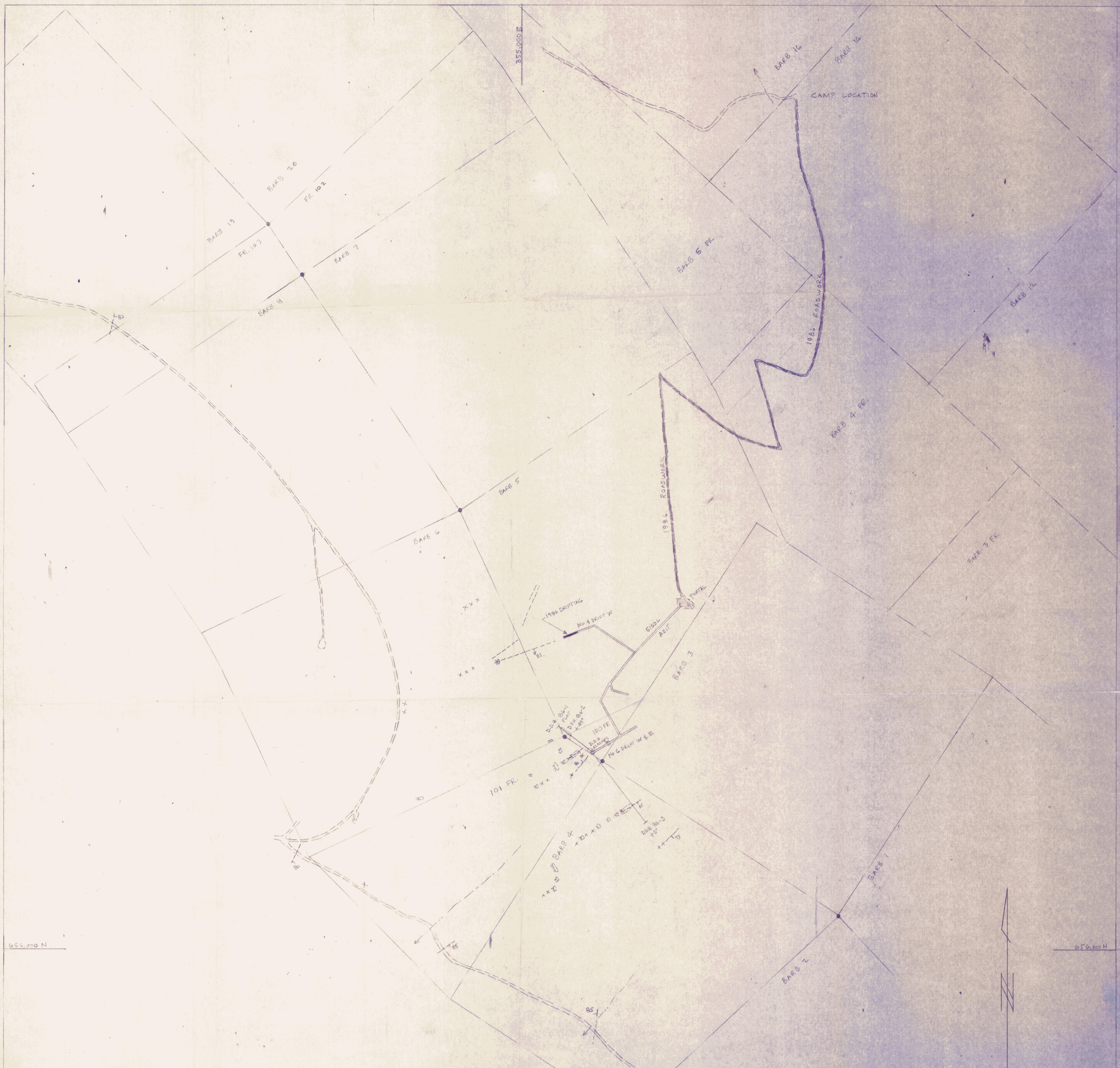
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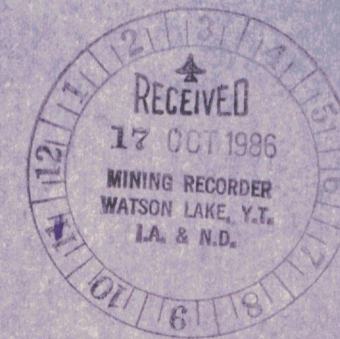
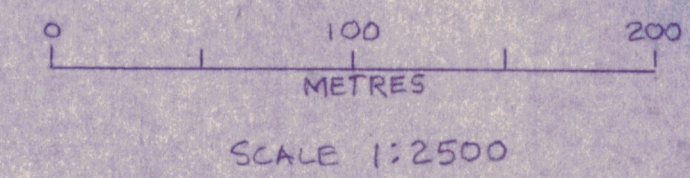
[Signature]
 Registered Assayer, Province of British Columbia



