

ANDREW BAY PROJECT

GEOLOGICAL AND DRILLING REPORT

on the

RIP 1, 8; RIP 2, 3, 4; and RIP 5, 6, 7 MINERAL GROUPS

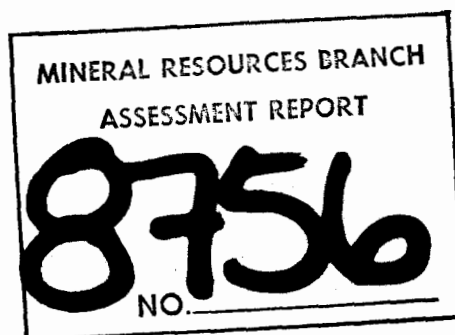
Omineca Mining Division

NTS: 93E/15

LAT. $53^{\circ} 50' N$; LONG. $126^{\circ} 44' W$

OPERATOR: SMD Mining Company Ltd.

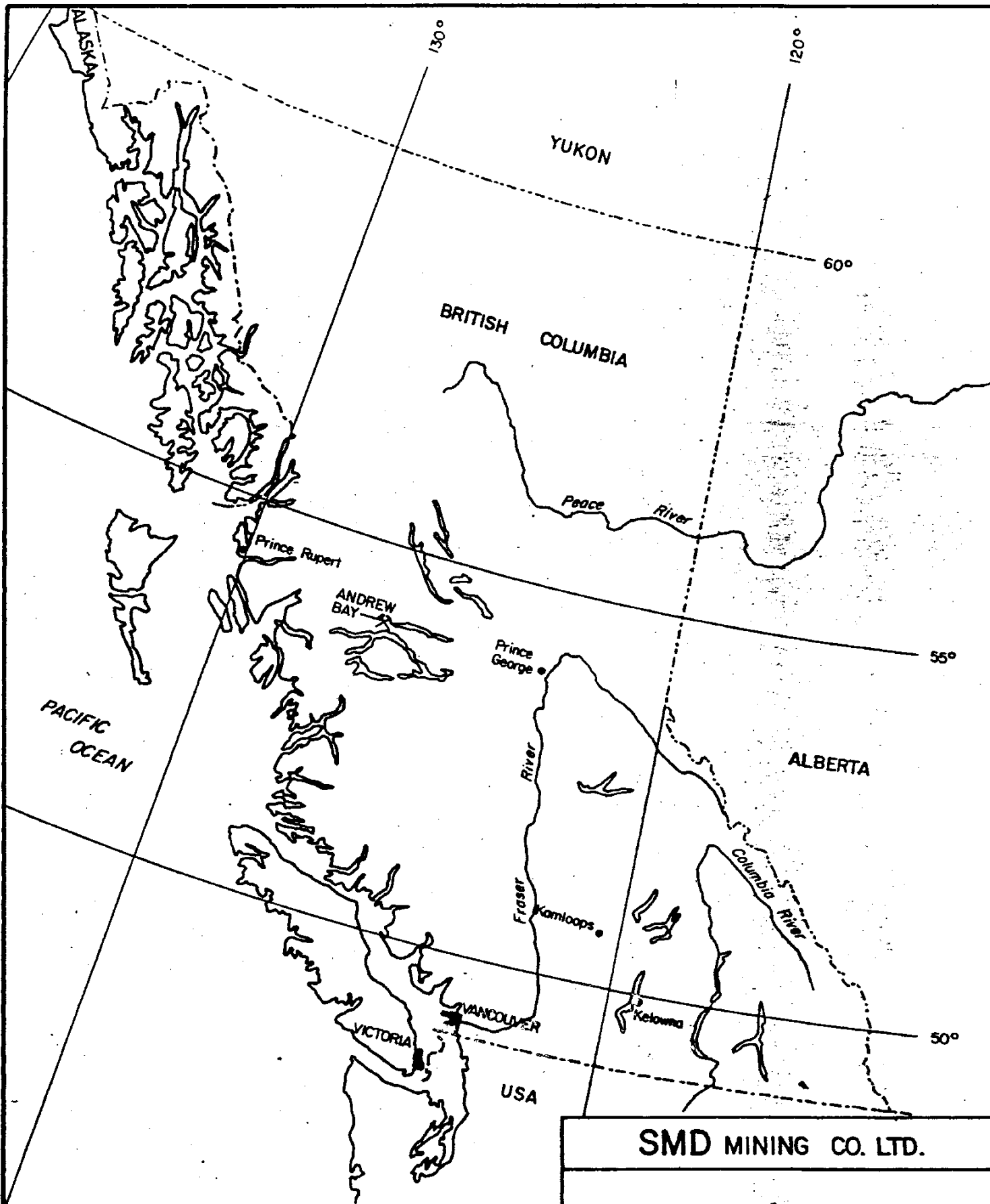
OWNER: Kennco Explorations (Western) Ltd.



By

R. Cann

November 28, 1980

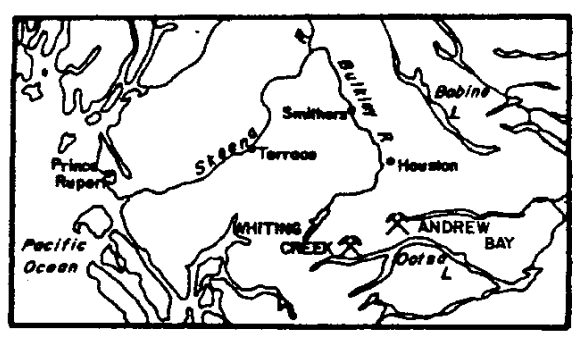
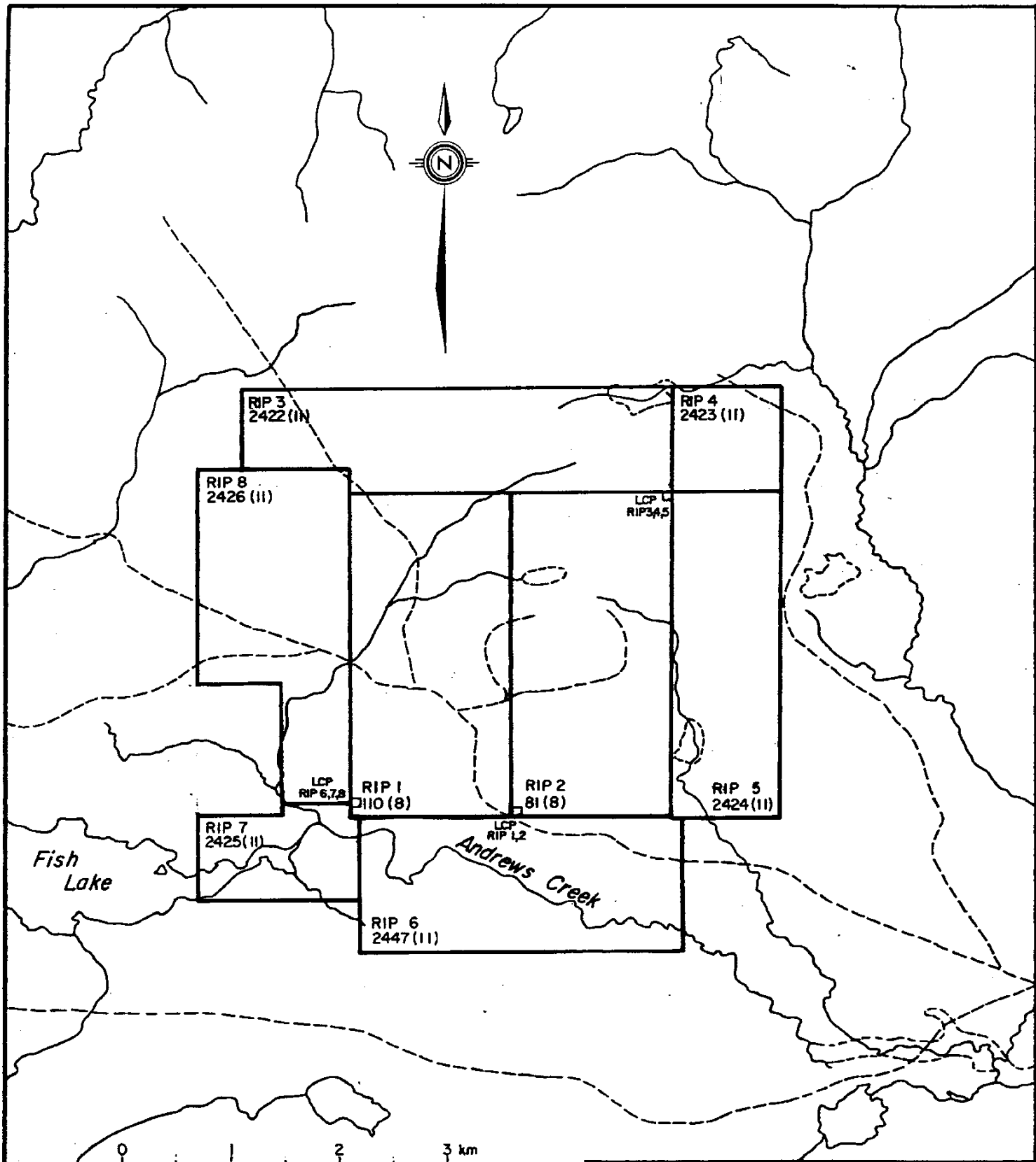


SMD MINING CO. LTD.

LOCATION MAP



PROJECT		ANDREW BAY	
NTS	95-E-15	DISPOSITION	RIP 1-8
WORK BY	R.M. CANN	SCALE	1 : 7,500,000
DRAWN	C.D. DURBIN	DATE	FIG. 1



SMD MINING CO. LTD.			
INDEX MAP			
PROJECT		ANDREW BAY	
NTS	93-E-15	DISPOSITION	RIP 1-8
WORK BY R.M. CANN		SCALE 1:50,000	
DRAWN C.D. DURBIN		DATE	FIG. 2

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I. INTRODUCTION

(i) Location and Access

The Rip 1 to 8 mineral claims (Figures 1 and 2) are located 112 kilometres south-southeast of Smithers, in west-central B.C. (NTS: 93E/15). Access to the property is via logging roads from Houston or Burns Lake to Francois Lake and then to Ootsa Lake. Closest community is Wistaria approximately 35 kilometres by road east of the property. A logging camp is situated at Andrew Bay 10 kilometres east of the claims.

Physiographically, the property is situated on the west side of the Nechako Plateau in an area of rolling to hilly topography. Maximum elevation is 1235 m and maximum relief 300 metres.

The area is being actively logged at present. Vegetation consists primarily of pine, balsam and spruce.

(ii) Claim Definition

The Rip 1 and 2 claims were originally staked by Kennco Explorations (Western) Ltd. in 1975 to cover an IP anomaly discovered during a reconnaissance survey. In 1979, SMD Mining Company Ltd. entered into an option agreement with Kennco Explorations (Western) Ltd. That same year 6 new claims were added to the original 2, to total 8 claims as defined below. SMD Mining Company Ltd. is the current operator and Kennco Explorations (Western) Ltd. is the owner.

<u>Claim</u>	<u>Units</u>	<u>Tag. No.</u>	<u>Record No.</u>	<u>Record Date</u>
Rip 1	18	02517	110	August 25, 1975
Rip 2	18	02518	81	August 19, 1975
Rip 3	16	49603	2422	November 29, 1979
Rip 4	4	49604	2423	November 29, 1979
Rip 5	16	49605	2424	November 29, 1979
Rip 6	18	47726	2447	November 29, 1979
Rip 7	6	47727	2425	November 29, 1979
Rip 8	18	49608	2426	November 29, 1979

(iii) Summary of Work

Geological Mapping

Geological mapping was conducted over the entire claim group at a scale of 1:5000. Grid lines, topographic map and chaining were used for survey control while mapping. Consultants P. Fox of Vancouver and R.W. Bamford of Salt Lake City provided geological advice on the property.

Percussion Drilling

Thirty-six, 5 cm, percussion holes totalling 1,762.9 metres were drilled from July 13 to August 26 and from October 12 to October 26. Drilling was done by Tonto Drilling Ltd. of Vancouver. Most of the drilling was conducted on the Rip 1 and Rip 2 claims, however, one hole was also drilled on each of Rip 3 and Rip 8.

2. GEOLOGICAL MAPPING

Geological mapping was conducted over the entire claim group at a scale of 1:5000. Grid lines, topographic map and chaining were used for survey control while mapping. A topographic base map at a scale of 1:5000 was prepared from government air photographs by Pacific Survey Corporation of Vancouver. Outcrop is sparse on the property, generally less than 1 percent.

Geology is shown on Map 1. Oldest rocks in the map-area are fossiliferous greywackes, siltstones, volcanoclastics and hornfelsed equivalents belonging to Middle Jurassic Smithers Formation of the Hazelton Group. Exposures in the trenches (Map 1) are hornfelsed equivalents of these rocks. Mineralization in the trenches consists of a quartz-chalcopyrite-molybdenite-magnetite stockwork. Pervasive phyllic alteration is associated with the stockwork in these trenches.

Next oldest rocks in the area are volcanoclastic, volcanic breccias and sandstone of the Upper Cretaceous Kasalka Group. No mineralization was observed in these rocks and mapping by the GSC indicates that they are in fault contact with Hazelton Group rocks to the south.

Porphyritic dacite and felsite are believed to be flow rocks of Eocene age. Their relationship to adjacent Hazelton Group rocks is not known, however, they are believed to be unconformably overlying. Minor disseminated pyrite is common in these rocks. Two small areas of medium grained arkosic sandstone and boulder conglomerate were mapped. The sediments appear to overlie Eocene flows, but are believed to be Eocene in age as well.

Two outcrops of pale green, fine grained amygdaloidal basalt were mapped in southeast corner of the claims. Amygdules are filled with calcite and chlorite. The age of these rocks is not known, but mapping by the GSC indicates that they are part of the Hazelton Group.

No major structures were mapped, however, the complex outcrop pattern suggests some major structures do occur in this area.

3. PERCUSSION DRILLING

Thirty-six percussion drill holes (map 1) totaling 1,762.9 metres were drilled by Tonto Drilling Ltd. of Vancouver, B.C. Due to excessive overburden thickness (greater than 100 metres locally), 11 of these drill holes failed to reach bedrock.

Cuttings were split as they reached the surface using a mechanical splitter and a $\frac{1}{2}$ split of each 10 foot (3 metre) sample was collected and sent for analysis. Geochemical analyses for Cu and Mo were done by Min-En Laboratories in N. Vancouver. Analyses are tabulated in Appendix B.

Two grab samples were also taken in kraft bags from each 10 foot run. Cuttings from one sample were mounted on a board for examination. The remaining sample is stored in Saskatoon, Saskatchewan.

Drill logs for each hole are attached as Appendix A.

4. ITEMIZED COST STATEMENT

1980 FIELD WORK - SHD MINING COMPANY LIMITED
 ANDREW BAY PROJECT - 1980 OCTOBER 25

DIRECT COSTS	RIP 1 MC 110	RIP 2 MC 81	RIP 3 MC 2422	RIP 4 MC 2423	RIP 5 MC 2424	RIP 6 MC 2447	RIP 7 MC 2425	RIP 8 MC 2426	TOTAL
Geologic Mapping									
SMDC Salaries	\$ 655.00	\$ 519.00	\$ 124.00	\$ 51.00	\$ 46.00	\$ 589.00	\$ 445.00	\$ 379.00	\$ 2,808.00
Consulting - R. W. Bamford	51.87	51.87	46.12	11.50	46.12	51.87	17.28	51.87	328.50
Consulting - Fox Geological	211.85	211.85	188.37	46.95	188.37	211.85	70.57	211.85	1,341.66
Topographic Mapping									
Air Photography									
Contractor - Geographic Air Surveys	\$ 413.01	\$ 413.01	\$ 367.23	\$ 91.55	\$ 367.23	\$ 413.01	\$ 137.57	\$ 413.01	\$ 2,615.62
Base Map Preparation									
Contractor - Pacific Survey Corporation	276.33	276.33	245.70	61.25	245.70	276.33	92.03	276.33	1,750.00
Sub-Total Direct Costs Geology, etc.	\$ 1,608.06	\$ 1,472.06	\$ 971.42	\$ 262.25	\$ 893.42	\$ 1,542.06	\$ 762.45	\$ 1,332.06	\$ 8,843.78
Drilling - Percussion									
SMDC Salaries	\$ 4,459.00	\$ 1,823.00	\$ 459.00					\$ 199.00	\$ 6,940.00
Contractor - Tonto Drilling	63,011.98	21,800.78	1,905.10					3,145.21	89,863.07
Contractor - International Geosystems	2,276.38	787.58	68.82					113.62	3,246.40
Analysis - Min-En Labs	2,243.03	1,072.56	135.18					202.38	3,653.15
Analysis - Vancouver Petrographics	343.99	164.49	20.73					31.04	560.25
Sub-Total Drilling	\$72,334.38	\$25,648.41	\$ 2,588.83					\$ 3,691.25	\$104,262.87
Road Construction									
SMDC Salaries	\$ 372.00	\$ 248.00			\$ 51.00			\$ 51.00	\$ 722.00
Contractor - Arne Clausen	3,552.15	764.97			449.14			754.96	5,531.22
Contractor - Tonto Drilling	12,543.97	2,701.39			1,536.06			2,701.39	19,532.81
Sub-Total Road Construction	\$16,468.12	\$ 3,714.36			\$ 2,086.20			\$ 3,517.35	\$ 22,286.03
TOTAL DIRECT COSTS	\$90,410.56	\$30,834.83	\$ 3,560.25	\$ 262.25	\$ 2,979.62	\$ 1,542.06	\$ 762.45	\$ 8,540.66	\$139,892.69
SUPPORT COSTS									
Camp Operations									
SMDC Salaries	\$ 303.63	\$ 123.27	\$ 23.98	\$ 7.19	\$ 13.68	\$ 82.99	\$ 62.67	\$ 73.59	\$ 691.00
Camp Supplies	3,323.96	1,349.55	262.50	78.67	149.78	908.53	686.12	805.65	7,564.76
Field Supplies	89.59	37.18	8.33	3.45	5.34	25.47	19.57	22.75	211.68
Field Management									
SMDC Salaries	\$ 1,598.82	\$ 649.13	\$ 126.26	\$ 37.84	\$ 72.05	\$ 437.00	\$ 330.02	\$ 387.52	\$ 3,638.64
Report Writing									
SMDC Salaries	\$ 544.86	\$ 221.22	\$ 43.03	\$ 12.90	\$ 24.55	\$ 148.92	\$ 112.47	\$ 132.05	\$ 1,240.00
Drafting									
SMDC Salaries	\$ 77.33	\$ 31.40	\$ 6.11	\$ 1.83	\$ 3.48	\$ 21.14	\$ 15.96	\$ 18.75	\$ 176.00
Vehicles - Rental									
	\$ 1,949.30	\$ 791.43	\$ 153.94	\$ 46.14	\$ 87.84	\$ 532.80	\$ 402.37	\$ 472.46	\$ 4,436.28
Total Support Costs	\$ 7,887.49	\$ 3,203.18	\$ 624.15	\$ 188.02	\$ 356.72	\$ 2,156.85	\$ 1,629.18	\$ 1,912.77	\$ 17,958.36
Travel & Transportation									
Fares & Related	\$ 2,223.67	\$ 902.83	\$ 175.61	\$ 52.63	\$ 100.20	\$ 607.79	\$ 459.01	\$ 538.96	\$ 5,060.70
Freight	153.21	62.20	12.10	3.63	6.90	41.88	31.62	37.13	348.67
Total Transportation & Travel	\$ 2,376.88	\$ 965.03	\$ 187.71	\$ 56.26	\$ 107.10	\$ 649.67	\$ 490.63	\$ 576.09	\$ 5,409.37
TOTAL FIELD COSTS	\$100,674.93	\$35,003.04	\$ 4,372.11	\$ 506.53	\$ 3,443.44	\$ 4,348.58	\$ 2,882.26	\$ 11,029.52	\$162,260.41
Admin 10%	10,067.49	3,500.30	437.21	50.65	344.35	434.86	288.23	1,102.95	16,226.04
TOTAL ASSESSMENT COST	\$110,742.42	\$38,503.34	\$ 4,809.32	\$ 557.18	\$ 3,787.79	\$ 4,783.44	\$ 3,170.49	\$ 12,132.47	\$178,486.45
Grouping for Assessment Credits									
Applied for Assessments Credits									
Road Work	\$14,400.00	\$ 3,714.36	\$	\$	\$ 2,086.20	\$	\$	\$ 5,585.47	\$ 25,786.03
Drilling, Geology, etc.	10,685.64	19,200.00	4,800.00	1,113.80	7,200.00	1,200.00	16,014.53	50,213.97	
	\$14,400.00	\$14,400.00	\$ 19,200.00	\$ 4,800.00	\$ 3,200.00	\$ 7,200.00	\$ 1,200.00	\$ 21,600.00	\$ 86,000.00
Assessment Years Applied	4	4	6	6	1	2	1	6	30
BALANCE FOR PAC CREDITS									\$ 92,486.45

5. STATEMENT OF QUALIFICATIONS

I, Robert M. Cann, of the City of Saskatoon, Province of Saskatchewan, hereby certify:

1. That I am a geologist residing at 2302 - 17th Street West, Saskatoon, Saskatchewan.
2. That I am a graduate of the University of British Columbia with a B. Sc. degree in Geology in 1976 and a M. Sc. degree in Geology in 1979.
3. That I have practiced my profession for five field seasons.
4. That I personally supervised the work carried out in the Rip 1 - 8 claims.



Robert M. Cann
November 28, 1980

APPENDIX A

PERCUSSION DRILL LOGS

APPENDIX A

PERCUSSION DRILL LOGS

ABBREVIATED GEOLOG LEGEND

Columns 2-4 - Zones and Horizons

SSX Supergene sulphide zone
HYP Hypogene zone
TRN Transition zone
DYK Intramineral or postmineral dyke
HFL Hornfels
CAP Leached cap
FRC Fracture zone
WTH Weathered zone
CN/ Contact
SH/ Shear zone
FLT Fault zone
MSX Massive sulphides

Columns 21-22 - Type modifier

- 2 letter code to modify main rock name; e.g. wc GRDR (Whiting Creek granodiorite).

