- Phase One -

GEOLOG I CAL

and

DR I LL ING REPORT

ON THE MIDNIGHT and IXL CLAIM GROUP

LAT.4906.0 N LONG. 11748.0 W

Rossland, B.C. Trail Creek Mining Division

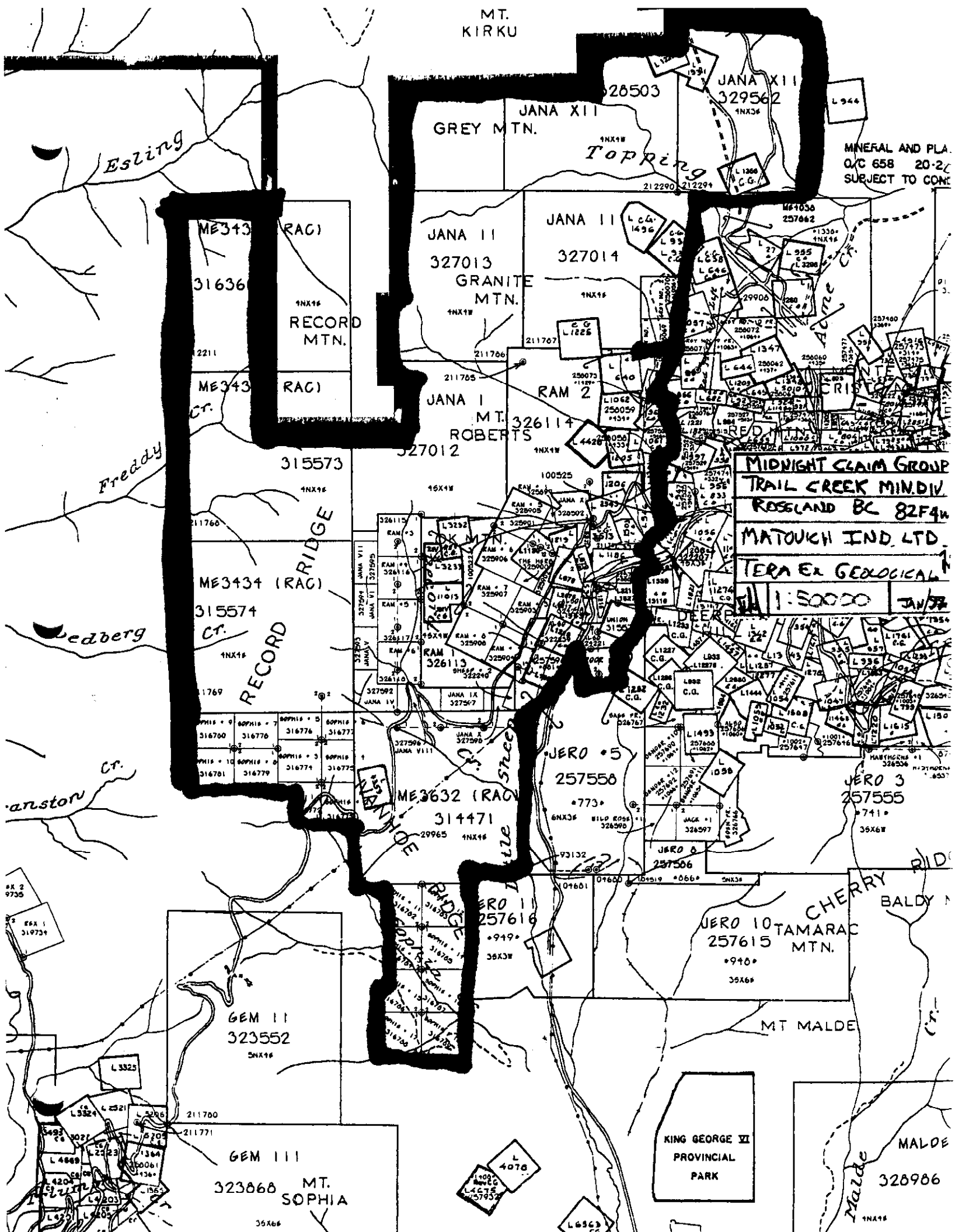
FOR

MINEFINDERS CORPORATION LTD.

VANCOUVER, B.C.

JANUARY, 1996

BY: TERRENCE SMITHSON BSc.
Nelson, B.C.


MT. KIRKU
JANA XII
329562
JANA XII
GREY MTN.
Topping
MINERAL AND PLA
O/C 658 20-2(
SUBJECT TO CON
Esling
JANA II
327013
GRANITE MTN.
JANA II
327014
ME343 (RAC)
31636
RECORD MTN.
ME343 (RAC)
Cr.
JANA I
M.T. 326114
ROBERTS
327012
RAM 2
Freddy
315573
RIDGE
RAM 1
326113
ME3434 (RAC)
315574
Cr.
RECORD
MIDNIGHT CLAIM GROUP
TRAIL CREEK MIN.DIV.
ROSSLAND BC 82F4W
MATOUCH IND. LTD.
TERRA GEOLOGICAL
1:50000
JAN/77
JERO 5
257558
JERO 3
257555
ME3632 (RAC)
314471
JERO 11
257616
JERO 10
257615
TAMARAC MTN.
CHERRY
BALDY
GEM II
323552
MT MALDE
GEM III
323868
MT. SOPHIA
KING GEORGE VI PROVINCIAL PARK
MALDE
328986

1.0 Introduction

The Midnight Claim Group is located approximately 2 km, via paved and gravel roads, south of the town of Rossland, British Columbia in the Trail Creek Mining Division. The main access to the Midnight and IXL property is along the Little Sheep Creek Road turning 1.5 km off the Cascade Highway. Existing roads and underground workings have been rehabilitated as per Mines Act specifications under permit.The property is also flanked on both sides of the valley by the Cascade Highway and Patterson Highway (Dewdny Trail Road). Excellent road access is maintained year round by B.C. Department of Highways.

Geographically, the Midnight Claim Group it is located on the south slope of OK Mountain in Little Sheep Creek Valley between 850 m and 1,500 m in elevation. The property is mostly second growth hemlock, larch and fir. Much of the property has been previously logged and skid road access to all parts of the property is good with minimal undergrowth. Climate and precipitation is typical of interior sub-boreal forest.

Electricity is supplied to the mine by lines from West Kootenay Power. Two phase and three phase electricity is supplied to the mine dry and underground workings. Water supply is year round and completely accessible from Little Sheep Creek which flows in the valley through the middle of the claim group.

3.0 History and Previous Work

The Rossland Mining Camp was the second largest gold camp in British Columbia in terms of recorded production. The majority of the recorded production was from four deposits: the LeRoi; the Centre Star; the War Eagle; and the Josie.

By 1941, Rossland mines had produced 5,640,000 tonnes (6,200,000 tons) with an average grade of 13 grams gold per tonne (0.47 oz. gold per ton). Total recorded gold production was 73.32 million grams (2.9 million ounces) (Fyles, 1984).

Included in this production is a limited tonnage from three contiguous claims on the southwest edge of the Rossland camp: Midnight; IXL; and OK. Gold production levels are outlined in the following table.

RECORDED PRODUCTION TO 1941

Claim	Tonnes	Grams Au	Grams Au/Tonne	IXL
5,248	809,766	154		
Midnight	4,760	218,346	46	
O.K.	293	17,916	61	

From the time of staking, circa 1895. these claims were worked by individuals "gophering" irregular quartz veins with different attitudes, variable thicknesses and disrupted continuity. In a few places, widths were greater than two meters. The production figures in the above table most likely represent a significant component of hand sorting, since reported vein widths ranged from centimetres to a meter. Quartz veins were encountered and followed in search of lenses and pockets of spectacular grade.

This southbelt of the Rossland camp never received systematic exploration. This was largely due to multiple ownership of the three key claims and intermittent mining by some of

2.0 Access and Physiography

Minefinders Corporation Ltd. holds option on the Midnight Mine Claim Group containing 82 claim units including Crown grants and staked claims. These are located 2 km south of Rossland, B.C. Rossland has proved to be the second largest gold camp in B.C.. and the claim group is situated along the Le Roi trend. Geologically, the claim group is underlain by Rossland volcanic meta-sedimentary rocks, the intrusive Trail batholith and theUltramafic basement complex along the structural Rossland break and LeRoi trend. This report covers an ongoing geological and exploration drilling program between October and December 23, 1996.The author also managaged the 93-95 program by Ramrod USA.which produced an extensive data base within the Midnight claim group.

Following property examination, C.M. Lalonde, P. Geo., recommended a 1996 exploration and development program on the Midnight property. The 1996 exploration program consisted of: engineering survey control; a preliminary geochemical survey program, underground geological mapping and sampling and an ongoing diamond drill program into the Spring of 1997. Drill results to date have been encouraging with a broad zone of interest in the Rossland volcanics and ultramafic rock units contact zone and associated vein systems. The exploration program continues through 1997.

Midnight Claim Group
Trail Creek Mining Division - Kootenay District
All claims listed are optioned from Allen P. Matovich and/or Matovich Mining Ind.

Crown Grants	Lot #
Midnight	1186
Little Dallas	1215
June	1216
Golden Butterfly	1217
Golden Butterfly Fr.	1943
O.K. Fr.	2675
O.K.	678

Located Mineral	Claim Tenure #
Ram 1	326113
Union Jack Fr.	315576
Poor Fr.	315577
ME 3632	314471
Sheep 3	324220
Sheep 4	324221
AM VI	345643
AM I	345644
AM II	345645
AM III	345646
AM IV	345647
AM V	345648

Crown Grant	Lot #	
IXL	679	OK Mining Ltd.

The Midnight Claim Group is located approximately 2 km, via paved and gravel roads, south of the town of Rossland, British Columbia in the Trail Creek Mining Division. The main access to the Midnight and IXL property is along the Little Sheep Creek Road turning 1.5 km off the Cascade Highway. Existing roads and underground workings have been rehabilitated as per Mines Act specifications under permit.The property is also flanked on both sides of the valley by the Cascade Highway and Patterson Highway (Dewdny Trail Road). Excellent road access is maintained year round by B.C. Department of Highways.

Geographically, the Midnight Claim Group it is located on the south slope of OK Mountain in Little Sheep Creek Valley between 850 m and 1,500 m in elevation. The property is mostly second growth hemlock, larch and fir. Much of the property has been previously logged and skid road access to all parts of the property is good with minimal undergrowth. Climate and precipitation is typical of interior sub-boreal forest.

Electricity is supplied to the mine by lines from West Kootenay Power. Two phase and three phase electricity is supplied to the mine dry and underground workings. Water supply is year round and completely accessible from Little Sheep Creek which flows in the valley through the middle of the claim group.

3.0 History and Previous Work

The Rossland Mining Camp was the second largest gold camp in British Columbia in terms of recorded production. The majority of the recorded production was from four deposits: the LeRoi; the Centre Star; the War Eagle; and the Josie.

By 1941, Rossland mines had produced 5,640,000 tonnes (6,200,000 tons) with an average grade of 13 grams gold per tonne (0.47 oz. gold per ton). Total recorded gold production was 73.32 million grams (2.9 million ounces) (Fyles, 1984).

Included in this production is a limited tonnage from three contiguous claims on the southwest edge of the Rossland camp: Midnight; IXL; and OK. Gold production levels are outlined in the following table.

RECORDED PRODUCTION TO 1941

Claim	Tonnes	Grams Au	Grams Au/Tonne
5,248	809,766	154	IXL
Midnight	4,760	218,346	46
O.K.	293	17,916	61

From the time of staking, circa 1895. these claims were worked by individuals "gophering" irregular quartz veins with different attitudes, variable thicknesses and disrupted continuity. In a few places, widths were greater than two meters. The production figures in the above table most likely represent a significant component of hand sorting, since reported vein widths ranged from centimetres to a meter. Quartz veins were encountered and followed in search of lenses and pockets of spectacular grade.

This southbelt of the Rossland camp never received systematic exploration. This was largely due to multiple ownership of the three key claims and intermittent mining by some of

the owners into the 1980's. In addition, different ownership also applied to some of the surrounding claims which affected access and room to work.