LEGEND

- ROAD
- CREEK
- TRENCH
- VEIN
- FLOAT
- ROADWORK, 1986
- DRIFT ADVANCE, 1986
- CLAIM POST, CLAIM BOUNDARIES

BEARING FROM LEGAL POST (I.P. OF BARB 5 #6) TO DRILL COLLARS
 OF DDH B6-1, B6-2 & B6-3 = 562°E . DISTANCE = 52 METRES
 BEARING FROM INITIAL POSTS OF BARB 5 & 6 TO START OF 1986
 DRIFT ADVANCE IN 5150 No 4 Dr W = 106°E . DISTANCE 172 METRES.



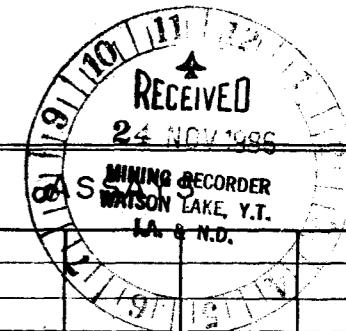
A.M.P. EXPLORATIONS & MINING COMPANY LTD
 LOGJAM PROPERTY

LOCATION MAP
 DIAMOND DRILLING, DRIFTING & ROAD WORK
 FOR AUG. 2 - OCT. 8, 1986

DRAWN BY: D.C. MILLER, OCT. 15, 1986

355.000E

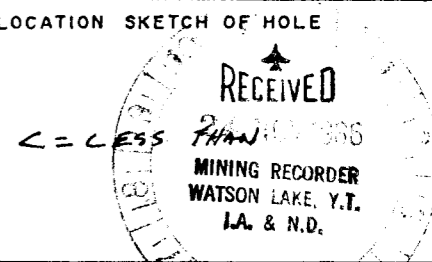
PROPERTY <u>A.M.P. LOGJAM</u>	TP OR AREA <u>5150 LEVEL No 6</u>	AZIMUTH <u>308°</u>	DATE STARTED <u>SEPT. 8, 1986</u>	CORRECTED DIP TESTS				LOCATION SKETCH OF HOLE
PROJECT	LOT & CONC. <u>VEIN DRIFT WEST</u>	DIP <u>FLAT</u>	DATE COMPLETED <u>SEPT 20, 1986</u>					
CLAIM NO. <u>100 FRACTION</u>	CO-ORDINATES.	LENGTH <u>243 FT.</u>	DRILLED BY <u>A.M.P. EXPLORATIONS</u>					
GRID NO.		COLLAR ELEV.	LOGGED BY <u>D.C. MILLER</u>					



FOOTAGE		SECTION	DESCRIPTION	SAMPLE NO.			
FROM	TO	1" =		FROM	TO	LENGTH	
0	116.2		<u>DIORITE AND HYBRID ROCK.</u>				
			medium to light grey, fine grained, moderately hard, non-magnetic except near pyrrhotite mineralization; reacts weakly to HCl along very fine fractures and occasional larger calcite healed fractures; good core in pieces to 2'; minor pyrrhotite with traces of chalcopyrite.	*			(pyrrhotite is strongly magnetic)
			(1.1 - 1.4) - Fine pyrrhotite-quartz veining @ 50'.	*			
			(6.5 - 8.5) - prominent m.g. secondary brown biotite-anhydral crystals.				
			(10.5 - 10.8) - quartz with irregular blobs of pyrrhotite to 1/4"	*			
			(14.3 - 16.3) - Broken core with brecciation and several fine fractures @ 50-70'.	*			
			(20.5 - 26.0) - Quartz - pyrrhotite - feldspar stringers.	*			
			(35.7 - 35.9) - minor fine galena-sphalerite with 1/6" quartz vein @ 40'.	*			
			Pale white-grey, very fine-grained calcareous inclusions @ (38.8 - 39.1) (42.2 - 43.0) and (44.2 - 44.4).				
			(0 - 35) - contains prominent secondary biotite as m.g. anhydral crystals.				
			Best core @ (0 - 1.0), in 1-2" pieces, 70-80° breaks.	*			
			" " (18-16) " " 40-80° " "				
			Core recovery: (0-6) - 85%; (6-47) 99%.				