Columns 24-27 - Rock type or name

Intrusive and Volcanic Rocks

APLT	Aplite	FBPP	Feldspar biotite porphyry
QMPP	Quartz monzonite porphyry	PPFQ	Feldspar quartz porphyry (dacite)
QZMZ	Quartz monzonite		
GRDR	Granodiorite	QFPP	Feldspar porphyry
MZPP	Crowded monzonite porphyry	PPFL	Feldspar porphyry
FELS	Felsite	QZPP	Aplitic quartz porphyry
VOLC	Volcanic		
PPAN	Porphyritic andesite		
ANDS	Andesite		

Volcaniclastic Rocks

TUFF	Tuff
VLCC	Volcaniclastic
TFXL	Crystal tuff
LPTF	Lapilli tuff

Sedimentary Rocks

MTSB	Metasediment
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Miscellaneous

BRXX	Breccia
VEIN	Major vein
QZ/V	Quartz stockwork
MSSX	Massive sulphides
LOST	Lost core
FAUL	Fault zone
UNKN	Unknown rock type
OVER	Overburden
HORN	Hornfels

Columns 28-29, 30-31 (lower) - lightness, colour

Lightness

W	White
9	Palest
8	
7	
6	
5	Medium
4	
3	
2	
1	Darkest
N	Black

Colour

R	Red
U	Brown
O	Orange
T	Tan
L	Lime
G	Green
Q	Aqua
B	Blue
V	Violet
P	Purple

M	Mauve
W	White
A	Grey
N	Black

Columns 28-31 (upper) - typifying minerals in rock

See following page

Columns 35-38 - Textures

BD	Bedded	PP	Porphyritic
BR	Brecciated	RB	Ribboned
BW	Boxwork	SH	Sheared
CM	Chill margin	TC	Trachytic
EQ	Equigranular	VG	Vuggy
FB	Flow banded	VV	Veined
HF	Hornfelsic	<<	Microveined
IQ	Inequigranular		

AC actinolite	CZ clinzoisite	H* hematite : magnetite	NF nepheline	TA talc
AD adularia	CF coffinite	min.comb'n, undif	NI niccolite	44Ni TL tellurides, gen Te
AB albite	CU copper, native	Cu HE hematite alone		TN tennantite 50Cu 56Sb + A
AM almandite	CØ cordierite	H> HE>MG		TE tenorite 80C
Al alunite	CV covellite	66Cu H= HE=MG	ØL olivine (chrysolite)	TT tetrahedrite Cu+S
AX amphiboles, gen	CI cuprite	89Cu H< HE<MG	ØP opal	TX TT, TN undif
AA andalusite		MG magnetite alone	ØQ opaques, gen	TZ topaz
AG anglesite 68Pb			ØX oxides, gen	TØ tourmaline
AH anhydrite		HB hornblende (see B*)	ØR orthopyroxene, gen	TR tremolite
AN anorthite	DC dickite	HU huebnerite 61W		
AP apatite	DG digenite	HM hydromica (IL)	PH phlogopite	
AR aragonite	DI diopside	HY hypersthene	PF plagioclase (see K*)	
AS arsenopyrite 45As	DØ dolomite		PT platinum	Pt UR uraninite (pitchblend)
AØ asbestos	D* dolomite : calcite		PØ powellite 58Mo, W	92U
AU augite	min.comb'n, undif	IL illite (HM)	PS psilomelane	Mn UX uranium minerals, gen
AT axinite	DØ dolomite alone	IM ilmenite 32Ti	PY pyrite 47Fe	
AZ azurite (see M*) 58Cu	D> DØ>CA	JD jadeite	PL pyrolusite	VA vanadinite 73Pb, 11V
AE aegerine	D= DØ=CA	JA jarosite	PX pyroxene, gen	VE vesuvianite
	D< DØ<CA	JØ jordisite 60Mo	PP pyrophyllite	
	CA calcite alone		PR pyrrotite 60Fe	
EA barite		KA kaolin	PN pentlandite	
BE beryl		KY kyanite		WD wad Mn + other
BI biotite	EN enargite	KF K-spar, orthoclase		WØ wollastonite
B* biotite : hornblende	ES enstatite	K* K-spar : plagioclase	QZ quartz, gen	WF wolframite 62W
min.comb'n, undif	EP epidote	min.comb'n, undif	QA quartz, agate	WN wulfenite 56Pb + 26Mo
BI biotite alone	ER erythrite	30Co KF K-spar alone	QC quartz-carbonate	
B> BI>HB		K> KF>PF	QH quartz, chert	
B= BI=HB	FØ forsterite	K= KF=PF	QM quartz, amethyst	ZE zeolites, gen
B< BI<HB	FA fayalite	K< KF<PF	QX quartz, crystals	ZI zircon
HB hornblende alone	FT farnatinit	PF plagioclase alone	QS quartz-sericite	ZØ zoisite
	FX feldspars, gen		QT quartz-tourmaline	
BS bismuthinite 70Bi	FD feldspathoids, gen		QR quartz, rutilated	XX any mineral
BØ bornite 63Cu	FR ferberite	W	QV quartz vein, massive	YY " "
BR brochantite 56Cu	FM ferrimolybdate 40Mo	LM laumontite		ZZ " "
	FL fluorite 49F	LW lawsonite		XY " "
CA calcite (see D*)	GL galena 86Pb	LU leucite	RC rhodochrosite Mn	
CB carbonates, gen	G* galena : sphalerite	LE leucocene	RN rhodonite Mn	X1) minerals identi-
CT cassiterite 79Sn	min.comb'n, undif	LI limonite	RU rutile 60Ti	X2) fied elsewhere
CE cerussite 77Pb	GL galena alone	MF mafics, gen		Y1) or later
CH chalcantite 25Cu	G> GL>SL	MA magnesite 48MgO	SA sanidine	
CC chalcocite, gen	G= GL=SL	MG magnetite (see H*) 72Fe	SC scapolite	
C\$ " on ec. min	G< GL<SL	MC malachite 58Cu	SE scorzalite	
C. " on gangue	SL sphalerite alone	M* malachite : azurite	SF sericite-fluorite	A D D E N D U M :
CP chalcopyrite 35Cu		min.comb'n, undif	assemblage	
CL chlorite	GA garnet	MC malachite alone	SH scheelite 64W	
CD chloritoid	GS glass, gen	M> MC>AZ	MS sericite (MU)	
CR chromite 46Cr	GN glauconite	M= MC=AZ	SE serpentine	
CK chrysocolla 36Cu	GC glaucophane	M< MC<AZ	SD siderite 48Fe	
ØL chrysolite (olivine)	GØ goethite	AZ azurite alone	SI sillimanite	
CS chrysotile	GD gold		SV silver	
CN cinnabar 86Hg	GR graphite	Au	SS silver & sulphosalts	
CY clay	GR greenockite 78Cd	C	SØ sodalite	
C* clay : muscovite	G\$ greisen, gen		SL sphalerite (see G*)	
min.comb'n, undif	GY gypsum		67Zn	
CY clay alone		ML melnikovite	SP sphene	
C> CY>MU		MI micas, gen	ST staurolite	
C= CY=MU	HA halite	MØ molybdenite 60Mo	SB stibnite 72Sb	
C< CY<MU	HV helvite	MZ monazite	SU sulphates, gen	
MU muscovite alone	HE hematite, earthy 70Fe	MM montmorillonite	SX sulphides, gen	
	HS hematite, specularite	MU muscovite (see C*)	SR sperrylite	
CX clinopyroxene, gen		MS sericite		

RECAP SUMMARY OF SOME IMPORTANT
GENERAL MINERALS

AX amphiboles TL tellurides
 CB carbonates TX TT, TN undif
 CC chalcocite UX uranium min's
 CX clinopyroxene ZE zeolites
 FX feldspars
 FD feldspathoids
 GL glass
 G\$ greisen
 LI limonite
 MF mafics
 ØQ opaques
 ØX oxides
 PF plagioclase
 PX pyroxenes
 QZ quartz
 SF sericite-fluorite
 assemblage
 SS silver & sulphosalts
 SU sulphates
 SX sulphides

RECAP SUMMARY OF
MINERAL COMBINATIONS

B* biotite : hornblende
 C* clay : muscovite
 D* dolomite : calcite
 G* galena : sphalerite
 H* hematite : magnetite
 K* K-spar : plagioclase
 M* malachite : azurite

SPECIAL Any two-letter Mineral Code followed immediately by a G-Scale estimated percentage presence of that
 N O T E mineral becomes a three-character QALMAT (QM1 or QM2) in fields F(32-34)/L or a simple abbreviation
 for use in Remarks.

**min.comb'n, undif=mineral combination, undifferentiated. For instance, use B* where proportion of BI & HB
 cannot be given.

Columns 39-42 (Upper) - Grain sizes (fine fraction, coarse fraction, percent coarse, maximum size)

See S scale on following page

Columns 39-42 (lower) - Degree of sorting, roundness, etc.

See bottom of following page

Columns 49-50 - Structure type

V1	Pyrite vein	SH	Shear
V2	Quartz-pyrite vein	SF	Single fracture
V3	Mo vein	JN	Joint
V4	Gypsum vein	CN	Contact
V5	Quartz-moly + pyrite vein		
V6	Quartz vein		
V7	Chalcopyrite vein		

Columns 57-76 - Alteration and mineralization

Odd numbered columns are how mineral occurs - see H-Scale below.

Even numbered columns are abundance of mineral - see G-Scale below for diamond drill logs and Q-Scale for percussion drill logs.

Columns 77-78 (lower) -

Number of quartz veins in each logging interval.

		H - SCALE		G - SCALE		Q - SCALE			
		MODE OF OCCURRENCE OR 'HOW'		FOR PERCENTAGE ESTIMATES					
	Sym- bol	Description	Sym- bol	Description	Assign Value	Description Value and Range			
DEGREE OF PERVAS- IVE- NESS INCRAS- ING	0	Fresh, primary rock (Z) (Z for zero)	A	Amygdaloids, cavity fill- ings	0	0 Absent	-	0	Absent
	1	Amygdaloids (A), minor Microveins (+) and/or scattered Crystals (D)	B	Blebs	.01	. Trace to <.02			
	2	Macroveins (+) and Veins (V)	F	Breccia fillings	.03	. .02 to <.05			
	3	Veins (V) and Dalmatlonite (Y) { Spots (S) or Patches (Q) (as in Quilts)	C	Coatings & encrustations & clasts	.1	(.05 to <.2			
	4	Veins (V), occasionally with Envelopes (E)	D	Disseminations & scat. x'l's	.3	. .2 to <.5			
	5	Veins (V), usually with Envelopes (E)	E	Envelopes	1) .5 to < 2			
	6	Pervasive (P) or LESS { Veins (V), Microveins (+) Disseminations (D) THAN { Selvages (S), Envelopes (E)	F	Framework crystals	2.5	+ 2 to < 3			
	7	" " EQUAL { " " " " " "	G	Gouge	5	= 3 to < 7			
	8	" " GREATER { " " " " " "	H	I eyes, augen	10	1 7 to <15	-	T	Trace
	9	Pervasive (P) or Disseminations (D), Veins (V), Microveins (+), Selvages (S) & Envelopes (E) with much Breccia filling (I), Stockwork (K) and/or Sheetting (S)	J	Interstitial	20	2 15 to <25	-	L	Low
X	Massive (M) and/or Laminated/Bedded (L)	K	Stockwork	30	3 25 to <35	-	F	Fair	
		L	Laminations/Bedded	40	4 35 to <45	-	B	Below M	
		M	Massive	50	5 45 to <55	-	M	Medium	
		N	Modules	60	6 55 to <65	-	A	Above M	
		P	Spots	70	7 65 to <75	-	H	High	
		Q	Patches, as in Quilts	80	8 75 to <85	-	V	Very H	
		R	Rosettes & x'l clusters	90	9 85 to <100	-	E	Extra	
		S	Selvages	100	X 100%	-	X	100%	
		\$	Sheetting						
		T	Tarnishings, as in Tarnish						
		U	Sub-hedral crystals						
		V	Veins						
		>	Microveins, frac fillings						
		<	Microveins, frac fillings						
		W	Boxwork	.07	/ Present: Est. impossible				
		X	Massive and/or laminated/bedded						
		Y	Dalmatlonite	0	?				
		Z	Fresh, primary rock						

IGNEOUS, METAMORPHIC & CHEMICAL	PARTICLE DIAMETER RANGE	THE S-SCALE FOR GRAIN OR PARTICLE SIZE				VOLCANIC-CLASTICS		
		ASSIGN VALUE	SYM<<FOR GENERAL WORKS>>	ASSIGN VALUE	SYM<>>			
Glassy	mm	.003	0	CLAY SIZE	A	.003	fine ash	
	2 ⁻⁸ -.004	mm		V.FINE SILT	B	.006		
Extremely fine grained (aphanitic)	2 ⁻⁷	.008	1	FINE SILT	C	.011		
	2 ⁻⁶ -.016			MEDIUM SILT	D	.022		
	2 ⁻⁵	.03	2	COARSE SILT	E	.044		
Fine grained	2 ⁻⁴ -.06			V.FINE SAND	F	.088		coarse ash
	2 ⁻³	.12	3	FINE SAND	G	.177		
	2 ⁻² -.25			MEDIUM SAND	H	.354		
	2 ⁻¹	.5	4	COARSE SAND	I	.707		
Medium grained (granular)	2 ¹			GRIT	J	1.41		
	2 ² = 4	2	5	GRANULE	K	2.83		
Coarse grained	2 ³			V.SMALL PEBBLE	L	5.66	small lapilli	
	2 ⁴ = 16	8	6	SMALL PEBBLE	M	11.3		
Very coarse grained	2 ⁵	3.2	7	MEDIUM PEBBLE	N	22.6	large lapilli	
	2 ⁶ = 64	cm		LARGE PEBBLE	O	45.3		
Pegmatitic	2 ⁷	13	8	SMALL COBBLE	P	90.5	cobble-size bombs & blocks	
	2 ⁸ = 250	cm		LARGE COBBLE	Q	181		
Megapegmatitic	2 ⁹	1/4m	9	SMALL BOULDER	R	362	boulder-size bombs & blocks	
	2 ¹⁰ = 1m			MEDIUM BOULDER	S	724		
Extra-coarse megapegmatitic	2 ¹¹	2m	X	LARGE BOULDER	T	1450	extra large bombs & blocks	
				V.LARGE BOULDER	U	2900		

39/ 40/ 42/

NOTE:1. It is quite permissible to intermix the alphabetic symbols with the numeric symbols of this S-Scale, whenever detail work demands it - no conflict ensues by doing so.

2. Use the S-Scale for Fine Fraction (Ff), Coarse Fraction (Cf) and Max Particle (MxP) in F(39,40,42)/
3. For Seriate Texture, in which the Grain Size varies gradually or continuously, enter significant Fine Particle size in Ff, in F(39)/ and the large end of the range in MxP, in F(42)/

This S-scale, used for the Per Cent Cf, is the G - Scale

Sym	Assign Value
.	.01
-	.03
(.1
=	.3
)	1
*	2.5
-	5
1	10
2	20
3	30
4	40
5	50
6	60
7	70
8	80
9	90
X	100
1 Coarse Fraction	
41/	

TYPE MODIFIER I OF MIX

Sym	Assign Value
.	.01
-	.03
(.1
=	.3
)	1
*	2.5
-	5
1	10
2	20
3	30
4	40
5	50
6	60
7	70
8	80
9	90
X	100

A Type Modifier is less formal than a Rock Unit name or Member name

A Type Modifier consists of any two characters, including blank,

Examples are:

R as in R GRAN
R- R- DIBR
R* R* SAND
RM RM GRAN

- where R may stand for Red to distinguish it from the Bald Mountain granite

For each principal rock type interval (PCI), leave mix blank. For repeat intervals give mix of all 2ndary rock types

21.U	21.L	22	23
ROCK UNIT NAME			
OR A G E			
Formation name	xxx	(or xxx)	
Member name	xxx	(or xxx)	
Submember name	xxx	(or xxx)	

Though not essential, it is recommended that a formation name consist of two letters followed by a + sign, but could be three letters; that a member name consist of 2 letters followed by an = sign, but could be 3 letters; and that a submember name consist of 2 letters followed by @ - sign, but could consist of 3 letters or 2 and a number.

The age of a formation or member can be given using standard one, two and/or three-letter codes, such as KU for Upper Cretaceous; JL for Lower Jurassic, etc., left-justified in F(21-23)L

FRACTURES AND JOINTS

Range Values	Assign Value	Sym	Descriptive
0	0	0	unfractured
0-2	1	1	exten low Intense
2-4	3	2	v. low Intensity
4-8	6	3	low Intensity
8-12	10	4	mod. low Intensity
12-18	15	5	moderate
18-24	21	6	f. high Intensity
24-32	28	7	high Intensity
32-40	36	8	very Intense
40-50	45	9	extremely Intense
>50	55	X	shattered

This F-scale provides a means of expressing both fracture intensity and a fracture count per metre of:

DEFINITIONS: (1) A rock body more or less uniformly cut by 1 set of fractures (joints), on the average 1 metre apart, is said to have a fracture density of 1 (FD=1). (2) A fracture set is a family of parallel or sub-parallel fractures.

LENAS: (1) When one fracture set cutting @ body is rotated in various directions, the fracture density, on the average, remains unchanged. (2) The fracture density in a rock body cut by several fracture sets is the sum of the partial fracture densities attributable to each set.

<p>DEGREE OF SORTING 39L</p> <ol style="list-style-type: none"> 1 extremely poorly sorted 2 very poorly sorted 3 poorly sorted 4 moderately poorly sorted 5 moderately sorted 6 moderately well sorted 7 well sorted 8 very well sorted 9 extremely well 	<p>DEGREE OF ROUNDNESS 40L</p> <ol style="list-style-type: none"> 1 extremely angular 2 very angular 3 angular 4 moderately angular 5 intermediate 6 moderately rounded 7 rounded 8 very rounded 9 extremely rounded 	<p>SHAPE (alpha) or SPHERICITY (1-9)</p>	<p>OPEN (O) or CLOSED (C) STRUCTURE or EQUI-(E) or INEQUI-(I) GRANULAR</p> <p>O=open/disrupted -majority of layer particles not touching one another</p> <p>C=closed/intact -majority of particles or fragments touching</p>
---	---	--	--

For Open or Closed Structure (Matrix-supported or Framework-supported), enter O or C in F(42)L

For Degree of Sorting (S_n) and Degree of Roundness (R_n), enter 1 to 9 in F(39,40)L

For Shape, enter C, F, M, L, P, B OR E (see triangular diagram) or, for Sphericity, 1 to 9 in F(41)L

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.

G E O L O G

DRILLHOLE/TRVERSE --- ABPH001 --- (CONTINUED)

A UMM	PM CU	PM MO	HASH	TOTAL
A LAB	MIN-EN	MIN-FN		
A TYP	PH-CUT	PH-CUT		
A MTH	PCL-AA	PCL-AA		

R ASY 0.00 0.00 HOLE ABPH001 ANAL REPORTED 26JUL80 FILE NO:0-522.

A 002	35.05	36.58	3	42	11	53
A 002	36.58	39.62	4	51	8	59
A 002	39.62	42.67	5	43	13	56
A 002	42.67	45.72	6	44	15	59
A 002	45.72	48.77	7	43	16	59
A	48.77	51.82	8	42	15	57
A 002	51.82	54.86	9	40	11	51
A 002	54.86	57.91	10	40	11	51
A 002	57.91	60.96	11	35	12	47
A 002	60.96	64.01	12	38	17	55
A 002	64.01	67.06	13	40	19	59
A 002	67.06	70.10	14	41	21	62
A 002	70.10	73.15	15	40	7	47
A 002	73.15	76.20	16	29	7	36
A 002	76.20	79.25	17	28	5	33
A 002	79.25	82.30	18	21	5	26
A 002	82.30	85.34	19	20	6	26
A 002	85.34	88.39	20	19	9	28
A 002	88.39	91.44	21	24	9	33
A 002	91.44	94.49	22	34	6	40
A 002	94.49	97.54	23	27	8	35
A 002	97.54	100.58	24	26	8	34
A 002	100.58	103.63	25	78	9	87
A 002	103.63	106.68	26	37	7	44

R SUM

R SUM CHIPS DO NOT ALLOW POSITIVE I.D. OF LITHOLOGY. QZ-MS-PY IS ABUNDANT

R SUM ANT AND THE ROCK IS PALE=BLEACHED? TRACES OF POSSIBLE CP AND MO?

R SUM CARBONATE IS VERY ABUNDANT, OFTEN AS PLATES AND THEREFORE LARGELY

R SUM Y FROM VEINS? SUSPECT THAT SOME OF THE CHIPS REPRESENT THE APHAN

R SUM ITIC MATRIX OF A PPFL, BUT DIFFICULT. PROBABLY PHYLLIC ALT

R SUM (BLEACHING?, PY, QZ, MS) OF MODERATE INTENSITY (5M).

R SUM NO COARSE CUTTING 270 TO 290 FT.

R SUM NO COARSE CUTTINGS 310 TO 340 FT.

R SUM VOLC REFERS TO RED TO DK MAROON COLOURED VOLCANIC ROCK WITH

R SUM CHLORITIZED MAFIC PHENOS AND OCCASIONAL FL PHENO. QZ APPEARS TO

R SUM BE FAIRLY COMMON TO BOTTOM OF HOLE, HOWEVER MS AND CR DECREASE

R SUM WITH DEPTH.

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION : 6802

DRILLHOLE/TRVERSE : A8PH002
TOTAL DEPTH/LENGTH : 100.58
CORE/HOLE DIAMETER : 2IN.

COLLAR ELEVATION: 1005.00
NORTHING(- IF S): 1095.00
EASTING (- IF W): 2876.00

AZIMUTH(DEG) : 0.00
VERTICAL ANGLE : -90.00
CO-ORD SYSTEM : MAP

GEOLOGGED BY : DTC +
DATE (YY/MM/DD): 800719
PROJECT NUMBER : 4941

F	INTERVAL		CORE	T-X	TYPI	QUAL	TEX	GRAIN	TOTAL	PGI	STRUCTUR-1	ALTERATION		MINS	ORE-TYPE	MINS	SUMMARY											
K L	(UNITS =	DEC.PLACE)	RECOV-	M M	ROCK	FYING	MIN	TURES	CHARACS	FRAC	ID	STK	DIP	H H	H H	H H	ANY	H H	ANY	ALT	ORE							
F A	(MT=METRIC	FT=FOOTRIC)	ERY	O I	TM	TM	MAT	TX	TX	F C	X M	DEN	/RI	T	ID	STK	DIP	A A	A A	A A	MIN	A A	A A	MIN	- - -			
Y G	F R O M	T O	I N T (.)	D X	TYPE	1	2	QM1	1	2	P F	C A	MI	1	AZM	RT	QZ	BI	CY	CR	MG	GY	PY	CP	GL	YY	F I	Z I
K F			ROCK	FM	RT	TM	QM2	TX	TX	S R	S O	S	T	ID	STK	DIP	KF	MU	CL	EP	HE	XX	PR	MO	SL	- - -		
E L			QUAL	AGE	EN-	Q	LC-	3	3	4	O N	H /	M	2	A7M	RT	H	H	H	H	H	H	H	H	H	H	1	1
Y G			DESIG	VIR	COL			R D	P C	L	STRUCTUR-2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	2	2	

/ L OVR 0.00 38.40 38.40 OVER P

R 0.00 38.40 CASING TO 60 FEET NO SAMPLE

/ L 38.40 39.62 1.22 UNKN P 5M 6M T VB LI 5M

R 38.40 39.62 NO SAMPLE FOR ASSAY, 2 FX FRAGS 8A EM T CT

/ L 39.62 42.67 3.05 VOLC P 7M 6M L VB LI 5A

R 42.67 45.72 3.05 VOLC 8A EM L CT

/ L 42.67 45.72 2 GRAINS DARK HFLS? 9A EM T OT VB LI 5M

R 45.72 48.77 3.05 PPFL 9A EM T VL VB LI 5M

L 48.77 51.82 3.05 PPFL 9A 1 4 4 P 7A PB T VB LI 5A

L 51.82 54.86 3.04 PPFL W 1 4 4 P 7A PB T VM LI 5M

L 54.86 57.91 3.05 PPFL W 1 4 4 P 7A EA 6B VB SA

L 57.91 60.96 3.05 PPFL W 1 3 4 P 6A EA T 6L OT T VL LI 5A

L 60.96 64.01 3.05 PPFL 9A 1 3 4 P 6A EM L 6T OT VL LI 5M

L 64.01 67.02 3.05 PPFL 9A 1 3 4 P 6A EM L 6T OT VL LI 5M

A UMM			PH CU	PH MO		
A LAB			MIN-EN	MIN-EN		
A TYP			PH-CUT	PH-CUT		
A MTH			PCL-AA	PCL-AA		
A 002	39.62	42.67	46	73	4	77
A 002	42.67	45.72	45	53	4	57
A 002	45.72	48.77	27	58	3	61
A 002	48.77	51.82	28	56	2	58
A 002	51.82	54.86	29	55	4	59
A 002	54.86	57.91	30	53	4	57
A 002	57.91	60.96	31	46	4	50
A 002	60.96	64.01	32	47	3	50
A 002	64.01	67.06	33	38	2	40
A 002	67.06	70.10	34	42	3	45
A 002	70.10	73.15	35	37	8	45
A 002	73.15	76.20	36	175	5	180
A 002	76.20	79.25	37	52	4	56
A 002	79.25	82.30	38	36	5	41
A 002	82.30	85.34	39	36	6	42
A 002	85.34	88.39	40	37	8	45
A 002	88.39	91.44	41	35	8	43
A 002	91.44	94.49	42	31	6	37
A 002	94.49	97.54	43	64	7	71
A 002	97.54	100.58	44	140	6	146

R SUM NO CHIPS FOR ASSAY

R SUM FINE GRAIN CUTTINGS DO NOT ALLOW POSITIVE I.D. OF LITHOLOGY

R SUM DARK COLOURER GRAINS ACCOUNTS FOR 5% OF COARSE CUTTINGS

R SUM NO COARSE CUTTINGS 240 TO 250 FT.

R SUM LESS THAN 20 GRAINS OF COARSE CUTTINGS

R SUM PPFL REFERS TO DK TO MAROON COLOURED PPXX ROCK WITH FL AND MAFIC

R SUM PHENO. CHLDRITE IS FAIRLY COMMON. VOLC ROCK APPEARS TOWARDS

R SUM BOTTOM OF HOLE AS MS AND CR DECREASES, WITH INCREASING MAFIC FRA-

R SUM GMENTS.

R SUM PY CONTENT LESS THAN THAT IN AB PH001.