Major work was completed in 1969 by A.C.A. Howe International and Tull Mines which consisted of 5,653 feet (1,766 m) of surface and underground diamond drilling. Driving of 750 feet (235 m) of development drifting plus bulk sampling. A significant shipment from the Serpentine Zone of 61 tons of ore at 0.31 ton per gold. This zone has a known strike length of 1,600 feet.

4.0 Geology Of The Midnight Mine Area

Regional and local geology has been described and interpreted by many investigations, but many details are not yet fully understood and are therefore subject to re-interpretation. The tectonic setting has most recently been interpreted as an exotic terrain of Jurassic and pre-Jurassic rocks that has been accreted to the North American continent. Ultramafic intrusive bodies have been interpreted to be fault-bounded ophiolites that represent segments of subducted oceanic crust that have been thrust into their present position. The ophiolite interpretation is in question, as bounding faults are not well constrained and some features suggest intrusive emplacement.

Mineralization of the Rossland camp has been attributed to hydrothermal activity associated with intrusion of the Rossland Monzonite (Fyles, 1984) and its accompanying dikes, many of which are pre-mineral lamprophyres. Postmineral lamprophyres are thus attributed to either later resurgent igneous activity or to the much later Coryell Syenite. This scenario is also subject to re-interpretation, as some investigations have attributed mineralization to the satellitic bodies of the Trail Pluton, which in the Red Mountain area also has associated molybdenite-tungsten skarn/porphyry deposits, and also to the Coryell Syenite, which is associated with mineralization at the Jumbo and Giant mines.

Mineralization at the Midnight Mine occurs as dissemination in broad zones of carbonate-altered ultramafics that are intruded by a north-trending lamprophyre-diorite dike swarm with pre and post-mineral dikes. High grade gold zones and gold-bearing quartz veins occur adjacent to some of the pre-mineral dikes within both ultramafic and adjacent volcanic rocks. High grade gold-quartz veins also occur in low angle fractures in volcanic and in shears in serpentive where no dikes are present.

An intrusive quartz-feldspar encountered north of the Midnight Mine has variable garnet-epidote skarn with some tungsten as well as extensive intervals of disseminated pyrrhotite with variable but minor chalcopyrite, pyrite and arsenopyrite. Adjacent altered volcanics have similar mineralized zones as well as magnetite and pyrotite magnetite with replacement veins. It remains to be seen whether this mineralization represents indications of a separate gold zone.

5.0 Objectives of the 1996-97 Field Program

1. Establish extensive engineering survey control on previously unsurveyed IXL underground workings

2. Compile all previous geological and engineering data of both the Midnight and IXL claims.

3. Preliminary geochemical survey sampling and survey to expand data base.

4. Sample the Midnight 3100 level and IXL 350 level vein systems on 2 m spacings.

5 With new survey control and commence an extensive drill program to test geological structures of inte

6.0 Engineering Survey Control Compilation

Property boundaries were determined on the main crown grants of the group. The Midnight, IXL and OK boundaries were tied in and pins established by BCLS legal survey. All property boundaries, surface features and underground workings were surveyed by high accuracy Total Station equipment. for UTM Grid layout. The geophysical grid was surveyed and new lines were established. (see enclosed map).

7.0 Data Compilation

Autocad engineering software was used to create 3-Dimensional control; surface and underground models and cross-sections were created compiling all old and new data to date. Old data was verified where possible. (See enclosed map).

8.0 Preliminary Geochemical Program

The 1994 geophysical grid and control was used to do a preliminary geochemical soil survey as well as map critical contacts between rock units of interest. Approximately 15 km of geophysical grid was established in 1993-94 on the surface with 10 km cut lines. These were expanded with some intermediate lines. Samplespacing on existing lines was at 200 ft spacing and at 12.5 m spacing on the line. Fill lines were added at 100 ft spacing to expand preliminary anomalies. This assisted in the preliminary mapping of rock unit contacts and determining the nature of geochemical anomalies. Surface sample locations and drill sites were tied in by legal survey.

Geochemical results were very encouraging. Disturbed areas near workings and mine dumps were not sampled and most anomalies were defined in areas of known mineralization. Trends followed known structures except for two specific anomalies that were newly defined. Follow up intermediate 100 ft lines were added and detail sampling further enhanced one of these targets. Bismuth and copper correlated with gold in this anomaly as possible pathfinders. The distinct north-south Midnight structure -contrasts-with the east-west structures of the IXL.geochemically and this assisted interpretation.

The anomaly on line 10+00 and 12+00 was detailed with infill lines 11+00 and 13+00. These elevated ICP values did not prove to be continuous in the follow up.

However the large anomaly on 24+00 and 26+00 was enhanced by the addition of line 25+00. Strong Au values from stations 1+00 to 1+75 could not be followed up due to heavy

snow cover. This anomaly is in an area of no previous workings or trenches. Known mineralization is not indicated in outcrop but it lies over the OK fault system which has been an exploration target on the adjacent claim. This is a strong target with geochemical values of up to 8020 ppb. Recommended is further enhancement of this anomaly by trenching and/or drilling to accurately define the Au occurrence

Anomalous values are plotted on the enclosed map. The associated mineralization in outcrop proved to be a good target delineation and rock group contacts could easily be interpreted in areas of overburden and heavy ground cover..

9.0 Underground and Surface Sampling Program

The underground workings were rehabilitated and accessed with air and water line. Compressor powered air-line and water pumps were used for preliminary sample surface cleaning and preparation. This was followed by a program of channel sampling with chipping hammers. The channel samples were taken on two meter intervals of vein exposure, with hanging wall and footwall samples on or near true widths as possible. Two kilogram samples were collected on clean tarps and the entire sample was shipped for assay. Samples were assayed for gold, silver and copper.

The EW Baker cross cut was mapped and sampled in 2 m spacing where possible; samples in the drift and raises with specific true width samples of the Baker vein and shear zone structures at various intervals in exposure (see the Baker 3100 underground map for details). Surface samples are indicated with intervals on Map Figure I.

9.1 3100 Baker Zone

In the3100 leval Baker crosscut a 15 m section on strike with vein exposures in the raise and back to 1.4 m, assayed up to 6.3 oz/ton were encountered and checked by resamples. In some instances the hanging wall and footwall samples also assayed very well. The zone is the vein contact between the Rossland volcanics (andesite) and the Ultramafic serpentine unit. In the west end of the drift the vein structure was truncated by a post fault Lamprophyre dyke. An underground drill hole program was discussed to determine the contiuation of this strong system of the expoure in the drift intersections. This high is the highest potential for increasing minable tonnage. Thirty-two samples were taken from this zone. Free gold is present in this system.

9.2 3100 No. 1 3Z1-3Z2 System

This system trending north-south at the northern extent or the Midnight wokings is hosted with Rossland volcanics (andesites). The vein pinches and swells and splits for a 30 m strike length. Development in the working raises above the 3100 level samples asayed high in the past and new samples were taken from the vein in the back, sill and floor of this system. every 2 m and where possible hanging wall and footwall samples were taken on true widths. Results on this system were not very encouraging on the 3100 level and the 96 drill program would confirm values to depth below the 3100 level.

9.3 3100 1995 Raise developed byLRX Mines

A sample program to determine exposed vein sample grades as the target of LRX Mines in 1995 proved inconclusive as all samples of true vein widths returned low values and did not correlate with the 1995 underground drilling program.

9.4 IXL 350 Level

This was the first time the IXL workings had been accessed in at least 25 years. The portal was opened, scaled and rehabilitated. Temporary water and air lines were installed and mobile compressor was used for washing the walls. Geologic mapping preceeded the sampling program. Until this program was began little was known about the vein structures of the 350 level. The main vein system was the focus within the andesites. Other shear structures were sampled including the volcanic ultramafic contact. The new zone of interest was a cross cut west of the raises on the main IXL structure. Values were spotty on the main wider structure. The crosscut seems to have been driven most recently by leasors. The vein is narrow but values and check samples on 2 m intervals confirm a continuous and probably parrallel system to the main east west zone. Results are encouraging and the drill program proves continuity and grade in these structures to the west.

10.0 1996 Drill Program and Results

The 1996 diamond drill program consisted of seven drill holes totalling 2825 ft (877.8 m) on six drill sites. All diamond drill holes were surveyed in section and at specific spacing. Some modification of sites was required to place sites on existing roads and portal cuts as per mines act requirements.

All diamond drill holes were collared in Rossland Volcanics (andesite) and one one hole, DDH 96-7, ended in Ultramafic rock units. Drill targets proposed to test extensions of known structures within the andesites. Vein intersections were tested from the Midnight claim crossing the boundary into the previously undrilled IXL claim.

All core was drilled NQ-2 size. Intervals were split sawed and assayed for Au, Ag, and Cu. Drill hole data is summarized below and a brief description of the results obtianed in the holes. Drill logs and drill section maps are enclosed.

DDH-#	Bearing/angle	Depth (m)
96-1	Vertical	48.7
96-2	Vertical	55.3
96-3	346.32/-45°	152.4
96-4	346.32/-45°	153.6
96-5	346.32/-45°	153.6
96-7	21.32/-45°	161.3
96-7	346.32/-70°	123.6

CONCLUSIONS and RECOMMENDATIONS

Overall the 1996 drill program focused in the Rossland Volcanics and proved the quartz vein structures to be narrow and of poor continuity both on strike and to depth.Geological structures favorable to gold mineralization exist at the contacts with the Ultramafic contact.

The Baker system demonstrates a potential for enough ore grade material to be minable if the structure were to be drilled for extension on strike east and west and to depth from the proven exposure underground to increase minable tonnages to be economic.

It is therefor recommended that all past and present geological and engineering data be compiled and modeled. From this a 12 to 15 hole underground drill program from The 3100 level be used to add to the Baker system tonnage indicated in the 1996 program.IF continuity of the Baker structure can be established on strike and to depth a mine development plan may be considered at that time.

Submitted by

TERRENCE SMITHSON BsC. for MINEFINDERS CORP

January 1997

References

Bruce, E.L. (1917) Geology and ore deposits of Rossland, Minister Of Mines, B.C. Annual Report (pp 214 - 244).

Drysdale, C.W. (1915) Geology and ore deposits of Rossland, B.C. GSC Memoir 77.

Little, H.W. (1960) Nelson Map Area, west half, B.C. (82 F W]/2), GSC Memoir 308.

Rice, H.M.A. (1941) Nelson Map Area, east half, B.C. (82 F Wl/2), GSC Memoir 228.

Fyles, James, T. (1984) Geological setting of the Rossland Mining Camp Bulletin No. 74, MEMPR 1984.

A. C.A. Howe Report on Midnight Mine Property. Cinola Mines Report #90-A 1967 and #212 1969.

CERTIFICATE OF QUALIFICATIONS

I Terrence Smithson of Bellingham Washington:

- I attended Halieybury School Of Mines in Ontario and studied Mining Engineering until 1979.
- I graduated from Carleton University in Ottawa, Ontario in Geological Sciences and Engineerig in 1985 and have worked in Engineering & Exploration in the mining industry worldwide with special emphasis on ore deposits in the Nelson and Rossland Districts.
- I have been employed by major and junior mining companies for over ten years.
- I am a member of AIME and SME.
- I retain no direct or indirect intrest on the Midnight property.

Dated: Jan 20 1997
Rossland, B.C.

MIDNIGHT IXL DDH 1996 NAD83 COORDINATES					
NORTHING	EASTING	ELEV	NORTHING	EASTING	ELEV
DDH1 TOP			DDH1 BOTTOM		
5435865.354	438460.58	965.67	5435865.354	438460.58	916.97
DDH2 TOP			DDH2 BOTTOM		
5435850.354	438456.894	967.89	5435850.354	438456.894	912.59
DDH3 TOP			DDH3 BOTTOM		
5435823.154	438437.836	974.2	5435927.955	438412.7442	866.4369
DDH4 TOP			DDH4 BOTTOM		
5435806.372	438381.792	991.148	5435911.998	438356.5027	882.5364
DDH5 TOP			DDH5 BOTTOM		
5435798.449	438347.778	1005.192	5435904.075	438322.4887	896.5804
DDH6 TOP			DDH6 BOTTOM		
5435801.158	438349.542	1005.323	5435898.37	438409.1966	891.2667
DDH7 TOP			DDH7 BOTTOM		
5435808.761	438411.749	980.343	5435849.873	438401.9059	864.197
MIDNIGHT IXL DDH 1996 NAD83 COORDINATES					

MIDNIGHT PROJECT - 1996

Professional/technical fees	$	50,653.75
Geochem/Assaying		5,064.26
Drilling		60,473.61
Drilling - Assays		2,057.65
Environmental		580.00
Travel/accommodation		12,341.15
Comm./Delivery/Freight		2,184.84
Maps/reproduction/printing		813.90
Field supplies		5,962.68
		140,131.84

General Ledger Listing as of DECEMBER 31, 1996

G/L listing for account [5000] to [6000],
for [illegible]partment [707] to [707],
fo[illegible]cal period [1] to [12],
sorted by (Account).
(Exclude) accounts with no activity.
Printed in (Standard) format.