FOOTAGE		SECTION " =	DESCRIPTION	NOTE: < = LESS THAN				ASSAYS				
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	O ₂ /TON Au	Ag	Pb%	Zn%	
0	116.7	Cont'd	(95.0 - 96.7) - as (73.9 - 95.0), broken, ground core @ 95.0 - 95.5.									
			(96.7 - 103.0) - Pale grey, very fine grained hybrid rock with 10% pyrrhotite mineralization and minor pyrite, galena and sphalerite particularly @ (102.0 - 102.3).	2874	96.7	103.0	6.3	<0.002	0.03	0.02	0.01	
			(103.0 - 114.7) Diorite hybrid with 15% irregular rounded inclusions of fine grained pale grey sediment, minor disseminated pyrrhotite.									
			(114.7 - 115.0) Pale grey, fine-grained, as (96.7 - 103) with 5% pyrrhotite disseminated & in fine discontinuous veinlets.									
			(115.0 - 116.7) Vein zone with pyrrhotite-galena-sphalerite-pyrite mineralization in quartz-calcite gangue; best at (115.0 - 115.2); core in 1-8" pieces with 60° breaks.	2875	113.7	115.0	1.3	<0.002	0.03	<0.01	<0.01	
				2826	115.0	116.7	1.7	0.009	3.65	3.05	1.45	
116.7	155.0		<u>DIORITE</u> Dark grey-green, fine-grained granular texture, fairly uniform appearance, moderately hard, minor disseminated pyrrhotite mineralization (< less than 1%); good core in pieces to 2 1/2 ft.									
			(116.7 - 124.0) Fine-grained gradational from preceding hybrid rock.									
			(116.7 - 155.0) occasional white quartz-calcite vein from 1/8" - 1/2" @ 40 - 80° less than one per 5'									
			(154.3 - 155.0) - Fine grained with minor pyrrhotite.	2827	154.3	155.0	0.7	<0.002	0.19	0.02	0.05	
155.0	156.3		<u>Vein Zone</u> Pyrrhotite-galena-sphalerite-arsenopyrite-pyrite in a grey quartz-calcite matrix; mineralization is roughly banded @ 70°; good core.	2828	155.0	156.3	1.3	0.033	12.66	4.75	7.60	4#E

FOOTAGE		SECTION #	DESCRIPTION	ASSAYS			
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH
114.0	225.0		<p><u>cont'd</u></p> <p>(151.0 - 152.0) Broken core associated with several 1" quartz healed fractures @ 45°, bleached pale^{to} green gray.</p> <p>Minor pyrrhotite with fine fractures @ various angles @ (153.8 - 155.0), (157.5 - 157.8) and (159.5 - 159.6).</p> <p>(159.5 - 167.7) Bleached green gray; associated with several fractures and small quartz veins @ 10-50°; pyrrhotite @ (166.5 - 166.7) in fine 40° fractures.</p> <p>(169.2) - 1" quartz-calcite vein @ 25° with minor pyrrhotite - sphalerite.</p> <p>(167.5) - 1" quartz-calcite vein @ 10° " " pyrrhotite - sphalerite.</p> <p>(175 - 180.3) - Broken core associated with several fractures and fine quartz veins @ 20-70°.</p> <p>Minor pyrrhotite disseminated & associated with fine fractures @ (173.8 - 174.0), (180.0 - 180.2) & (183 - 184.5).</p> <p>(184.5 - 185.1) - Quartz-calcite vein @ 40-70° with traces of pyrrhotite.</p> <p>(139.0 - 187.0) joint fractures trend @ 30-50° and average more than 1 per foot.</p> <p>Core Recovery: (139.0 - 143.0) - 99%; (143.0 - 148.0) - 66%; (148.0 - 150.0) - 90%; (150.0 - 170.5) - 99%; (170.5 - 180) - 95%; (180.0 - 187.0) - 99%; (187.0 - 190.5) - 77%; (190.5 - 199.0) - 87%; (199 - 209) - 95%; (209 - 224) - 90%; (224 - 236) - 95%.</p>				