R SUM LITHOLOGY APPEARS SIMILAR TO ABPH001, HOWEVER OZ IS MUCH MORE

R SUM ABUNDANT (FORMING < 90% OF CUTTINGS. MAGNETITE IS ALSO MORE ABUND.

R SUM THAN IN ABPH001, AS WOULD BE EXPECTED WITH AN INCREASE IN QUARTZ

R SUM VEINING. TOTAL CUTTING ARE STRONGLY BLEACHED IN APPEARANCE

R SUM INDICATING STRONG OZ-MS ALT.

G E O L O G E D I T L I S T I N G

S Y S T E M S E N G I N E E R I N G B Y
I N T E R N A T I O N A L G E O S Y S T E M S C O R P .

S M D M I N I N G C O M P A N Y L T D
A N D R E W B A Y , P O R P H Y R Y , B . C .

F O R M A T V E R S I O N : 6 8 0 2

D R I L L H O L E / T R A V E R S E : A B P H 0 0 3 C O L L A R E L E V A T I O N : 1 0 1 3 . 0 0 A Z I M U T H (D E G) : 0 . 0 0 G E O L O G G E D B Y : D T C +
T O T A L D E P T H / L E N G T H : 7 6 . 2 0 N O R T H I N G (- I F S) : 1 1 0 4 . 0 0 V E R T I C A L A N G L E : - 8 5 . 0 0 D A T E (Y Y / M M / D D) : 8 0 0 7 1 9
C O R E / H O L E D I A M E T E R : 2 I N . E A S T I N G (- I F W) : 2 5 9 0 . 0 0 C O - O R D S Y S T E M : M A P P R O J E C T N U M B E R : 4 9 4 1

F - I N T E R V A L - C O R E T - X T Y P I - Q A L T E X - G R A I N T O T A L P G I S T R U C T U R - 1 A L T E R A T I O N M I N S O R E - T Y P E M I N S S U M M A R Y
K L (U N I T S = . D E C . P L A C E) R E C O V - M M R O C K F Y I N G M I N T U R E S C H A R A C S F R A C H H H H H H A N Y H H H A N Y A L T O R E
E A (M T = M E T R I C F T = F O O T R I C) E R Y O I T M T M M A T T X T X F C X M D E N / R I T I D S T K D I P A A A A A A M I N A A A M I N - - - -
Y G F R O M - T O - I N T (.) D X T Y P E 1 2 Q M 1 1 2 F F C A M I 1 A Z M R T Q Z B I C Y C B M G G Y P Y C P G L Y Y F I Z I

K F R O C K F M R T T M Q M 2 T X T X S R S O S T I D S T K D I P K F M U C L E P H E X X P R M O S L
E L Q U A L A G E E N - Q L C - 3 3 4 O N H / M 2 A Z M R T H H H H H H H H H H H 1 1
Y G D E S I G V I R C O L R D P C L S T R U C T U R - 2 A A A A A A A A A A A 2 2

/ 0 . 0 0 7 6 . 2 0 7 6 . 2 0 O V E R P
L D V B
R 7 6 . 2 0 7 6 . 2 0 E N D O F A B P H 0 0 3 A T 2 5 0 F T .
R S U M O V E R B U R D E N D E E P E R T H A N 2 5 0 F T . H A D T O A B A N D O N H O L E D U E T O C A V I N G
R S U M I N .
R S U M O V E R B U R D E N F R O M 0 T O 2 5 0 F T . N O C U T T I N G S
R S U M C A S I N G T O 4 0 F T .

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

8MD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION : 6802

DRILLHOLE/TRVERSE : ABPH004	COLLAR ELEVATION: 1012.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 67.06	NORTHING(- IF S): 1145.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800720
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 2373.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

F - I N T E R V A L -		CORE	T- %	TYPI- QAL	TEX-	GRAIN	TOTAL	PCI	STRUCTUR-1 ALTERATION MINS ORE-TYPE MINS SUMMARY																					
K L (UNITS = . DEC.PLACE)		RECOV-	M M	ROCK	FYING	MIN	TURES	CHARACS	FRAC																					
E A (MT=METRIC FT=FOOTRIC)		ERY	O I	TM	TM	MAT	TX	TX	F C	X M	DEN	/RI	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN	- - -			
Y G F R O M - T O - I N T (.)		D X	TYPE	1	2	QM1	1	2	F	F	C	A	MJ	1	AZM	RT	QZ	HI	CY	CB	MG	GY	PY	CP	GL	YY	F	I	Z	I
K F		ROCK	FM	RT	TM	QM2	TX	TX	S	R	S	O	S	T	ID	STK	DIP	KF	MU	CL	EP	NE	XX	PR	MO	SL				
E L		QUAL	AGE	EN- Q	LC- 3		3	4	D	N	H	/	M	2	AZM	RT	H	H	H	H	H	H	H	H	H	H	1	1		
Y G		DESIG	VIR	COL					R	D	P	C	L		STRUCTUR-2	A	A	A	A	A	A	A	A	A	A	A	2	2		

/	0.00	67.06	67.06	OVER	P
L OVR					
R	67.06	67.06		END OF PH004 AT 220 FT.	
R	64.01	67.06		OVERBURDEN DEEPER THAN 220 FT. ABANDON HOLE DUE TO CAVING IN.	
R SUM				NO CUTTINGS FOR ASSAY OR MICROSCOPIC EXAMINATION	
R SUM				CASING TO 30 FT.	

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION : 6802

DRILLHOLE/TRVERSE : ABPH005	COLLAR ELEVATION: 1013.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 64.01	NORTHING(- IF S): 1155.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800722
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 2190.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

R HED END OF AB PH-005 AT 210 FT.

R HED CASING TO 100FT.

R HED OVERBURDEN BEYOND 220 FT. ABANDON HOLE BECAUSE NO DRILLING FLUID

R HED IS RETURNING TO SURFACE.

R HED NO CUTTINGS FOR ASSAY OR MICROSCOPIC EXAMINATION

F - I N T E R V A L -		CORE	T- X	TYP1=	QAL	TEX=	GRAIN	TOTAL	PGI	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS	SUMMARY										
K L (UNITS =	. DEC.PLACE)	RECOV-	M M	ROCK	FYING	MIN	TURES	CHARACS	FRAC		H H H H H	ANY	H H H	ANY	ALT ORE										
F A (MT=METRIC	FT=FOOTRIC)	ERY	O I		TM	TM	MAT	TX	TX	F C	%	M	DEN	/RI	T										
Y G F R O M - T O - I N T (.)	D X	TYPE	1	2	Q M 1	1	2	F F C A	M I	1	A Z M	R T	Q Z	B I	C Y	C B	M G	G Y	P Y	C P	G L	Y Y	F I	Z I	
K F		ROCK	FM	RT	TM	QM2	TX	TX	S R S O S		T	ID	STK	DIP	K F	M U	C L	E P	H E	X X	P R	M O	S L		
E L		QUAL	AGE	EN- Q	LC- 3		3	4	O N H / M		2	A Z M	R T	H H	H H	H H	H H	H H	H H	H H	H H	H H	1	1	
Y G		DESIG	VIR	COL					R D P C L		STRUCTUR-2	A	A	A	A	A	A	A	A	A	A	A	A	2	2

/ 0.00 64.01 64.01 OVER P

L QVB

DRILLHOLE/TRVERSE --- ABPH006 --- (CONTINUED)

A	UIMM			PM	CU	PM	MO	
A	LAB			MIN-EN		MIN-EN		
A	TYP			PH-CUT		PH-CUT		
A	MTH			PCL-AA		PCL-AA		
A	002	70.10	73.15	47	13		2	15
A	002	73.15	76.20	48	11		4	15
A	002	76.20	79.25	49	9		4	13
A	002	79.25	82.30	50	10		2	12
A	002	82.30	85.34	51	14		2	16
A	002	85.34	85.95	52	14		2	16

R SUM CHIPS DO NOT ALLOW POSITIVE ID. OF LITHOLOGY.

R SUM VOLC REFERS TO DARK GREY TO MAROON VOLCANIC ROCKS WITH STRONG

R SUM CHLORITIZATION.

R SUM MODERATE AMOUNT OF PPFL GRAINS APPEARS TOWARDS BOTTOM OF HOLE.

R SUM LIMONITE COATINGS ON QZ VEINS ARE COMMON

R SUM VOLC GRAINS ARE COMMONLY ROUNDED SUGGESTING VOLCANIC-CLASTIC OR-

R SUM IGIN

R SUM HOLE ABANDON AT 262 FT. AS DRILLING RODS SEEM TO BE WEDGED OR

R SUM ANGLED.

G E O L O G

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.
 DRILLHOLE/TRVERSE --- ABPH007 --- (CONTINUED)

K E Y	F L G	FROM	- TO -	J N T	RECOV	MD %	ROCK	TM	TM	QM1	TX	TX	F	C	%	M	TFDM	RI	1	ID	AZM	DIP	QZ	BI	CY	CB	MG	GY	PY	CP	GL	YY	F	I	Z	I	
		R O D			AGE	EV	RD	LC	TM	QM2	TX	TX	S	R	S	O	SHL	2		ID	AZM	DIP	KF	MU	CL	FP	HE	XX	PR	MO	SL						
/	L	82.30	85.34	3.04			VOLC		8A				1	4	4			P				6M			PL	M	L	VT			LI	5M					
																						EM	T	T												CT	
/	L	85.34	88.39	3.05			VOLC		8A				1	4	5			P				6B			PF	M	T	VT			LI	5B					
																						VL	EB	T	T	T										CT	
/	L	88.39	91.44	3.05			UNKN		8A				1	4	4			P				6A			PL	M	T	VT			LI	5A					
																						EA	T	T	T											CL	
R		88.39	91.44				ABUNDANT QZ-MU WITH MG XL.																														
/	L	91.44	94.49	3.05			UNKN		8A				1	4	4			P				6A			PL	M	L	VT			LI	5M					
																						VM	EM				DF									CT	
/	L	94.49	97.54	3.05			VOLC		8A									P				6M			PL	A	L	VT			LI	5B					
																						VM	EB	T		F										CT	
/	L	97.54	100.58	3.04			VOLC		8A									P				6M			PF	M	L	VT			LI	5M					
																						EM	L			L											CL
R		100.58	100.58				END OF AB PH007 AT 330 FT.																														

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

G E O L O G

DRILLHOLE/TRVERSE --- ABPH007 --- (CONTINUED)

A IMM			PM CU	PM MO	
A LAB			MIN-EN	MIN-EN	
A TYP			PH-CUT	PH-CUT	
A MTH			PCL-AA	PCL-AA	
A 002	57.91	60.96	53	20	2
A 002	60.96	64.01	54	19	3
A 002	64.01	67.06	55	16	3
A 002	67.06	70.10	56	15	2
A 002	70.10	73.15	57	16	4
A 002	73.15	76.20	58	16	2
A 002	76.20	79.25	59	12	2
A 002	79.25	82.30	60	13	2
A 002	82.30	85.34	61	12	2
A 002	85.34	88.39	62	16	3
A 002	88.39	91.44	63	20	4
A 002	91.44	94.49	64	35	2
A 002	94.49	97.54	65	39	2
A 002	97.54	100.58	66	38	2

R SUM NO CUTTINGS FOR ASSAY

R SUM VOLC REFERS TO DK, GREEN TO RED COLOURED CHLORITIZED VOLCANIC

R SUM ROCK WITH FX,MAFIC,AND QZ PHENO.

R SUM MG XL. ARE COMMON FROM 190 TO 270 FT.,ASSOCIATED WITH QZ VEINS

R SUM HE CONTENT INCREASES FROM 280 FT. TOWARDS BOTTOM OF HOLE ,COMM-

R SUM NLY ASSOCIATED WITH QZ VEINS.MG IS MUCH MORE ABUNDANT THAN IN

R SUM PREVIOUS HOLES.

R SUM HETEROGENEOUS NATURE OF ROCK FRAGMENTS AND LOCAL ROUNDING OF

R SUM GRAINS SUGGESTS ROCK MAY IN PART BE VOLCANICLASTIC IN ORIGIN.

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW HAY, PORPHYRY, B.C.

FORMAT VERSION : 6B02

DRILLHOLE/TRVERSE : ABPH008	COLLAR ELEVATION: 1006.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTM +
TOTAL DEPTH/LENGTH : 100.58	NORTHING(- IF S): 1530.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800727
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 1736.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

R HED END OF AB PH008 AT 330 FT. NO BED ROCK ENCOUNTERED

R HED OVERBURDEN BEYOND 330 FT.

R HED NO CUTTINGS FOR ASSAY OR MICROSCOPIC EXAMINATION.

R HED CASING TO 20 FT.

F	- I N T E R V A L -	CORE	T- %	TYPI-	QAL	TEX-	GRAIN	TOTAL	PGI	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS	SUMMARY
K	L (UNITS = . DEC.PLACE)	RECOV-	M M	ROCK	FYJNG	MIN	TURES	CHARACS	FRAC		H	H	H	H	ANY
F	A (MT=METRIC FT=FOOTRIC)	ERY	Q I	TM	TM	MAT	TX	TX	F C X M	DEN	/RI	T	ID	STK	DIP
Y	G F R O M - T O - I N T (.)	Q X	TYPE	1	2	QM1	1	2	F F C A	MI	1	AZM	RT	QZ	BI
K	F	ROCK	FM	RT	TM	QM2	TX	TX	S	S	S	T	ID	STK	DIP
E	L	QUAL	AGE	EN-	Q	LC-	3	3	4	D	N	/	M	2	AZM
Y	G	DESIG	VIR	COL					R	D	P	C	L	STRUCTUR-2	A

/	0.00	100.58	100.58	OVER	P
L	DVB				

K F Y	F R O M	T O	I N T R O D U C E D	R E C O V E R Y	M D % R O C K A G E	T M R O C K L C	T M Q M 1 Q M 2	T X S	T X S	F C S	% M S O	T F D M S M L	R I	1 I D	A Z M	D I P	Q Z	B I M U	C Y C L E	C R E P E	M G H E	G Y X X	P Y P R	C P M O	G L S L	Y Y	F I Z I
/	45.72	48.77	3.05		MTSB								P				7B		L	P	L		T			LI	4B
L						6A												EB		T	T					CT	
/	48.77	51.82	3.05		MTSB								P				6M		L	P	T		T			LI	4M
L						6A												EM		T						CT	
R	48.77	51.82		4 KF GRAINS																							
/	51.82	54.86	3.04		MTSB								P				6M		L	P	B	F		DL		LI	4M
L						6A												EM		B						CF	
P	51.82	54.86		PY-D IN MTSB																							
/	54.86	57.91	3.05		MTSB								P				6M		T	PL			T			LI	4B
L						6A												EB		B						CT	
/	57.91	60.96	3.05		MTSB								P				6M			P	B	B	T				4M
L						6A												EM		B							
/	60.96	64.01	3.05		UNKN								P				5M			P	B	H		VL		LI	4M
L						6A												EB		M				T		CL	
R	60.96	64.01		2 GRAINS OF VOLC ? DISSEMINATED MO IN QZ VEIN																							
/	64.01	67.06	3.05		MTSB								P				5M			P	B	H		VL		LI	4M
L						6A												EB		A						CM	
R	64.01	67.06		3 GRAINS OF LI COATED QZIT ?																							
/	67.06	70.10	3.04		UNKN								P				5A			P	L	L					4B
L						6A												EL		A							
R	67.06	70.10		ABUNDANT QZ VEINS AND MU ENVELOPES WITH CL																							
/	70.10	73.15	3.05		VOLC								P				5M			P	L	H		VL			4M
L						6A												EL		A							
R	70.10	73.15		DARK GREEN AND RED COLOURED VOLC FRAG.																							
/	73.15	76.20	3.05		UNKN								P				5B			P	L	A				LI	4B
L						7A												EL		M	T					CF	
R	73.15	76.20		HETEROGENOUS COMPOSITION:MTSB AND VOLC GRAINS																							
/	76.20	79.25	3.05		UNKN								P				5A			P	L	H				LI	4M
L						7A												EM		A	T					CT	
R	76.20	79.25		MOSTLY QZ-MU-CL GRAINS																							
/	79.25	82.30	3.05		VOLC								P				5M			P	T	B		T		LI	4M
L						7A												EB		A	L					CL	
R	79.25	82.30		RED AND DARK GREEN COLOURED VOLC GRAINS ARE VERR COMMON																							
/	82.30	85.34	3.04		METB								P				5B			P	L	B	T	VL			4B
L						6A												EB		L							
R	82.30	85.34		DISSEMINATED RY IN METB GRAINS																							
/	85.34	88.39	3.05		UNKN								P				5M			P	L	M	T	VL			4M
L						6A												EM		R							

SMD MINING COMPANY LTD
 ANDREW RAY, PORPHYRY, B.C.

G E O L O G

DRILLHOLE/TRVERSE --- ABPH009 --- (CONTINUED)

A IIMM				PM CU	PM MO	
A LAB				MIN-EN	MIN-EN	
A TYP				PH-CUT	PH-CUT	
A MTH				PCL-AA	PCL-AA	
A 002	19.20	21.34				
A 002	21.34	24.38	67	15	3	18
A 002	24.38	27.43	68	12	2	14
A 002	27.43	30.48	69	16	4	20
A 002	30.48	33.53	70	15	3	18
A 002	33.53	36.58	71	14	2	16
A 002	36.58	39.62	72	12	4	16
A 002	39.62	42.67	73	14	2	16
A 002	42.67	45.72	74	15	2	17
A 002	45.72	48.77	75	13	3	16
A 002	48.77	51.82	76	15	3	18
A 002	51.82	54.86	77	14	2	16
A 002	54.86	57.91	78	14	4	18
A 002	57.91	60.96	79	18	3	21
A 002	60.96	64.01	80	15	2	17
A 002	64.01	67.06	81	14	4	18
A 002	67.06	70.10	82	14	3	17
A 002	70.10	73.15	83	16	5	21
A 002	73.15	76.20	84	16	2	18
A 002	76.20	79.25	85	16	3	19
A 002	79.25	82.30	86	18	3	21
A 002	82.30	85.34	87	16	2	18
A 002	85.34	88.39	88	13	4	17
A 002	88.39	91.44	89	12	5	17
A 002	91.44	94.49	90	14	4	18
A 002	94.49	97.54	91	19	3	22
A 002	97.54	100.58	92	38	36	74

R SUM MTSB REFERS TO GREY TO MEDIUM GREY COLOURER ARGILLACEOUS META-SEDIMENTS. KF COMMONLY ASSOCIATED WITH FINE-GRAINED QZ MATRIX.

R SUM QZ-MU ALTERNATION IS NOT VERY PROMINENT, BLEACHING OF CUTTINGS ARE VERY WEAK.

R SUM MG IS FAIRLY ABUNDANT, PY CONTENT IS LOW (SIMILAR TO THAT OF ABPH 002).

R SUM HETEROGENEOUS LITHOLOGY, CONSISTING GRAINS OF VOLC AND MTSB.

R SUM HOMOGENEOUS LITHOLOGY (MTSD) EXCEPT FROM 200 TO 270 FT.

R SUM HIGH CL CONTENT FROM 200 TO 270 FT. ASSO. WITH HIGHER QZ-MU ALTERNATION.

G E O L O G

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.
 DRILLHOLE/TRVERSE --- ABPH010 --- (CONTINUED)

PAGE - 3

A UMM				PM CU	PM MO	
A LAR				MIN-FN	MIN-FN	
A TYP				PH-CUT	PH-CUT	
A MTH				PCL-AA	PCL-AA	
A 002	52.43	54.86	93	18	2	20
A 002	54.86	57.91	94	20	4	24
A 002	57.91	60.96	95	22	4	26
A 002	60.96	64.01	96	18	4	22
A 002	64.01	67.06	97	19	4	23
A 002	67.06	70.10	98	18	3	21
A 002	70.10	73.15	99	19	4	23
A 002	73.15	76.20	100	18	3	21
A 002	76.20	79.25	101	20	2	22
A 002	79.25	82.30	102	19	3	22
A 002	82.30	85.34	103	19	3	22
A 002	85.34	88.39	104	20	4	24
A 002	88.39	91.44	105	15	3	18
A 002	91.44	94.49	106	20	4	24
A 002	94.49	97.54	107	18	2	20
A 002	97.54	100.58	108	19	4	23

SMD MINING COMPANY LTD
 ANDREW BAY PORPHYRY, B.C.

G E O L O G

DRILLHOLE/TRVERSE --- ABPH011 --- (CONTINUED)

A UHM				PM CU	PM MU
A LAB				MIN-EN	MIN-EN
A TYP				PH-CUT	PH-CUT
A MTH				PCL-AA	PCL-AA

A 002	57.91	60.96	109	275	6	281
-------	-------	-------	-----	-----	---	-----

R SUM END OF HOLE AT 205 FT. ,ARANDON HOLE DUE TO LOST OF CIRCULATION

R SUM QZ-MU ACCOUNTS FOR OVER 75% OF CUTTINGS,WITH HIGH MG CONTENT,

R SUM PY IS ASSO. WITH QZ VEINS. NOT ENOUGH INFORMATION FOR ID. OF LI-

R SUM THOLOGY.

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.
 DRILLHOLE/TRVERSE --- ABPH012 --- (CONTINUED)

G E O L O G

A UMM				PM CU	PM MO
A LAB				MIN-EN	MIN-EN
A TYP				PH-CUT	PH-CUT
A MTH				PCL-AA	PCL-AA

A 002	76.20	79.25	110	41	10	
A 002	79.25	82.30	111	165	18	51 183

R SUM END OF HOLE AT 270 FT. ,DRILLING RODS WOULD NOT TURN.

R SUM VOLC WITH FX AND QZ PHENO.MINOR HORN, QZ-MU-PY VFRY ABUNDANT AND

R SUM INCREASES TOWARD BOTTOM OF HOLE.

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION : 6R02

DRILLHOLE/TRVERSE : ABPH013
TOTAL DEPTH/LENGTH : 76.20
CORE/HOLE DIAMETER :

COLLAR ELEVATION: 1027.00
NORTHING(- IF S): 1512.00
EASTING (- IF W): 2570.00

AZIMUTH(DEG) : 0.00
VERTICAL ANGLE : -90.00
CO-ORD SYSTEM : MAP

GEOLOGGED BY : +
DATE (YY/MM/DD): 800800
PROJECT NUMBER : 4941

F	- I N T E R V A L -	CORE	T- X	TYP I - QAL	TEX -	GRAIN	TOTAL	PGI	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS	SUMMARY
K L	(UNITS = . DEC.PLACE)	RECOV-	M M	ROCK	F Y I N G	M I N	T U R E S	C H A R A C S	F R A C	H H H H	H H H H	A A A A	A A A A	A L T O R E
E A	(MT=METRIC FT=FOOTRIC)	ERY	O I		T M T M	M A T	T X T X	F C %	M D F N	/R I	T I D	S T K	D I P	A A A A
Y G	F R O M - T O - I N T (. .)	D X	T Y P E	1 2	Q M I	1 2	F F C A	M I	1	A Z M	R T	Q Z	B I	C Y
K F		ROCK	F M	R T	T M	Q M P	T X T X	S R S O S		T I D	S T K	D I P	K F	M U
E L		QUAL	AGE	EN- Q	LC- 3	3	4	D N H / M		2	A Z M	R T	H H	H H
Y G		DESIG	V I R	C O L		R D	P C	L		STRUCTUR-2	A A A A	A A A A	A A A A	A A A A

/	L	0.00	46.63	46.63		OVER				P										
R		0.00	46.63			NO SAMPLE FOR ASSAY														
/	L	46.63	48.77	2.14		VOLC				P		5M		PA	H	T	VA		LI	M
							6A					EM	F	T					CL	
/	L	48.77	51.82	3.05		VOLC				P		5A		PM	H		VM		LI	A
R		48.77	51.82			2 GRAINS OF PPF X AND GRAINS OF PINK-COLOURER KF							EA	L	T				CL	
/	L	51.82	54.86	3.04		VOLC				P		6A		PM	H		VA			A
							7A						EA	B						
/	L	54.86	57.91	3.05		VOLC				P		5M		PB	H		VA			M
							7A						EB	F						
/	L	57.91	60.96	3.05		VOLC				P		5M		PR	H		VA		LI	B
R		57.91	60.96			5 GRAINS OF HORN ,FEW KF PHENO?							EB						CT	
/	L	60.96	64.01	3.05		VOLC				P		5M		PA	H		VM		LI	M
							7A						EA	T					CH	
/	L	64.01	67.06	3.05		VOLC				P		5M		PA	H		VA			M
R		64.01	67.06			KF PHENO WITH CL-Q							EB	T						
/	L	67.06	70.10	3.04		VOLC				P		5M		PA	H		VM		LI	B
							6A						EB						CL	
/	L	70.10	73.15	3.05		VOLC				P		6A		PM	V	F	VA		LI	A
							6A						EM	L	T				CL	

G E O L O G

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.
DRILLHOLE/TRAVERSE --- ABPH013 --- (CONTINUED)

K F FROM - TD - INT	RECIV	MD X	ROCK	TM	YM	GM1	TX	TX	F	C	X	M	TFDM	RI	1	ID	AZM	DIP	OZ	BI	CY	CB	MG	GY	PY	CP	GL	YY	F	I	Z	I	
E -L-	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Y G																																	

/	73.15	76.20	3.05																																	
L																																				
R	73.15	76.20																																		

VOLC

P

6A

PA

V

VA

LI

A

6A

EA T

CT

FEW KF PHENO

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, R.C.