Last posting sequence number: 11

Acct.	Dept.	Pd	Srce	Date	Description	Reference	Debits	Credits	Net Change	Balance	
					Professional fees/Technical fees						
5010	707				MIDNIGHT MINE - ROSSLAND, BC					0.00	
		5	GL- 1	May 06 96	Lalonde Geological Consul-96-3	296	1,800.00		1,800.00	1,800.00	
		8	GL- 1	Aug 12 96	LALONDE GEOLOGICAL CONSLT-96-7	409	600.00				
		8	GL- 1	Aug 15 96	KES RENTALS&CONTRACTING-371	420	321.00				
		8	GL- 1	Aug 15 96	MARK BAILEY-FEES AUG1-15 $525	217	721.77				
		8	GL- 1	Aug 23 96	M.BAILEY8/16-31FEE$75@1.3706	222	102.79		1,745.56	3,545.56	
		9	GL- 1	Sep 09 96	D.ROBERTSON-AUG22 $50.0@1.3703	226	68.52				
		9	GL- 1	Sep 16 96	LALONDE GEOLOGICAL CONSLT-96-8	448	3,000.00				
		9	GL- 4	Sep 30 96	TERA-EX ENGINEERING 91596 $525	241	715.00				
		9	GL- 4	Sep 30 96	LALONDE GEOLOGICAL CONSL-96-10	478	1,250.00		5,033.52	8,579.08	
		10	GL- 1	Oct 15 96	LALONDE GEOLOGICAL CONSL-96-10	478	1,250.00				
		10	GL- 4	Oct 01 96	LALONDE GEOLOGICAL CONSL-96-10	478		1,250.00	0.00	8,579.08	
		11	GL- 1	Nov 07 96	R.LEIGHTON - OCT30-31 SERVICES	511	240.00				
		11	GL- 1	Nov 07 96	TERA-EX GEOLOGICAL - 110196	512	6,800.00				
		11	GL- 1	Nov 12 96	LALONDE GEOLOGICAL CONSL-96-12	523	2,350.00				
		[illegible]1	GL- 1	Nov 13 96	M.BAILEY NOV.1-15 $400@1.3337	266	533.48				
		11	GL- 1	Nov 25 96	SPROULER'S ENTERPRISES-1147	533	3,000.00		12,923.48	21,502.56	
		12	GL- 1	Dec 03 96	TERA-EX GEOLOGICAL - 111596	557	7,255.25				
		12	GL- 1	Dec 16 96	LALONDE GEOLOGICAL CONSL-96-13	573	1,850.00				
		12	GL- 1	Dec 16 96	TERA-EX GEOLOGIC-1120196	287	5,400.00				
		12	GL- 1	Dec 16 96	MARK BAILEY DEC1-15 FEE $800	289	1,093.44				
		12	GL- 4	Dec 31 96	LALONDE GEOL.CONSULT-96-14 DEC	ACCRUAL	2,950.00				
		12	GL- 4	Dec 31 96	SPROULERS ENTERPRISES LTD-1171	618	812.50				
		12	GL- 4	Dec 31 96	TERA-EX GEOLOGICAL-1122496	303	9,790.00		29,151.19	50,653.75	*
					Geochem. Analysis/Assay						
5120	707				MIDNIGHT MINE - ROSSLAND, BC					0.00	
		9	GL- 4	Sep 30 96	ACME ANALYTICAL LAB.-96-3027	475	34.90		34.90	34.90	
		10	GL- 1	Oct 03 96	ACME ANALYTICAL LABS-96-3027	475	34.90				
		10	GL- 4	Oct 01 96	ACME ANALYTICAL LAB.-96-3027	475		34.90	0.00	34.90	
		12	GL- 1	Dec 02 96	ACME ANALYTICAL LABS-965592	546	871.20				
		12	GL- 1	Dec 02 96	ACME ANALYTICAL LABS-965517	546	2,123.55				
		12	GL- 1	Dec 16 96	ACME ANALYTICAL LABS-966009	568	1,317.00				
		12	GL- 1	Dec 16 96	ACME ANALYTICAL LABS-966248	568	485.85				
		12	GL- 4	Dec 31 96	CHEMEX LABS-I9642037	627	231.76		5,029.36	5,064.26	*
					Drilling						
5200	707				MIDNIGHT MINE - ROSSLAND, BC					0.00	
		12	GL- 1	Dec 31 96	KOOTENAY EXPLOR.DRILL-DEC16/96	600	37,593.00				
		12	GL- 4	Dec 31 96	T.SMITHSON EXP. OCT.22-DEC.24	ACCRUAL	550.61				
		12	GL- 4	Dec 31 96	KOOTENAY EXPL. DRILLING-DEC21	611	22,330.00		60,473.61	60,473.61	*
					Drilling-assays						
5[illegible]	707				MIDNIGHT MINE - ROSSLAND, BC					0.00	
		[illegible]2	GL- 1	Dec 02 96	ACME ANALYTICAL LABS-965920	546	737.20				

General Ledger Listing as of DECEMBER 31, 1996

Acct.	Dept.	Pd	Srce	Date	Description	Reference	Debits	Credits	Net Change	Balance	
5210	707				MIDNIGHT MINE - ROSSLAND, BC	(continued)					
		12	GL- 1	Dec 31 96	ACME ANALYTICAL LABS-966597	593	194.80				
		12	GL- 1	Dec 31 96	ACME ANALYTICAL LABS-966557	593	1,125.65		2,057.65	2,057.65	*
5350	707				MIDNIGHT MINE - ROSSLAND, BC	Environmental				0.00	
		9	GL- 4	Sep 30 96	JILL MOORE - 030996	482	555.00		555.00	555.00	
		10	GL- 1	Oct 15 96	JILL MOORE - 030996	482	580.00				
		10	GL- 4	Oct 01 96	JILL MOORE - 030996	482		555.00	25.00	580.00	*
5440	707				MIDNIGHT MINE - ROSSLAND, BC	Travel/Accommodation				0.00	
		5	GL- 1	May 06 96	C.M.Lalonde reimb exp 4/12-29	297	244.98		244.98	244.98	
		8	GL- 1	Aug 02 96	UNIGLOBE T.31423BAILEY/LALONDE	400	958.66				
		8	GL- 1	Aug 12 96	C.M.LALONDE EXPENSES JULY24-25	410	257.57				
		8	GL- 1	Aug 12 96	UNIGLOBE TRAVEL-31539 LALONDE	417	479.33		1,695.56	1,940.54	
		9	GL- 1	Sep 16 96	C.M.LALONDE AUG7-SEP1 EXPENSES	449	645.12				
		9	GL- 4	Sep 30 96	C.M.LALONDE REIM EXP SEP3-26	479	243.98		889.10	2,829.64	
		10	GL- 1	Oct 15 96	C.M.LALONDE REIM SEPT3-26 EXP	479	243.98				
		10	GL- 4	Oct 01 96	C.M.LALONDE REIM EXP SEP3-26	479		243.98	0.00	2,829.64	
		11	GL- 1	Nov 07 96	TERA-EX GEOLOGICAL - 110196	512	655.00				
		11	GL- 1	Nov 12 96	CARL LALONDE REIM OCT4-29 EXP	524	1,861.87		2,516.87	5,346.51	
		12	GL- 1	Dec 03 96	TERA-EX GEOLOGICAL - 111596	557	450.00				
		12	GL- 1	Dec 03 96	T.SMITHSON-OCT14-NOV15 EXP	558	893.30				
		12	GL- 1	Dec 16 96	CARL M.LALONDE-REIM NOV1-26EXP	574	1,110.96				
		12	GL- 1	Dec 16 96	TERA-EX GEOLOGIC-1120196	287	450.00				
		12	GL- 4	Dec 31 96	T.SMITHSON EXP. OCT.22-DEC.24	ACCRUAL	2,479.35				
		12	GL- 4	Dec 31 96	C.M. LALONDE EXP. DEC. 1-12/96	ACCRUAL	779.77				
		12	GL- 4	Dec 31 96	T.SMITHSON 12/21-24/96 EXP.	ACCR.	111.26				
		12	GL- 4	Dec 31 96	TERA-EX GEOLOGICAL-1122496	303	720.00		6,994.64	12,341.15	*
5460	707				MIDNIGHT MINE - ROSSLAND, BC	Comm. + Delivery				0.00	
		5	GL- 1	May 06 96	C.M.Lalonde reimb exp 4/12-29	297	22.00		22.00	22.00	
		8	GL- 1	Aug 12 96	LOOMIS COURIER SER-GV1306321	416	11.15		11.15	33.15	
		9	GL- 1	Sep 09 96	DHL INTERNATION.-YVR985379part	438	22.00				
		9	GL- 1	Sep 16 96	C.M.LALONDE AUG7-SEP1 EXPENSES	449	20.88				
		9	GL- 1	Sep 16 96	LOOMIS COURIER - GV1306322	453	44.57				
		9	GL- 1	Sep 20 96	SPRINT CANADA - AUG31/96 PART	465	13.28				
		9	GL- 4	Sep 30 96	C.M.LALONDE REIM EXP SEP3-26	479	109.40		210.13	243.28	
		10	GL- 1	Oct 15 96	C.M.LALONDE REIM SEPT3-26 EXP	479	109.40				
		10	GL- 1	Oct 15 96	SPRINT CANADA - SEPT30/96	488	6.24				
		10	GL- 4	Oct 01 96	C.M.LALONDE REIM EXP SEP3-26	479		109.40	6.24	249.52	
		11	GL- 1	Nov 07 96	BC TEL 362-5214 OCT25/96	513	49.27				
		11	GL- 1	Nov 12 96	CARL LALONDE REIM OCT4-29 EXP	524	249.60				
		11	GL- 1	Nov 13 96	SPRINT CANADA - OCT31/96	529	9.62		308.49	558.01	
		12	GL- 1	Dec 02 96	LOOMIS COURIER - HK6945 301	549	11.15				
		12	GL- 1	Dec 03 96	T.SMITHSON-OCT14-NOV15 EXP	558	478.32				
		12	GL- 1	Dec 16 96	BC TEL 362-5214 NOV25/96	577	113.31				
		12	GL- 1	Dec 16 96	SPRINT CANADA - NOV30/96	562	6.11				
		12	GL- 1	Dec 16 96	CARL M.LALONDE-REIM NOV1-26EXP	574	136.36				
		12	GL- 4	Dec 31 96	T.SMITHSON EXP. OCT.22-DEC.24	ACCRUAL	612.92				
		12	GL- 4	Dec 31 96	BC TEL DEC 25/96 362-5214	607	151.38				
		12	GL- 4	Dec 31 96	SPRINT CANADA - DEC 31/96	622	4.04				