PROPERTY A.M.P.	TP OR AREA	AZIMUTH 142°	DATE STARTED OCT. 6/86	CORRECTED DIP TESTS 200 -2° 400 -2°		LOCATION SKETCH OF HOLE 
PROJECT	LOT & CONC.	DIP 75° @ COLLAR	DATE COMPLETED OCT. 23/86			
CLAIM NO. 100 FRACTION	CO-ORDINATES.	LENGTH 498.0 FT.	DRILLED BY A.M.P. EXAMINATIONS			
GRID NO.		COLLAR ELEV.	LOGGED BY D.C. MILLER			

FOOTAGE		SECTION	DESCRIPTION	SAMPLE NO.			ASSAYS				
FROM	TO	1" =		NO.	FROM	TO	LENGTH	Au	Ag	Pb %	Zn %
0	10.0		<p><u>DIORITE</u> Dark grey, fine-med. grained granular texture with prominent anhedral biotite; contains approx. 2% disseminated pyrrhotite and pyrite-pyrrhotite along very fine veinlets @ 20-80° - approximately 1 per ft.; fair core broken in 2-8" pieces; Recovery ≈ 80%. Pyrrhotite is strongly magnetic. (0-0.5) Aphanitic with 10% f.g. pyrrhotite-pyrite.</p>	2857	0	0.5	0.5	0.002	0.02	0.01	0.01
10.0	106.0		<p><u>DIORITE HYBRID</u> Medium to dark grey, predominantly f.g. but with variable texture; good core. (10.0-17.5) approx. 2% disseminated of fine veinlets of pyrrhotite. (17.5-19.0) Quartz-calcite vein zone with 20% pyrrhotite with pyrite & chalcopyrite. (19.0-35.0) Approx. 2% pyrrhotite as dissemination of fine veins with larger (to 3") quartz-calcite veins @ (19.0-23.0). (35.0-47.5) Prominent brown to black f.-m.g. anhedral secondary biotite; ≈ 1% pyrrhotite. Recovery (10.0-47.0) = 95%.</p>	2858	17.5	19.0	1.5	0.004	0.11	0.01	0.01

FOOTAGE		SECTION " =	DESCRIPTION	ASSAYS			
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH
10.0	106.0		<u>DIORITE - HYBRID</u> <u>CONTD</u>				
			(47.5 - 63.0) - Med. grey-green, f.g. - aphanitic, essentially a hornfels; contains minor f.g. anhedral feldspar & biotite crystals; approx 2% pyroxenite as disseminations and along fine quartz healed fractures @ 40-70°, approx. 1 per ft.				
			(63.0 - 63.8) - Quartz-pyroxenite vein @ 20° - 2" thick - disseminated pyroxenite with traces of pyrite and chalcopyrite.				
			(63.8 - 67.0) - as 47.5-63.0, good core				
			(67.0 - 68.2) - Pale altered zone with quartz-pyroxenite @ 0-10° - traces of sphalerite.				
			(68.2 - 69.1) 90% f.g. brown biotite.				
			(69.1 - 83.0) - as (47.5-63.0), grain size and percentage of phenocrysts increasing; approx. 2% pyroxenite as fine vein fillings; veins @ 10-30° with bleached edges; good core.				
			(83.0 - 90.0) - prominent biotite (anhedral) phenocrysts approx 1% pyroxenite with fine quartz veinlets - less than 1 per ft in good core.				
			(90.0 - 91.0) - light colored granitic stringer @ 0-20°.				
			(91.0 - 94.0) - as (83.0 - 90.0).				
			(94.0 - 95.0) - 75% aplitic stringers (2" size) @ 80°.				
			core recovery 47. - 95.0 = 99%				

FOOTAGE		SECTION #	DESCRIPTION				ASSAYS				
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	oz/TON		%	
							Au	Ag	Pb%	Zn%	
			<u>DIORITE HYBRID CONT'D</u>								
			(95.0-106.0) - Grey, mainly very fine grained, cut by 10% - 1-3" aplitic stringers @ 10-80°, good core; approx. 1% pyrrhotite as fine vein fillings								
106.0	166.2		<u>Diorite</u> Dark grey, fine-med. grained granular texture, moderately hard, good core.								
			(113.0-117.0) - 10% granitic-aplitic stringers to 3" thick.								
			(118.0-138.0) - Heavy fine-grained disseminated pyrrhotite - approx 6%.								
			(138.0-166.2) - approx 4% disseminated & vein pyrrhotite. core recovery (95.0-166.2) = 95%.								
			(151.6-151.8) - Broken with clay gouge - 30° fracture.								
			(153.4-166.2) - occasional (1 per 2') fractures with quartz-calcite-pyrite @ 60-80° $\frac{1\frac{1}{2}}{8} - \frac{1}{2}$ "								
166.2	178.0		<u>VEIN ZONE</u> Med. - pale grey, mainly quartz gangue with lesser carbinite, banded structure @ 70°-50°, banded and disseminated sulphides comprising pyrrhotite, pyrite, arsenopyrite, sphalerite and minor galena; good core - 95% recovery								
			(166.2-170.0) - fair sulphides	2859	166.2	170.0	3.8	0.005	0.21	0.06	1.46
			(170.0-172.6) - weak sulphides - mainly pyrrhotite	2860	170.0	172.6	2.6	0.002	0.07	0.01	0.01
			(172.6-174.0) - barren white quartz - fine 70° banding	2861	172.6	174.0	1.4	0.002	0.09	0.02	0.01
			(174.0-176.0) - weak sulphides	2862	174.0	176.0	2.0	0.002	0.09	0.01	0.01
			(176.0-178.0) - fair sulphides	2863	176.0	178.0	2.0	0.002	1.31	0.88	1.97

FOOTAGE		SECTION #	DESCRIPTION	<= LESS THAN				ASSAYS					
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	OZ/TON Au	Ag	%Pb	%Zn		
335	380.5		CANT'D (350.5) = 2" quartz vein @ 70° with minor pyrrhotite.										
380.5	384.3		<u>MINERALIZED DIORITE</u> Medium gray-green, fine-grained granular to very fine-grained near mineralized fractures at 40-70° which are present @ (380.5-381.0) and (384.0-384.3); mineralization consists of very fine-grained pyrite, pyrrhotite, galena and sphalerite with quartz veins; gold core - 95% recovery.	2831	380.5	384.3	3.8	0.01	3.30	1.12	1.50		
384.3	391.3		<u>DIORITE</u> medium gray-green, f.g. granular, anhedral aggregate of feldspar and matrix (mainly biotite); cut by occasional quartz-calcite-pyrrhotite veinlet (less than 1/2" thick with up to 1/2" of accompanying alteration which renders adjacent core very fine-grained); gold core 95% recovery.										
391.3	392.8		<u>MINERALIZED DIORITE</u> AS 380.5-384.5; 95% recovery; very weak mineralization; virtually all pyrite & pyrrhotite.	2832	391.3	392.8	1.5	0.002	0.18	0.06	0.06		
392.8	393.3		<u>VEIN</u> quartz-pyrrhotite, = pyrite-galena @ 85°; broken ground core 60% recovery.	2833	392.8	393.3	0.5	0.102	4.89	3.55	11.00		
393.3	395.3		<u>MINERALIZED DIORITE</u> medium gray-green, fine-grained, contains many fine veinlets and disseminations of pyrrhotite and pyrite with traces of galena and sphalerite; 60% core recovery.	2834	393.3	395.3	2.0	0.002	0.10	0.03	0.01		