G E O L O G

DRILLHOLE/TRVERSE --- ARPH013 --- (CONTINUED)

A UMM				PM CU	PM MD	
A LAB				MIN-EN	MIN-EN	
A TYP				PH-CUT	PH-CUT	
A MTR				PCL-AA	PCL-AA	
A 002	46.63	48.77	112	154	17	171
A 002	48.77	51.82	113	59	6	65
A 002	51.82	54.86	114	103	6	109
A 002	54.86	57.91	115	139	15	154
A 002	57.91	60.96	116	124	14	138
A 002	60.96	64.01	117	116	15	131
A 002	64.01	67.06	118	105	7	112
A 002	67.06	70.10	119	146	8	154
A 002	70.10	73.15	120	210	16	226
A 002	73.15	76.20	121	150	10	160

R SUM ABUNDANT PY-D,V IN BOTH THE QZ-MU AND VOLC FRAG,AMOUNT COMPARABL

R SUM TO THAT IN AR PH001.

R SUM MG-U ALSO ABUNDANT IN QZ-V

R SUM VOLC ARE GREY TO DK. GREEN,MODERATELY SERICITIZED .

R SUM ORIGINAL KF GRAINS (PHENO?) SUGGEST KF-STABLE ALTER. (4A)?

R SUM ALTER. MINERAL ASSEMBLAGE CL-MU-QZ-MG-PY

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION : 6802

DRILLHOLE/TRVERSE : ABPH014	COLLAR ELEVATION: 1010.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 100.58	NORTHING(- IF S): 1490.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800803
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 2965.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

F - I N T E R V A L -		CORE T- X		TYPJ- DAL		TEX- GRAIN TOTAL		PGI		STRUCTUR-1		ALTERATION MINS		ORE-TYPE MINS		SUMMARY							
K L (UNITS = . DEC.PLACE)	RECOV- M M	ROCK	FYING MIN	TURES	CHARACS	FRAC				ID	STK	DIP	H H H H H	H ANY	H H H ANY	ALT	ORE						
E A (MT=METRIC FT=FOOTRIC)	ERY O I		TM TM	MAT TX TX	F C % M	DEN	/RI	T					A A A A A	A MIN	A A A MIN	- - -	-						
Y G F R O M - T O - I N T (.)	D X	TYPE	1 2	OM1	1 2	F F C A	MI		1	AZM	RT		QZ BI	CY	CB	MG	GY	PY	CP	GL	YY	F I Z I	
K F		ROCK	FM	RT	TM	OM2	TX	TX	S	R	S	O	S										
E L		QUAL	AGE	EN- Q	LC- 3		3	4	O	N	H	/	M										
Y G		DESIG		VIR	COL				R	O	P	C	L										
													STRUCTUR-2	A	A	A	A	A	A	A	A	A	2 2

/	0.00	17.37	17.37		OVER																		
L																							
R	0.00	17.37			20 FT. CASING																		
/	17.37	18.29	0.92		UNKN								6B		T	V	F	T				LI 8B	
L						8A							EF	M								CT	
R	17.37	18.29			NO CUTTINGS FOR ASSAY																		
/	18.29	21.34	3.05		UNKN								6M		PF	UH	T	L				8B	
L						8A							F	EB	A	T							
/	21.34	24.38	3.04		VOLC								6A		M	PB	UH		VF			LI 8A	
L						8A							B	EB								CF	
R	21.34	24.38			SEVERAL GRAINS OF HORN?																		
/	24.38	27.43	3.05		VOLC								5A		PB	H		T				LI 8M	
L						8A							B	EB	M	T						CF	
R	24.38	27.43			2 GRAINS RED COLOURED VOLC																		
/	27.43	30.48	3.05		UNKN								5A		PM	V	B					LI 8A	
L						8A							R	FM	M							CB	
/	30.48	33.53	3.05		UNKN								6A		PA	V	L					8A	
L						8A							M	EM	A								
/	33.53	36.58	3.05		UNKN								6H		PA	UA	T	T				5H	
L						9A							EA	M									
R	33.53	36.58			OVER 95% QZ-MU-CL VEINS+AND ENVELOPES																		
/	36.58	39.62	3.04		UNKN								6H		PM	UH	T	L				5M	
L						9A							EM	R									

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

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G E O L O G

DRILLHOLE/TRVERSE --- ABPH014 --- (CONTINUED)

A IJMI				PM CU	PM MO	
A LAB				MIN-EN	MIN-EN	
A TYP				PH-CUT	PH-CUT	
A MTH				PCL-AA	PCL-AA	
A 002	18.29	21.34	122	24	6	30
A 002	21.34	24.38	123	13	4	17
A 002	24.38	27.43	124	15	8	23
A 002	27.43	30.48	125	24	4	28
A 002	30.48	33.53	126	29	5	34
A 002	33.53	36.58	127	27	6	33
A 002	36.58	39.62	128	18	6	24
A 002	39.62	42.67	129	21	7	28
A 002	42.67	45.72	130	15	6	21
A 002	45.72	48.77	131	21	6	27
A 002	48.77	51.82	132	17	6	23
A 002	51.82	54.86	133	19	4	23
A 002	54.86	57.91	134	19	6	25
A 002	57.91	60.96	135	28	4	32
A 002	60.96	64.01	136	21	5	26
A 002	64.01	67.06	137	19	6	25
A 002	67.06	70.10	138	23	7	30
A 002	70.10	73.15	139	24	4	28
A 002	73.15	76.20	140	23	6	29
A 002	76.20	79.25	141	22	6	24
A 002	79.25	82.30	142	17	5	22
A 002	82.30	85.34	143	18	5	23
A 002	85.34	88.39	144	16	6	22
A 002	88.39	91.44	145	20	7	27
A 002	91.44	94.49	146	15	5	20
A 002	94.49	97.54	147	25	8	33
A 002	97.54	100.58	148	17	4	21

R SUM QZ-CL-KF-MU OVER 90% OF CUTTINGS WITH MG-U AND MINOR PY-D-V , IN
R SUM HORN OR VOLC HOST
R SUM MOSTLY QZ-MU-CL VEINS AND ENVELOPES ,CHLORITIZED VOLC ARE EXTREM
R SUM ELY RARE.
R SUM AMOUNT OF VOLC FRAG. INCREASES TOWARDS BOTTOM OF HOLE WITH DECR-
R SUM EASING AMOUNT OF QZ VEINS.
R SUM NO COARSE CUTTINGS FOR POSITIVE ID. OF LITHOLOGY.
R SUM VOLC REFERS TO DK. GREY COLOURER MODERATELY CHLORITIZED FRAG.
R SUM (VERY F-GRAINED) WITH NO APPARENT STRUCTURES OR PHENO.
R SUM MG-U-V CONTENT IS EXTREMELY HIGH (HIGHER THAN ANY PREVIOUS HOLE)
R SUM AS EXPECTED WITH ABUNDANT QZ-V.
R SUM CHLORIC-POTASSIC ALTER.(8A) IS MEDIUM TO ABOVE MEDIUM FROM 57 TO

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.
DRILLHOLE/TRVERSE --- ABPH014 --- (CONTINUED)

G E O L O G

R SUM 110 FT.

R SUM PHYLIC ALTER.(SH) IS MEDIUM TO HIGH FROM 110 TO 250 FT.

R SUM PHYLIC ALTER.(SM) IS MEDIUM TO BELOW MEDIUM FROM 250 TO 330 FT.

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION : 6802

DRILLHOLE/TRaverse : ABPH015	COLLAR ELEVATION: 1027.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 100.58	NORTHING(- IF S): 1505.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800804
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 2726.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

F	INTERVAL		CORE	T- %	TYPI- QAL	TEX- GRAIN	TOTAL	PGI	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS	SUMMARY					
	L (UNITS = . DEC.PLACE)	RECOV- M M													ROCK	FYING MIN	TURES	CHARACS	FRAC
E A	(MT=METRIC FT=FOOTRIC)	ERY	D I	TM TM	MAT TX TX	F C % M DEN	/RT T	ID STK DIP	A A A A A	MIN A A A	MIN	- - -	- - -	- - -					
Y G	F R O M - T O - I N T (.)	D X	T X P E	1 2	Q M 1	1 2	F F C A	M J	1	A Z M R T	Q Z R I	C Y C B	M G G Y	P Y C P	G L Y Y	F I Z I			
K F		ROCK	F M	RT	TM QM2	T X T X	S R S O S		T	ID STK DIP	K F	M U	C L	F P	H E	X X	P R	M O	S L
E L		QUAL	AGE	EN- Q	LC- 3	3 4	D N H / M		2	A Z M R T	H H H H	H H H H	H H H H	H H H H					
Y G		DESIG	VIR	COL			R D P C L			STRUCTUR-2	A A A A	A A A A	A A A A	A A A A	2	2			

/	0.00	50.29	50.29		OVER			P											
L	0.00	50.29			NO CUTTINGS														
R	50.29	51.82	1.53		UNKN			P	4M			PT	V	BR	VM				5B
/	50.29	51.82			ABUNDANT BLACK HORN FRAG.?							EF	T						
L	51.82	54.86	3.04		VOLC			P	5A			PF	V	B	VA				5M
R	54.86	57.91	3.05		VOLC			P	5A			EM	B	T					
/	54.86	57.91			BLACK-COLOURED VOLC WITH A FEW RED VLCC FRAG.							EM	M						
L	57.91	60.96	3.05		UNKN			P	7A			PL	V	V	H				5A
R	60.96	64.01	3.05		VLCC			P	6H			EM	F		VH				5A
/	60.96	64.01			HETEROGENEOUS LITHOLOGY, RED, DK, GREEN, BLACK-COLOURED VOLC														
L	64.01	67.06	3.05		VOLC			P	6H			PT	M		VH				5M
R	67.06	70.10	3.04		VOLC			P	6H			FB	F	F					
/	67.06	70.10			A FEW KF FRAG. WITH CL-U														
L	70.10	73.15	3.05		VOLC			P	6H			EA	F	T	T				5A
R												EM	F						5M

G E O L O G

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.
DRILLHOLE/TRVERSE --- ABPH015 --- (CONTINUED)

PAGE - 3

A UMM				PM CU	PM MO	
A LAB				MIN-EN	MIN-EN	
A TYP				PH-CUT	PH-CUT	
A MTH				PCL-AA	PCL-AA	
A 002	50.29	51.82	149	63	6	69
A 002	51.82	54.86	150	59	6	68
A 002	54.86	57.91	151	51	5	56
A 002	57.91	60.96	152	53	8	61
A 002	60.96	64.01	153	49	4	53
A 002	64.01	67.06	154	44	8	52
A 002	67.06	70.10	155	49	11	60
A 002	70.10	73.15	156	62	6	68
A 002	73.15	76.20	157	84	5	89
A 002	76.20	79.25	158	70	6	76
A 002	79.25	82.30	159	59	6	65
A 002	82.30	85.34	160	75	8	83
A 002	85.34	88.39	161	69	7	76
A 002	88.39	91.44	162	59	6	65
A 002	91.44	94.49	163	87	6	93
A 002	94.49	97.54	164	74	5	79
A 002	97.54	100.58	165	157	18	175

R SUM HETEROGENEOUS LITHOLOGY ,VOLC INCLUDES BLACK, MAROON, AND DK. GREEN

R SUM COLOURED F-GRAINED FRAG. ROCK APPEARS FAIRLY FRESH WITH LITTLE

R SUM CHLORITIZATION VLCC FRAG. APPEARS IN SMALL AMOUNT.

R SUM MG-U-O IS ABUNDANT FROM 165 TO 200 FT., THEN DECREASES TOWARDS

R SUM BOTTOM OF HOLE.

R SUM PY-V-U IS VERY ABUNDANT FROM 200 TO 330 FT. , AMOUNT COMPARABLE

R SUM TO THAT OF AB-PH001 .PY IS ASSOCIATED WITH QZ-V COMMONLY WITH

R SUM MU-E.

R SUM PROBABLY PHYLLIC ALTER. (SM) QZ-MU-PY-MG ASSEMBLAGE , PY>MG

R SUM QZ IS USUALLY FINE-GRAINED

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.

G F U L D G

DRILLHOLE/TRVERSE --- ABPH016 --- (CONTINUED)

A UMM			PM CU	PM MO		
A LAR			MIN-EN	MIN-EN		
A TYP			PH-CUT	PH-CUT		
A MTH			PCL-AA	PCL-AA		
A 002	2.74	6.10	166	315	62	377
A 002	6.10	9.14	167	425	60	485
A 002	9.14	12.19	168	290	66	356
A 002	12.19	15.24	169	470	195	665
A 002	15.24	18.29	170	595	67	662
A 002	18.29	21.34	171	440	96	536
A 002	21.34	24.38	172	610	72	682
A 002	24.38	27.43	173	490	54	544
A 002	27.43	30.48	174	585	73	658
A 002	30.48	33.53	175	510	28	538
A 002	33.53	36.58	176	315	20	335
A 002	36.58	39.62	177	340	25	365
A 002	39.62	42.67	178	670	22	692
A 002	42.67	45.72	179	895	195	1090
A 002	45.72	48.77	180	730	110	840
A 002	48.77	51.82	181	600	106	706
A 002	51.82	54.86	182	260	280	540
A 002	54.86	57.91	183	187	54	241
A 002	57.91	60.96	184	195	280	475
A 002	60.96	64.01	185	380	130	510
A 002	64.01	67.06	186	360	75	435
A 002	67.06	70.10	187	300	60	360
A 002	70.10	73.15	188	375	179	554

R SUM QZ-MO-PY VEINS >95% OF CUTTINGS, RED ROCK PROBABLY LOST THROUGH

R SUM DRILLING FLUID .

R SUM ABUNDANT PY-D-V ,TRACE OF MG FROM 20 TO 60 FT.

R SUM TRACE OF MO-D IN QZ-V FROM 20 TO 60 FT.

R SUM MG-U-V HIGH TO VERY HIGH FROM 60 TO 130 FT.

R SUM CB-V IS THE MAIN LITHOLOGY WITH QZ-V FROM 150 TO 200 FT., NO

R SUM VISIBLE HOST ROCK.

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.

G E O L O G

DRILLHOLE/TRVERSE --- ABPH017 --- (CONTINUED)

A UMM				PM CU	PM MO	
A LAB				MIN-EN	MIN-EN	
A TYP				PH-CUT	PH-CUT	
A MTH				PCL-AA	PCL-AA	
A 002	26.82	27.43	189	520	27	547
A 002	27.43	30.48	190	460	50	510
A 002	30.48	33.53	191	515	52	567
A 002	33.53	36.58	192	650	45	695
A 002	36.58	39.62	193	595	36	631
A 002	39.62	42.67	194	850	31	881
A 002	42.67	45.72	195	1200	38	1238
A 002	45.72	48.77	196	1010	89	1099
A 002	48.77	51.82	197	990	48	1038
A 002	51.82	54.86	198	950	39	989
A 002	54.86	57.91	199	675	40	715
A 002	57.91	60.96	200	740	47	787
A 002	60.96	64.01	201	525	24	549
A 002	64.01	67.06	202	615	62	677
A 002	67.06	70.10	203	1170	145	1315
A 002	70.10	73.15	204	800	43	843
A 002	73.15	76.20	205	760	56	816
A 002	76.20	79.25	206	600	82	682
A 002	79.25	82.30	207	555	34	589
A 002	82.30	85.34	208	680	40	720
A 002	85.34	88.39	209	770	43	813
A 002	88.39	91.44	210	750	65	815
A 002	91.44	94.49	211	520	56	576
A 002	94.49	97.54	212	630	44	674
A 002	97.54	100.58	213	500	28	528

R SUM PPFQ AND PFEL REFERS TO FRAGS OF WHITE AND PINK COLOURED KF,PF

R SUM PHEND. WITH MINOR QZ-PHEND.

R SUM QZ-MU VEINS AND ENVELOPES ARE MINOR,DEGREE OF ALTER. IS MUCH LOWER THAN PERVIOUS HOLES.

R SUM BI-U PLATES APPEARS FAIRLY FRESH ,ASSO. WITH KF PHEND?

R SUM PY-V-D EXTREMELY ABUNDANT IN QZ-V,AMOUNT COMPARABLE TO THAT OF

R SUM AB-PH001

A UMM				PM CU	PM MD	
A LAB				MIN-EN	MIN-EN	
A TYP				PH-CUT	PH-CUT	
A MTH				PCL-AA	PCL-AA	
A 002	17.37	18.29	214	38	2	40
A 002	18.29	21.34	215	49	3	52
A 002	21.34	24.38	216	52	2	54
A 002	24.38	27.43	217	53	1	56
A 002	27.43	30.48	218	51	6	57
A 002	30.48	33.53	219	27	5	32
A 002	33.53	36.58	220	36	4	40
A 002	36.58	39.62	221	43	8	51
A 002	39.62	42.67	222	46	5	51
A 002	42.67	45.72	223	52	8	60
A 002	45.72	48.77	224	107	14	121
A 002	48.77	51.82	225	122	6	128
A 002	51.82	54.86	226	77	6	83
A 002	54.86	57.91	227	58	4	62
A 002	57.91	60.96	228	51	5	56
A 002	60.96	64.01	229	49	9	58
A 002	64.01	67.06	230	28	8	36
A 002	67.06	70.10	231	27	6	33
A 002	70.10	73.15	232	21	5	26
A 002	73.15	76.20	233	19	9	28
A 002	76.20	79.25	234	24	6	30
A 002	79.25	82.30	235	19	6	25
A 002	82.30	85.34	236	45	7	52
A 002	85.34	88.39	237	33	5	38
A 002	88.39	91.44	238	25	8	33
A 002	91.44	94.49	239	33	7	40
A 002	94.49	97.54	240	31	5	36
A 002	97.54	100.58	241	30	8	38

R SUM MODERATELY BLEACHED KF-QZ-(MU) FINE-GRAINED MATRIX MAT. OF PPFL
OR PPFQ? TRACE OF KF,PF,QZ PHENO.

R SUM ABUNDANT CONTAMINATION BY CAVE-IN FRAG. CANNOT ID. LITHOLOGY

R SUM COARSE CUTTINGS ARE CAVE-IN MAT.

R SUM VERY FEW FRESH RX. FRAG. AMONG COARSE CUTTINGS

R SUM PY-V-D GENERALLY LOW AND DECREASES TOWARDS BOTTOM OF HOLE (FROM
160 FT)

R SUM MAJOR LITHOLOGY IS LEUCOCRATIC PPFL WITH KF MATRIX AND MINOR QZ-
MU VEINS ,FROM 60 TO 130 FT.

R SUM HORN FRAG. IS FAIRLY COMMON (F-GRAINED, BLACK COLOURED) ASSD. WITH

R SUM MODERATE PY-D FROM 190 TO 220 FT.

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.
 DRILLHOLE/TRVERSE --- ABPH019 --- (CONTINUED)

G E O L O G

A UMM	PM CU	PM MO				
A LAB	MIN-EN	MIN-EN				
A TYP	PH-CUT	PH-CUT				
A MTH	PCL-AA	PCL-AA				
A 002	19.20	21.34	242	62	11	73
A 002	21.34	24.38	243	60	7	67
A 002	24.38	27.43	244	148	3	151
A 002	27.43	30.48	245	188	4	192
A 002	30.48	33.53	246	285	3	288
A 002	33.53	36.58	347	241	4	245
A 002	36.58	39.62	248	156	4	160
A 002	39.62	42.67	249	97	6	103
A 002	42.67	45.72	250	80	4	84
A 002	45.72	48.77	251	116	4	120
A 002	48.77	51.82	252	138	6	144
A 002	51.82	54.86	253	68	4	72
A 002	54.86	57.91	254	57	3	60
A 002	57.91	60.96	255	193	6	199
A 002	60.96	64.01	256	98	4	102
A 002	64.01	67.06	257	80	4	84
A 002	67.06	70.10	258	87	4	91
A 002	70.10	73.15	259	52	16	68
A 002	73.15	76.20	260	73	9	82
A 002	76.20	79.25	261	88	3	91
A 002	79.25	80.77	262	67	5	72

R SUM CASING TO REDROCK

R SUM LI-C VERY ABUNDANT ON QZ-MU-KF FRAG. INDICATING A LEACHING ZONE,

R SUM TRACES OF HE-D-U . COULD BE OVER MAT.

R SUM BELOW THE OXIDIZED (LEACHING) ZONE FROM 110 FT.

R SUM PPFL REFERS TO GREEN COLOURED FRAG. WITH FX PHENO. ,CHLORITIZED

R SUM AND CONTAINS MINOR EP.

R SUM VOLC,VLCC AND HORN FRAG. ARE MIXED WITH THE PPFL ALTHOUGH THEY

R SUM OCCUR IN SMALL AMOUNTS.

R SUM PY-V-D IS EXTREMELY ARUNDANT : IN QZ-V FROM 70 TO 140 FT. ,AND

R SUM IN PPFL,VOLC,AND QZ(MINOR) FROM 150 TO 265 FT.

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.
 DRILLHOLE/TRVERSE --- A6PH020 --- (CONTINUED)

G E O L O G

A UMH			PM CU	PM MD	
A LAB			MIN-EN	MIN-FN	
A TYP			PH-CUT	PH-CUT	
A MTH			PCL-AA	PCL-AA	
A 002	41.76	45.72	263	338	8
A 002	45.72	48.77	264	277	4
A 002	48.77	51.82	265	660	16
A 002	51.82	54.86	266	327	7
A 002	54.86	57.91	267	788	42
A 002	57.91	60.96	268	206	35
A 002	60.96	64.01	269	191	42
A 002	64.01	67.06	270	280	61
A 002	67.06	70.10	271	235	24
A 002	70.10	73.15	272	303	26
A 002	73.15	76.20	273	184	9
A 002	76.20	79.25	274	218	7
A 002	79.25	82.30	275	156	12
A 002	82.30	85.34	276	154	13
A 002	85.34	88.39	277	216	19
A 002	88.39	91.44	278	182	12
A 002	91.44	94.49	279	214	9
A 002	94.49	97.54	280	236	10
A 002	97.54	100.58	281	317	39

R SUM 8A TO 9A COLOURED QZMZ ,F-GRAINED EQ FX-QZ FRAG. WITH VERY HIGH
 R SUM PY-V-D AND MINOR MU-E-P ,CY ALTER. OF FX IS COMMON.
 R SUM PPFL -DK, GREEN AND MAROON COLOURED PPFL (DYKE?) WITH MODERATE
 R SUM PY-D AND MINOR QZ-V ,FROM 220 TO 240 FT.
 R SUM QZMZ FROM 240 TO 270 FT., COMP. SIMILAR TO QZMZ FROM 160 TO 220 FT
 R SUM CHLORITIZED PPFL WITH MINOR QZ-V ,PY-D LESS THAN THAT IN QZMZ
 R SUM CR-P DECREASES FURTHER TOWARDS BOTTOM OF HOLE
 R SUM PY-V-D CONTENT IS HIGH TO VERY HIGH, IN QZ-V AND QZMZ ,MINOR IN
 R SUM PPFL ,NO TRACE OF MG ,

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION 1 6B02

DRILLHOLE/TRVERSE : A8PH021	COLLAR ELEVATION: 1031.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 48.77	NORTHING(- IF S): 2210.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800815
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 1650.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

R HED CASING TO 150 FT.
R HED OVERBURDEN OVER 160 FT. ABANDON HOLE AT 160 FT.
R HED NO CUTTINGS COLLECTED

F	- I N T E R V A L -	CORE	T- X	TYPI-	QAL	TEX-	GRAIN	TOTAL	PGI	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS	SUMMARY								
K L	(UNITS = . DEC.PLACE)	RECOV-	M M	ROCK	FYING	MIN	TURES	CHARACS	FRAC		H H H H	H ANY	H H H ANY	ALT	ORE								
E A	(MT=METRIC FT=FOOTRIC)	ERY	O I	TM TM	MAT	TX TX	F C X M	DEN	/RI	T ID	STK	DIP	A A A A	A MIN	A A A MIN	- - -							
Y G	F R O M - T O - I N T (.)	D X	TYPE	1 2	QM1	1 2	F F C A	MI	1	AZM	RT	QZ	BI	CY	CB	MG	GY	PY	CP	GL	YY	F I Z I	
K F		ROCK	FM	RT	TM	QM2	TX TX	S R S O S		T ID	STK	DIP	KF	MU	CL	EP	HE	XX	PR	MO	SL		
E L		QUAL	AGE	EN- Q	LC- 3		3 4	O N H / M	2	AZM	RT	H H	H H	H H	H H	H H	H H	H H	H H	H H	H H	1	1
Y G		DESIG	VIR	COL				R D P C L		STRUCTUR-2	A A	A A	A A	A A	A A	A A	A A	A A	A A	A A	A A	2	2

/ 0.00 48.77 48.77 OVER P
L OVB

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.