General Ledger Listing as of DECEMBER 31, 1996

Acct.	Dept.	Srce	Date	Description	Reference	Debits	Credits	Net Change	Balance	
5460	707			MIDNIGHT MINE - ROSSLAND, BC	(continued)					
	12	GL- 4	Dec 31 96	C.M. LALONDE EXP. DEC. 1-12/96	ACCRUAL	113.24		1,626.83	2,184.84	*
5500	707			MIDNIGHT MINE - ROSSLAND, BC	Maps/Reproductions				0.00	
	5	GL- 1	May 06 96	C.M.Lalonde reimb exp 4/12-29	297	52.50		52.50	52.50	
	8	GL- 1	Aug 02 96	WESTERN REPRODUCERS-29067	401	80.04				
	8	GL- 1	Aug 12 96	C.M.LALONDE EXPENSES JULY24-25	410	2.00				
	8	GL- 1	Aug 12 96	T.R.TRADES REPRODUCTION-200442	414	97.39				
	8	GL- 1	Aug 23 96	BUDGET PRINTING - 44832	428	18.83		198.26	250.76	
	9	GL- 1	Sep 16 96	C.M.LALONDE AUG7-SEP1 EXPENSES	449	31.67				
	9	GL- 1	Sep 16 96	WESTERN REPRODUCERS-29112	459	99.51				
	9	GL- 1	Sep 16 96	WESTERN REPRODUCERS-29151	459	351.71				
	9	GL- 1	Sep 16 96	WESTERN REPRODUCERS-29153	459	80.25		563.14	813.90	*
5560	707			MIDNIGHT MINE - ROSSLAND, BC	Prop. Payments				0.00	
	7	GL- 1	Jul 31 96	ALLEN MATOVICH-OPTION MIDNIGHT	390	20,000.00		20,000.00	20,000.00	
	8	GL- 1	Aug 06 96	DAVID LEAKE-MIDNIGHT OptionPay	405	6,000.00				
	8	GL- 1	Aug 20 96	MATOVICH MINING-MidnightOptPay	422	1,000.00		7,000.00	27,000.00	
	10	GL- 1	Oct 21 96	FRANK HOLTAN-OPTION PAYMENT	491	10,000.00				
	10	GL- 1	Oct 21 96	CIBC-IXL NORWAY OCT/NOV	492	1,000.00				
	10	GL- 3	Oct 08 96	A.MATOVICH-MIDNIGHT Opt15000SH	J10-05	30,000.00		41,000.00	68,000.00	
	12	GL- 1	Dec 01 96	CIBC-IXL NORWAY B.LEIGHTON DEC	542	500.00		500.00	68,500.00	*
5[illegible]	707			MIDNIGHT, BC	Depreciation				0.00	
	9	GL- 4	Sep 30 96	DEPREICIATION EXP. 1/1-9/30	J09-28	674.10		674.10	674.10	
	10	GL- 4	Oct 01 96	DEPREICIATION EXP. 1/1-9/30	J09-28		674.10	(674.10)	0.00	
	12	GL- 3	Dec 31 96	DEPREC. EXP. 1/1-12/31/96	J12-36	898.80		898.80	898.80	*
5760	707			MIDNIGHT, BC	Field supplies				0.00	
	7	GL- 1	Jul 24 96	DEACON EQUIPMENT-43033	385	354.92		354.92	354.92	
	10	GL- 1	Oct 29 96	DEAKIN EQUIPMENT LTD - 45478	501	397.14		397.14	752.06	
	11	GL- 1	Nov 07 96	TERA-EX GEOLOGICAL - 110196	512	100.00				
	11	GL- 1	Nov 08 96	POTHIER ENTERPRISES-14466	518	598.13				
	11	GL- 1	Nov 12 96	CARL LALONDE REIM OCT4-29 EXP	524	1,313.97				
	11	GL- 1	Nov 25 96	DEAKIN EQUIPMENT - 45920	532	396.48				
	11	GL- 1	Nov 25 96	DEAKIN EQUIPMENT - 45993	532	48.15				
	11	GL- 1	Nov 25 96	WEST KOOTENAY POWER - NOV12	538	27.00		2,483.73	3,235.79	
	12	GL- 1	Dec 02 96	ACME ANALYTICAL LABS-96S1112	546	189.93				
	12	GL- 1	Dec 02 96	ROBERTSON MFG LTD.-10097	553	1,059.30				
	12	GL- 1	Dec 03 96	TERA-EX GEOLOGICAL - 111596	557	100.00				
	12	GL- 1	Dec 03 96	T.SMITHSON-OCT14-NOV15 EXP	558	93.38				
	12	GL- 1	Dec 16 96	ACME ANALYTICAL LABS-96S1210	568	6.69				
	12	GL- 1	Dec 16 96	TERA-EX GEOLOGIC-1120196	287	100.00				
	12	GL- 1	Dec 31 96	POTHIER ENTERPRISES LTD.-14659	596	256.80				
	12	GL- 4	Dec 31 96	T.SMITHSON EXP. OCT.22-DEC.24	ACCRUAL	524.52				
	12	GL- 4	Dec 31 96	WEST KOOTENAY POWER JAN 3/97	609	296.27				
	12	GL- 4	Dec 31 96	TERA-EX GEOLOGICAL-1122496	303	100.00		2,726.89	5,962.68	*
						212,398.02	2,867.38			

209,530.64
Less opt pmt (68,500.00)
141,030.64
Depreciation (898.80)
140,131.84

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Minefinders Corporation Ltd. PROJECT MIDNIGHT IXL File # 97-0014

904 - 675 W. Hastings St., Vancouver BC V6B 1N2 Submitted by: T SMITHSON

SAMPLE#	CU %	Ag** oz/t	Au** oz/t
B 193201	.017	.02	.085
RE B 193201	.017	.01	.085
B 193202	.071	.06	.013
B 193203	.008	<.01	.003
B 193204	.051	.06	.012
B 193205	.003	<.01	.001
B 193206	.019	.02	.005
B 193207	.011	<.01	.003
B 193208	.006	<.01	.001
B 193209	.013	.02	.002
B 193210	.009	<.01	.001
B 193211	.011	<.01	.001
B 193212	.011	<.01	.012
B 193213	.056	.07	.070
B 193214	.018	.02	.011
B 193215	.009	<.01	<.001
B 193216	.011	<.01	.002
B 193217	.024	.04	.012
STANDARD R-1/AU-1	.835	2.92	.100

1.000 GM SAMPLE LEACHED IN 30 ML AQUA - REGIA, DILUTE TO 100 ML, ANALYSIS BY ICP.
- SAMPLE TYPE: CORE AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 27 1996 DATE REPORT MAILED: Jan 7/97 SIGNED BY .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

D: FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Minefinders Corporation Ltd. PROJECT MIDNIGHT IXL File # 97-0015

904 - 675 W. Hastings St., Vancouver BC V6B 1N2 Submitted by: T SMITHSON

SAMPLE#	CU %	Ag** oz/t	Au** oz/t
B 193219	.016	.02	.059
B 193220	.015	.02	.018
B 193221	.005	.01	.004
B 193222	.005	.01	.007
B 193223	.007	.03	.002
B 193224	.006	<.01	.004
B 193225	.006	<.01	.002
B 193226	.008	<.01	.002
B 193227	.049	.13	.014
B 193228	.004	.01	.004
B 193229	.008	<.01	.003
B 193230	.007	.01	.005
B 193231	.004	<.01	.003
B 193232	.003	<.01	.001
B 193233	.004	<.01	<.001
RE B 193233	.004	.01	.001
RRE B 193233	.004	.01	<.001
B 193234	.005	<.01	.001
B 193235	.015	<.01	.004
B 193236	.007	<.01	.002
B 193237	.007	<.01	.003
B 193238	.006	.01	.002
B 193239	.005	<.01	.003
B 193240	.007	.01	.005
B 193241	.006	<.01	.002
B 193242	.005	.01	<.001
B 193243	.015	.03	.001
STANDARD R-1/AU-1	.835	2.93	.100

1.000 GM SAMPLE LEACHED IN 30 ML AQUA - REGIA, DILUTE TO 100 ML, ANALYSIS BY ICP.
- SAMPLE TYPE: CORE AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 27 1996 DATE REPORT MAILED: Jan 7/97 SIGNED BY..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Dat... FA

DIAMOND DRILL HOLE LOG

Company: MINE FINDERS CORP LTD

Property: MIDNIGHT 1XL	Hole No.: DDH 96 1
Location: ROSSLAND BC	Bearing at Collar: VERT
	Inclination at Collar: VERT
Coord. - Collar N: 5435865	
E: 43846.0	Length: 48.7m
Elev. - Collar: 965.89	Core Size: NQ 2
Date started: NOV 15/96	
Completed: NOV 27/96	Logged by: TS

LEGEND

SURVEY

Footage	Bearing	Inclination

LITHOLOGY, ALTERATION, MISC.	FT. / M	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	Au	Ag	Cu			BOX
QUEALBOLDEN ROSSLAND VOLCANICS ANDESITE	0	OB													
DARK GREEN GREY FINE GRAINED MASSIVE MIO & FRAC WITH SOME ALTERATION PATCHES CARBONATE + SILICA	10.25	AN	MINOR MAG	10.25											
LAMP DYKE 12.5 – 19.2 SUB BASALT AMYGDALOYDAL TEXTURE DARK GREY F/G MIO TO 1% FRAC MINOR EPIDOTE / CALCITE ON FRAC	11.8 12.5	LD	SEAP ALT ON FRAC ABD MAG	11.8 14.9	101 281										
BRECCIA SILICA FLOODED ANDESITE 19.2 – 22.64 HIGH HARDNESS	18.0 19.2	AB	TRACE PY ON MARGINS OF FRAC	18.0 21.3	287 322			19351 19.2 20.2	1m	.008					
	22.64							19352 21.64 22.64	1m	.020					
BASALT BASALT SILICA FLOODED MIO ANGLE 23.6 – 31.6 STRINGER TO SUB BRECCIA	23.6	B: .020		24.7	292										
ALT ZONE BRECCIA SILICA FLOOD HIGHLY FRAC MIO TO LOW % CAL STRINGERS VUGS + FRAC CHLOR - SERICITE ALTERATION	24 27.03	BR	TRACE PY	27.03	284			19353 26.6 30.14		.014					
HIGHLY FRAC SECTION	30.14 31.64			30.14 32.62	252 347			31.64 19354		.013					
ANDESITE LOW % FRAC	37.01	AN		36.01 37.91	204										

DIAMOND DRILL HOLE LOG

Company: MINEFINDERS

LEGEND

SURVEY

Footage	Bearing	Inclination

Property: MIDNIGHT JV — Hole No.: DDH 96-1
Location: ROSSLAND — Bearing at Collar:
Inclination at Collar:
Coord. - Collar N: — E:
Elev. - Collar: 987.42 — Length:
Core Size: NQ2
Date started:
Completed: — Logged by: TS

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	BOX
ROSSLAND VOLCANICS ANDESITE TO BASALT DARK GRY TO BLK PHASE POS PILLOW MARGINS LOW ANGLE FRAC		AN	ABUN MAGNITE	37.91	3.29					
				41.33	2.42					
				43.5	2.42					
BRECCIA ZONE SILICA FLOODED MINOR QTZ STRINGERS		ANBR		46	2.36			193155 47.5 48.4	.061	
				48.7	3.15					

DIAMOND DRILL HOLE LOG

Company MINCFINDERS CORP LTD

Property MIDNIGHT I XL	Hole No. DDH 96-2
Location ROSSMAND	Bearing at Collar VERT
	Inclination at Collar VERT
Coord. - Collar N 5435850	
E 459466.7	Length 46.3m
Elev. - Collar 967.89	Core Size NQ2
Date started NOV 27/96	
Completed DEC 1/96	Logged by TS

LEGEND

SURVEY

Footage	Bearing	Inclination

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	N	BOX
OVERBURDEN CASED 0 - 11.49		OB		11.49							
ROSSMAND VOLCANICS - ANDESITE LIGHT GREY TO GREEN FINE GRAINED											
BRECCIA 14.4 - 18 QUARTZ (SILICA) FLOODED	14.4	AN		14.9	344			14.0-15.0	193156	002	
								15-16.3	193157	002	
LAMP DYKE 18 - 21.3 BLACK COURSE GRAINED BIOTITE RICH MASSIVE	18.00	LD		18.0	315			16.3-17.8	193158	001	
	19.5							18.3-20.3	193159	007	
ANDESITE BRECCIA 21.13 - 24.39 SILICA FLOODED	21.13	AB	1-3% PY DISEM. BLEBS & SEAMS	21.13	330			23.82-24.3	193160	081	
	24.39			23.46	210						
ANDESITE 24.39 - 27.6 DARK GREY-BLACK FINE GRAINED		AN									
SOME CARBONATE ALTERATION PATCHES & SILICA STRINGERS 1-2cm BANDS				24.86	175						
				27.34	235						
BASALT SKARN ZONE	27.6		PYRO MASSIVE					27.6-28.9	193161	015	
BASALT MASSIVE BLACK FINE GRAINED	28.9	AB		29.21	225			28.9-30.76	193162	060	
BRECCIA SILICA FLOODED	30.76	BR									
				32.46	280						
AMIGDALOIDAL BASALT	32.76			35.11	327						
				38.22	310			38.5-39.8	193163	004	
								42.8	193164	007	
				39.77	147						

DIAMOND DRILL HOLE LOG

Company _____

LEGEND

SURVEY

Footage	Bearing	Inclination

Property _____ Hole No. DDH-96-2

Location _____ Bearing at Collar _____

_____ Inclination at Collar _____

Coord. - Collar N _____

E _____ Length _____

Elev. - Collar _____ Core Size _____

Date started _____

Completed _____ Logged by _____

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	RECOVERY Run length	RECOVERY Core	RECOVERY %	ANALYTICAL Sample	ANALYTICAL Interval	ANALYTICAL	ANALYTICAL Au	BOX
CUREAL SYNITE 46.3 OR DYKE MASSIVE GREY GLEEN COURSE GRAINED TEXTURE	46.30	CS		42.8	290			47.17	193 WS		001	
				45.19	240			48.17				
				49.49	300							
				52.2	310							
				55.31	315							

DIAMOND DRILL HOLE LOG

Company Minefinders Corp. Ltd.