G E O L O G

DRILLHOLE/TRVERSE --- ABPH022 --- (CONTINUED)

A	UMM			PM CU	PM MO		HASH	TOTAL
A	LAB			MIN-EN	MIN-EN			
A	TYP			PH-CUT	PH-CUT			
A	MTH			PCL-AA	PCL-AA			
A	002	23.47	24.38	282	48	7		55
A	002	24.38	27.43	283	64	6		70
A	002	27.43	30.48	284	44	4		48
A	002	30.48	33.53	285	35	7		42
A	002	33.53	36.58	286	34	3		37
A	002	36.58	39.62	287	48	3		51
A	002	39.62	42.67	288	34	5		39
A	002	42.67	45.72	289	50	3		53
A	002	45.72	48.77	290	44	2		46
A	002	48.77	51.82	291	39	3		42
A	002	51.82	54.86	292	46	4		50
A	002	54.86	57.91	293	47	11		58
A	002	57.91	60.35	294	46	10		56

R SUM G-SIZE OF COARSE CUTTINGS INCREASED : AVE. 3 MM. (CAVE IN MAT.)

R SUM ABUNDANT CAVE-IN OVER MATERIALS EVEN WITH CASING TO BEDROCK ?

R SUM CP-D PY FAIRLY COMMON IN ALTERED PPFQ , DEGREE OF ALTER. IS FAIR

R SUM AMOUNT CP,PY DECREASES WITH DEPTH , PROPYLITIC ALTER. FROM 100

R SUM FT. TO 198 FT. , MG APPEARS AS PY ,CP CONTENT DECREASES.

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

G E O L O G

DRILLHOLE/TRVERSE --- ABPH023 --- (CONTINUED)

K E Y	F R O M	T O	I N T R O D U C E D	R E C O V E R Y	M D X R O C K	T M Q M 1	T M Q M 2	T X T X	F C S	X M S R	T F D M S M L	R I 1	I D	A Z M	D I P	D Z	B I	C Y	C B	M G	G Y	P Y	C P	G L	Y Y	F 1	Z 1
/	30.48	33.53	3.05		TUFF							P				2F			PM	T							1L
L						4A													M	F	DA						
/	33.53	36.58	3.05		TUFF							P				2B			VA	T							1R
L						4A													T	M	F	DF					
/	36.58	39.62	3.04		TUFF							P				2B			VA	T							1R
L						5A													T	M	F	DF					
/	39.62	42.67	3.05		TUFF							P				2B			VA	T							1R
L						5A													T	M	F	DF					
/	42.67	45.72	3.05		TUFF							P				2B			VA	T							1R
L						5A													T	M	F	DF					
/	45.72	48.77	3.05		TUFF							P				2B			VA	T							1R
L						5A													T	M	F	DF					
/	48.77	51.82	3.05		TUFF							P				2B			VA	T							1R
L						5A													T	M	F	DF					
/	51.82	54.86	3.04		TUFF							P				2B			VA	T							1R
L						5A													T	M	F	DF					
/	54.86	57.91	3.05		UNKN							P															
L						5A																					
R	54.86	57.91			NO COARSE CUTTINGS																						
/	57.91	60.96	3.05		TUFF							P				2F			PB	L							1L
L						5A													M	L	M						
/	60.96	64.01	3.05		TUFF							P				2F			PB	L							1L
L						5A													M	L	M						
/	64.01	67.06	3.05		UNKN							P								PB	T						1L
L						5A													F	T	M						
R	64.01	67.06			NO COARSE CUTTINGS																						
/	67.06	70.10	3.04		UNKN							P								PB	T						1L
L						6A													F	T	M						
R	67.06	70.10			NO COARSE CUTTINGS																						
/	70.10	73.15	3.05		UNKN							P								PB	T						1L
L						5A													F	T	M						
R	70.10	73.15			NO COARSE CUTTINGS																						
/	73.15	76.20	3.05		UNKN							P								PB	T						1L
L						5A													F	T	M						
R	73.15	76.20			NO COARSE CUTTINGS																						
/	76.20	79.25	3.05		UNKN							P								PB	T						1L
L						5A													F	T	M						

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.

G E O L O G

DRILLHOLE/TRVERSE --- ABPH023 --- (CONTINUED)

A UMM				PM CU	PM MD		HASH	TOTAL
A LAB				MIN-EN	MIN-EN			
A TYP				PH-CUT	PH-CUT			
A MTH				PCL-AA	PCL-AA			
A 002	6.10	9.14	295	1	4			5
A 002	9.14	12.19	296	1	5			6
A 002	12.19	15.24	297	39	2			41
A 002	15.24	18.29	298	73	2			75
A 002	18.29	21.34	299	65	3			68
A 002	21.34	24.38	300	34	2			36
A 002	24.38	27.43	301	55	1			56
A 002	27.43	30.48	302	19	2			21
A 002	30.48	33.53	303	6	4			10
A 002	33.53	36.58	304	16	4			20
A 002	36.58	39.62	305	17	2			19
A 002	39.62	42.67	306	18	5			23
A 002	42.67	45.72	307	30	2			32
A 002	45.72	48.77	308	36	4			40
A 002	48.77	51.82	309	45	4			49
A 002	51.82	54.86	310	35	2			37
A 002	54.86	57.91	311	37	2			39
A 002	57.91	60.96	312	55	8			63
A 002	60.96	64.01	313	28	3			31
A 002	64.01	67.06	314	29	3			32
A 002	67.06	70.10	315	20	3			23
A 002	70.10	73.15	316	26	6			32
A 002	73.15	76.20	317	23	4			27
A 002	76.20	79.25	318	41	2			43
A 002	79.25	82.30	319	38	4			42
A 002	82.30	85.34	320	93	3			96
A 002	85.34	88.39	321	63	3			66
A 002	88.39	91.44	322	45	8			53
A 002	91.44	94.49	323	58	9			67

R SUM TUFF OR ANDS FLOW WITH ABUNDANT HE-D REPLACING MG, CL,EP,CB ARE

R SUM COMMON ACCESSORY MINERALS, C-GRAINED PF,QZ XL. ARE RARE EXCEPT

R SUM BETWEEN 110 AND 180 FT.

R SUM TUFF IS COARSER-GRAINED (LARGER FX,QZ XLS.) FROM 110 TO 180 FT.

R SUM PY-D CONTENT INCREASED WITH LOWER HE, MG CONTENT

R SUM ROCK IS FRESH AND ALTER. IS MINIMUM (1T TO 1L, PORPHYRITIC)

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION : 6802

DRILLHOLE/TRVERSE : ABPH024	COLLAR ELEVATION: 1044.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 48.77	NORTHING(- IF S): 2840.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800820
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 1950.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

R HED OVER DEEPER THAN 160 FT. , ABANDON HOLE AT 160 FT.

R HED 1 OVER SAMPLE FOR ASSAY (150 TO 160 FT.)

F - I N T E R V A L -		CORE	T- %	TYPI-		QAL	TEX-	GRAIN		TOTAL	PGI	STRUCTUR-1		ALTERATION				MINS	ORE-TYPE				MINS	SUMMARY			
K L (UNITS = . DEC.PLACE)		RECOV-	M M	ROCK	FYING	MIN	TURES	CHARACS		FRAC		ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN	ALT ORE		
E A (MT=METRIC FT=FOOTRIC)		ERY	Q I		TM	TM	MAT	TX	TX	F	C	%	M	DEN	/RI	T											
Y G F R O M - T O - I N T (.)		D	X	TYPE	1	2	QM1	1	2	F	F	C	A	MI	1												
K	F			ROCK	FM		RT	TM	QM2	TX	TX	S	R	S	O	S											
E	L			DUAL	AGE	EN-	Q	LC-	3		3	4	O	N	H	/	M										
Y	G			DESIG		VIR		COL																			

/ 0.00 48.77 48.77 OVER P

L OVB

G E O L O G

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY, B.C.
DRILLHOLE/TRVERSE --- ARPH024 --- (CONTINUED)

PAGE - 2

A UMM				PM CU	PM MO	HASH	TOTAL
A LAB				MIN-EN	MIN-EN		
A TYP				PH-CUT	PH-CUT		
A MTH				PCL-AA	PCL-AA		
A 002	45.72	48.77	324	46	3		49

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.
 DRILLHOLE/TRVERSE --- ABPH025 --- (CONTINUED)

G E O L O G

K E Y	F R O M	T O	I N T E R C O U R S E	RECOV	MD %	ROCK	TM	TM	Q1	TX	TX	F	C	X	M	T	FDM	RI	1	ID	AZM	DIP	QZ	BI	CY	CB	MG	GY	PY	CP	GL	YY	F	I	Z	I
Y	G			R	Q	D	AGE	EV	RQ	LC	TM	Q2	TX	TX	S	R	S	O	SML	2	ID	AZM	DIP	KF	MU	CL	FP	NE	XX	PR	MO	SL				
/		39.62	42.67	3.05		MONZ												P					4M		F	PB		F	DB						2M	
L							8A																	PL		T										
/		42.67	45.72	3.05		MONZ												P					4M		F	PB			DB						2M	
L							8A																	PL		T										
/		45.72	48.77	3.05		MONZ												P					4M		F	PB			DB						2M	
L							9A																	PL		T										
/		48.77	51.82	3.05		MONZ												P					4B		F	PB		L	VB						2M	
L							8A																	PF		L										
/		51.82	54.86	3.04		MONZ												P					4B		F	PB		L	VB						2M	
L							8A																	PF		F										
/		54.86	57.91	3.05		MONZ												P					4B		F	PB		L	VB						2M	
L							8A																	PF		L										
/		57.91	60.96	3.05		MONZ												P					4B		F	PB		L	VB						2M	
L							8A																	PF		L										
/		60.96	64.01	3.05		MONZ												P					4B		F	PB		L	VB						2M	
L							8A																	PF		L										
/		64.01	67.06	3.05		MONZ												P					4B		F	PB		T	VB						2M	
L							8A																	PF		L										
/		67.06	70.10	3.04		MONZ												P					4B		F	PB		L	VM						2M	
L							9A																	PF		T										
/		70.10	73.15	3.05		MONZ												P					4B		F	PB		L	VB						2M	
L							8A																	PF		L										
/		73.15	76.20	3.05		MONZ												P					4B		F	PF		L	VL						2M	
L							8A																	PF		L										
/		76.20	79.25	3.05		MONZ												P					4B		F	PF		L	VB						2M	
L							8A																	PF		L										
/		79.25	82.30	3.05		MONZ												P					4B		F	PB		L	VM						2M	
L							8A																	PF		L										
/		82.30	85.34	3.04		MON7												P					4B		F	PB		L	VB						2M	
L							8A																	PF		L										
/		85.34	88.39	3.05		UNKN												P					B		T	PR			DM							
L							8A																													
R		85.34	88.39																						?											
/		88.39	91.44	3.05		UNKN												P					B		T	PR			DM							
L							8A																													

NO COARSE CUTTINGS

A UMH				PM CU	PM MO		HASH	TOTAL
A LAB				MIN-EN	MIN-EN			
A TYP				PH-CUT	PH-CUT			
A MTH				PCL-AA	PCL-AA			
A 002	12.50	15.24	325	30	7			37
A 002	15.24	18.29	326	18	8			26
A 002	18.29	21.34	327	11	3			14
A 002	21.34	24.38	328	10	2			12
A 002	24.38	27.43	329	50	2			52
A 002	27.43	30.48	330	102	2			104
A 002	30.48	33.53	331	91	3			94
A 002	33.53	36.58	332	80	5			85
A 002	36.58	39.62	332	56	3			59
A 002	39.62	42.67	334	59	2			61
A 002	42.67	45.72	335	45	2			47
A 002	45.72	48.77	336	49	3			52
A 002	48.77	51.82	337	74	3			77
A 002	51.82	54.86	338	55	4			59
A 002	54.86	57.91	339	58	4			62
A 002	57.91	60.96	340	37	4			41
A 002	60.96	64.01	341	27	2			29
A 002	64.01	67.06	342	29	4			33
A 002	67.06	70.10	343	40	3			43
A 002	70.10	73.15	344	44	13			57
A 002	73.15	76.20	345	19	8			27
A 002	76.20	79.25	346	34	6			40
A 002	79.25	82.30	347	33	7			40
A 002	82.30	85.34	348	32	5			37
A 002	85.34	88.39	349	38	7			45
A 002	88.39	91.44	350	42	9			51
A 002	91.44	94.49	351	33	8			41
A 002	94.49	97.54	352	49	6			55
A 002	97.54	100.58	353	46	6			52

R SUM LITHOLOGY SAME AS THAT (MONZ) IN AB PH01A

R SUM 9A COLOURED MONZ WITH GS TINT FROM 50 TO 90 FT. MODERATELY CHLO-
RITIZED.

R SUM MG APPEARS IN TRACE AMOUNT , HE REPLACING MG

R SUM AMOUNT OF CL DECREASES AT 90 FT. , 0 TO TRACE AMOUNT FROM 90 TO
330 FT.

R SUM HOMOGENEOUS LITHOLOGY, MODERATELY BLEACHED QZMZ WITH ABUNDANT CY

R SUM CB-P-V , GY , PY-V . FX INTERGROW WITH QZ . ALTER. IS MONTMORI-
LLONITIC (2M) TO INTERMEDIATE ARGILLIC (3M).

R SUM PY OCCURS IN VEINS WITH QZ-V AND QZ-MU ENVELOPES.

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.

DRILLHOLE/TRVERSE --- ABPH026 --- (CONTINUED)

G E O L O G

K E Y	F L G	F R O M - T O - I N T			RECOV R O D	MD X AGE	ROCK EV RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	% S	M S	TFDM SML	RI	1 2	ID ID	AZM AZM	DIP DIP	OZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F	I	Z	I
/	L	36.58	39.62	3.04		PPFQ																3F		/	PM	/	L	L						2F		
/	L	39.62	42.67	3.05		PPFQ		7A														3F		/	PM	T	L	L						2F		
/	L	42.67	45.72	3.05		PPFQ		7A														3F		/	PM	/	L	L						2F		
/	L	45.72	48.77	3.05		PPFQ		6A														PF		/	PB	T	T	F						2L		
/	L	48.77	51.82	3.05		PPFQ		7A														PF		/	PR	T	T	F			LI	2L				
/	L	51.82	54.86	3.04		PPFQ		7A														PF		/	PB	/	T	L						2L		
/	L	54.86	57.91	3.05		PPFQ		7A														PF	UT	/	PB	T	T	F						2L		
R		54.86	57.91																			PF		/												
/	L	57.91	60.96	3.05		PPFQ		7A														PF		/	PB	T	T	F							2L	
/	L	60.96	64.01	3.05		PPFQ		7A														PF		/	PB	T	T	F							2L	
/	L	64.01	67.06	3.05		PPFQ		9T 6A														PF		/	PB	T	T	F							2L	
/	L	67.06	70.10	3.04		PPFQ		9T														PF		/	PB	T	T	F							2L	
R		67.06	70.10																			PF		/												
/	L	70.10	73.15	3.05		PPFQ		9T														PF		/	PR	T	T	F							2L	
/	L	73.15	76.20	3.05		PPFQ		5A														PF		/	PB	T	T	F							2L	
/	L	76.20	79.25	3.05		VOLC		5A														VL			PF			F							1L	
R		76.20	79.25																																	
R		76.20	79.25																																	
/	L	79.25	82.30	3.05		VOLC		5A														VL			PF			F							1L	
/	L	82.30	85.34	3.04		VOLC		5A														VL			PF			F							1L	

BI PLATE IN OZ-V

TRACE AMOUNT OF BLACK-COLOURED HORN FRAG.

RED GREEN BLACK COLOURED VOLC , SOME WITH LI-C , POSSIBLE VOLCAN-IC BRECCIA

A UMH				PM CU	PM MO		HASH	TOTAL
A LAB				MIN-EN	MIN-EN			
A TYP				PH-CUT	PH-CUT			
A MTH				PCL-AA	PCL-AA			
A 002	11.28	12.19	354	28	2			30
A 002	12.19	15.24	355	13	6			19
A 002	15.24	18.29	356	36	4			40
A 002	18.29	21.34	357	35	3			38
A 002	21.34	24.38	358	33	5			38
A 002	24.38	27.43	359	33	4			37
A 002	27.43	30.48	360	35	6			41
A 002	30.48	33.53	361	54	6			60
A 002	33.53	36.58	362	30	7			37
A 002	36.58	39.62	363	31	9			40
A 002	39.62	42.67	364	41	4			45
A 002	42.67	45.72	365	32	5			37
A 002	45.72	48.77	366	42	6			48
A 002	48.77	51.82	367	36	4			40
A 002	51.82	54.86	368	33	5			38
A 002	54.86	57.91	369	29	5			34
A 002	57.91	60.96	370	12	5			17
A 002	60.96	64.01	371	33	6			39
A 002	64.01	67.06	372	15	8			23
A 002	67.06	70.10	373	7	10			17
A 002	70.10	73.15	374	14	8			22
A 002	73.15	76.20	375	32	4			36
A 002	76.20	79.25	376	31	3			34
A 002	79.25	82.30	377	36	3			39
A 002	82.30	85.34	378	47	3			50
A 002	85.34	88.39	379	23	6			29
A 002	88.39	91.44	380	84	5			89
A 002	91.44	94.49	381	265	5			270
A 002	94.49	97.54	382	336	10			346
A 002	97.54	100.58	383	127	6			133

R SUM HETEROGENEOUS LITH. PROBABLY OVER MAT.

R SUM HOMOGENEOUS LITHOLOGY , CHLORITIZED PPFQ WITH CB AND GY , PY-D-V

R SUM IN PPFQ AND MINOR QZ-V . ALTER. IS MINIMUM ,PROPYLITIC TO MONTM-

R SUM ORILLONITIC (1L TO 2L).

R SUM HETEROGENEOUS LITH. MAROON, GREEN, BLACK COLOURED VOLC ARE COMM-

R SUM ONLY COATED WITH LI . POSSIBLE CONTAMINATION FROM OVER ?

R SUM LITHO. IS QUITE DIFFERENT FROM THAT OF AB PH025 (QZMZ) ALTHOUGH

R SUM DEGREE OF ALTER. AND PY CONTENT IS SIMILAR

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION : 6B02

DRILLHOLE/TRVERSE : ABPH027 COLLAR ELEVATION: 1113.00 AZIMUTH(DEG) : 0.00 GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 100.58 NORTHING(= IF S): 2790.00 VERTICAL ANGLE : -90.00 DATE (YY/MM/DD): 800823
CORE/HOLE DIAMETER : 2IN. EASTING (= IF W): 2772.00 CO-ORD SYSTEM : MAP PROJECT NUMBER : 4941

F - I N T E R V A L - CORE T- X TYPI- GAL TEX- GRAIN TOTAL PGI STRUCTUR-1 ALTERATION MINS ORE-TYPE MINS SUMMARY
K L (UNITS = . DEC.PLACE)RECOV- M H ROCK F YING MIN TURES CHARACS FRAC H H H H M ANY H H H ANY ALT ORE
E A (MT=METRIC FT=FOOTRIC) ERY O I TM YM MAT TX TX F C X M DEN /RI T ID STK DIP A A A A A MIN A A A MIN - - - -
Y G F R O M - T O - I N T (.) D X TYPE 1 2 QM1 1 2 F F C A MI 1 AZM RT QZ RI CY CB MG GY PY CP GL YY F I Z I
K F ROCK FM RT TM QM2 TX TX S R S O S T ID STK DIP KF MU CL EP HE XX PR MO SL
E L QUAL AGE EN- O LC- 3 3 4 O N H / M 2 AZM RT H H H H H H H H H H H H 1 1
Y G DESIG VIR COL R D P C L STRUCTUR-2 A A A A A A A A A A A A 2 2

Table with columns for depth intervals (L, R), lithology (MONZ, DIOR), and alteration types (3F, 2L, etc.). Includes descriptive text like 'OVER', 'CASING TO 42 FT. NO SAMPLES COLLECTED FROM OVER', and 'EQUEDRAL MG REPLACED BY HEMATITE.'

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.
 DRILLHOLE/TRVERSE --- ABPH027 --- (CONTINUED)

G E O L O G

K E Y	F R O M	T O	I N T R E C E V	M D	% R O C K	T M	T M	Q M 1	T X	T X	F C	% M	T F D M	R I	1	I D	A Z M	D I P	Q Z	B I	C Y	C B	M G	G Y	P Y	C P	G L	Y Y	F I	Z I				
Y G			R Q D	A G E	E V	R O	L C	T M	Q M 2	T X	T X	S R	S D	S M L	2	I D	A Z M	D I P	K F	M U	C L	E P	H E	X X	P R	M O	S L							
R	36.58	39.62																																
R	36.58	39.62																																
/	39.62	42.67	3.05																															
L																																		
/	42.67	45.72	3.05																															
L																																		
/	45.72	48.77	3.05																															
L																																		
/	48.77	51.82	3.05																															
L																																		
R	48.77	51.82																																
/	51.82	54.86	3.04																															
L																																		
/	54.86	57.91	3.05																															
L																																		
/	57.91	60.96	3.05																															
L																																		
/	60.96	64.01	3.05																															
L																																		
/	64.01	67.06	3.05																															
L																																		
/	67.06	70.10	3.04																															
L																																		
/	70.10	73.15	3.05																															
L																																		
R	70.10	73.15																																
/	73.15	76.20	3.05																															
L																																		
R	73.15	76.20																																
/	76.20	79.25	3.05																															
L																																		
/	79.25	82.30	3.05																															
L																																		
/	82.30	85.34	3.04																															
L																																		

ABUNDANT CL IN QZ-KF MATRIX WITH HIGHER MG-O, DEGREE OF ALTER.
 IS HIGHER THAN QZMZ FROM 50 TO 120 FT.