LEGEND

SURVEY Acid Tests

Footage	Bearing	Inclination
76.2 m	—	
152.4 m	—	

Property Midnight - IXL | Hole No. 96-3
Location On the boundary of Midnight - IXL, parallel to it | Bearing at Collar 346.32 | Inclination at Collar -45
Coord. - Collar N 5435823.154
E 439457.536 | Length 152.4 m (500 feet)
Elev. - Collar 974.2 | Core Size NQ-2
Date started Dec 2/96
Completed Dec 6/96 | Logged by T.S & C.L.

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	Au	Ag	Cu	BOX
0 - 5.5 m : Overburden		OB											
5.5 - 34.5 Andesite: light green to greenish grey colour, generally medium grained, some coarse grained areas & some fine grained bands, low to moderate angle of foliation eg: @ 14.9 m - 38°; 45° @ 7.5 m, 42° @ 13.7, narrow calcite veinlets, coarser grained sections have a mottled texture 16.7 m - foliation @ 42° 16.2 m - foliation @ 32° 20.2 m - finer grain size			Generally 3% pyrite & minor pyrr. in disseminations & seams along fractures, occasional coarse blob	5.5 7.45 10.56 13.60	1.95	0.B. 3.06 3.10							
			21.68 - 27.5 short sections 10% pyrite										
34.5 - 34.9 Silicified Zone: light grey, fine grained, chlorite seems along numerous fractures			5-10% dissem pyrite mostly in chlorite seems along fractures						34.5-34.9				
34.9 - 37.9 Andesite: grey to green-grey colour, finer grained than previous, minor narrow calcite seams			sections (to 0.5 m) contain 5-10% pyrite some coarse blebs pyrite						193192				

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL						BOX
				Run	Run length	Core	%	Sample	Interval	Au	Ag	Cu		
-less foliation than previous 35.2-35.6 silicified zone of grey quartz vein, some epidote along sharp contacts			5% dissem pyrite + pyrite seams											
38.9 - 40.6 Lamprophyre Dyke dark grey colour, medium grain size, massive 40.4 - 40.6 m andesite with blebs of pyrite + epidote + quartz at 40.6 contact - contacts @ 47° at 40.6' and 62° at 41.4 m														
40.6 - 43.4 Andesite light green colour, fine grained, 42.7 - couple of cm.-wide quartz stringers			dissem. pyrite less than 1%											
43.4 - 44.0 Quartz Vein + silicified zone - light grey, chlorite on fractures with dissem pyrite			5% dissem. pyrite overall - mostly associated with chlorite						43.4-44.0 193191					
44.0 - 58.5 Andesite - darker grey to black than previous Andesite, increase in pyrite content to 3% 45.5 - 46.0 dissem. epidote alteration sections contain green-grey chlo. (?) breccia alteration			dissem pyrite content to 3%											

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	Au	Ag	Cu	BOX
50.3-50.5 narrow lamprophyre dyke - sharp contacts													
58.5-59.5 Lamprophyre Dyke medium grained, grey to dark grey colour, massive 59.5m - contact @ 40°													
59.5-61.0 Andesite greenish-grey, fine grained			1% pyrite in seams & disseminations										
61.0-62.7 Quartz Vein + silicified zone, green chlorite seams along fractures			3-5% dissem pyrite						61.0-62.7 193170	014			
62.7-63.7 Andesite Breccia light green and dark grey angular fragments, quartz matrix between fragments, narrow calcite veinlets, minor epidote, blebs of pyrite, autobrecciation of volcanic flow 63.7-63.9 Lamprophyre Dyke			1-3% dissem & blebs of pyrite										
63.7-65.2 Andesite - light greenish-grey, fine grained, massive 65.9-66.3 grey, carbonate alteration, minor chlorite seams													
65.2-66.5 Quartz Vein Breccia - andesite fragments with a quartz matrix			5% dissem pyrite on seams and breccia frag. margins, blebs						65.2-66.5 193187	041			

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval						BOX
67.8 – 75.5 Andesite Breccia light greenish-grey matrix with dark grey angular to sub-angular fragments containing 5% dissem. + blobs of pyrite, a few quartz stringers 71.3 – possible flow contact @ 28° 73.0 – 73.5 medium grained massive – possible lamp. dyke. 72.5 – 75.5 10-15 narrow (50 mm) quartz stringers			5% disseminations + blobs of pyrite												
75.5 – 76.9 Quartz Vein + Quartz Breccia – light grey quartz with chlorite seams			5% dissem. pyrite, sections 10% pyrite						75.5-76.9 193188						018
76.9 – 78.2 Andesite Breccia light green with brown-grey breccia fragments (probably biotite content), 1 cm wide quartz stringers at low angle to core axis carry blebs and fine dissem. pyrite															
78.2 – 79.5 Quartz Vein – light grey with chlorite seams & veinlets on fracture planes			3% dissem. pyrite (possibly some pyrr.), some blobs						78.2-79.5 193187						039
79.5 – 82.4 Andesite Breccia light grey and greyish brown fragments, a few [illegible] fragments, a few			5% disse[illegible] pyrite generally, some fragments have up to 20% pyrite						79.5-82.4 193186						051

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval		Au				BOX
82.4 - 83.9 Andesite Breccia + Quartz Breccia			3-5% dissem pyrite + pyrite						82.4 - 83.9 193185		007				
82.4 - 83.0 50% andesite + 50% quartz breccia; quartz breccia has angular greenish-grey andesite fragments															
83.0 - 83.9 quartz breccia + quartz vein with green chlorite veinlets			1-3% dissem pyrite												
83.9 - 85.6 Andesite Breccia + Quartz-Breccia greenish-grey + brownish-grey andesite fragments			1-3% dissem pyrite						83.9-85.6 193184		045				
20 - 30% quartz breccia short intervals			1-3% dissem pyrite												
85.6 - 87.4 Andesite Breccia generally fine grained greenish grey andesite with brown (biotite) - grey angular fragments - some fragments have pyrite edges									85.6-87.4 193183		008				
87.4 - 92.6 Andesite Breccia fine grained greenish-grey andesite with brownish-grey and a few quartz-breccia angular fragments			1-5% dissem & veinlets of pyrite						87.4-89.4 193182		002				
88.4 - 89.1 medium grained lamprophyre dyke with white carbonate (dolomite) grains + 20 - 30 cm. quartz-breccia at each contact									89.4-90.6 193181		007				

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval					BOX
90.2 - 15 cm quartz-breccia 90.6 - 92.6 30% quartz breccia 91.6 - 92.0 grey quartz with chlorite & pyrite on seams of fractures			3-5% coarse dissem pyrite						90.6-92.6 193186					008
92.6 - 94.0 Quartz Vein light grey quartz with chlorite dissemination & veinlets 93.4 - 94.0 quartz-andesite breccia - some coarse dissem pyrite			3-5% dissem. pyrite						92.6-94.0 193179					006
94.0 - 94.5 Andesite Breccia 10% quartz breccia sections									94.0-94.5 193178					021
94.5 - 95.8 Andesite Breccia predominantly brownish-grey with light green andesite fragments									94.5-95.8 193177					006
94.5 - 94.8 Quartz Vein with chlorite fragments & disseminations			1-3% dissem. pyrrhotite + pyrite											
95.5 - 95.8 Quartz Vein with chlorite stringer at 20° to core axis			1-3% dissem. pyrrhotite + pyrite											
95.8 - 97.8 Andesite Breccia 50% light green & 50% brown-grey fragments, sparse quartz veinlets			1% dissem. pyrite with narrow zones containing 5% pyrite						95.8-97.8 193176					016

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval		Au			BOX
97.8-98.3 Quartz Breccia 75% light grey quartz with 25% green-grey andesite angular fragments			3% dissem pyrrhotite + pyrite						97.8-98.3 193175		007			
98.3-99.6 Andesite Breccia; angular light green-grey and brownish-grey fragments			1-5% disseminations, blebs and wispy veinlets of pyrrhotite and pyrite						98.3-99.6 193174		015			
99.6-100.7 Quartz Vein light grey quartz with 5-10% chlorite veinlets & dissem. 100.7 - sharp contact at 45° to core axis			1-3% dissem pyrrhotite + pyrite						99.6-100.7 193173		010			
100.7-101.4 Andesite Breccia light green-grey and brown breccia fragments			1% spotty dissem pyrite + pyrrhotite						100.7-101.4 193172		009			
101.4-102.1 Andesite-Quartz Breccia - predominantly andesite with 10% quartz breccia			1-3% dissem pyrite + pyrrhotite						101.4-102.1 193171		005			
102.1 - 107.6 Andesite Breccia 50% light green-grey & brown-grey fragments, sparse narrow quartz stringers 102.9-103.2 Quartz-Andesite Breccia			5-10% disseminations & blebs of pyrrhotite, minor pyrite						102.9-103.2 193170		012			
107.6-108.9 Quartz Vein light grey, some angular andesite fragments, second-stage									107.6-108.9 193169		006			

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	RECOVERY Run length	RECOVERY Core	RECOVERY %	ANALYTICAL Sample	ANALYTICAL Interval	ANALYTICAL	ANALYTICAL	ANALYTICAL	ANALYTICAL	BOX
quartz veining cuts original vein zone, green-grey chlorite veinlets			1-3% dissem. pyrr. & pyrite, some coarse blebs											
108 - Intersection @ 24° to core axis														
108.9 - 111.1 Andesite: more massive than previous			1% dissem. pyrrhotite & pyrite											
111.1 - 111.8 Quartz-Andesite Breccia			3-5% pyrrhotite blebs & disseminations, minor pyrite						111.1-111.8 193168		039			
111.1 - 111.5 70% quartz with fine grained greenish-grey andesite fragments (angular)														
111.5 - 111.8 80-90% andesite with quartz fragments														
111.8 - 112.3 Andesite - generally massive, minor brecciation			1% dissem. pyrrhotite & pyrite, some blebs						111.8-112.3 193167		008			
112.3 - 113.1 Andesite - Quartz Breccia - 80%-90% andesite breccia with 10-20% quartz breccia zones (some at low angle to core axis)			1-3% dissem. pyrite and pyrrhotite						112.3-113.1 193166		011			

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	RECOVERY Run length	RECOVERY Core	RECOVERY %	ANALYTICAL Sample	ANALYTICAL Interval	BOX
113.1 – 117.3 ANDESITE GENERALLY MASSIVE MINOR BRECCIATION @ 117 ALTERATION ZONE CARBONATE CHLORITE AT CONTACT		AN	> 5% PY IN SEAMS & BLEBS							
117.3 – 118.00 LAMP DYKE BLACK MASSIVE MEDIUM-COARSE GRAINED BIOTITE CONTACT 60°		LD								
118.0 – 152.4 ANDESITE LIGHT GREEN-GREY FINE GRAINED MASSIVE SILICA BANDS LESS 10 cm @ 119.7 CARBONATE ALTERATION SEAMS 121.0 " " " 129.7 130.2 " " " 135.1 STRINGERS CARBONATE < 5cm GRADING THROUGH AMYGDALOIDAL TEXTURE 141.2 – 145.2 BACK TO MASSIVE FINE GRAINED ANDESITE 152.4 END		AN	< 1% DISS PY OVERALL SILICA BANDS + NARROW ALTERED ZONES < 1% BLEBS PY 3%							

MINE GRID COORDS

MIDNIGHT IXL PROJECT

5435806.372
4383881.972
791.148m

START DEC 7/96
END DEC 11/96

DIRECTION 180
INCLINATION -45
CORE SIZE NQ2

DDH 96-4

LOGGED BY TS/JM

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	Au	Ag	Cu	BOX
OVERBURDEN 0 - 9.14		OB											
ROSSCAND VOLCANICS													
9.14 - 19.35 ANDESITE		AN											
DARK GREY TO BLACK													
GENERALLY FINE GRAINED													
LOW ANGLE FOLIATION													
11.4 - 11.5 BRECCIA BAND LIGHT GREY FINE GRAINED SILICA FLOODED		BR	1% DIS PY										
11.6 - 13.1 BRECCIA ZONE ANGULAR FRAGMENTS			> 3% DIS PY + SEAMS						11.6-13.1 193193	008			
13.6 - 16.6 SUB BRECCIA ZONE SILICA FLOODED SUB ANGULAR FRAG CHLORITE SEAMS ON FRACTURES			1% PY DISCM										
19.35 - 19.75 QUARTZ VEIN													
DISTINCT HIGH ANGLE CONTACT MASSIVE CHLORITE ON FRAC WHITE QUARTZ W BANDS OF ANDESITE		QV	> 5% PY > 10% CHLCD						19.35 - 19.75 193194	1.857			
19.75 - 80.1 ANDESITE													
LIGHT GREY TO BLACK		AN	< 1% DIS PY										
GENERALLY FINE GRAINED MASSIVE			MINOR BLEBS PY ON FRACTURES + SILICA BANDS										
LOW ANGLE FOLIATION + FRACTURES													
- 22.6 - FRACTURED ZONES			ALL LESS THAN										
- 25.1 - QUARTZ BANDS AND													
- 26.1 - SEAM LESS			1% PY DIS										
- 27.0 - THAN 5CM			+ ALONG FRAC										
- 29.2 - IN BI													
- 29.35 -													
- 45.2 - QTZ SEAM LESS THAN 5CM													
- 52.0 - 53.0 CARBONATE ALTERED ZONE VERY FRACTURED													
- 66.2 CARBONATE ALTERED ZONE FOLIATION 60°			3% PY OVERALL DISCM + SEAMS/BLEBS										
- 77.3 QTZ BAND 5CM													
- 79.6 - 80.1 SILICA ZONE + QTZ BANDS		Q .2%	3-5% PY DISCM + SEAMS						79.6 - 80.1				

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval		Au	Ag	Cu		BOX
80.1 - 108.4 ANDESITE DARK GREY TO BLACK LIGHT GREY BANDS FINE GRAINED MASSIVE WITH QTZ-CARB STRINGERS LOW ANGLE FRACTURES SOME ALTERATION PATCHES GENERALLY CARBONATE SEAMS			BR LESS THAN 1% PYRITE MINOR DISSEMINATIONS SEAMS + BLEBS					193195	79.0 80.0		.298				
108.4 - 109.2 QUARTZ VEIN + SILICA FLOODED ZONE CONTACT 60°			QV 3% PY DISEM + BLEBS					193196	108.4 - 109.2	003					
115.8 - 116.7 AMIGNALOIDAL BASALT GRADING TO CARBONATIZED BLACK MASSIVE ALTERED SILICA FLOODED ZONE CONTACT @ 50° REMNANT ANDESITE MATRIX GREY FINE GRAINED			B 5% PYRITE TRACE CHALCOPYRITE DISSEMINATED + BLEBS					193197	115.8 - 116.8	005					
116.7 147.25 ANDESITE LIGHT GREY TO DARK GREY FINE GRAINED MOTTLED ALTERATION PATCHES SOME CARBONATE + SILICA SEAMS AT VARIOUS ORIENTATIONS HIGH ANGLE FRACTURES			AN												
122.25 125.5 CARBONATE + SILICA ALTERATION ZONE SOFT + FRACTURED CONTACT 40-70° @ 125.6 @ 130.9 @ 133.0 @ 134.1 @ 136.2 @ 138.7 @ 142.9 @ 146.6 — 147.2 QUARTZ STRINGERS + LESS THAN 5CM SILICA SEAMS MINOR CARBONATE ON FRACTURES			3% PYRITE OVERALL MINOR CHALCOPYRITE IN SEAMS DISEMS + BLEBS					193198	121.0 122.0		.002				
								193199	133.8 134.4		.001				
								193200	146.8 147.3		.004				
147.2 - 153.6 ANDESITE AS ABOVE MASSIVE DARK GREY TO FINE GRAINED BLACK LOW ANGLE FRACTURES	END		AN												

1536

Inverters Corp. Ltd.
Midnight-IXL Project

N 5435304.6932
E 438381.5089

Started Dec 12/96
Completed Dec 19, 96

Inclination -45°
Core Size NQ2

VM 96-5

Logged by T.S./J.F.

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	Au	BOX
0-.5m Overburden		OB	5% disseminated pyrite					193201	.5-1m	.085	
Hoystead Volcanics		QV	1-3% massive calcopyrite blebs								
Quartz vein in andesite											
.9-5.5 Andesite		AN									
Light greenish grey in colour											
Generally medium to fine grained											
Mottled and banded.			3.8 Massive pyrite blebs and hematite.								
3.8 Quartz stringer											
5.2 Quartz stringer <5cm in width											
5.2-5.6 Banded texture											
5.5-5.6 Quartz vein			5.65 1% disseminated pyrite					193202	15.5-16.7	.013	
10 cm in width. Silica flooded		QV	pyrite on seams								
5.6-18.5 Andesite			hematite staining								
Dark greenish grey. Generally fine		AN	5.6-18.5 2% disseminated								
grained. Massive. Some altered			pyrite								
banded texture. Silica seems at high											
angle to core axis.											
15.5-16.7 Quartz vein											
Fine grained andesite matrix											
Gradational contact. Some silica flooded.			16.9 1% pyrite seams and blebs								
16.9. Andesite											
Mottled texture. Fine grained.											
Light grey. Minor silica seams at 60°.											
18.5-22.0 Lamprophyre Dyke		LD									
Black in colour. Massive. NO											
alteration. Abundant biotite.											
22.0-44.2 Andesite			22.0-44.2								
Greenish grey in colour.		AN	1% disseminated pyrite.					193203	23.9-25.1	.003	
Medium grained. Fractured to rubble.			1% pyrite bands and blebs.								
Mottled and banded texture.			25.0 1% pyrite blebs and								
23.9-25.9 Sub breccia. Carbonate altered.			stringers.								
26.0 <3cm silica flooded.			32.1 3% disseminated pyrite								
32.1 Silica [illegible]			34.1 3% disseminated pyrite								
34.1 Silica [illegible]											
44.2 Carbonate stringer. <3cm 45° to core axis											

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval		AU			BOX
44.5-45.5 silica flooding and carbonate alteration			44.2 5-10% pyrite seems, blebs and disseminated.					193204	44.5-45.5		012			
45.5-62.2 Andesite Dark grey to black. Massive. Fine grained. Minor quartz veins. 58.2 Quartz vein Contact 70° to core axis. Contact with fractures to silica flooded andesite.		AN	45.5-57.2 1-3% pyrite seems and blebs 52.2 10% disseminated pyrite and pyrite seems											
62.2-69.7 Altered zone silica flooded. Andesite matrix. 64.0 strongly carbonitized. Some silica flooding 65.2-68.4 Chlorite on seems. Talc in seems. Highly fractured, soft to rubbly. Carbonitized. silica stringers at 45° to core axis		AN/A	64.0 1% disseminated pyrite 65.2-68.4 1% pyrite seems and blebs 1% disseminated pyrite					193205 193206 193207	62.9 64.0-65.2 65.2-68.4		001 005 007			
69.7-86.5 Andesite Generally fine grained. Dark greenish grey. Massive Minor silica flooding. Minor carbonate seems and blebs. Quartz stringers at 45° and 70° to core axis			69.7-82.5 1% pyrite seems and blebs					193208	85.5-86.5		001			
86.5 Core lost +/- 2m 87.5-106.2 Andesite Dark grained grey. Generally fine grained. Massive. Some mottled texture 87.5-89.6 banded texture. 89.6-95.7 low angle fractures 95.7-98.5 Highly fractured. Soft to rubbly. Minor silica stringers. Carbonate stringers and blebs. Minor talc. 99.6-99.8 chlorite alteration zone 101 silica stringers at 25° to core axis 103-106 Highly fractured. Siliceous shows chlorite alteration								193209	96.3-97.7		002			

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL							BOX
				Run	Run length	Core	%	Sample	Interval		Au				
106.2-108.4 Lamprophyre Dyke Dark black. Massive. Coarse grained Some remnant andesite with carbonate stringers.		LD													
108.4 to 153.6 Andesite Dark green to grey. Massive. Fine grained. Some altered or banded texture. Minor carbonate and silica stringers. Moderate angles to core axis.		AN													
114.0 silica stringer. Chlorite and carbonate on fracture.			MM Massive pyrite 5%												
145.9 - 149.6 Altered zone Strong carbonate alteration. Minor chlorite. Silica stringers at 45° to core axis. Highly fractured. Soft to rubbly. Minor talc. Remnant andesite texture throughout.		ANA	145.9 to 147.7 10% pyrite seems and disseminated.					193210	145.9 to	147.7	001				
152.8 silica flooded intrusive. Silica band. 1.5cm in width. 30° to core axis.		~~ANA~~ END 153.6	3% pyrite blebs and seams					193211	147.7 to	149.6	002				
153.6 End															

Prime Minerals Corp Ltd.

Midnight - UC Project

Coord. Collar
N 5435812.0450
E 438411.2080

Started DEC 18/96
Completed DEC 22/96

Inclination -70

Core Size NQ2

DDH 96-7

pg 1 of 5

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL						BOX
				Run	Run length	Core	%	Sample	Interval					
0-6m overburden		OB												
6-8.2m Basalt Amygdaloidal texture. Medium to coarse grained. Black. Massive.														
8.2-62.7 Andesite light green to gray. Generally fine to medium grained. Some carbonate stringers and seams. Minor silica stringers at 45° to core 2x3. Minor fracturing to rubble throughout.		AN												
8.2-16.5 Patchy and banded zone Patches of silicified carbonate alteration Banded foliation - Various widths < 20 cm. Soft to rubbly.			14.3. Altered patch with 3% pyrite blebs.											
21.4-23.6 carbonatized, chlorite alteration.														
23.8 Quartz stringer < 5cm														
26.9 to 30.2 carbonatized and chlorite alteration.														
36.0 carbonatized and chlorite alteration some calcite indicate stringers		AN												
37.1 to 42.6 possible silicification Strongly carbonatized. Strong chlorite alteration. Minor talc. Highly fractured to rubble. Sub brecciated.		ANA	37.1 to 42.6 3% pyrite blebs and seams. Trace chalcopyrite					19321	37.1 to 39.1				.009	
								19322	40.6 to 42.6				.007	
39.1-40.6 Andesite. Silicified. Carbonate stringers. Generally fine grained Greenish gray to black.		AN												

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	Au	BOX
50.0 to 51.7 Possible serpentinization. Strong carbonitization throughout. Minor talc. Silicified throughout. Minor silica stringers at 30-45°. Not fractured or rubbly. Abundant carbonate and chlorite banding. High angle to core axis.											
51.7 to 53.2 to Minor alteration band Chlorite, carbonate											
56.7 to 59.4 Minor alteration band 60.5 Massive Andesite											
62.7-68.7 Alteration Zone. Possible ultramafic contact. Interbedded carbonate banded zones. Abundant chlorite on fractures 20-30°. Soft, rubbly. Sub-brecciated. Strong carbonitization. Minor talc. Some remnant andesite patches.		ANB						193223	60.7-64.7	002	
								193224	64.7-66.7	004	
								193225	66.7-68.7	002	
								193226	68.7-70.7	002	
								193227	70.7-72.7	010	
								193228	72.7-74.7	004	
— ULTRAMAFIC BASEMENT COMPLEX —								193229	74.7-76.7	003	
68.7 to 75.6 SERPENTINE Highly fractured to rubble. Soft. Carbonitized. Some olivine. Surrounding remnant andesite patches.		ST						193230	76.7-78.7	005	
								193231	78.7-80.7	003	
								193232	80.7-82.7	001	
								193233	82.7-84.7	001	
								193234	84.7-86.7	001	
								193235	86.7-88.7	004	
75.6 - 100.7 SERPENTINE Light green to brown & black more massive								193236	88.7-90.7	002	
Carbonate and chlorite seams and patches. Some olivine. Minor talc. Minor silica seems at 45°. Minor azurite and malachite staining.								193237	90.7-92.7	003	
								193238	92.7-94.7	002	
								193239	94.7-96.7	003	
								193240	96.7-98.7	005	
								193241	98.7-100.7	001	