TRANSITION BETWEEN DIOR AND QZMZ BELOW

ABUNDANT BLACK COLOURED HORN FRAG

PF PHENO IN BLACK APHAN. MATRIX, MINOR QZ-V WITH PY-V-D

K E Y	F - L Y G	F R O M	- T O	I N T	R E C O V	M D	% R O C K	T M	T M	Q M 1	T X	T X	F C	% M T F D M	R I	1 I D	A Z M	D I P	Q Z	R I	C Y	C B	M G	G Y	P Y	C P	G L	Y Y	F I	Z I		
				R O D		A G E E V		P Q	L C	T M	Q M 2	T X	T X	S R	S O	S M L	2 I D	A Z M	D I P	K F	M U	C L	F P	H E	X X	P R	M O	S L				
R		39.62	42.67		ABUNDANT		BLACK COLOURED				HORN																					
/	L	42.67	45.72	3.05			MONZ													P			3L		/	PT	/	/		0		
								8A														T	/									
/	L	45.72	48.77	3.05			MONZ													P			3L		/	PT	/	/		0		
								6A														T	/									
/	L	48.77	51.82	3.05			MONZ													P			3L		/	PT	/	/		0		
								7A														T	/									
/	L	51.82	54.86	3.04			QZMZ													P			3F		/	PL	/	/		0		
								8A														T	/									
/	L	54.86	57.91	3.05			QZMZ													P			3L		/	PF	/	/		0		
								8A														T	/									
/	L	57.91	60.96	3.05			QZMZ													P			3L		/	PT	/	/		0		
								8A														T	/									
/	L	60.96	64.01	3.05			QZMZ													P			3L		/	PT	/	/		0		
								9A														T	/									
/	L	64.01	67.05	3.05			QZMZ													P			3L		/	PT	/	/		0		
								9A														T	/									
/	L	67.06	70.10	3.04			UNKN													P			L		/		/		LI	0		
								8A																							CT	
R		67.06	70.10		TRACE AMOUNTS OF DCPD																											
/	L	70.10	73.15	3.05			UNKN													P					L	/		T	/			
								8A																		T						
R		70.10	73.15		NO COARSE CUTTINGS																											
/	L	73.15	76.20	3.05			UNKN													P					L	/		T	/			
								8A																		T						
R		73.15	76.20		NO COARSE CUTTINGS																											
/	L	76.20	79.25	3.05			UNKN													P					L	/		T	/			
								WA																		T						
R		76.20	79.25		NO COARSE CUTTINGS																											
/	L	79.25	82.30	3.05			QZMZ													P			L		PL	/		L		1/		
								W																	T	/						
R		79.25	82.30		SEVERAL GRAINS OF DK. GREEN-COLOURED PPFL																											
/	L	82.30	85.34	3.04			UNKN													P			F		L	/		L				
								W																								
R		82.30	85.34		NO COARSE CUTTINGS																											
/	L	85.34	88.39	3.05			MONZ													P			F			/	T	F		1T		
								W																		T						

G E O L O G

SMD MINING COMPANY LTD
 ANDREW RAY, PORPHYRY, B.C.
 DRILLHOLE/TRVERSE --- ABPH028 --- (CONTINUED)

K E Y	F R O M	T O	I N T R E C O V	M D X	R O C K	T M	T M	Q M 1	T X	T X	F C	X M	T F D M	R I	I D	A Z M	D I P	Q Z	B I	C Y	C B	M G	G Y	P Y	C P	G L	Y Y	F I	Z I	
Y G	R O D				A G E	E V	R Q	L C	T M	Q M 2	T X	T X	S R	S O	S M L	2 I D A Z M D I P		K F	M U	C L	E P	H E	X X	P R	M O	S L				
R	85.34	88.39			TRACE AMOUNT OF DCPP, LI-C FRAG AND HORN ARE CAVE-IN MATERIALS.																									
/	88.39	91.44	3.05		UNKN													P	/		?		B	/						
L	88.39	91.44			NO COARSE CUTTINGS																									
R	91.44	94.49	3.05		UNKN													P	/		?		L	LI						
/	91.44	94.49			ASSORTED FRAG. OF QZMZ, HORN, DCPP, LI-C ON VLCC, PROBABLY ALL																									
L	91.44	94.49			CAVE-IN MATERIALS.																									
R	94.49	97.54	3.05		UNKN													P	/		?		T	/						
/	94.49	97.54			NO COARSE CUTTINGS																									
L	94.49	97.54			UNKN													P	/		?		L	/						
R	97.54	100.58	3.04		UNKN													P	/		?		L	/						
/	97.54	100.58			SAME LITHO. AS IN 300 TO 310 FT.																									

A UMM				PM CU	PM MO		HASH	TOTAL
A LAB				MIN-EN	MIN-EN			
A TYP				PH-CUT	PH-CUT			
A MTH				PCL-AA	PCL-AA			
A 002	17.37	18.29	413	23	4			27
A 002	18.29	21.34	414	16	4			20
A 002	21.34	24.38	415	40	3			43
A 002	24.38	27.43	416	45	2			47
A 002	27.43	30.48	417	41	4			45
A 002	30.48	33.53	418	47	4			51
A 002	33.53	36.58	419	48	2			50
A 002	36.58	39.62	420	49	3			52
A 002	39.62	42.67	421	32	5			37
A 002	42.67	45.72	422	12	6			18
A 002	45.72	48.77	423	11	3			14
A 002	48.77	51.82	424	14	3			17
A 002	51.82	54.86	425	8	5			13
A 002	54.86	57.91	426	6	6			12
A 002	57.91	60.96	427	6	9			15
A 002	60.96	64.01	428	5	8			13
A 002	64.01	67.06	429	6	3			9
A 002	67.06	70.10	436	6	6			12
A 002	70.10	73.15	431	11	7			18
A 002	73.15	76.20	432	12	9			21
A 002	76.20	79.25	433	6	8			14
A 002	79.25	82.30	434	6	5			11
A 002	82.30	85.34	435	6	7			13
A 002	85.34	88.39	436	5	5			10
A 002	88.39	91.44	437	5	4			9
A 002	91.44	94.49	438	5	6			11
A 002	94.49	97.54	439	5	7			12
A 002	97.54	100.58	440	5	6			11

R SUM DCPP OCCURS, BELOW THE WEATHERING ZONE (57, TO 70 FT.), FROM 70 TO

R SUM COMP. VARIES FROM PP TO APHANITIC. ROCK IS FRESH TO SLIGHTLY AL-

R SUM TERED, PY AND MG OCCURS IN TRACE AMOUNT.

R SUM UNALTERED MONZ FROM 140 TO 210 FT.

R SUM POSSIBLE CNT BETWEEN MONZ ABOVE AND DCPP BELOW

R SUM NONE OR TOO LITTLE COARSE CUTTING TO ID. LITHO. , POSSIBLE MONZ?

R SUM LITHOLOGY AND ALTER. IS SIMILAR TO THAT OF AB PH 027 , MINERALIZ-

R SUM ATION IS MINIMUM AND IS LIMITED TO PY, MG, AND HE

G E O L O G

SMD MINING COMPANY LTD
ANDREW BAY, PORTHURY, B.C.
DRILLHOLE/TRVERSE --- ABPH029 --- (CONTINUED)

PAGE - 3

A UMM				PM CU	PM MD		HASH	TOTAL
A LAB				MIN-EN	MIN-EN			
A TYP				PH-CUT	PH-CUT			
A MTH				PCL-AA	PCL-AA			
A 002	22.86	24.38	441	16	3			19
A 002	24.38	27.43	442	15	4			19
A 002	27.43	30.48	443	24	4			28
A 002	30.48	33.53	444	14	2			16
A 002	33.53	36.58	445	16	3			19
A 002	36.58	39.62	446	8	3			11
A 002	39.62	42.67	447	6	6			12
A 002	42.67	45.72	448	5	3			8
A 002	45.72	48.77	449	5	6			11
A 002	48.77	51.82	450	5	4			9
A 002	51.82	54.86	451	6	5			11
A 002	54.86	57.91	452	7	6			13
A 002	57.91	60.96	453	6	3			9
A 002	60.96	64.01	454	7	4			11
A 002	64.01	67.06	455	5	5			10
A 002	67.06	70.10	456	5	2			7
A 002	70.10	73.15	457	6	2			8
A 002	73.15	76.20	458	4	1			5
A 002	76.20	79.25	459	30	8			38
A 002	79.25	82.30	460	65	7			72
A 002	82.30	85.34	461	47	6			53
A 002	85.34	88.39	462	40	10			50
A 002	88.39	91.44	463	41	12			53

R SUM MONZ FROM 75 TO 260 FT. IS SLIGHTLY ALTERED , TRACE AMOUNTS OF
R SUM CY,CL,QZ FROM ALTER. OF FX,NO-PRIMARY MAFIC MIN. PRESENT.
R SUM PY IS PRESENT IN TRACE AMOUNT
R SUM F-GRAINED PHYLLITE SHOWING GOOD SCHISTOSE TX WITH ABUNDANT BLACK
R SUM -COLOURED CL AND BI PLATES, ORIGINAL GRAINS OF QZ,FX IS-PRESENT
R SUM BUT MINOR. TRACE AMOUNT OF GRAPHITE ?
R SUM MONZ COMPOSITION ROCK IS IDENTICAL TO SURFACE OUTCROPS OF FELSI-
R SUM TE / RHYOLITE IN THE VICINITY OF THE PPFL PLUG.

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW BAY, PORPMYRY, B.C.

FORMAT VERSION : 6802

DRILLHOLE/TRVERSE : ABPH030	COLLAR ELEVATION: 1165.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 60.96	NORTHING(- IF S): 3920.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800831
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 3270.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

F - I N T E R V A L -	CORE T- X	TYPI- QAL	TEX- GRAIN	TOTAL PGI	STRUCTUR-1	ALTERATION MINS	ORE-TYPE MINS	SUMMARY
K L (UNITS = . DEC.PLACE)RECOV- M M ROCK	FYING MIN	TURES	CHARACS	FRAC		H H H H H ANY H H H ANY	H H H ANY	ALT ORE
E A (MT=METRIC FT=FOOTRIC) ERY O I	TM TM MAT	TX TX F C	% M DEN	/RI T	ID STK DIP	A A A A A MIN A A A MIN	A A A MIN	- - -
Y G F R O M - T O - I N T (.)	D X TYPE	1 2 QM1	1 2 F F C A	MI	1	AZM RT QZ BI CY CB MG GY PY CP GL YY F I Z I		
K F	ROCK FM RT	TM QM2 TX TX S R S O S			T	ID STK DIP KF MU CL EP HE XX PR MO SL		
E L	QUAL AGE EN- 0 LC- 3	3 4 D N H / M			2	AZM RT H H H H H H H H H H		1 1
Y G	DESIG VIR COL		R D P C L			STRUCTUR-2 A A A A A A A A A A		2 2

/	0.00	6.10	6.10	OVER	P				
L OVB									
R	0.00	6.10		CASING TO 20 FT.					
/	6.10	9.14	3.04	MONZ	P	4B	P? <M	F DB	SF
L				8A			EB		
R	6.10	9.14		LITHOLOGY IDENTICAL TO FELSITE OUTCROP N.W. OF DRILL HOLE					
/	9.14	12.19	3.05	HORN	P	PT	P? PM	<F <A	2L
L CN/				8N			ER		
R	9.14	12.19		PY-V ARE IN EUHEDRAL CUBES					
/	12.19	15.24	3.05	HORN	P	4B	P? <M	<B DB	SF
L				8N			EB		
R	12.19	15.24		THINLY LAMINATED BLACK COLOURED HORNFEL WITH CB AND PY VEINS					
/	15.24	18.29	3.05	HORN	P	4B	P? <M	<M DB	SF
L				8N			EB		
R	15.24	18.29							
/	18.29	21.34	3.05	HORN	P	4B	P? <M	F DB	SF
L				8N			ER		
R	18.29	21.34							
/	21.34	24.38	3.04	HORN	P	PT	P? PM	<M DA	2L
L				N			T		
R	21.34	24.38							
/	24.38	27.43	3.05	HORN	P	PT	P? PM	<M DA	2L
L				N			T		
R	24.38	27.43							
/	27.43	30.48	3.05	HORN	P	PT	P? PM	<M DB	2L
L				N			T		
R	27.43	30.48		TRACE AMOUNT OF BI-U					

K F Y	F L G	F R O M - T O - I N T R O D			RECOV R O D	MD % AGE	ROCK EV RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	X S	M O	TFDM SML	RT	1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CR EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F	I	Z	I
/	L	30.48	33.53	3.05		HORN												P				PT		P?	PM		<M	DA						2L		
/	L	33.53	36.58	3.05		HORN												P				PT		P?	PB		<B	DA						2L		
/	L	36.58	39.62	3.04		HORN												P				PT		P?	PM		<M	DA						2L		
/	L	39.62	42.67	3.05		HORN												P				PT		P?	PM		<M	DA						2L		
/	L	42.67	45.72	3.05		HORN												P				PT		P?	PB		<B	DF						2L		
/	L	45.72	48.77	3.05		HORN												P				00		P?	PB		<M	DF						2L		
/	L	48.77	51.82	3.05		HORN												P				PT		P?	PB		<B	DF						2L		
/	L	51.82	54.86	3.04		HORN												P				PT		P?	PB		<B	DL						2L		
/	L	54.86	57.91	3.05		HORN												P				PT		P?	PB		<B	DF						2L		
/	L	57.91	60.96	3.05		HORN												P				PT		P?	PB		<B	DF						2L		

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY, B.C.

G E O L O G

DRILLHOLE/TRVERSE --- ABPH030 --- (CONTINUED)

A UMM				PM CU	PM MO	HASH	TOTAL
A LAB				MIN-EN	MIN-EN		
A TYP				PH-CUT	PH-CUT		
A MTH				PCL-AA	PCL-AA		
A 002	6.10	9.14	464	25	11		36
A 002	9.14	12.19	465	29	9		38
A 002	12.19	15.24	466	30	8		38
A 002	15.24	18.29	467	28	13		41
A 002	18.29	21.34	468	27	10		37
A 002	21.34	24.38	469	21	11		32
A 002	24.38	27.43	470	20	4		24
A 002	27.43	30.48	471	44	8		52
A 002	30.48	33.53	472	22	4		26
A 002	33.53	36.58	473	27	3		30
A 002	36.58	39.62	474	48	3		51
A 002	39.62	42.67	475	24	6		30
A 002	42.67	45.72	476	21	2		
A 002	45.72	48.77	477	32	3		
A 002	48.77	51.82	478	37	5		
A 002	51.82	54.86	479	21	3		
A 002	54.86	57.91	480	13	3		
A 002	57.91	60.96	481	14	3		

R SUM SHARP CONTACT BETWEEN PZMZ (20 TO 30 FT) AND HORN (30 TO 200FT)

R SUM HORNFEL FROM 30 TO 200 FT. WITH PY IN MICROVEINS AND DISS. FORM

R SUM GYPSUM IS VERY COMMON IN MICROVEINS , CB-V ARE MINOR . HORN IS

R SUM THINLY LAMINATED, POSSIBLE QZ-MU-PY ENVELOPES ?

R SUM MONZ AND HORN LOOK SIMILAR TO OUTCROPS N.W. AND EAST OF AB PH030

R SUM RESPECTIVELY.

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW BAY ,PORPHYRY B.C.

FORMAT VERSION : 6802

DRILLHOLE/TRVERSE : ABPH031	COLLAR ELEVATION: 995.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 36.58	NORTHING(- IF S): 1410.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 801018
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 4289.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

F - I N T E R V A L -	CORE	T- X	TYPI-	QAL	TEX-	GRAIN	TOTAL	PGI	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS	SUMMARY									
K L (UNITS = . DEC.PLACE)	RECOV-	M M	ROCK	FYING	MIN	TURES	CHARACS	FRAC		H H H H	H ANY	H H ANY	ALT	ORE									
E A (MT=METRIC FT=FOOTRIC)	ERY	O I	TM	TM	MAT	TX	TX	F C X M	DEN	/RI	T ID	STK	DIP	A A A A A MIN A A A MIN - - -									
Y G F R O M - T O - I N T (.)	D X	TYPE	1	2	QMI	1	2	F F C A	MI	1	AZM	RT	QZ	BI	CY	CB	MG	GY	PY	CP	GL	YY	F I Z I
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
K F	ROCK	FM	RT	TM	QM2	TX	TX	S R S O S		T ID	STK	DIP	KF	MU	CL	EP	HE	XX	PR	MO	SL		
E L	QUAL	AGE	EN- Q	LC- 3		3	4	Q N H / M		2	AZM	RT	H	H	H	H	H	H	H	H	H	H	H
Y G	DESIG	VIR	COL					R D P C L		STRUCTUR-2	A	A	A	A	A	A	A	A	A	A	A	A	2 2

/	0.00	36.58	36.58	OVER	
L DVB					
R	0.00	36.58		OVERBURDEN OVER 120 FT., AB PH031 ABANDON AT 120 FT., NO CUTTING	
R	0.00	36.58		% COLLECTED FOR ASSAY.	

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD ANDREW BAY, PORPHYRY, B.C.

FORMAT VERSION : 6B02

DRILLHOLE/TRVERSE : ABPH032
TOTAL DEPTH/LENGTH : 100.58
CORE/HOLE DIAMETER : 2IN.

COLLAR ELEVATION: 989.00
NORTHING(- IF S): 1125.00
EASTING (- IF W): 3785.00

AZIMUTH(DEG) : 0.00
VERTICAL ANGLE : -90.00
CO-ORD SYSTEM : MAP

GEOLOGGED BY : DTC +
DATE (YY/MM/DD): 801022
PROJECT NUMBER : 4941

Table with columns: F - INTERVAL - CORE T-X, K L (UNITS = DEC.PLACE)RECOV- M M ROCK, E A (MT=METRIC FT=FOOTRIC) ERY O I, Y G FROM - TO - INT (.) D X TYPE, TYPY- QAL TEX- GRAIN TOTAL PGI, STRUCTUR-1 ALTERATION MINS ORE-TYPE MINS SUMMARY, K F ROCK FM RT, E L QUAL AGE EN- Q LC- 3, Y G DESIG VIR COL. Includes sub-headers like TM, TX, MAT, TX, FC, X, M, DEN, /RI, T, ID, STK, DIP, AZM, RT, QZ, BI, CY, CB, MG, BY, PY, CP, GL, YY, F, I, Z, I.

Log data table with columns: / L, OVB, R, WTH, FELS, KF, PF, W, QZ, OVER, P, <T, ? PL, DT, <T, D/, LI, 4T, CF. Contains detailed interval descriptions and lithological notes.

A UMM	PM CU	PM MO	PM S				
A LAB	MIN-EN	MIN-EN	MIN-EN				
A TYP	PH-CUT	PH-CUT	PH-CUT				
A MTH	PCL-AA	PCL-AA					
A 002	22.56	24.38	2029	8	3	100	111
A 002	24.38	27.43	2030	6	1	500	507
A 002	27.43	30.48	2031	39	3	44200	44242
A 002	30.48	33.53	2032	8	3	100	111
A 002	33.53	36.58	2033	4	2	100	106
A 002	36.58	39.62	2034	9	2	100	111
A 002	39.62	42.67	2035	4	2	100	106
A 002	42.67	45.72	2036	3	2	100	105
A 002	45.72	48.77	2037	3	1	100	104
A 002	48.77	51.82	2038	4	2	100	106
A 002	51.82	54.86	2039	4	1	100	105
A 002	54.86	57.91	2040	5	1	100	106
A 002	57.91	60.96	2041	4	1	100	105
A 002	60.96	64.01	2042	6	2	100	108
A 002	64.01	67.06	2043	5	2	100	107
A 002	67.06	70.10	2044	24	2	1500	1526
A 002	70.10	73.15	2045	24	7	2100	2131
A 002	73.15	76.20	2046	26	1	2300	2327
A 002	76.20	79.25	2047	24	1	4400	4425
A 002	79.25	82.30	2048	31	3	4500	4534
A 002	82.30	85.34	2049	26	1	9300	9327
A 002	85.34	88.39	2050	25	2	5200	5227
A 002	88.39	91.44	2051	23	3	5900	5926
A 002	91.44	94.49	2052	24	2	5100	5126
A 002	94.49	97.54	2053	23	3	4000	4026
A 002	97.54	100.58	2054	24	3	3600	3627

R SUM LITTLE COARSE CUTTINGS COLLECTED. AB PH032 ENDS AS 330 FEET.

R SUM FELS REFERS TO WHITE-COLOURED EQUIGRANULAR ROCK OF MONZONITE COMPOSITION ? QZ MICROVEIN WITH PY-DISSEMINATIONS AND MICROVEINS

R SUM ARE COMMON IN FELS, COMPOSITION AND TEXTURE OF FELSITE IS SIMILAR TO THAT OF MONZONITE IN AB PH027 AND AB PH028.

R SUM HORNFEL IS FISSILE AND CONTAINS ABUNDANT CALCITE MICROVEINS AND DISSEMINATIONS. PY IS VERY FINE-GRAINED IN QZ MICROVEINS.

R SUM

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

SMD MINING COMPANY LTD
ANDREW BAY ,PORPHYRY B.C.

FORMAT VERSION : 6H02

DRILLHOLE/TRVERSE : ABPH033	COLLAR ELEVATION: 1050.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 34.14	NORTHING(- IF S): 1794.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 801021
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 2543.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4941

F	- I N T E R V A L -	CORE	T- X	TYPI-	QAL	TEX-	GRAIN	TOTAL	PGI	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS	SUMMARY		
K	L (UNITS = . DEC.PLACE)	RECOV-	M M	ROCK	FYING	MIN	TURES	CHARACS	FRAC		H H H H H	H ANY	H H ANY	ALT	ORE		
E	A (MT=METRIC FT=FOOTRIC)	ERY	O I		TM TM	MAT	TX TX	F C X M	DEN /RT	T ID	STK DIP	A A A A A	A MIN	A A A MIN	- - -		
Y	G F R O M - T O - I N T (.)	D X	TYPE	1 2	QM1	1 2	F F C A	MI		1	AZM RT	QZ BI	CY CB	MG GY	PY CP	GL YY	F I Z I

K	F	ROCK	FM	RT	TM	QM2	TX TX	S R S O S		T ID	STK DIP	KF MU	CL EP	HE XX	PR MO	SL	
E	L	QUAL	AGE	EN- Q	LC- 3		3 4	D N H / M		2	AZM RT	H H H H	H H H H	H H H H	H H H H	1 1	
Y	G	DESIG	VIR	COL				R D P C L			STRUCTUR-2	A A A A	A A A A	A A A A	A A A A	2 2	

/	0.00	33.53	33.53		OVER		P
L	DVR						
R	34.14	34.14			OVERBURDEN OVER 112 FT., AB PH033 ARANDON AT 112 FT.		
/	33.53	34.14	0.61		OVER		P
L	DVB						
R	33.53	34.14			OVERBURDEN SAMPLE FOR ASSAY AT 110 TO 112 FT.		

A UMM								
A LAH								
A TYP								
A MTH								
A 002	33.53	34.14	2055	18	2	500		520

G E O L O G

SMD MINING COMPANY LTD
ANDREW BAY, PORPHYRY B.C.

DRILLHOLE/TRVERSE --- ABPH034 --- (CONTINUED)

A UMH	PM CU	PM MO	PM S
A LAB	MIN-EN	MIN-EN	MIN-EN
A TYP	PH-CUT	PH-CUT	PH-CUT
A MTH	PCL-AA	PCL-AA	

A 002	33.53	36.58	2056	21	2	100	
-------	-------	-------	------	----	---	-----	--

123

G E O L O G E D I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

3MD MINING COMPANY LTD
ANDREW BAY, PORPHYRY B.C.

FORMAT VERSION : 6802

DRILLHOLE/TRVERSE : ABPH035	COLLAR ELEVATION: 1092.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 60.96	NORTHING(- IF S): 2405.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 801000
CORE/HOLE DIAMETER : 2IN.	EASTING (- IF W): 2505.00	CO-ORD SYSTEM : NAP	PROJECT NUMBER : 4941

F - I N T E R V A L -	CORE T- X	TYPI- QAL	TFX- GRAIN TOTAL	PGI	STRUCTUR-1	ALTERATION	MINS	ORE-TYPE	MINS	SUMMARY
K L (UNITS = . DEC.PLACE)RECOV-	M M ROCK	FYING MIN	TURES	CHARACS	FRAC	H H H H H	ANY H H H	ANY	ALT	ORE
E A (MT=METRIC FT=FOOTRIC) ERY	O I	TM TM MAT	TX TX	F C X M	DEN /RI	T ID STK DIP	A A A A A	MIN A A A	MIN	- - -
Y G F R O M - T O - I N T (.)	D X TYPE	1 2 QM1	1 2 F F C A	MI	1	AZM RT QZ	BI CY CB	MG GY PY	CP GL YY	F I Z I
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
K F	ROCK	FM	RT	TM	QM2 TX TX	8 R S O S	T ID STK DIP	KF MU CL	EP HE XX	PR MO SL
E L	QUAL	AGE	EN- 9	LC- 3	3 4	O N H / M	2	AZM RT	H H H H	H H H H H H H
Y G	DESIG	VIR	COL			R D P C L	STRUCTUR-2	A A A A	A A A A	A A A A A A A A A A

/	0.00	54.86	54.86	OVER	P
L OVR					
/	54.86	57.91	3.05	OVER	P
L OVR					
/	57.91	60.96	3.05	OVER	P
L OVR					
R	54.86	60.96	TWO OVERBURDEN SAMPLES COLLECTED FROM 180 TO 200 FT.		

G E O L O G

SMD MINING COMPANY LTD
 ANDREW BAY, PORPHYRY R.C.
 DRILLHOLE/TRVERSE --- ABPH036 --- (CONTINUED)

A UMM	PM CU	PM MO	PM S	
A LAB	MIN-EN	MIN-EN	MIN-EN	
A TYP	PH-CUT	PH-CUT	PH-CUT	
A MTH	PCL-AA	PCL-AA		
R ASY	54.86	57.91		2059
R ASY	57.91	60.96		2060
R ASY	60.96	64.01		2061
R ASY	64.01	67.06		2062
R ASY	67.06	70.10		2063
A 002	54.86	57.91	13	2000
A 002	57.91	60.96	9	2900
A 002	60.96	64.01	21	19200
A 002	64.01	67.06	67	21700
A 002	67.06	70.10	114	23400

2015
 2911
 19225
 21771
 23517

R SUM LITHOLOGY SIMILAR TO THAT OF AB PH032 (FELSITE), ABUNDANT OVERB-
 R SUM URDEN MATERIAL IN CUTTINGS AS CASING DID NOT REACH BEDROCK.
 R SUM PY-D APPEARS IN MINOR AMOUNT, CP APPEARS IN TRACE AMOUNT THROUG-
 R SUM HOUT THE HOLE.

APPENDIX B

CU-MO ANALYSES ON PERCUSSION CHIPS

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURES FOR: Cu, Mo, Cd, Pb, Mn, Ni, Ag, Zn

Samples are processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and HClO_4 mixture.

After cooling the samples are diluted to standard volume. The solutions are analysed by Atomic Absorption Spectrophotometers.

Copper, Lead, Zinc, Silver, Cadmium, Cobalt, Nickel and Manganese are analysed using the CH_2H_2 -Air Flame combination but the Molybdenum determination is carried out by C_2H_2 - N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

Background corrections for Pb, Ag, Cd upon request are completed.

COMPASS Sask. Mining Dev.

PROJECT No.: Andrew Bay

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

File No. 0-522

DATE: July 2

ATTENTION: R. Cann

1980

Sample Number	Mo ppm	Cu ppm	Pb ppm	Mo ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	HRSP TOTAL		
81	85	90	95	100	105	110	115	120	125	130	135	140	145	150	160
115-120		42		11						A B P L H Q Q L			53		
120-130		51		8									53		
130-140		43		13									56		
140-150		44		15									59		
150-160		43		16									59		
160-170		42		15									57		
170-180		40		11									51		
180-190		40		11									51		
190-200		35		12									47		
200-210		38		17									55		
210-220		40		19									52		
220-230		41		21									62		
230-240		40		7									47		
240-250		29		7									34		
250-260		28		5									33		
260-270		21		5									26		
270-280		20		6									26		
280-290		19		9									28		
290-300		24		9									33		
300-310		34		6									40		
310-320		27		8									35		
320-330		26		8									34		
330-340		78		9									87		
340-350		37		7									44		
	Ave.	90.6%		99.1%											

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COMPAN: Sask. Mining Dev.

PROJECT No.: Andrew Bay 500110

ATTENTION: D. Chan

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

FILE No. 0-563

DATE: Aug. 8,

1980.

Sample Number	6 % 85	10 % 90	15 % 95	20 Pb ppm 100	25 Zn ppm 105	30 Ni ppm 110	35 Co ppm 115	40 Ag ppm 120	45 Fe ppm 125	50 Hg ppb 130	55 As ppm 135	60 Mn ppm 140	65 Au ppb 145	70 Cu ppm 150	75 Mo ppm 155	80 ppm 160
ABPH#2	-1.30	-1.40												7.3	4	
	1.40	-1.50												5.3	4	
	1.50	-1.60												5.8	3	
	1.60	-1.70												5.6	2	
	1.70	-1.80												5.5	4	
	1.80	-1.90												5.3	4	
	1.90	-2.00												4.6	4	
	2.00	-2.10												4.7	3	
	2.10	-2.20												3.8	2	
	2.20	-2.30												4.2	3	
	2.30	-2.40												3.7	8	
	2.40	-2.50												17.5	5	
	2.50	-2.60												5.2	4	
	2.60	-2.70												3.6	5	
	2.70	-2.80												3.6	6	
	2.80	-2.90												3.7	8	
	2.90	-3.00												3.5	8	
	3.00	-3.10												3.1	6	
	3.10	-3.20												6.4	7	
ABPH#2	-3.20	-3.30												14.0	6	

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COMPAS Sask. Mining Dev.

PROJECT No.: Andrew Bay 500110

ATTENTION: D. Chan

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

File No. 0-61

DATE: Aug. 1,

1980.

Sample Number	As ppm	Sb ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm	Mo ppm		
81	84	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ABPH#7	-2.30	-2.40											1.6	4		
	2.40	-2.50											1.6	2		
	2.50	-2.60											1.2	2		
	2.60	-2.70											1.3	2		
	2.70	-2.80											1.2	2		
	2.80	-2.90											1.6	3		
	2.90	-3.00											2.0	4		
	3.00	-3.10											3.5	2		
	3.10	-3.20											3.9	2		
ABPH#7	-3.20	-3.30											3.8	2		
ABPH#6	-2.30	-2.40											1.3	2		
	2.40	-2.50											1.1	4		
	2.50	-2.60											.9	4		
	2.60	-2.70											1.0	2		
	2.70	-2.80											1.4	2		
ABPH#6	-2.80	-2.82											1.4	2		
ABPH#10	-1.7	-1.80											1.8	2		
	1.80	-1.90											2.0	4		
	1.90	-2.00											2.2	4		
	2.00	-2.10											1.8	4		
	2.10	-2.20											1.9	4		
	2.20	-2.30											1.8	3		
	2.30	-2.40											1.9	4		
	2.40	-2.50											1.8	3		
	2.50	-2.60											2.0	2		
ABPH#10	-2.60	-2.70											1.9	3		

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COMPANY: Sask. Mining Dev.

PROJECT No.: Andrew Bay 500110

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 0-611

DATE: Aug. 12

ATTENTION: D. Chan

1980.

Sample Number	6 86	10 90	15 95	20 100	25 105	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
				Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm	Mo ppm	
ABPH#9	-7.0	-8.0												1.5	3	
	8.0	9.0												1.2	2	
	9.0	10.0												1.6	4	
	10.0	11.0												1.5	3	
	11.0	12.0												1.4	2	
	12.0	13.0												1.2	4	
	13.0	14.0												1.4	2	
	14.0	15.0												1.5	2	
	15.0	16.0												1.3	3	
	16.0	17.0												1.5	3	
	17.0	18.0												1.4	2	
	18.0	19.0												1.4	4	
	19.0	20.0												1.8	3	
	20.0	21.0												1.5	2	
	21.0	22.0												1.4	4	
	22.0	23.0												1.4	3	
	23.0	24.0												1.6	5	
	24.0	25.0												1.6	2	
	25.0	26.0												1.6	3	
	26.0	27.0												1.8	3	
	27.0	28.0												1.6	2	
	28.0	29.0												1.3	4	
	29.0	30.0												1.2	5	
	30.0	31.0												1.4	4	
	31.0	32.0												1.9	3	
ABPH#9	-32.0	-33.0												3.8	36	
ABPH#7	-19.0	-20.0												2.0	2	
	20.0	21.0												1.9	3	
	21.0	22.0												1.6	3	
	22.0	23.0												1.5	2	

COMPAN: Sask. Mining Dev.

PROJECT No.: Andrew Bay 500110

ATTENTION: D. Chan

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

FILE No. 0-675

DATE: Aug. 19

1980.

Sample Number	As ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Mo ppm	From	To (m)	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ABOD108		275							A B P H	011			6	190	200	
109		41							A B P H	012			10	250	260	
110		165											18	260	270	
111		154							A B P H	013			17	153	160	
112		59											6			
113		103											6			
114		139											15			
115		124											14			
116		no sample														
117		116											15			
118		105											7			
119		146											8			
120		210											16			
121		150											10	250		
122		24							A B P H	014			6	60		
123		13											4			
124		15											8			
125		24											4			
126		29											5			
127		27											6			
128		18											6			
129		21											7			
130		15											6			
131		21											6			
132		17											6			
133		19											4			
134		19											6			
135		28											4			
136		21											5			
ABOD137		19											6			

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220

COMPANY: Sask. Mining Dev.

PROJECT No: Andrew Bay 500110

ATTENTION: D. Chan

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 0-675

DATE: Aug. 19

1980.

Sample Number	6 86	10 99	15 95	20 100	25 105	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Mo ppm	Metres		
A30D13	8	2.3							A B P. H.	0.14			7	2.20		
139		2.4											4			
140		2.3											6			
141		2.2											6			
142		1.7											5			
143		1.8											5			
144		1.6											6			
145		2.0											7			
146		1.5											5			
147		2.5											8			
148		1.7											4	3.30		
149		6.3							A B P. H.	0.15			6	1.65 - 1.70		
150		5.9											6			
151		5.1											5			
152		5.3											8			
153		4.9											4			
154		4.4											8			
155		4.9											11			
156		6.2											6			
157		8.4											5			
158		7.0											6			
159		5.9											6			
160		7.5											8			
161		6.9											7			
162		5.9											6			
163		8.7											6			
164		7.4											5			
165		15.7											18	3.30		
166		31.5							A B P. H.	0.16			6.2	9 - 120		
A30D167		4.25											6.0			

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COMPAN: Sask. Mining Dev.

PROJECT No.: Andrew Bay 500110

ATTENTION: D. Chan

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 151st ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 0-675

DATE: Aug. 19

1980.

Sample Number	Mg ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Mo ppm	Metres		
6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ABOD168		29.0							A, B, P, H	0.16			6.6	30		
169		47.0											19.5			
170		59.5											6.7			
171		44.0											9.6			
172		61.0											7.2			
173		49.0											5.4			
174		58.5											7.3			
175		51.0											2.8			
176		31.5											2.0			
177		34.0											2.5			
178		67.0											2.2			
179		89.5											19.5			
180		73.0											11.0			
181		60.0											10.6			
182		2.60											28.0			
183		18.7											5.4			
184		19.5											28.0			
185		38.0											13.0			
186		36.0											7.5			
187		30.0											6.0			
188		37.5											17.9	240		
189		52.0							A, B, P, H	0.17			2.7	88	90	
190		46.0											5.0			
191		51.5											5.2			
192		65.0											4.5			
193		59.5											3.6			
194		85.0											3.1			
195		120.0											3.8			
196		10.10											8.9			
ABOD197		99.0											4.8			

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COMPANY: Sask. Mining Dev.
 PROJECT No.: Andrew Bay 500110

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.
 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
 PHONE (604) 980-5814

FILE No. 0-675

DATE: Aug. 19

ATTENTION: D. Chan

1980.

Sample Number	6 % 86	10 % 90	15 Cu ppm 95	20 Pb ppm 100	25 Zn ppm 105	30 Ni ppm 110	35 Co ppm 115	40 Ag ppm 120	45 Fe ppm 125	50 Hg ppb 130	55 As ppm 135	60 Mn ppm 140	65 Au ppb 145	70 Mo ppm 150	75 Metres 155	80 160
ABOD198			95.0							A, B P, H, 0.17				39	1.70	
199			67.5											40		
200			74.0											47		
201			52.5											24		
202			61.5											62		
203			117.0											145		
204			80.0											43		
205			76.0											56		
206			60.0											82		
207			55.5											34		
208			68.0											40		
209			77.0											43		
210			75.0											65		
211			52.0											56		
212			63.0											44		
A.E.O.D.213			50.0							END OF AB P, H, 0.17				28	3.30	

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COMPAN: Sask. Mining Dev.

PROJECT No.: Andrew Bay 500110

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

FILE No. 0-712

DATE: Aug. 25

ATTENTION: D. Chan

1980.

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	%	%	Pb	Zn	Ni	Co	Ag	Fe	Hg	As	Mn	Au	Mo	Cu		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppm	ppm	ppm	ppm
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ABPHO18	8-5.7	-6.0												2	3.8	
	6.0	-7.0												3	4.9	
	7.0	-8.0												2	5.2	
	8.0	-9.0												1	5.5	
	9.0	-10.0												6	5.1	
	1.0	0-11.0												5	2.7	
	1.1	0-12.0												4	3.6	
	1.2	0-13.0												8	4.3	
	1.3	0-14.0												5	4.6	
	1.4	0-15.0												8	5.2	
	1.5	0-16.0												14	10.7	
	1.6	0-17.0												6	12.2	
	1.7	0-18.0												6	7.7	
	1.8	0-19.0												4	5.8	
	1.9	0-20.0												5	5.1	
	2.0	0-21.0												9	4.9	
	2.1	0-22.0												8	2.8	
	2.2	0-23.0												6	2.7	
	2.3	0-24.0												5	2.1	
	2.4	0-25.0												9	1.9	
	2.5	0-26.0												6	2.4	
	2.6	0-27.0												6	1.9	
	2.7	0-28.0												7	4.5	
	2.8	0-29.0												5	3.3	
	2.9	0-30.0												8	2.5	
	3.0	0-31.0												7	3.3	
	3.1	0-32.0												5	3.1	
ABPHO18	8-3.2	0-3.3												8	3.0	
ABPHO19	6.3	-7.0												11	6.2	
ABPHO19	7.0	-8.0												7	6.0	

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COMPAN Sask. Mining Dev.
 PROJECT No.: Andrew Bay 500110

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 PHONE (604) 980-5814

FILE No. 0-712

DATE: Aug. 25
1980.

ATTENTION: D. Chan

Sample Number	6 86	10 90	15 95	20 100	25 105	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
	X _u %	X _m %	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Mo ppm	Cu ppm		
ABPH01	9-80	-90												3	148	
	90-100													4	188	
	100-110													3	285	
	110-120													4	241	
	120-130													4	156	
	130-140													6	97	
	140-150													4	80	
	150-160													4	116	
	160-170													6	138	
	170-180													4	68	
	180-190													3	57	
	190-200													6	193	
	200-210													4	98	
	210-220													4	80	
	220-230													4	87	
	230-240													16	52	
	240-250													9	73	
	250-260													3	88	
ABPH01	9-260	-265												5	67	
ABPH02	0-137	-150	(Changed according to bags.)													
	150-160													4	277	
	160-170													16	660	
	170-180													7	327	
	180-190													42	788	
	190-200													35	206	
	200-210													42	191	
	210-220													61	280	
	220-230													24	235	
	230-240													26	303	
ABPH02	0-240	-250												9	184	

COMPAN: Sask. Mining Dev.

PROJECT No.: Andrew Bay 004941

ATTENTION: D. Chan

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

PHONE (604) 980-5814

FILE No. Q-769

DATE: Sept. 4

1980.

Sample Number	As ppm	Cd ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm	Mo ppm		
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
AB-PHO 22-7		7-80												48	7	
		80-90												64	6	
		90-100												44	4	
		100-110												35	7	
		110-120												34	3	
		120-130												48	3	
		130-140												34	5	
		140-150												50	3	
		150-160												44	2	
		160-170												39	3	
		170-180												46	4	
		180-190												47	11	
AB-PHO 22-1		90-198												46	10	
AB-PHO 23-2		0-30												1	4	
		30-40												1	5	
		40-50												39	2	
		50-60												73	2	
		60-70												65	3	
		70-80												34	2	
		80-90												55	1	
		90-100												19	2	
		100-110												6	4	
		110-120												16	4	
		120-130												17	2	
		130-140												18	5	
		140-150												30	2	
		150-160												36	4	
		160-170												45	4	
AB-PHO 23-1		70-180												35	2	
AB-PHO 23-1		80-190												37	2	

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COMPAN: Sask. Mining Dev.
 PROJECT No.: Andrew Bay 004941
 ATTENTION: D. Chan

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.
 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
 PHONE (604) 980-5814

FILE No. 0-769
 DATE: Sept. 4
1980.

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
El	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
	K ₂ O ppm	CaO ppm	MgO ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm	Mo ppm		
AB-PHO	2.3	1	9.0-20.0											5.5	8	
		2	0.0-21.0											2.8	3	
		2	1.0-22.0											2.9	3	
		2	2.0-23.0											2.0	3	
		2	3.0-24.0											2.6	6	
		2	4.0-25.0											2.3	4	
		2	5.0-26.0											4.1	2	
		2	6.0-27.0											3.8	4	
		2	7.0-28.0											9.3	3	
		2	8.0-29.0											6.3	3	
		2	9.0-30.0											4.5	8	
AB-PHO	2.3	3	0.0-31.0											5.8	9	
AB-PHO	2.4	1	5.0-16.0											4.6	3	
AB-PHO	2.5	4	1.-5.0											3.0	7	
			5.0-6.0											1.8	8	
			6.0-7.0											1.1	3	
			7.0-8.0											1.0	2	
			8.0-9.0											5.0	2	
			9.0-10.0											1.02	2	
			10.0-11.0											9.1	3	
			11.0-12.0											8.0	5	
			12.0-13.0											5.6	3	
			13.0-14.0											5.9	2	
			14.0-15.0											4.5	2	
			15.0-16.0											4.9	3	
			16.0-17.0											7.4	3	
			17.0-18.0											5.5	4	
			18.0-19.0											5.8	4	
			19.0-20.0											3.7	4	
AB-PHO	2.5	2	0.0-21.0											5.27	3	

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COMPANY Sask. Mining Dev.

PROJECT No.: Whiting 4942

ATTENTION: R. Cann

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

FILE No. 0-833

DATE: Sept. 30

1980.

Sample Number	As	Pb	Zn	Ni	Co	Ag	Fe	Hg	As	Mn	Au	Mo	Cu			
81	84	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ABPHO26	6	3.7	4.0									2	2.8			
		4.0	5.0									6	1.3			
		5.0	6.0									4	3.6			
		6.0	7.0									3	3.5			
		7.0	8.0									5	3.3			
		8.0	9.0									4	3.3			
		9.0	10.0									6	3.5			
		10.0	11.0									6	5.4			
		11.0	12.0									7	3.0			
		12.0	13.0									9	3.1			
		13.0	14.0									4	4.1			
		14.0	15.0									5	3.2			
		15.0	16.0									6	4.2			
		16.0	17.0									4	3.6			
		17.0	18.0									5	3.3			
		18.0	19.0									5	2.9			
		19.0	20.0									5	1.2			
		20.0	21.0									6	3.3			
		21.0	22.0									8	1.5			
		22.0	23.0									10	7			
		23.0	24.0									8	1.4			
		24.0	25.0									4	3.2			
		25.0	26.0									3	3.1			
		26.0	27.0									3	3.6			
		27.0	28.0									3	4.7			
		28.0	29.0									6	2.3			
		29.0	30.0									5	8.4			
		30.0	31.0									5	26.5			
		31.0	32.0									10	3.6			
ABPHO26	6	3.2	3.0									6	1.27			

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COMPAN: Sask. Mining Dev.

PROJECT No.: Whiting 4942

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

FILE

ATTENTION: R. Cann

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75		
	%	%	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Mo ppm	Cu ppm			
	81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ABPH02	7.42	5.0														no sample	
	5.0	6.0														6	21
	6.0	7.0														4	28
	7.0	8.0														3	36
	8.0	9.0														2	25
	9.0	10.0														2	32
	10.0	11.0														3	19
	11.0	12.0														4	22
	12.0	13.0														5	11
	13.0	14.0														4	12
	14.0	15.0														6	6
	15.0	16.0														4	12
	16.0	17.0														4	18
	17.0	18.0														2	11
	18.0	19.0														2	11
	19.0	20.0														2	12
	20.0	21.0														4	31
	21.0	22.0														3	23
	22.0	23.0														2	17
	23.0	24.0														4	15
	24.0	25.0														8	20
	25.0	26.0														5	12
	26.0	27.0														3	9
	27.0	28.0														3	9
	28.0	29.0														4	7
	29.0	30.0														2	11
	30.0	31.0														6	41
	31.0	32.0														3	26
ABPH027	32.0	33.0														2	18
ABPH028	57	60														4	23

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COMPAN Sask. Mining Dev.

PROJECT No: Whiting 4942

ATTENTION: R. Cann

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

File No. 0-833

DATE: Sept. 2

1980.

Sample Number	K ₂ O %	Ca %	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Mo ppm	Cu ppm	
6 81	10 90	15 95	20 100	25 105	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
ABPH028	6.0	7.0					.						4	16	
	7.0	8.0					.						3	40	
	8.0	9.0					.						2	45	
	9.0	10.0					.						4	41	
	1.00	1.10					.						4	47	
	1.10	1.20					.						2	48	
	1.20	1.30					.						3	49	
	1.30	1.40					.						5	32	
	1.40	1.50					.						6	12	
	1.50	1.60					.						3	11	
	1.60	1.70					.						3	14	
	1.70	1.80					.						5	8	
	1.80	1.90					.						6	6	
	1.90	2.00					.						9	6	
	2.00	2.10					.						8	5	
	2.10	2.20					.						3	6	
	2.20	2.30					.						6	6	
	2.30	2.40					.						7	11	
	2.40	2.50					.						9	12	
	2.50	2.60					.						8	6	
	2.60	2.70					.						5	6	
	2.70	2.80					.						7	6	
	2.80	2.90					.						5	5	
	2.90	3.00					.						4	5	
	3.00	3.10					.						6	5	
	3.10	3.20					.						7	5	
ABPH028	3.20	3.30					.						6	5	
ABPH029	7.5	8.0					.						3	16	
	8.0	9.0					.						4	15	
ABPH029	9.0	10.0					.						4	24	

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COMPACT Sask. Mining Dev.

PROJECT No.: Whiting 4942

GEOCHEMICAL ANALYSIS DATA SHEET

MIN-EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 0-833

DATE: Sept. 30

ATTENTION: R. Cann

1980.

Sample Number	As ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Mo ppm	Cu ppm		
6 86	10 90	15 95	20 100	25 105	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
ABPH02	9-1.0	0-1.0											2	14	
	1.0-1.2	1.0-1.2											3	16	
	1.2-1.3	1.0-1.3											3	8	
	1.3-1.4	1.0-1.4											6	6	
	1.4-1.5	1.0-1.5											3	5	
	1.5-1.6	1.0-1.6											6	5	
	1.6-1.7	1.0-1.7											4	5	
	1.7-1.8	1.0-1.8											5	6	
	1.8-1.9	1.0-1.9											6	7	
	1.9-2.0	1.0-2.0											3	6	
	2.0-2.1	1.0-2.1											4	7	
	2.1-2.2	1.0-2.2											5	5	
	2.2-2.3	1.0-2.3											2	5	
	2.3-2.4	1.0-2.4											2	6	
	2.4-2.5	1.0-2.5											1	4	
	2.5-2.6	1.0-2.6											8	3.0	
	2.6-2.7	1.0-2.7											7	6.5	
	2.7-2.8	1.0-2.8											6	4.7	
	2.8-2.9	1.0-2.9											10	4.0	
	2.9-3.0	1.0-3.0											1.2	4.1	
ABPH029															
ABPH030	0-2.0	3.0											1.1	2.5	
	3.0-4.0	4.0											9	2.9	
	4.0-5.0	5.0											8	3.0	
	5.0-6.0	6.0											1.3	2.8	
	6.0-7.0	7.0											10	2.7	
	7.0-8.0	8.0											1.1	2.1	
ABPH030	8.0-9.0	9.0											4	2.0	

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COMPAN Sask. Mining Dev.

PROJECT No.: Whiting 4942

ATTENTION: R. Cann

GEOCHEMICAL ANALYSIS DATA SHEET

MIN-EN Laboratories Ltd.

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5914

File No. 0-833

DATE: Oct. 2,

1980.

Sample Number	As ppm	Cd ppb	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fa ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Mo ppm	Cu ppm	
6 81	10 86	15 95	20 100	25 105	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
ABPH030-90-100													3.8	4.4	
													4	2.2	
													3	2.7	
													3	4.8	
													6	2.4	
													2	2.1	
													3	3.2	
													5	3.7	
													3	2.1	
													3	1.3	
ABPH030-190-200													3	1.4	
WCPH001-35-40													12.0	4.58	
													25.8	10.40	
													15.8	4.96	
													15.8	7.25	
													9.7	11.10	
													9.4	10.35	
													8.2	9.65	
													9.9	10.65	
													24.6	17.70	
													14.8	13.65	
													10.2	19.60	
													8.6	17.25	
													5.2	17.30	
													5.9	17.05	
													6.2	21.50	
													4.9	16.55	
													6.1	14.80	
													6.1	14.15	
WCPH001-210-220													5.4	14.05	

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APPENDIX C

SERVICE CONTRACT NO. 91

PERCUSSION DRILLING

CONTRACT NO.

91

MEMORANDUM OF AGREEMENT made this 27th day of March 1980

BETWEEN:

SMD MINING COMPANY LIMITED

Hereinafter referred to as "SMDC"

AND:

TONTO DRILLING COMPANY
1215 West 7th Avenue
Vancouver, B.C.
V6H 1B7

Hereinafter referred to as "Contractor"

WHEREAS SMDC has requested the Contractor to perform certain drilling and other services as herein set forth on its mineral properties designated as Andrew Bay and Whiting Creek, Omenica Mining District, B.C.

AND WHEREAS the Contractor in consideration of payments set forth herein has agreed to perform the said drilling and other services.

THIS agreement witnesseth that the parties hereto mutually agree to the covenants hereinafter contained:

1. GENERAL

The Contractor agrees to sink standpiping and/or casing through overburden and to recover core from bedrock as directed by SMDC and to perform such other services as requested by SMDC according to conditions and provisos hereinafter set forth provided, however, that the Contractor does not unconditionally guarantee to complete any hole in which conditions are such that completion is not possible with the specified equipment and employing good drilling practice.

2. EXTENT OF CONTRACT

The Contractor agrees to drill and SMDC agrees to pay for:

A minimum of 6,500 lineal metres of percussion drilling

A maximum of 9,000 lineal metres of percussion drilling

The extent of contract shall be determined as the sum total of all holes duly completed and measured from the top of casing or standpipe to the bottom of the hole and shall include holes abandoned by mutual consent of the parties hereto.

SMDC reserves the right to terminate the contract at any time after completion of the minimum total metreage.

The Contractor agrees to terminate the contract at the request of SMDC at any time after the minimum metreage has been completed.

The Contractor agrees to continue drilling at the request of SMDC up to the maximum metreage.

Extension of the contract beyond the maximum metreage listed above will be subject to re-negotiation.

3. DESIGN OF PROGRAM

The parties hereto mutually agree that:

Diameter of holes shall be at least two inches.

Maximum depth (length) of hole shall be approximately 120 metres.

Minimum depth (length) of hole shall be approximately 30 metres.

Average depth of hole shall be approximately 85 metres. *280*

The angle of inclination of holes will be 90° for almost all holes.

4. LABOR, EQUIPMENT, MATERIALS

The Contractor, at its cost, will provide all labor including skilled operators at no time to be less than a two-man crew per machine operating.

The Contractor at its cost will provide all equipment and materials necessary to properly operate and maintain drilling rigs which will specifically include the following equipment:

Drilling rig: BBE-57-01 Drill with an approximate capacity of 120 metres of 2" hole.

Compressor: 750 Holman with approximate capacity of 750 CFM at 100 psi

Sufficient casing to penetrate 50 metres of overburden.

Sufficient 1 1/4" rods to drill holes up to 120 metres in depth (length).

All necessary sampling and ancillary equipment.

5. SCHEDULE OF RATES

5.1 Percussion Drilling:

SMDC agrees to pay the Contractor for test hole drilling in overburden and bedrock to recover cuttings at the following rate of \$ 18.40 per lineal metre of hole. Depth measurements used to determine amounts due Contractor shall be based on metreage as measured from top of casing.

The Contractor shall make every reasonable attempt to recover cuttings from bedrock.

5.2 Stand-By Rates:

It is mutually agreed by the parties hereto that certain costs as specified herein will not be covered by the price per metre rates but will be charged to SMDC as "stand-by", according to the following schedule:

	<u>Stand-By Time</u>
Labor	<u>\$22.00</u> per man hour
Drill & Equipment	<u>\$35.00</u> per machine hour

Maximum labor stand-by time will be 8 hours per day per man including Foreman.

Maximum drill stand-by time will be 8 hours per day.

It is mutually agreed that "Drill & Equipment" shall include the drilling machine, compressor, drilling rods and all other tools and accessories necessary for the operation of the drill unless otherwise specified herein. "Stand-By Time" is defined as any time the drill is not operating at the request of SMDC or any delays in the drilling resulting from neglect on the part of SMDC's representative such as not having a hole spotted sufficiently in advance of drill set-up.

6. EQUIPMENT LEFT IN HOLE

It is mutually agreed by the parties hereto that materials left in the hole shall not be charged to SMDC except, that when more than 18.3 metres (60 feet) of casing or 100.6 metres (330 feet) of drill rods are employed, SMDC agrees to pay the Contractor for such equipment at the following rates:

Casing:	Replacement Cost plus 10%
Casing Couplings:	Replacement Cost plus 10%
Casing Ring Bits:	Replacement Cost plus 10%
Drill Rods:	Replacement Cost plus 10%
Drill Rod Coupling:	Replacement Cost plus 10%

7. MOBILIZATION

SMDC agrees to pay the Contractor for moving its men, equipment, and supplies to the project area for a lump sum of \$2,000.

SMDC agrees to pay the Contractor for removing its men, equipment and supplies from the project area for a lump sum of \$2,000.

8. MOVING ON PROJECT AREA

To be at Contractor's expense.

9. TRANSPORTATION OF MEN TO AND FROM CAMP TO DRILL SITES

The Contractor agrees that where vehicular transport of men is feasible, transport of men to and from campsite to drill sites is at its own expense.

The Contractor agrees that where vehicular transport of men to and from campsite to drill sites is not feasible, walking time will be at its own expense provided that the walking time one way does not exceed two kilometres.

10. CAMP

At Andrew Bay, accommodation at a nearby logging camp is believed to be available for the drill crew at Contractor's expense. At Whiting Creek, SMDC agrees to provide at its cost a suitable camp, which will provide accommodation for the two-man drill crew.

11. Sample Handling

The Contractor agrees to assist the SMDC representative in sample collection, handling, and transport to the base camp:

The Contractor agrees to provide sampling equipment to collect samples at intervals of not less than three metres (or 10 feet) provided, however, that if there is no return of cuttings, no samples will be collected. At completion of each 10 foot run the drilling medium (air and/or water) will be circulated for a sufficient length of time to clear the cuttings from the hole.

12. MUD & ADDITIVES

The Contractor agrees when necessary to add drilling mud and such other additives to the drilling fluid and agrees to have such materials available on short notice. SMDC may specify a degradable organic-based drilling mud and chemicals suitable for flushing same.

SMDC agrees to pay for such drilling mud and additives at field costs specified herein.

Should the Contractor's representative deem the use of mud and/or additives necessary to optimum drilling results, he shall so notify the SMDC representative and with the consent of the SMDC representative will proceed using such mud and/or additives.

The Contractor agrees to supply such mud and/or additives and SMDC agrees to pay for same at the following rates FOB the drill site:

Quik gel or equivalent \$ _____ per _____ pound bag

DELIVERED COST PLUS 10%

13. DRILLING REPORTS

The Contractor agrees to complete daily drilling reports supplied by the Contractor and to submit two copies of same to SMDC's representative without delay.

The Contractor will also supply the SMDC's representative with daily reports of any third party services which may subsequently be charged to SMDC.

The SMDC's representative will examine daily reports promptly and either:

- (a) Sign the daily report and return one copy to the Contractors' representative, or
- (b) In the event of a dispute regarding charges which cannot be resolved on the job, will make qualifying notes on the report, or attached thereto, sign the report and return it to the Contractor's representative.

14. INVOICING AND PAYMENTS

The Contractor shall submit to SMDC invoices in triplicate with separate sheets for each machine in operation at the end of the first 15 days of each calendar month and at the end of each calendar month, copies shall be distributed as follows:

- (a) Two copies to the designated Project Geologist at his base of operations.
- (b) One copy to the SMDC head office in Saskatoon to the attention of the Senior Geologist-Exploration - J. S. Kermeen

The Contractor shall attach to one copy of the invoice sent to the Project Geologist, copies of daily drilling reports, a price list or invoice from a recognized supplier showing prices of equipment and materials charged to SMDC, and copies of daily reports for any third party services being charged to SMDC.

Any invoice not disputed by SMDC shall be paid promptly.

In the event SMDC disputes an invoice, it will pay the undisputed portion of the invoice promptly and will attach written details of the disputed charges to a copy of the invoice and return it with payment to the Contractor.

Undisputed invoices shall be payable within 30 days of receipt by SMDC, interest on overdue accounts will be charged at 18% per annum calculated monthly.

Disputed charges will not be considered payable until 30 days after the dispute is settled.

15. RIGHTS OF WAY

SMDC agrees, at its own expense, to provide all rights-of-way, all rights of ingress and egress and all real property that may be required in connection with the said work, including real property upon which temporary buildings may be erected, and other facilities required, and shall also warrant the quiet and peaceful possession of all such real property, and hereby indemnifies and saves the Contractor harmless from any and all damages, claims, demands, costs, charges, actions, suits and other proceedings of whatever kind or character by whomsoever made, brought or prosecuted incident to this covenant by SMDC.

16. POLLUTION AND CONDITION OF PREMISES

The Contractor agrees at its own expense to keep the premises in a condition consistent with good workmanship and safe operation and to comply with all government regulations regarding pollution of air, water or land including approved disposal of waste materials and removal of all materials from the premises at the end of the job.

The Contractor agrees to indemnify and hold SMDC harmless from any or all claims, expenses, loss and damages resulting from Contractor's negligence, or Contractor's violation of any federal, provincial, municipal or other governmental law, rule or regulation.

17. INSURANCE

Contractor and any of its (his) subcontractors which are approved in writing by SMDC covenant to carry and maintain through the currency of this Agreement the following insurance with a reputable insurance company or companies with limits of not less than:

18. RISK OF LOSS AND DAMAGE TO EQUIPMENT

All risk of loss and damage to any equipment, materials and supplies owned or hired by Contractor or its (his) subcontractors shall be totally borne by Contractor or any such subcontractor at all times during the performance of this Agreement and when such property is being transported to and from any area where the work hereunder is to be performed. Contractor shall indemnify and hold SMDC harmless from and against all such loss and damage. Should Contractor insure said tools and equipment, such policies of insurance shall contain a waiver of subrogation in favour of SMDC.

19. SECURITY AND NON-ACQUISITIONS

All information and data obtained by, or coming to the attention of Contractor, its (his) servants, agents and workmen during the course of the work to be performed under this Agreement shall be for the exclusive use and benefit of SMDC and shall remain SMDC's exclusive and secret property forever. Contractor hereby covenants and agrees he shall make his best effort to ensure as follows:

1. that neither Contractor nor any of its (his) servants, agents or workmen shall divulge to anyone, other than SMDC and its duly authorized representatives, any information concerning the progress or results of the work being conducted under this Agreement;
2. that neither Contractor nor any of its (his) servants, agents, or workmen shall, in any manner, make use of any information which may be gained by them in respect of the said work, except for the sole and exclusive benefit of SMDC.
3. that Contractor shall not, either directly or indirectly, acquire for itself or for any other person, any mineral interest within the work area or within a distance of 2 miles outside of the boundaries of the work area during 2 years after the date hereof.

20. TAXES

Contractor and its (his) subcontractor(s) shall pay all taxes, licenses and fees levied or assessed on Contractor in connection with or incident to the performance of this Agreement by any governmental

agency for sales and use tax, unemployment compensation insurance, old age benefits, social insurance, or any other taxes.

Contractor shall reimburse SMDC on demand for all such taxes or governmental charges, provincial or federal, which SMDC may be required to or deem it necessary to pay on account of employees of Contractor or its (his) subcontractors. Contractor shall furnish SMDC with the information required to enable it to make the necessary reports and to pay such taxes or charges. At its election, SMDC may deduct all sums so paid for such taxes and governmental charges from such amounts as may be or become due to Contractor hereunder.

Contractor agrees that any federal, provincial, or municipal taxes applicable to the materials, good, or equipment consumed by Contractor in the performance of this Agreement, are for the account of, and will be paid by, Contractor and that any rates or charges contained in this Agreement are inclusive of such taxes.

21. CANCELLATION

This agreement may be cancelled with the mutual consent of the parties hereto.

22. SUCCESSORS BOUND

This Agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns; except that, this Agreement shall not be assigned or subcontracted by Contractor without the prior written consent of SMDC.

23. SEVERABILITY

If any portion of this Agreement is invalid, illegal or contrary to law, that portion shall be stricken herefrom, and the remainder of this Agreement shall be unaffected thereby.

24. INTERPRETATION - PROVINCIAL LAWS

Any dispute arising under this Agreement shall be interpreted and determined in accordance with the laws of the Province of Saskatchewan.

25. INDEPENDENT CONTRACTOR

Contractor hereby represents to SMDC that it (she) has its (his) own business office, and notwithstanding anything to the contrary in this Agreement, express or implied, the status of Contractor shall be that

of an independent contractor and not a servant of SMDC. Further, no employee or agent of Contractor engaged on the work herein to be performed by Contractor shall be treated or considered as an employee or agent of SMDC. SMDC shall have no direction or control of Contractor, its (his) employees and agents except in the result to be obtained hereunder. Contractor shall have no authority to, and shall not, pledge the credit of SMDC.

26. FORCE MAJEURE

Notwithstanding anything in this Agreement, express or implied, any obligation of a party hereto shall be suspended for so long as such party is prevented from discharging the same, in whole or in part, by reason of any law, order or regulation or by reason of any occurrence, matter or state of affairs beyond the control of the party affected; except that, in no case shall lack of funds constitute an occurrence, matter or state of affairs beyond the control of such party.

27. SERVICE

Any notice required to be given hereunder shall be properly given if mailed by registered letter addressed to SMDC as follows:

Saskatchewan Mining Development Corporation
122 - Third Avenue North
SASKATOON, Saskatchewan
S7K 2H6

or if mailed by registered letter to the Contractor as follows:

Tonto Drilling Company
1215 West 7th Avenue
Vancouver, B.C.
V6H 1B7

IN WITNESS WHEREOF, the parties have executed this Agreement
as of the day and year first mentioned above.

ATTEST:

SASKATCHEWAN MINING DEVELOPMENT CORPORATION

M. A. Matyas

By L. L. Black

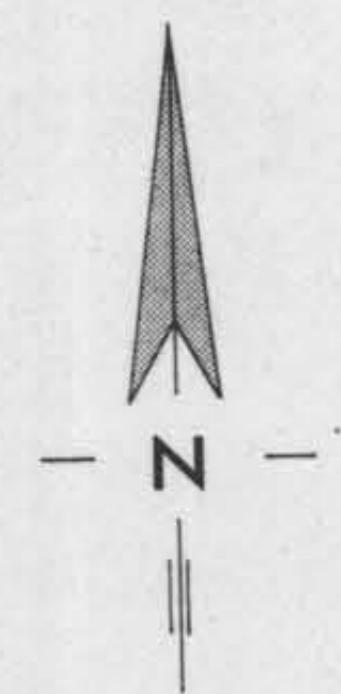
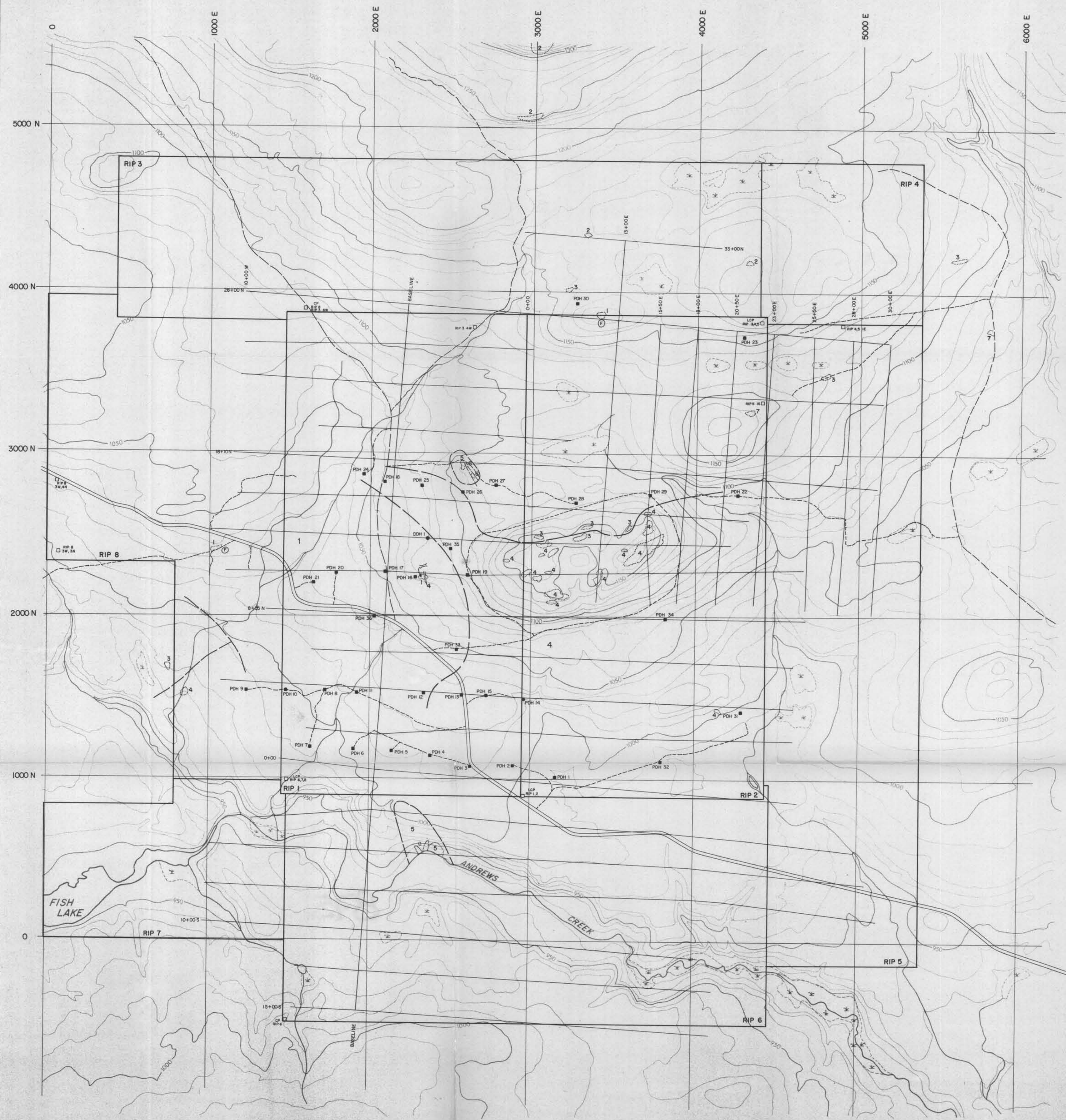
Position Exploration Manager

ATTEST:

Company TONTO DRILLING COMPANY

By [Signature]

Position Manager



LEGEND

- Main logging road
- Secondary logging road
- Trench
- Percussion drill hole
- Geological boundary (defined, assumed)
- Outcrop
- Fossil locality
- Diamond drill hole

- TERTIARY (?)**
- Volcanics : basalt, volcanic breccia
- EOCENE TO LOWER MIOCENE (?)**
- ENDAKO GROUP (?)**
- Massive, vesicular and amygdaloidal basalt and andesite; bladed feldspar porphyry basalt dyke.
 - Sediments : sandstone, boulder conglomerate, tuff, breccia
- LATE CRETACEOUS (?) or TERTIARY (?)**
- Quartz - feldspar porphyry
 - Felsite
- UPPER CRETACEOUS (?)**
- KASALKA GROUP (?)**
- Rhyolite to andesite flows, breccia, tuff; minor red conglomerate and sandstone at base

- LOWER JURASSIC**
- HAZELTON GROUP**
- Smithers Formation : Hornfels, fossiliferous greywacke, siltstone, volcanics

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8756
NO.




SMD MINING CO. LTD.			
GEOLOGY & DRILL HOLE LOCATIONS			
PROJECT	ANDREW BAY	DISPOSITION	RIP 1-8
NTS	93-E-15	SCALE	1:10,000
WORK BY	R.M. CANN	DATE	
DRAWN	C.D. DURBIN	MAP	1

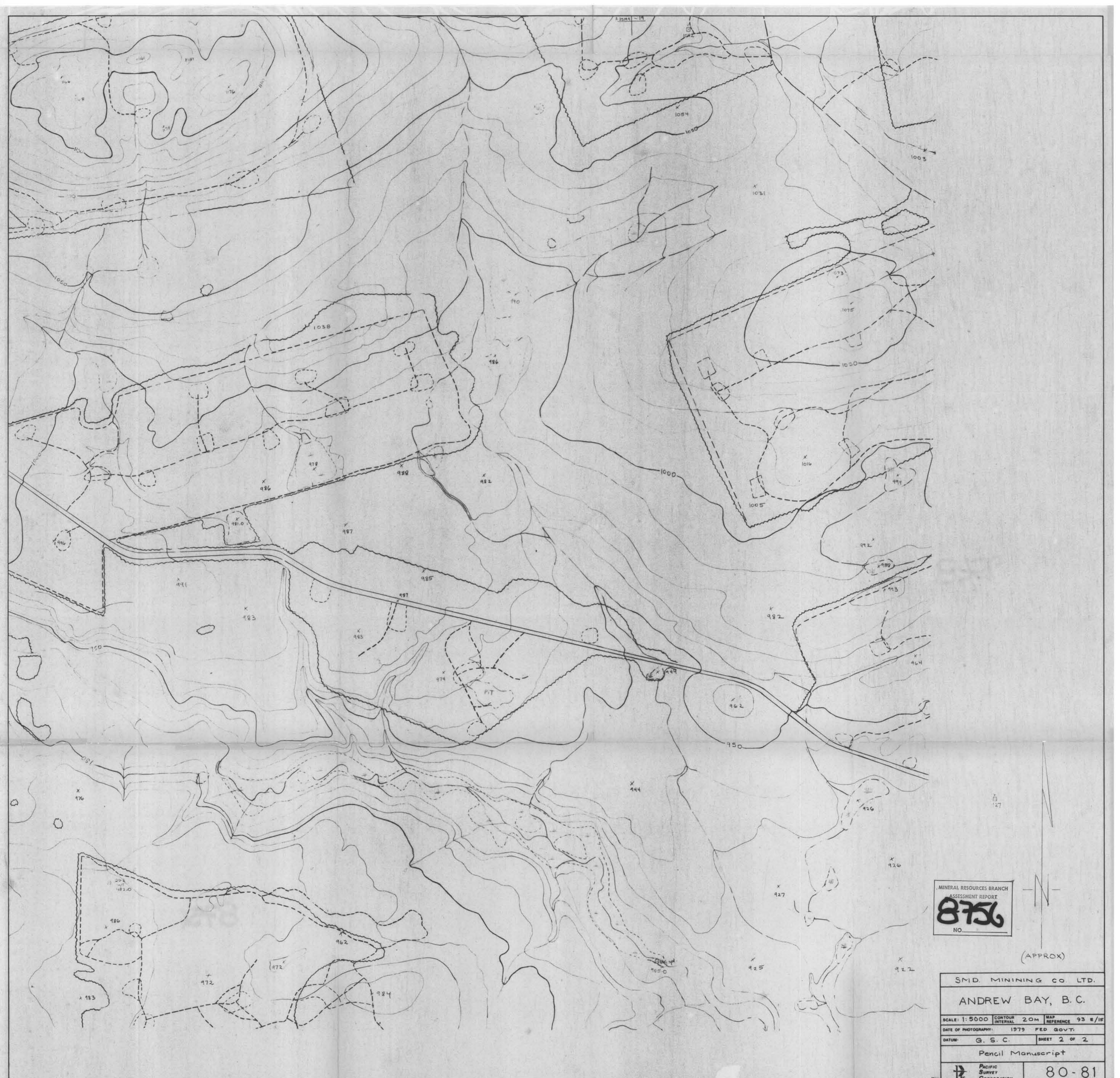
20-5
1124



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8756
NO

(APPROX)

SMD. MINING CO. LTD		
ANDREW BAY, B.C.		
SCALE-1:5000	CONTOUR INTERVAL 20M	MAP REFERENCE 93 E/15
DATE OF PHOTOGRAPHY: 1973 FEB GOVT.		
DATUM: G. S. C.	SHEET 1 OF 2	
Pencil Manuscript		
 PACIFIC SURVEY CORPORATION	80-81	
MAP 28		



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8756
NO. _____



S.M.D. MINING CO. LTD.		
ANDREW BAY, B.C.		
SCALE: 1:5000	CONTOUR INTERVAL: 20M	MAP REFERENCE: 93 E/15'
DATE OF PHOTOGRAPHY: 1979		
DATUM: G. S. C.		FED GOVT. SHEET 2 OF 2
Pencil Manuscript		
	PACIFIC SURVEY CORPORATION	80-81



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8756
NO.

(APPROX)

SNID MINING CO. LTD.

ANDREW BAY, B.C.

SCALE: 1:5000 CONTOUR INTERVAL 20M MAP REFERENCE 93 E/19

DATE OF PHOTOGRAPHY: 1979 FED GOVT.

DATUM: G. S. C. SHEET 2 OF 2

Pencil Manuscript

PACIFIC SURVEY CORPORATION

80-81

MAP 2D