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	Au	BOX
100.7-111.8 Serpentine grades to intrusive. Hornfelsed on contact, Monzonite to monzodiorite. Medium grained. Grayish black.			1% disseminated pyrite.					193242	100.7 102.7	001	
101.2 Pegmatite vein? Strong orthoclase. silicified. <2cm in width.		PEG	10% pyrite blebs								
101.4 Pegmatite vein? Intrusive in appearance Hornblend throughout. No orientation. Minor orthoclase <2cm in with											
111.3-112.2 Serpentinite Dark greenish grey to black Hornfelsed on contact 111.8 3cm quartz veins @ 112.2 Calcite blebs and stringers at margins. Malachite staining		SP	111.9-112.2 Pyrrhotite stems and blebs 1% pyrite blebs, Disseminated pyrrhotite throughout. Fine grained								
112.2-116 Andesite Dark greenish grey to black Silica mottles Calcite blebs Some banded texture. 113.5 Quartz calcite bleb. Strong malachite/azurite staining.		AN	112.2-116 3% pyrite associated with silicified calcite blebs 113.5 3% pyrrhotite associated with calcite blebs								
114.0-117.4 Altered zone Silicified and carbonatized Strong chlorite alteration Vuggy. Au associated? Dark greenish grey.			114-114.4 1% pyrite associated with quartz and carbonate.								

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval	BOX
116.9-116.8 Intrusive phase Monzonite Dark grey, medium grey Hornfelsed at margin. 116.1 to 116.6 Diorite phase 116.3 2 Quartz veins <1cm in width 45° to core axis		CS	116.3 pyrrotite blebs in quartz veins.					193343	116.2-117.35	
116.7-116.8 Quartz vein 10 cm in width 45° to core axis Minor carbonate chlorite alteration Minor azurite staining Mafic inclusions throughout.		QV	1% pyrite associated with quartz 1% disseminated pyrite 116.7-116.8 10% Pyrite 3mm cubes.							
116.8-117.2 Andesite Dark greenish grey Medium grained Hornfelsed at contact 116.9 Quartz vein? . Intrusive in appearance 2 cm in width		AN	Massive pyrite 3 mm cubes, 10% 1% pyrrotite blebs.							
117.2 Intrusive phase Monzonite. Medium grained		CS								
117.4-118.6 Andesite Dark grey to black Moderate carbonate and quartz blebs Mottled. Trace hematite		AN	1% pyrrotite and pyrite blebs associated with quartz [illegible] pyrite.							

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL							BOX
				Run	Run length	Core	%	Sample	Interval						
120.4 - 120.5 Brecciated zone Quartz stringers and blebs. Minor chlorite alteration Minor calcite stringers.			1% pyrite and pyrrhotite in quartz												
120.4 - 123.4 Silicified Minor carbonate alteration			1% pyrite blebs and stringers disseminated												
123.6 End of Hole.			3% pyrrotite blebs, seams and bands												

MINEFINDERS CORP LTD
MIDNIGHT IXL PROJECT

N
E

STARTED DEC 15/96 ELEVATION AZIMUTH -45 HOLE NUMBER DDH 96.6
COMPLETED DEC 17/96 CORE SIZE NQ2 LOGGED TS-JM

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL							BOX
				Run	Run length	Core	%	Sample	Interval		Au				
± 0-3m: Overburden		OB													
3-5.3 Rossland Volcanics Andesite Dark grey to black Surface weathering Medium to fine grained.		AN													
5.3-6.1 Quartz vein 90° contact Chlorite alteration on fractures Carbonate stringers Remnant andesite patches		QV	5% Chalcopyrite 10% pyrite					192212	5.8-6.1		012				
6.1-11.7 ANDESITE Dark grey black. Fine grained Carbonate stringers Carbonate bands at 60°		AN	3% Pyrite on seems												
11.7-12.8 Carbonate Altered Strongly fractured soft		AN	3-5% pyrite throughout												
12.8-16.6 Andesite Dark grey to black. Silicified light grey in patches/bands Carbonate stringers at 70°															
16.6- Missing core possible slope. 3.6 (+or-) 2m		MISS	no visible mineralization in hanging wall and footwall.												
20.2 to 23.8 Andesite Dark grey to black Massive. Fine grained		AN	Disseminated pyrite to 1%												
Carbonate alteration with minor 22.4 Highly fractured, soft with minor silica stringers. Almost clay alteration <5 inches 24.9 - [illegible] 1.5m core			3% pyrite on hematite stringers 3% pyrite [illegible] hematite stringers												

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	%	ANALYTICAL Sample	Interval		Au				BOX
28.8 to Breccia, silica flooded.		BR	Pyrite disseminated, blebs and matrix margins. 5-10%					193213	28.8	31.0	070				
31.0 Light grey. Andesite remnant			1% Chalcopyrite blebs												
31.0 to 37.5 Andesite		AN													
dark grey to black															
some altered patches and bands															
Carbonate stringers at 45° and 90°															
37.4 to 39.5 Alteration zone								193214	37.4	39.5	011				
Chlorite and carbonate alteration		ANA	Pyrite and chalcopyrite blebs to 5% associated with chlorite altered areas.												
Minor silica flooding															
Andesite matrix.															
39.5 to 55.9 ANDESITE.		AN													
Dark grey to black															
some altered patches and bands															
Generally fine grained															
At 47.5 Rhyolite dike. Coarse grained. at 30° for 30 cm. Occurs again at 49.0 for 10 cm. Andesite matrix between. Andesite till 55.9.															
55.9 - Lamprophyre Dyke.		LD													
Coarse grained biotite.															
moderate to high angle fracturing															
Carbonate on fracture.															
Dark, black.															
54.2 to 116.15. Andesite		AN													
Dark grey to black.			>1% pyrite on seams.												
Some mottled alteration and banding.															
60.2 Quartz vugg 3cm.			60.2 1% pyrite.												
Chlorite alteration															
Carbonate stringers at 60°.															

114 Silica flooded zone 5cm. Mottled patches, andesite.

DDH 96-6

m3865

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL							BOX
				Run	Run length	Core	%	Sample	Interval		AU				
116.0 Partial carbonate alteration (117.4) soft carbonate stringers 60-70° strongly fractured.															
77.4 Silica bleached bands.															
83.6 and 93.6 Silica bands, 5cm at 80°															
86.6 Carbonate bands at 40°															
92.3 Quartz vein, 8cm. Chlorite on fractures.		QV	3% pyrite + chalcopyrite.					193217	92.3-92.6		012				
100.9 to 101.2 Carbonate altered zone. soft. Stringers of pyrite			101.1 1% pyrite												
102.2 to 104.8 Basalt															
Dark black, Massive. Amigdaloidal Carbonate phenocrysts.		B													
104.8-119.3 Andesite															
Grey in colour. Generally fine grained Medium silica bleaching, stringers and banding. Some silica veins.			2% Pyrite associated.												
112-119.3 Lamprophyre Dike															
Irregular contact at 20°		LD													
Dark black. Coarse grained. Massive								193218	119.7-122.3		100				
119.3 to 121.4 Andesite															
121.4 dark grey to black.															
Medium to fine grained		AN													
Mottled and banded at 45° to axis															
Quartz mottles, Minor calcite stringers with strong chlorite alteration			1% pyrite - porphyroblasts, 1% pyrite in quartz mottles												
soft to rubbly from 122 to 122.3															
122.30 to 124.1 Lamprophyre Dike															
Dark black - Coarse grained Massive		LD													
Gradational contact at 124.1															

DDH 96-6

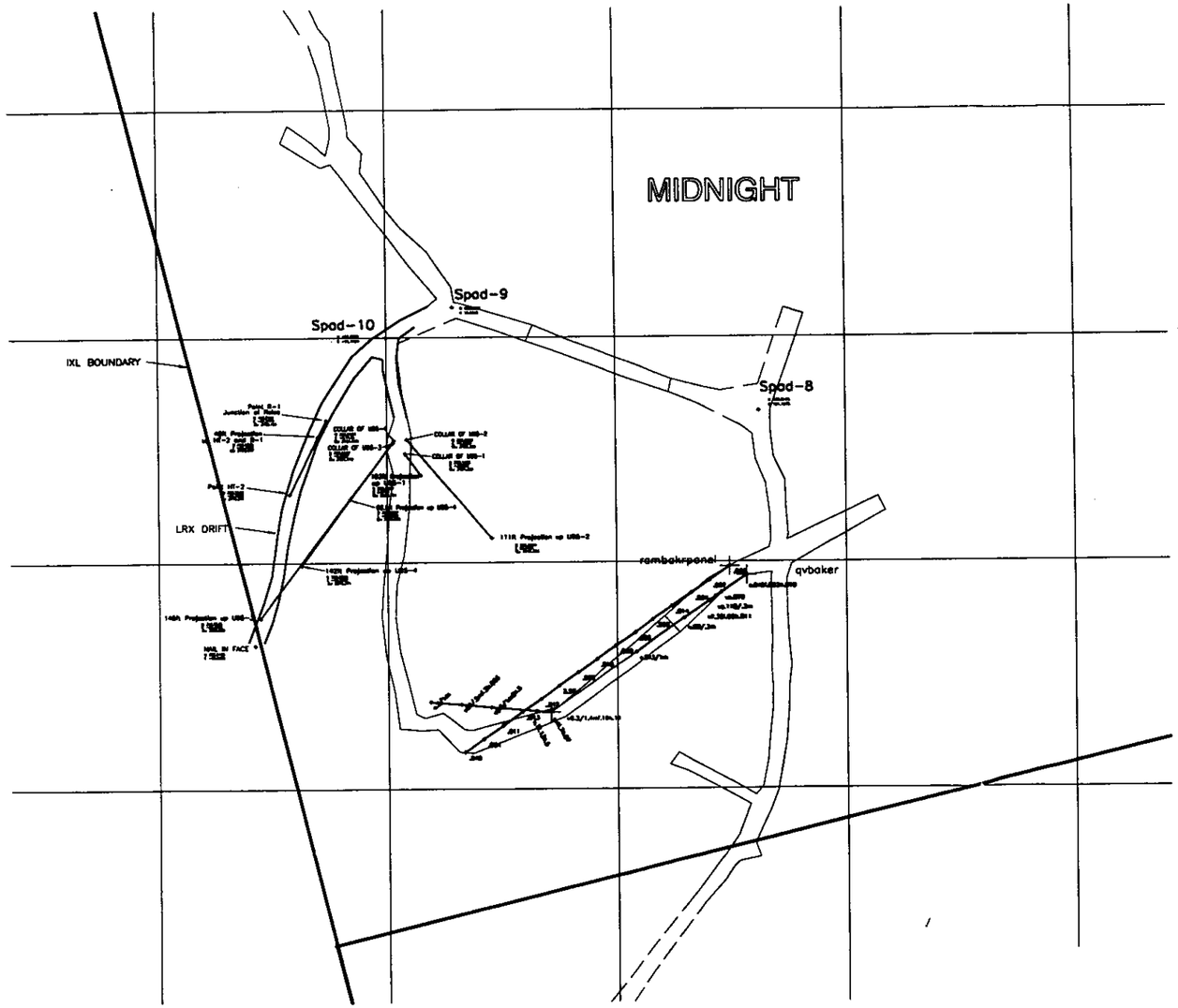
pg 4 of 5

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL							BOX
				Run	Run length	Core	%	Sample	Interval						
129.1 to 157.7 andesite		AN													
129.1 to 131.5 Amygnaloidal texture Coarse grained, feldspathic.															
130.6 Pegmatite band ... High orthoclase content 4 cm in width and 60° to core axis.		AN PEG	130.6 2% pyrite												
135.5 to 139.0 silica flooded zone Pegmatite bands ; stringers in andesite matrix. silica stringers 1% carbonate															
139.0 Pegmatite band strong orthoclase 20 cm in width.															
142.2 Pegmatite band															
142.7 Pegmatite band.															
143.2 Carbonate band 0.5 m in width															
145.2 Carbonate band 1.3 m in width															
150.0 to 150.4 Pegmatite band Carbonate alteration															
152.1 Carbonate stringers At 80° to core axis.															
155.6 Pegmatite band occurs at 150.0 to 152.1 <5cm															
157.4 Pegmatite band Carbonate alteration															

DDH 96-6

pp585

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL							BOX
				Run	Run length	Core	%	Sample	Interval						
157.7 to 158.7 Silica flooded andesite Quartz vein at 157.7 to 157.8 Carbonate. 20° to core axis Orthoclase in silica. Carbonate associated		AN	15% Pyrite blebs in quartz 2% Pyrite disseminated 2% Pyrite seems associated with silica					173215	157.7 to 158.7						
Quartz vein at 158.0 45° to core axis. Feldspathic with minor sc Carbonate in quartz, strong alteration.			15% Pyrite blebs in quartz 1% Pyrite disseminated 2% Pyrite seems associated with silica.					173216	158.7 to 162.7						
158.7 to 162.7 Silica flooded andesite.															
161.2 161.3 Quartz vein 60° to core axis 1 cm in width <.5 cm margins Strongly carbonated in quartz Soft to rubbly in fracture															
161.3 Andesite Dark grey to dark. Mostly generally fine grained. Silica stringers and flooded patches Carbonate stringers ± 30°.		AN	Pyrite blebs associated with silica flooding.												
		END													



I.X.L.

N

Minefinders Corporation Ltd.

SPROULERS' ENTERPRISES LIMITED
SURVEY AND DESIGN
TERA-EX ENGINEERING

I.X.L./MIDNIGHT PROPERTY ROSSLAND B.C.
SAMPLING PLAN VIEW
PROPOSED UNDERGROUND DRILL HOLES
FOR BAKER VEIN EXTENSION

DATE:	SCALE:	FIG. NO.:	CONTOUR
10/26/96	1 = 250		NA
PROJ. NO.: MID021E.DWG	DRWN. BY: WPS	APPROVED: T Smith	REV. DATE:

O.K.

LOT 678

Mt. Roberts Fm.

Rossland Volcanics

OK-UPPER

OK-MIDDLE

OK-LOWER

IXL-1A

IXL-1

IXL-2

IXL-3

IXL-350

3200 ADIT

BAKER STOPE

BAKER VN

DH-MS-11

DH-MS-12

DH-MU-2

DH-MU-1

DH-MS-5

DH-MS-10

DH-MS-9

DH-MU-4

MIDNIGHT 3100 ADIT

ITALIAN ADIT

DH-MS-6

DH-MS-7

To Rossland

ULTRAMAFIC

LITTLE SHEEP CREEK

MIDNIGHT

LOT 1186

JUMBO NO. 3

LOT 3218

GOLDEN DRIP

LOT 539

LOT 1201

COUNTESS

LITTLE DALLES

LOT 1215

BRYAN

LOT 1827

JUMBO FAULT

CORYELL SYENITE

Tcs

GOLDEN BUTTERFLY

JUNE BUG

LOT 1217

LOT 1943

JUNE VN fault

LITTLE SHEEP CREEK

UP

DOWN

Jvs

Pmr

Py-po

Mine finders Corporation Ltd.

Scale: 1:2400

EXPLANATION

- Midnight Mine
- Mine Workings : IXL, OK, etc.
- Fault / Thrust Fault
- Outcrop
- Vein
- Dike Projection
- Access Road
- DH-MS-5 Drill Hole, showing dike and gold zones
- Bedding
- Proposed Drill Hole

SNOWDROP

LOT 3513

SUNNYSIDE

LOT 1503

GOLD KING
LOT 1229

AETNA FR.
LOT 3752

BIG BEND

LOT 3502

O.K.
LOT 678

JUMBO NO. 3

2200SW–2250SE
LOT 3218

COUNTESS
LOT 1201

BRYAN

LOT 1827

GOLDEN BUTTERFLY

JUNE BUG

LOT 1217

LITTLE DALLES

2600SW–1500SE
LOT 1215

SL1186

IXL
SL670

GOLDEN
DRIP
SL539

SL82

BASE–0

1400SW–BASE

1600SW–BASE

1800SW–BASE

BASE3

2000SW–BASE

2200–BASE

2400–0150SE

BASE4

2500SW

2600SW–0200SE

2800SW–0350SE

3000SW–0400SE

REP–H–7C

CREEK

10 00SW–9+00SE

10 9 00SW–9+50SE

PORT–ITALIAN

12 1 00SW–9+50SE

GATE

GATE

1800–8+50

1800SW–8+50SE

3200 PORTAL

3200 PORTAL
3160 LEVEL

18+00SW

20+00SW–1050SE

HUB–5

2200SW–1500SE

2800SW–1750SE

3078'

SCALE IN METERS
25 0 50 100

SCALE IN FEET
100 50 0 100 200

NOTE: VALUES PLOTTED ARE IN Au IN ppb

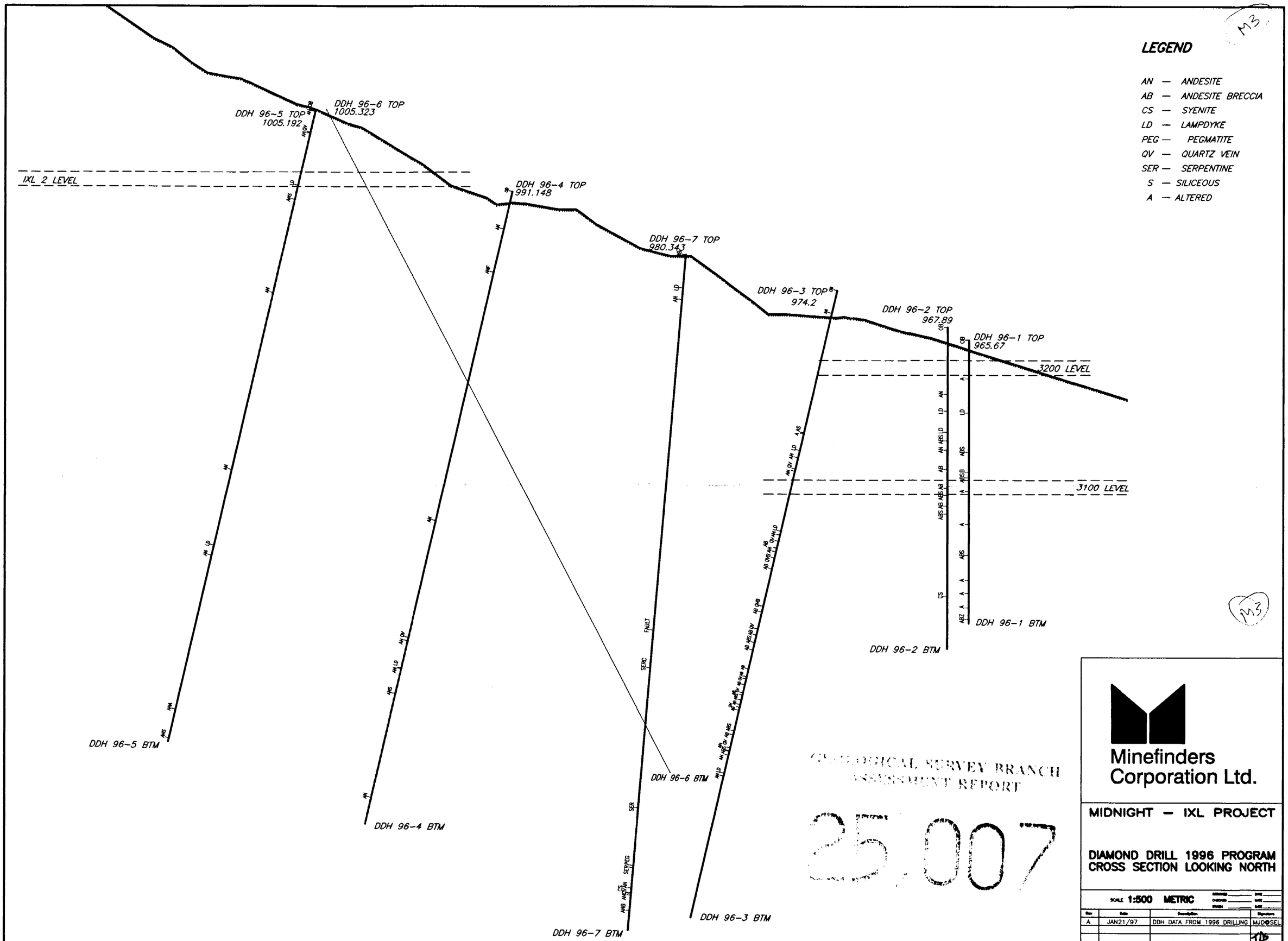
MIDNIGHT PROPERTY ROSSLAND B.C.
WORKING PLAN
GEOCHEMICAL SURVEY 1996
PROPERTY BOUNDARIES

DATE:	SCALE:	FIG. NO.:	CONTOUR INTERVAL = NA
21/01/97	1 = 1250		
PROJ. NO.: GEOCHM96.DWG	DRWN. BY: WPS/MJD @ SEL	APPROVED:	REV. DATE:

SPROULERS' ENTERPRISES LIMITED
SURVEY AND DESIGN
509–A LAKE ST. NELSON B.C. Ph:(250)–352–7900 FAX: (250)–352–7930

TERA-EX ENGINEERING

Minefinders Corporation Ltd.



Minefinders Corporation Ltd.

MIDNIGHT – IXL PROJECT

DIAMOND DRILL 1996 PROGRAM
CROSS SECTION LOOKING NORTH

SCALE 1:500 METRIC

Rev	Date	Description	Signature
A	JAN21/97	DDH DATA FROM 1996 DRILLING	MJD@SEL

REVISIONS

DWG FILE: XS_DDH96.DWG

MH

SNOWDROP

LOT 3513

SUNNYSIDE

LOT 1503

GOLD KING
LOT 1229

AETNA FR.

LOT 3752

BIG BEND

LOT 3502

O.K.

LOT 678

BASE

1400SW-BASE

1600SW-BASE

1800SW-BASE

BASE3

2000SW-BASE

2200-BASE

2400-0150SE

BASE4

2600SW-0200SE

2800SW-0350SE

3000SW-0400SE

REP-H-7C

CREEK

10 00SW-9+00SE

10 00SW-9+50SE

PORTAL ADIT

12 00SW-9+50SE

14 00-8+50

GATE

SW-8+50SE

18+00SW

20+00SW-1050SE

SL82

JUMBO NO. 3

2200SW-2250SE

LOT 3218

GOLDEN DRIP

SL539

COUNTESS

LOT 1201

BRYAN

LOT 1827

HUB-5

2200SW-1500SE

LITTLE DALLES

2600SW-1500SE

LOT 1215

3078'

GOLDEN BUTTERFLY

JUNE BUG

LOT 1217

2800SW-1750SE

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,007

SCALE IN METERS
25 0 50 100

SCALE IN FEET
100 50 0 100 200

SPROULERS' ENTERPRISES LIMITED
SURVEY AND DESIGN
509-A LAKE ST. NELSON B.C. PH:(250)-352-7900 FAX: (250)-352-7930
TERA-EX ENGINEERING

Minefinders Corporation Ltd.

MIDNIGHT PROPERTY ROSSLAND B.C.

WORKING PLAN
DIAMOND DRILL HOLES 1996
PROPERTY BOUNDARIES

DATE:	SCALE:	FIG. NO.:	CONTOUR INTERVAL = 2m
21/01/97	1 = 1250		
PROJ. NO.: JAN2197.DWG	DRWN. BY: WPS/MJD @ SEL	APPROVED:	REV. DATE: