WHITING CREEK PROJECT

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL

AND DRILLING REPORT

on the

WHIT 1 - 6 CLAIMS

Omineca Mining Division

NTS: 93E/11 and 14

LAT: 53° 45'N; LONG: 127° 12.5W

OPERATOR: SMD Mining Company Ltd.

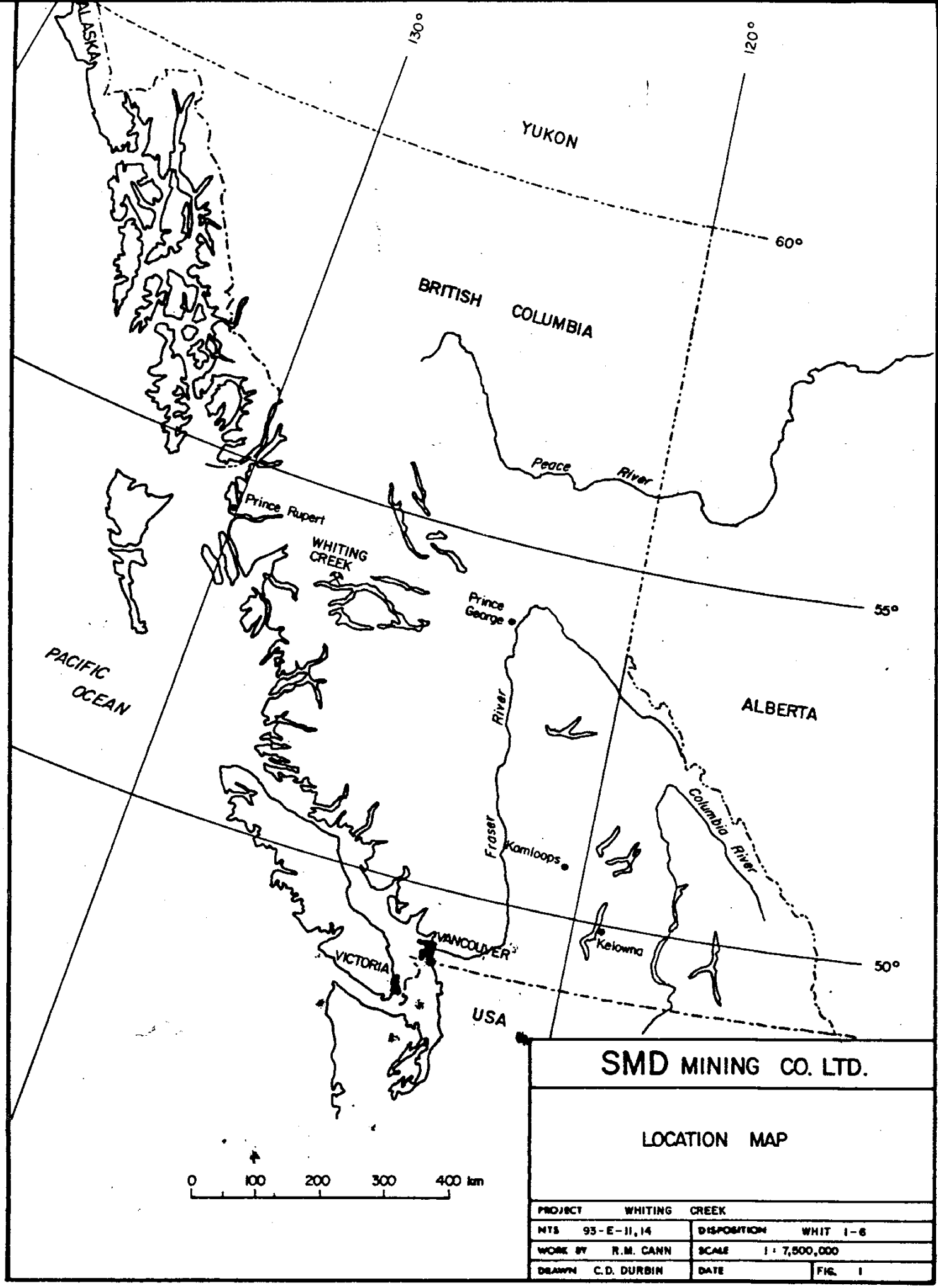
OWNER: Kennco Explorations (Western) Ltd.

R. Cann

Part 3
83

R. Mathews

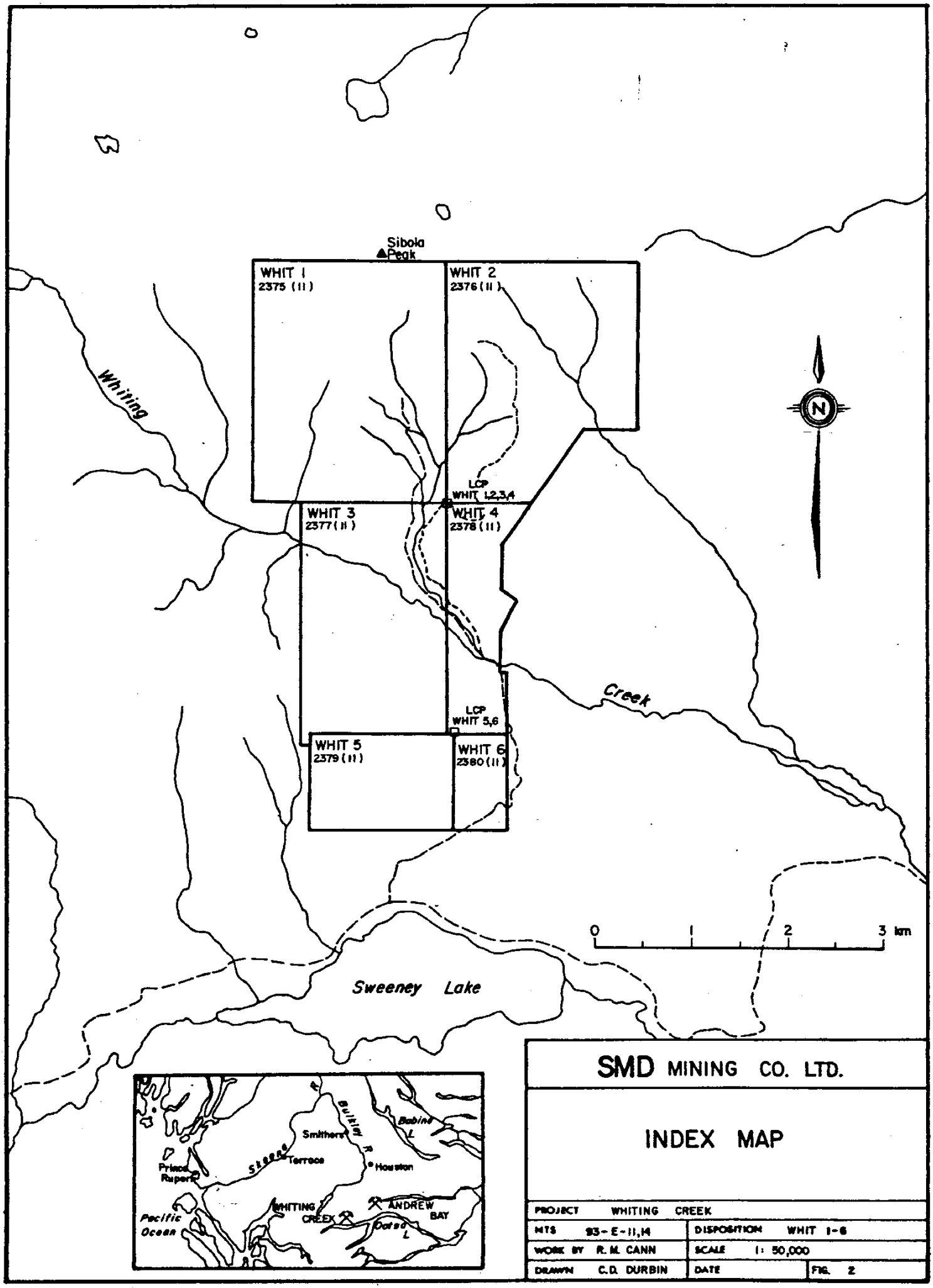
December 5, 1980



SMD MINING CO. LTD.

LOCATION MAP

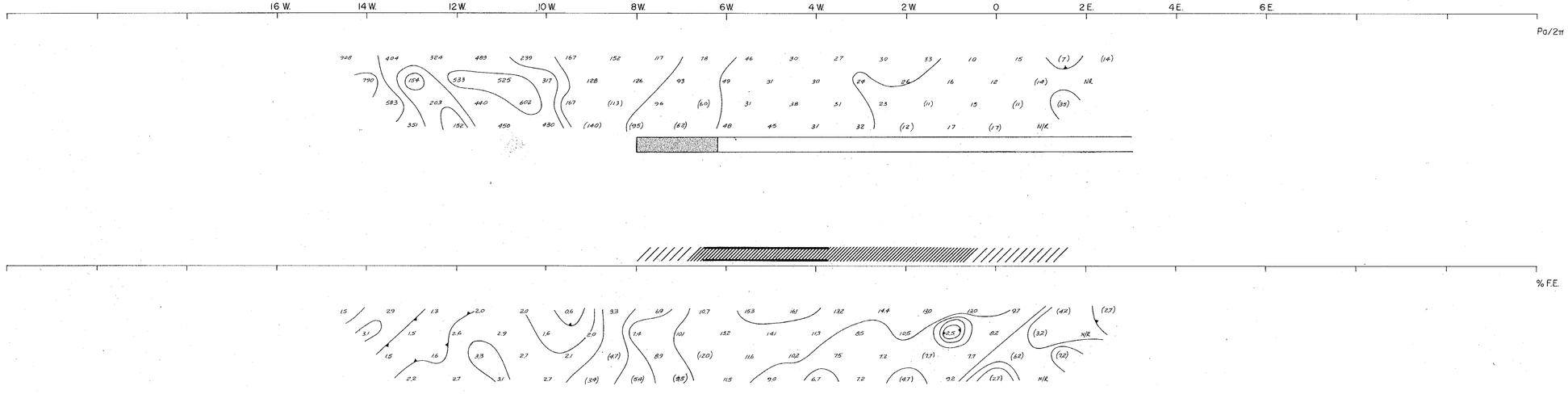
PROJECT	WHITING CREEK		
NTS	93-E-11,14	DISPOSITION	WHIT 1-6
WORK BY	R.M. CANN	SCALE	1 : 7,500,000
DRAWN	C.D. DURBIN	DATE	FIG. 1



SMD MINING CO. LTD.

INDEX MAP

PROJECT	WHITING CREEK		
NTS	93-E-11,14	DISPOSITION	WHIT 1-6
WORK BY	R. M. CANN	SCALE	1: 50,000
DRAWN	C.D. DURBIN	DATE	FIG. 2



LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

Part 3 of 3

L.— 0-N

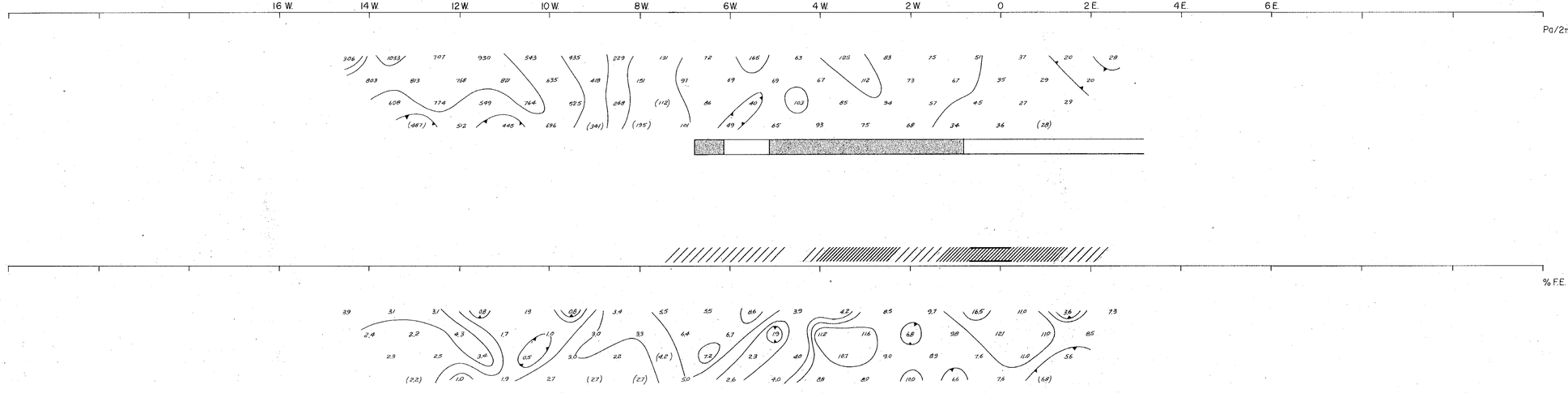
a = 100 m

DIPOLE – DIPOLE

SCALE : 1:5000

FREQUENCY 5-0.3 HZ.

smdc	Saskatchewan Mining Development Corporation
I.P./RESISTIVITY SURVEY	
PROJECT WHITING CREEK	
NTS 93-E-11,14	DISPOSITION WHIT 1-6
WORK BY P. WALCOTT	SCALE 1:5,000
DRAWN C.O. DURBIN	DATE FIG. 3



LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

L.— 2-S

a = 100 m

DIPOLE – DIPOLE

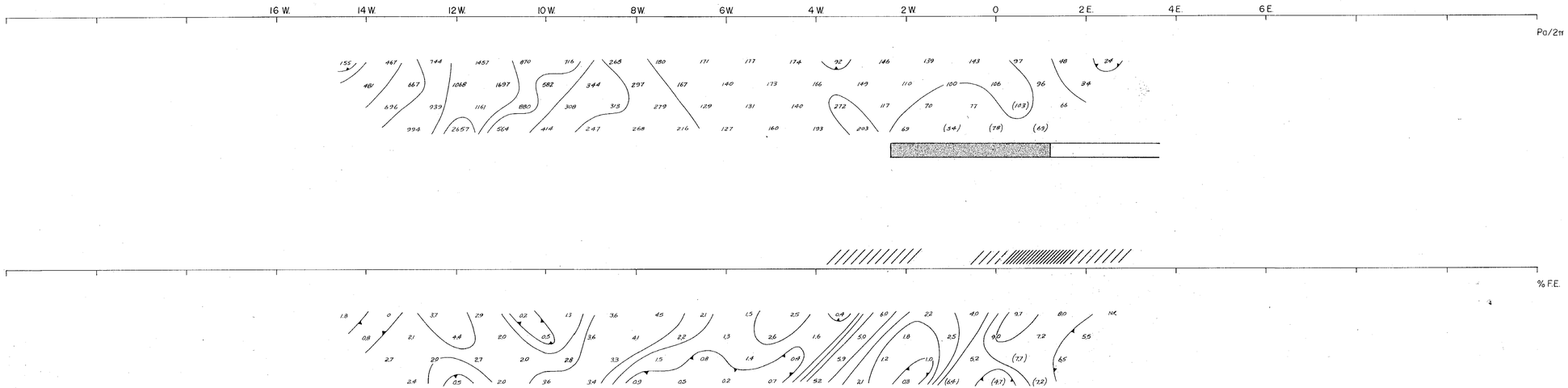
SCALE : 1 : 5000

FREQUENCY 5-03 HZ.

smdc Saskatchewan Mining Development Corporation

I. P. / RESISTIVITY SURVEY

PROJECT	WHITING CREEK		
NTS	93 - E - 11, 14	DISPOSITION	WHIT 1-6
WORK BY	P. MALCOTT	SCALE	1 : 5,000
DRAWN	C.D. DURBIN	DATE	FIGURE 4



LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

L.— 4-S

a = 100 m

DIPOLE – DIPOLE

SCALE : 1 : 5000

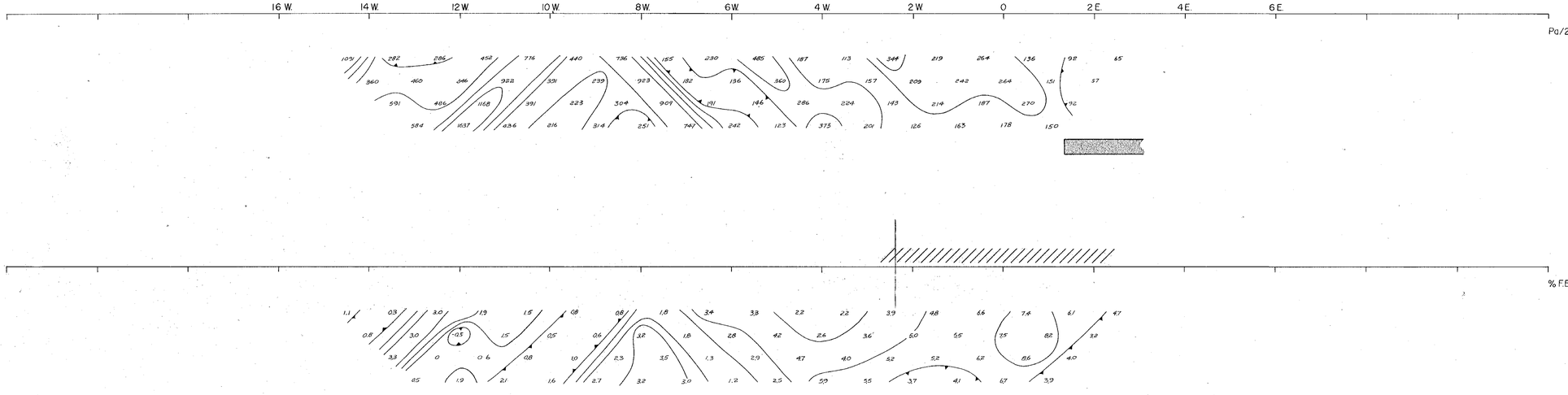
FREQUENCY 5-0.3 HZ.

Part 3 of 3

smdc Saskatchewan Mining Development Corporation

I.P. / RESISTIVITY SURVEY

PROJECT	WHITING CREEK		
NTS	93-E-11, 14	DISPOSITION	WHIT 1-6
WORK BY	P. WALCOTT	SCALE	1 : 5,000
DRAWN	C.D. DURBIN	DATE	FIGURE 5



LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

L.– 6 S.

a = 100 m

DIPOLE – DIPOLE

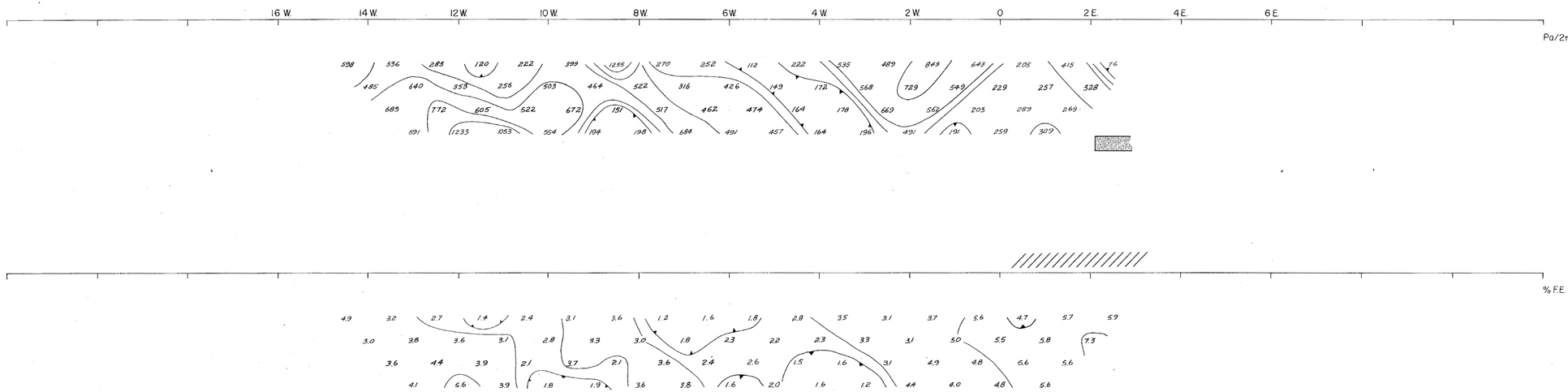
SCALE : 1 : 5000

FREQUENCY 5-0.3 HZ.

smdc Saskatchewan Mining Development Corporation

I.P./ RESISTIVITY SURVEY

PROJECT	WHITING CREEK		
NTS	93-E-11,14	DISPOSITION	WHIT 1-6
WORK BY	P. WALCOTT	SCALE	1 : 5,000
DRAWN	C.D. DURBIN	DATE	FIGURE 6



LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

L.— 8-S

a = 100 m

DIPOLE – DIPOLE

SCALE : 1 : 5000

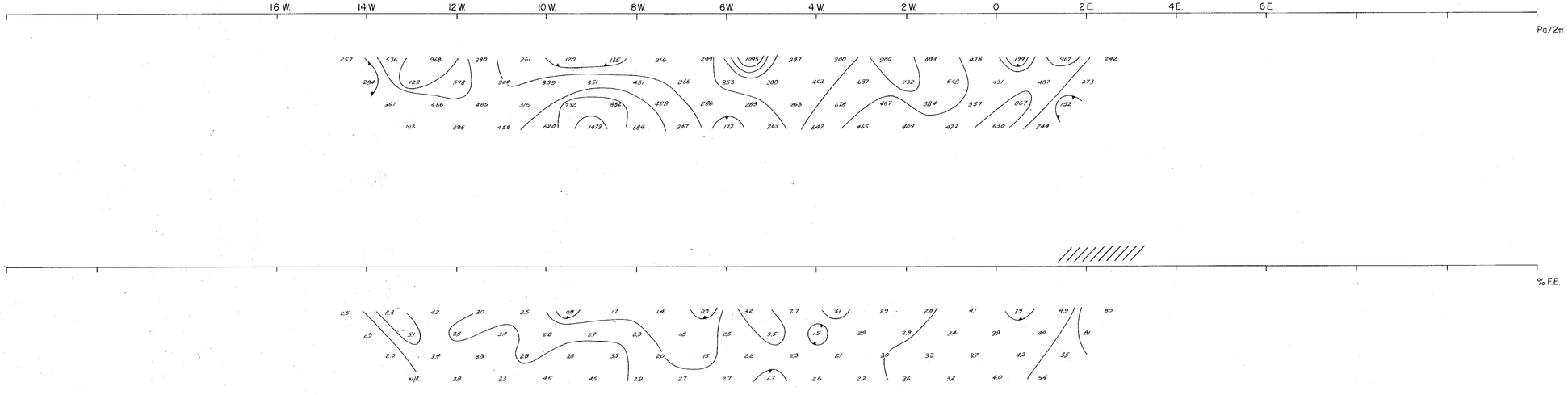
FREQUENCY 5-0.3 HZ.

part 3
of 3

smdc Saskatchewan Mining Development Corporation

I.P. / RESISTIVITY SURVEY

PROJECT	WHITING CREEK		
NTS	93 - E - 11, 14	DISPOSITION	WHIT 1-6
WORK BY	R. WALCOTT	SCALE	1 : 5,000
DRAWN	C.D. DURBIN	DATE	FIGURE 7



LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8757

Part 3
of 3

L.— 10-S

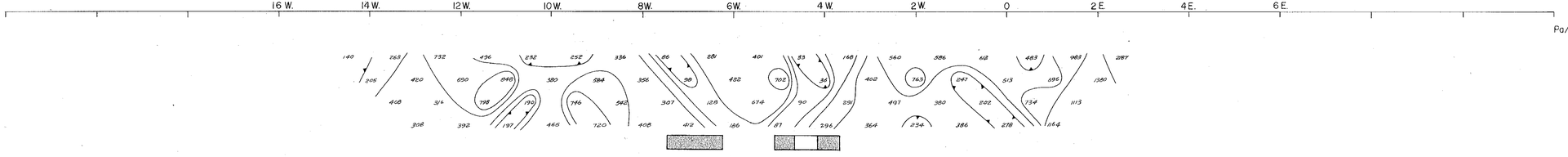
a = 100 m

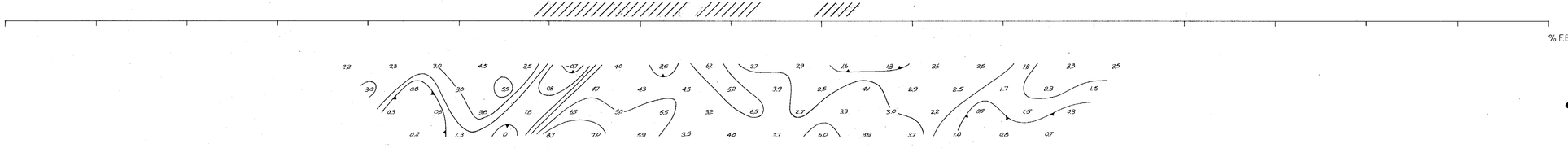
DIPOLE – DIPOLE

SCALE : 1 : 5000

FREQUENCY 5-03 HZ.

smdc	Saskatchewan Mining Development Corporation
I.P./RESISTIVITY SURVEY	
PROJECT WHITING CREEK	
NTS 93-E-11, 14	DISPOSITION WHIT 1-6
WORK BY P. WALCOTT	SCALE 1 : 5,000
DRAWN C.D. DURBIN	DATE FIGURE 8





part 3
dj3

LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

L.— 12-S

a = 100 m

DIPOLE – DIPOLE

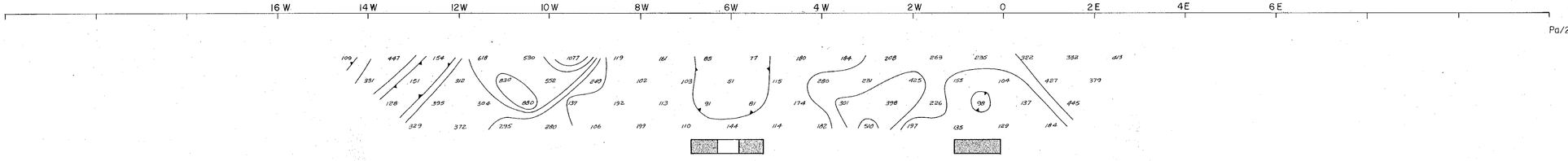
SCALE : 1 : 5000

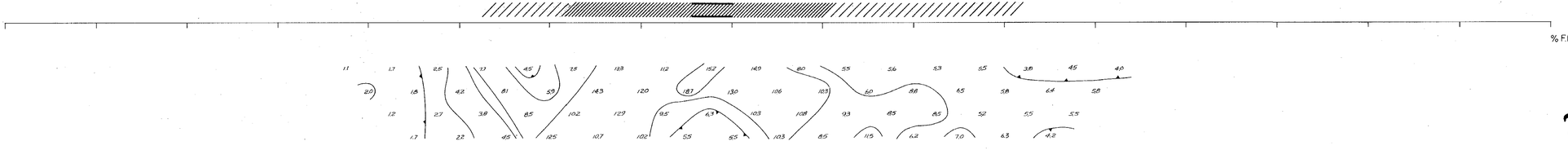
FREQUENCY 5-0.3 HZ.

smdc Saskatchewan Mining Development Corporation

I.P./RESISTIVITY SURVEY

PROJECT,	WHITING CREEK		
N.T.S.	93-E-11,14	DISPOSITION	WHIT 1-6
WORK BY	P. WALCOTT	SCALE	1 : 5,000
DRAWN	C.D. DURBIN	DATE	FIGURE 9





LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

L.— 14-S

a = 100 m

DIPOLE – DIPOLE

SCALE : 1 : 5000

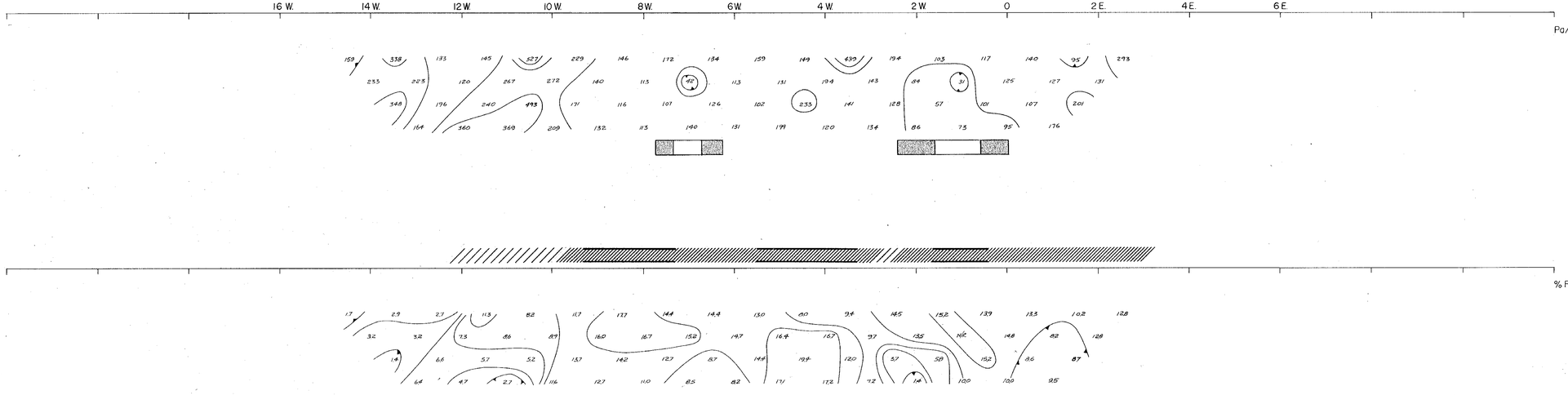
FREQUENCY 5-0.3 HZ.

Part 3
of 3

smdc Saskatchewan Mining Development Corporation

I.P./ RESISTIVITY SURVEY

PROJECT	WHITING CREEK		
NTS	93 - E - 13, 14	DISPOSITION	WHIT 1 - 6
WORK BY	P. WALCOTT	SCALE	1 : 5000
DRAWN	C.D. DURBIN	DATE	FIGURE 10



part 3 of 3

LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

L.— 16-S

a = 100 m

DIPOLE – DIPOLE

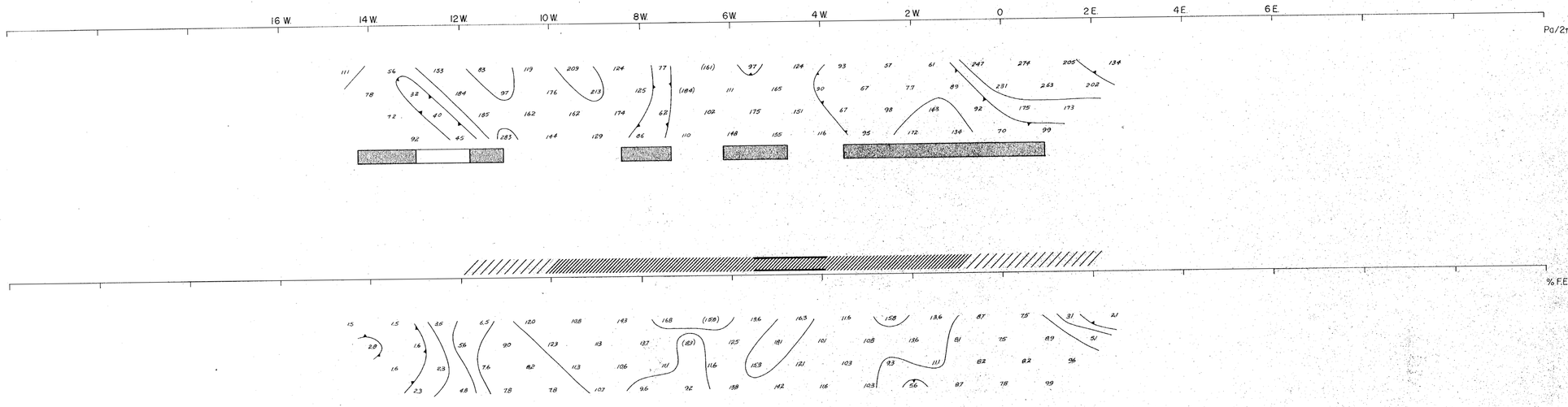
SCALE : 1 : 5000

FREQUENCY 5-0.3 HZ.

smdc Saskatchewan Mining Development Corporation

I.P. / RESISTIVITY SURVEY

PROJECT WHITING CREEK	
NTS 93 - E - 11, 14	DISPOSITION WHIT 1-6
WORK BY P. WALCOTT	SCALE 1 : 5,000
DRAWN C.D. DURBIN	DATE FIGURE 11



LEGEND I.P. ANOMALIES

- VERY WEAK
- WEAK
- STRONG
- VERY STRONG
- RESISTIVITY LOW

S. M. D. C.

WHITING CREEK, B.C.

INDUCED POLARIZATION SURVEY

L.— 18-S

a = 100 m

DIPOLE - DIPOLE

SCALE : 1:5000

FREQUENCY 5-03 HZ.

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8757

part 3 of 3

smdc Saskatchewan Mining Development Corporation

I.P./RESISTIVITY SURVEY

PROJECT	WHITING CREEK		
GTS	93-E-SW,14	DISPOSITION	WHIT 1-6
WORK BY	P. WALCOTT	SCALE	1:5,000
DRAWN	C.O. DURBIN	DATE	FIGURE 12

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I. INTRODUCTION

(i) Location and Access

The Whit 1 - 6 claims (Figs. 1 and 2) are located 116 kilometres due south of Smithers in west-central B.C. Access is south via the Francois Lake forestry road, which leaves Highway 16 just west of Houston, and then southwest via the Nadina Lake-Tahtsa Lake forestry access road to Sweeney Lake. Final access to the property is by a four-wheel drive road which leaves the forestry road at the north tip of Sweeney Lake. Total road distance from Houston is 120 kilometres.

Physiographically the property lies at the east end of the Sibola Range in a transition zone between the Coast Mountains and Nechako Plateau. Topography is rugged with the maximum elevation on the property being 2190 metres at Sibola Peak and lowest being 1030 metres.

(ii) Claim Definition

The property was originally staked in 1963 by Kennco Explorations (Western) Ltd. as the Whit 1 to 40 claims. In 1979, SMD Mining Co. Ltd. entered into an option agreement with Kennco Explorations (Western) Ltd. and in the same year the claims were abandoned and relocated as the Whit 1 to 6 claims as defined below. Current owner is Kennco Explorations (Western) Ltd. and current operator is SMD Mining Company Ltd.

Claim	Units	Tag. No.	Record No.	Record Date
Whit 1	20	49581	2375	November 29, 1979
Whit 2	20	49582	2376	November 29, 1979
Whit 3	15	49583	2377	November 29, 1979
Whit 4	15	49584	2378	November 29, 1979
Whit 5	6	49585	2379	November 29, 1979
Whit 6	6	49586	2380	November 29, 1979

(iii) Summary of Work

Geological Mapping

Geological mapping was conducted at a scale of 1:5000 over the entire claim group - an area of approximately 12 square kilometres.

Geochemistry

A total of 453 soil samples were collected over a grid covering Whit 5,6, and the southern half of Whit 3 and 4.

Geophysics

An I.P. Survey was conducted over 20 line-kilometres covering Whit 5, 6 and the southern half of Whit 3 and 4 (Table 1). 36.4 kilometres of magnetometer survey was also conducted over this same area.

Drilling

Twenty-two 5cm percussion drill holes totalling 1784 metres in depth were drilled on the Whit 1 to 4 claims.

Eight NQ diamond drill holes totalling 2412.4 metres were drilled on the Whit 1,2 and 4 claims.

TABLE 1

Whiting Creek Field Work - May to July 1980

Claim	Grid - km Cut	Flagged	Magnetics-km	IP/Resistivity-km
WHIT 3	6.15	4.33	8.88	6.15
WHIT 4	3.84	3.67	7.51	3.84
WHIT 5	6.11	6.37	12.48	6.11
WHIT 6	3.90	3.63	7.53	3.90
TOTAL	20.00	18.00	36.40	20.00

Topographic Surveys

A 1:5000 topographic base-map covering an area 7.4 by 5.2 kilometres was prepared from government air photographs for survey control by Pacific Survey Corp. In addition to the base map, 26 colour air photographs of the property were taken along 16.4 kilometres of flight lines by Geographic Air Survey of Edmonton.

Physical Work

All four-wheel drive access roads were cleared of snow and slumped material in May using a D7 caterpillar tractor. Drill sites and access roads were prepared by Tonto Drilling Ltd. using a D6 caterpillar tractor.

2. GEOLOGY

Geological mapping, at a scale of 1:5000, was conducted over the entire property using topographic map, altimeters, and chaining for control. The topographic map was prepared by Pacific Survey Corporation of Vancouver using government air photographs. Thirty days, between June 13 and August 13, were spent on mapping. Consultants P. Fox of Vancouver and R. Bamford of Salt Lake City spent 5 days and 3 days respectively on the property giving geological advice.

Oldest rocks on the property are volcaniclastic rocks belonging to the Lower Jurassic Telkwa Formation of the Hazelton Group. These rocks are generally maroon, grey, or green lapilli tuff, bedded tuff, and volcanic breccia. Where visible, bedding

generally dips steeply to the west between 50° and 75°. Dips may locally be as low as 23°.

Within the gossanous zone these rocks have been intensely fractured and hornfelsed. Quartz-molybdenite, pyrite and chalcopyrite veinlets occur as a stockwork in the gossanous area.

Intruding the Hazelton Group is a series of granitic intrusions. The oldest intrusive unit is a biotite granodiorite occurring as two stocks, one to the northwest of the property, and the other along the southeast side of the property. The rock is equigranular to sub-porphyritic with euhedral plagioclase phenocrysts up to 5 mm in length. Along Whiting Creek and along the northwest margin of the stock, pyrite, chalcopyrite, bornite, and mobybdenite occurs as strongly fracture-controlled mineralization. Potassic envelopes generally accompany chalcopyrite-bornite veinlets and phyllic envelopes generally occur with pyrite veinlets and overprint the potassic envelopes.

In the southwest corner of Whit 2 an elongate plug of aplitic quartz porphyry has been intruded adjacent to the granodiorite. This rock is a K-feldspar rich aplite containing 2-4 mm rounded quartz phenocrysts. Quartz and mobybdenite occur as a stockwork throughout the plug.

Porphyritic quartz monzonite occurs as a rounded stock in the north-central part of the gossan zone. The rock is characterized by 1 to 4 mm rounded quartz phenocrysts and biotite books. Dyke equivalents of this stock are believed to cut the aplitic quartz porphyry and the granodiorite. Several crackle zones which grade into vuggy, quartz rich breccias are also associated with the dykes. Molybdenite, bornite, malachite and pyrite occur in minor amounts throughout the stock.

Monzonite porphyry appears to cross-cut the porphyritic quartz monzonite. This rock contains 1 to 4 mm phenocrysts of feldspar, biotite and hornblende in a K-feldspar rich matrix. Trace amounts of pyrite are disseminated throughout the unit. An intrusive breccia containing what appears to be fragments from this unit was noted on the west side of the quartz porphyry.

Intermediate and felsic dykes are assumed to be later than all the above units. Chalcopyrite has been observed in porphyritic andesite dykes.

No major faults were noted. However, there is a strong northwesterly structural trend indicated by dyke orientation.

3. GEOCHEMISTRY

To test for possible southward extension of the sulphide zone 453 soil samples were taken over a grid covering part of Whit 3 and 4 and all of Whit 5 and 6. Samples were analysed for Cu,Mo,Pb,Zn by Min-En Laboratories in North Vancouver. Sample procedure is as given in Appendix F. Sixteen man-days, between June 10 and June 24 were spent on the survey.

Sample results, sample horizon and sample depth are tabulated in Table 2. Results are shown in plan form on Maps 2,3,4,5.

The mean copper value is 55 ppm with a standard deviation of 55 ppm. Anomalous values are restricted to a few isolated samples.

Arithmetic mean of the molybdenum results is 9 ppm. Anomalous values are restricted to the northeast corner of the grid where overburden material is mainly alluvial sand and gravel. Molybdenum anomalies therefore, are believed to be from transported material.

Arithmetic mean of lead values is 29 ppm with a standard deviation of 27 ppm. No particular area of the survey can be considered anomalous.

Arithmetic mean of zinc values is 96 ppm with a standard deviation of 64 ppm. High values are scattered and isolated.

TABLE 2 - WHITING CREEK - SOIL SAMPLE DATA

DBS	NUMBER	CU	PB	ZN	MO	SOIL HORIZON	SAMPLE DEPTH (cm)
1	WC06100	17	30	65	2	A_0	10
2	WC06101	19	21	63	2	B	15
3	WC06102	37	35	72	3	B	15
4	WC06103	148	34	120	5	B	20
5	WC06104	43	25	69	4	B	10
6	WC06105	34	34	88	3	B	20
7	WC06106	16	36	32	5	B	5
8	WC06107	5	39	15	2	A_0	20
9	WC06108	60	26	31	6	A_0	10
10	WC06109	33	28	34	7	A_0	5
11	WC06110	29	24	87	10	B	20
12	WC06111	13	25	12	1	A_0	20
13	WC06112	40	29	91	9	B	30
14	WC06113	67	35	110	7	A_0	20
15	WC06114	51	41	81	9	B	30
16	WC06115	84	32	101	11	B	30
17	WC06116	43	36	69	7	B	30
18	WC06117	25	25	61	4	B	30
19	WC06118	100	29	79	11	A_0	30
20	WC06119	78	29	71	7	A_1	10
21	WC06120	77	24	74	10	B	10
22	WC06121	56	26	77	13	B	20
23	WC06122	31	10	40	10	B	20
24	WC06123	35	35	46	10	A_1	10
25	WC06124	76	23	85	4	B	30
26	WC06125	81	23	64	7	A_0	20
27	WC06126	59	28	35	12	A_1	30
28	WC06127	44	28	88	5	B	20
29	WC06128	67	23	74	10	B	5
30	WC06129	40	22	66	8	B	20
31	WC06130	105	17	104	8	B	10
32	WC06131	74	23	120	12	A_0	20
33	WC06132	40	18	66	8	A_0	20
34	WC06133	75	111	108	9	A_2	10
35	WC06134	79	23	75	39	A_1	15
36	WC06135	233	20	92	35	A_2	10
37	WC06136	138	17	93	22	A_2	10
38	WC06137	85	7	92	6	B	30
39	WC06138	62	24	88	7	B	40
40	WC06139	27	25	37	8	A_2	15
41	WC06140	48	29	76	11	B	25
42	WC06141	57	6	79	10	B	20
43	WC06142	70	24	133	9	B	15
44	WC06143	136	26	140	10	B	15
45	WC06144	76	25	106	13	B	10
46	WC06145	59	23	90	13	B	20
47	WC06146	46	29	62	14	B	20
48	WC06147	25	20	39	11	A_2	10
49	WC06148	87	28	91	8	B	15
50	WC06149	91	25	116	6	B	10
51	WC06150	59	24	78	10	B	20
52	WC06151	67	27	54	16	A_1	20
53	WC06152	9	20	18	4	A_2	10
54	WC06153	72	24	158	14	B	15

TABLE 2 - WHITING CREEK - SOIL SAMPLE DATA

OBS	NUMBER	CU	PB	ZN	MO	SOIL HORIZON	SAMPLE DEPTH (cm)
55	WC06154	55	19	91	14	A_2	15
56	WC06155	54	24	130	7	B	15
57	WC06156	36	21	79	8	B	10
58	WC06157	110	34	134	15	B	20
59	WC06158	60	27	128	14	A_2	10
60	WC06159	24	27	59	9	A_2	10
61	WC06160	45	24	87	4	B	15
62	WC06161	41	24	106	4	B	20
63	WC06162	45	28	113	4	B	20
64	WC06163	20	24	106	5	B	20
65	WC06164	40	24	97	4	B	15
66	WC06165	560	4	30	1	A_1	10
67	WC06166	13	9	40	1	A_1	10
68	WC06167	32	24	100	6	B	20
69	WC06168	98	43	110	34	B	20
70	WC06169	26	29	59	7	A_2	10
71	WC06170	29	26	109	5	B	20
72	WC06171	33	22	132	4	A_2	20
73	WC06172	67	23	78	3	A_1	20
74	WC06173	29	17	68	3	A_2	20
75	WC06174	55	22	80	5	B	20
76	WC06175	133	43	83	68	B	15
77	WC06176	118	53	104	33	B	15
78	WC06177	133	46	108	34	B	20
79	WC06178	84	30	112	18	B	20
80	WC06179	90	40	134	17	A_2	25
81	WC06180	21	24	72	4	B	15
82	WC06181	35	24	61	10	B	15
83	WC06182	25	23	71	8	B	15
84	WC06183	72	23	48	42	A_1	10
85	WC06184	27	38	38	4	A_1	10
86	WC06185	6	14	21	4	A_2	15
87	WC06186	8	18	32	12	A_2	15
88	WC06187	38	22	70	3	A_2	20
89	WC06188	30	16	60	2	A_1	15
90	WC06189	28	23	79	3	B	20
91	WC06190	176	37	159	6	A_1	20
92	WC06191	43	22	110	3	A_2	20
93	WC06192	20	19	122	5	B	20
94	WC06193	8	10	32	3	A_1	10
95	WC06194	24	23	56	3	B	15
96	WC06195	22	24	68	1	B	15
97	WC06196	11	13	27	2	B	20
98	WC06197	21	26	109	2	B	15
99	WC06198	26	28	100	3	B	20
100	WC06199	27	25	91	2	B	25
101	WC06200	38	27	63	2	B	20
102	WC06201	55	26	89	3	A_2	20
103	WC06202	642	16	17	3	A_1	30
104	WC06203	42	34	164	5	B	20
105	WC06204	79	51	331	5	B	20
106	WC06205	19	20	51	2	A_2	25
107	WC06206	48	30	138	4	B	15
108	WC06207	68	34	119	4	B	15

TABLE 2 - WHITING CREEK - SOIL SAMPLE DATA

DDH	NUMBER	CU	PB	ZN	MO	SOIL HORIZON	SAMPLE DEPTH (cm)
109	WC06208	148	44	95	6	B	20
110	WC06209	38	19	143	3	B	15
111	WC06210	26	19	80	6	A_2	20
112	WC06211	43	25	67	3	A_1	15
113	WC06212	36	29	123	4	B	10
114	WC06213	11	15	41	4	A_2	15
115	WC06214	29	30	128	5	B	10
116	WC06215	25	26	80	7	B	10
117	WC06216	28	26	86	8	B	15
118	WC06217	55	28	133	11	B	15
119	WC06218	310	24	93	4	A_1	10
120	WC06219	148	120	137	30	A_2	10
121	WC06220	41	22	167	4	B	10
122	WC06221	37	96	392	5	B	15
123	WC06222	59	20	95	4	B	15
124	WC06223	25	35	153	4	B	15
125	WC06224	22	23	171	7	B	20
126	WC06225	33	22	165	6	B	20
127	WC06226	23	25	170	4	B	25
128	WC06227	25	24	102	4	A_2	15
129	WC06228	45	28	109	4	B	15
130	WC06229	60	22	128	4	B	20
131	WC06230	24	20	98	6	B	10
132	WC06231	73	27	103	5	A_2	15
133	WC06232	79	26	108	8	B	15
134	WC06233	57	24	145	5	B	15
135	WC06234	52	21	100	8	B	15
136	WC06235	38	22	143	8	B	15
137	WC06236	46	23	93	6	B	20
138	WC06237	52	21	100	7	A_2	20
139	WC06238	81	10	55	6	A_1	10
140	WC06239	64	23	99	6	B	10
141	WC06240	43	24	143	8	A_2	20
142	WC06241	64	14	92	6	A_1	20
143	WC06242	80	28	119	10	B	20
144	WC06243	55	23	127	5	B	20
145	WC06244	43	29	131	8	A_2	15
146	WC06245	55	22	95	4	A_1	10
147	WC06246	22	11	49	3	A_1	20
148	WC06247	17	19	72	7	A_2	10
149	WC06248	29	20	92	4	A_2	20
150	WC06249	13	8	69	3	A_2	20
151	WC06250	22	40	89	6	B	20
152	WC06251	22	17	61	4	B	20
153	WC06252	69	28	313	6	B	20
154	WC06253	288	35	110	39	B	20
155	WC06254	57	28	94	6	A_2	20
156	WC06255	54	32	182	8	B	15
157	WC06256	173	28	161	8	A_2	15
158	WC06257	110	39	178	12	A_2	15
159	WC06258	158	29	138	6	B	10
160	WC06259	174	36	138	12	B	15
161	WC06260	51	23	87	9	B	10
162	WC06261	52	31	78	12	B	15

TABLE 2 -WHITING CREEK - SOIL SAMPLE DATA

DDI	NUMBER	CU	PB	ZN	MO	SOIL HORIZON	SAMPLE DEPTH (cm)
163	WC06262	121	34	97	32	B	10
164	WC06263	77	24	90	16	B	15
165	WC06264	46	22	65	11	B	20
166	WC06265	187	40	129	19	A_2	20
167	WC06266	21	24	61	9	B	10
168	WC06267	53	25	89	29	B	20
169	WC06268	18	20	46	15	B	15
170	WC06269	43	19	73	28	B	20
171	WC06270	263	27	188	26	A_2	20
172	WC06272	29	22	57	13	B	15
173	WC06273	34	25	75	9	B	10
174	WC06274	5	10	10	2	A_2	10
175	WC06275	42	21	93	8	B	15
176	WC06276	6	8	12	3	A_2	10
177	WC06277	29	25	78	10	B	20
178	WC06278	142	25	115	46	A_2	15
179	WC06279	27	27	57	6	B	10
180	WC06280	10	18	19	2	A_2	10
181	WC06281	55	31	121	10	B	15
182	WC06282	60	26	104	11	B	15
183	WC06283	87	31	95	66	B	15
184	WC06284	7	10	13	3	A_2	15
185	WC06285	41	22	63	12	A_2	15
186	WC06286	53	25	93	9	B	20
187	WC06287	42	37	93	15	B	10
188	WC06288	45	37	77	17	B	15
189	WC06289	58	34	88	10	B	15
190	WC06290	67	36	101	16	A_2	20
191	WC06291	62	44	68	60	B	20
192	WC06292	46	28	80	11	B	15
193	WC06293	83	29	103	10	B	15
194	WC06294	37	30	70	10	B	20
195	WC06295	51	37	90	11	B	20
196	WC06296	68	40	154	16	A_2	20
197	WC06297	55	29	92	8	A_1	10
198	WC06298	238	36	195	14	A_1	10
199	WC06299	160	34	121	8	A_2	15
200	WC06300	67	32	201	22	A_2	15
201	WC06301	106	32	154	13	A_1	10
202	WC06302	122	179	362	7	A_1	10
203	WC06303	34	25	40	6	A_2	10
204	WC06304	127	34	84	8	A_1	20
205	WC06305	35	30	62	8	B	20
206	WC06306	49	29	92	9	B	15
207	WC06307	15	20	32	7	A_2	10
208	WC06308	36	30	87	8	B	10
209	WC06309	137	36	139	16	B	15
210	WC06309R	66	28	119	12	B	15
211	WC06310	12	12	27	9	A2	20
212	WC06311	40	21	82	30	B	20
213	WC06312	42	24	78	6	B	20
214	WC06313	29	24	115	2	B	15
215	WC06314	32	26	102	4	B	20
216	WC06315	52	19	83	2	A_2	20

TABLE 2 - WHITING CREEK - SOIL SAMPLE DATA

DDH	NUMBER	CU	PB	ZN	MO	SOIL HORIZON	SAMPLE DEPTH (cm)
217	WC06316	24	24	78	3	B	10
218	WC06317	13	14	78	2	A_2	10
219	WC06318	50	33	104	5	B	20
220	WC06319	48	22	100	3	B	20
221	WC06320	30	17	100	7	B	20
222	WC06321	31	21	119	6	B	20
223	WC06322	66	32	174	11	B	15
224	WC06323	62	21	112	3	B	10
225	WC06324	51	34	241	3	A_2	20
226	WC06325	34	24	137	5	B	20
227	WC06326	28	17	78	4	B	20
228	WC06327	40	17	95	4	B	20
229	WC06328	51	17	129	4	B	20
230	WC06329	27	18	91	3	A_2	10
231	WC06330	28	18	98	5	B	20
232	WC06331	28	20	74	7	B	20
233	WC06332	28	20	97	4	B	15
234	WC06333	37	14	171	4	A_1	10
235	WC06334	18	18	119	2	B	10
236	WC06335	91	35	168	8	A_1	10
237	WC06336	31	21	276	3	A_2	20
238	WC06337	16	20	153	4	B	10
239	WC06338	25	21	218	3	A_1	5
240	WC06339	77	36	133	4	A_1	10
241	WC06340	136	27	93	4	A_1	10
242	WC06341	34	31	240	6	B	20
243	WC06342	15	12	99	5	A_2	15
244	WC06344	26	23	97	6	B	20
245	WC06345	93	28	73	4	A_1	20
246	WC06346	30	26	120	5	B	10
247	WC06347	29	79	204	9	B	20
248	WC06348	26	19	61	6	B	10
249	WC06349	45	25	109	7	B	15
250	WC06350	48	23	103	10	B	20
251	WC06351	77	24	75	6	A_2	20
252	WC06352	28	18	56	4	B	15
253	WC06353	106	17	14	2	A_1	20
254	WC06354	36	22	46	3	B	15
255	WC06355	29	26	78	6	B	15
256	WC06356	14	16	43	4	B	10
257	WC06357	33	18	201	2	A_1	10
258	WC06358	54	25	78	4	B	10
259	WC06359	142	45	439	8	B	20
260	WC06360	63	20	136	6	A_2	10
261	WC06361	32	16	105	9	B	15
262	WC06362	40	23	107	10	B	20
263	WC06363	77	103	258	12	A_2	10
264	WC06364	64	42	314	5	B	20
265	WC06365	54	38	182	6	B	20
266	WC06366	91	33	100	15	A_1	20
267	WC06367	29	24	126	10	B	15
268	WC06368	31	27	86	16	B	15
269	WC06369	33	25	116	12	B	20
270	WC06370	105	27	91	8	A_1	10

TABLE 2 - WHITING CREEK - SOIL SAMPLE DATA

DDI	NUMBER	CU	PB	ZN	MO	SOIL HORIZON	SAMPLE DEPTH (cm)
271	WC06371	79	220	426	9	B	10
272	WC06372	61	37	142	8	A_1	15
273	WC06373	52	30	106	12	B	20
274	WC06374	16	30	76	5	A_2	10
275	WC06375	48	32	86	7	B	10
276	WC06376	48	26	86	12	B	20
277	WC06377	31	16	30	5	A_1	10
278	WC06378	32	24	44	4	B	20
279	WC06379	18	18	34	7	B	25
280	WC06380	16	24	52	8	B	20
281	WC06381	38	189	64	5	A_2	10
282	WC06382	26	24	82	4	B	20
283	WC06383	31	28	62	5	B	20
284	WC06385	30	28	72	16	B	15
285	WC06386	58	30	69	12	B	20
286	WC06387	68	26	94	20	B	20
287	WC06388	52	24	105	20	B	20
288	WC06389	74	36	110	13	B	20
289	WC06390	68	40	94	23	B	20
290	WC06391	38	32	83	10	B	20
291	WC06392	150	42	161	17	B	20
292	WC06393	32	34	62	9	B	15
293	WC06394	58	24	98	7	B	20
294	WC06395	72	28	84	10	B	20
295	WC06396	66	34	102	7	B	20
296	WC06397	72	32	106	8	B	10
297	WC06398	62	34	112	12	B	10
298	WC06399	84	34	70	6	B	20
299	WC06400	50	26	84	8	B	15
300	WC06401	73	36	178	7	B	20
301	WC06402	48	60	480	10	A_2	15
302	WC06403	62	36	132	5	B	10
303	WC06404	34	32	54	6	A_1	15
304	WC06405	70	30	265	4	B	10
305	WC06406	66	40	198	10	B	10
306	WC06407	72	38	88	4	A_1	10
307	WC06408	52	32	174	5	A_2	20
308	WC06409	30	40	140	4	A_2	15
309	WC06410	38	308	225	3	A_2	15
310	WC06411	68	26	96	7	A_1	15
311	WC06412	79	28	116	4	B	15
312	WC06413	66	38	90	6	B	20
313	WC06414	80	30	110	7	B	15
314	WC06415	44	24	70	4	B	20
315	WC06416	28	22	47	4	B	15
316	WC06417	42	24	220	13	B	20
317	WC06427	30	16	59	4	B	10
318	WC06428	28	16	48	7	A_2	15
319	WC06429	22	26	54	5	B	20
320	WC06430	28	22	59	2	B	15
321	WC06431	32	24	59	8	B	20
322	WC06432	52	24	72	11	B	20
323	WC06433	22	18	59	8	B	20
324	WC06434	46	26	76	14	B	20

TABLE 2 - WHITING CREEK - SOIL SAMPLE DATA

SEQ	NUMBER	CU	PB	ZN	MO	SOIL HORIZON	SAMPLE DEPTH (cm)
325	WC06435	60	11	88	13	B	15
326	WC06436	225	41	163	15	B	20
327	WC06437	50	34	104	4	B	20
328	WC06438	30	30	73	7	B	20
329	WC06439	32	28	80	6	B	20
330	WC06440	240	44	150	13	B	20
331	WC06441	26	32	52	8	B	15
332	WC06442	29	21	54	6	B	10
333	WC06443	26	29	57	14	B	15
334	WC06444	100	34	122	6	B	10
335	WC06445	80	30	106	6	B	15
336	WC06446	34	27	97	6	B	10
337	WC06447	50	32	73	9	A_2	15
338	WC06448	68	116	310	18	B	20
339	WC06449	52	28	112	12	B	15
340	WC06450	48	29	118	10	B	15
341	WC06451	57	20	67	8	B	25
342	WC06452	44	26	76	10	B	20
343	WC06453	50	21	71	8	B	20
344	WC06454	37	17	73	7	B	20
345	WC06455	46	85	110	8	B	15
346	WC06456	82	26	94	12	A_1	15
347	WC06457	49	22	98	9	B	20
348	WC06458	71	22	127	9	B	20
349	WC06459	67	20	113	13	B	20
350	WC06460	43	24	114	9	B	20
351	WC06461	182	28	122	9	A_1	15
352	WC06462	37	19	69	8	B	15
353	WC06463	5	12	19	4	A_2	20
354	WC06464	58	17	105	7	B	20
355	WC06465	26	14	56	68	B	15
356	WC06466	17	19	28	6	B	15
357	WC06467	12	12	31	8	B	20
358	WC06468	38	9	84	4	A_1	20
359	WC06469	46	14	92	7	B	25
360	WC06470	78	43	243	21	A_1	15
361	WC06471	3	2	13	3	A_1	20
362	WC06472	27	16	56	6	B	20
363	WC06473	7	15	17	2	B	10
364	WC06474	1	4	14	2	A_2	10
365	WC06475	1	5	17	3	A_2	15
366	WC06476	30	20	146	20	B	20
367	WC06477	18	35	147	10	B	20
368	WC06478	64	88	227	7	A_1	15
369	WC06479	39	18	83	4	A_1	10
370	WC06480	2	27	20	3	B	10
371	WC06481	7	25	18	4	A_2	20
372	WC06482	31	19	97	10	B	20
373	WC06483	86	22	155	17	A_2	25
374	WC06484	28	21	74	8	B	15
375	WC06485	14	53	91	9	B	20
376	WC06486	16	23	72	3	A_2	15
377	WC06487	30	82	18	12	A_1	10
378	WC06488	31	17	55	6	B	15

TABLE 2 - WHITING CREEK - SOIL SAMPLE DATA

OBS	NUMBER	CU	PB	ZN	MO	SOIL HORIZON	SAMPLE DEPTH (cm)
379	WC06489	38	17	44	4	B	15
380	WC06490	25	18	38	13	B	20
381	WC06491	3	9	18	2	A_2	10
382	WC06492	17	16	53	3	B	10
383	WC06493	24	21	64	6	B	10
384	WC06494	21	12	11	3	A_1	15
385	WC06495	69	23	92	7	A_2	20
386	WC06496	112	28	100	10	B	25
387	WC06497	71	19	48	6	A_1	20
388	WC06498	32	20	86	7	B	15
389	WC06499	25	17	74	5	B	15
390	WC06500	21	19	100	4	B	15
391	WC06501	73	37	81	6	B	10
392	WC06502	46	23	84	5	B	10
393	WC06503	34	17	81	4	B	10
394	WC06504	26	19	95	6	B	15
395	WC06505	35	20	64	5	B	15
396	WC06506	24	17	58	6	B	15
397	WC06507	29	28	100	5	B	20
398	WC06508	45	21	53	5	B	10
399	WC06509	30	27	83	6	B	20
400	WC06510	52	16	103	6	B	10
401	WC06511	8	16	18	3	A_2	10
402	WC06512	32	28	40	12	B	20
403	WC06513	23	24	32	8	A_1	10
404	WC06514	85	26	25	6	A_1	10
405	WC06515	6	4	10	1	A_2	10
406	WC06517	16	8	14	3	A_1	10
407	WC06518	155	330	490	49	A_1	10
408	WC06519	57	30	118	10	B	20
409	WC06520	18	6	24	3	A_0	10
410	WC06521	62	30	89	6	A_2	5
411	WC06522	14	12	20	4	A_2	10
412	WC06523	20	7	22	2	A_1	10
413	WC06524	93	48	20	5	A_1	5
414	WC06525	33	23	43	4	B	15
415	WC06526	30	24	35	4	B	10
416	WC06527	46	23	70	4	B	10
417	WC06528	74	26	26	7	A_1	5
418	WC06529	28	20	47	3	B	10
419	WC06530	28	16	43	6	A_2	10
420	WC06531	42	36	15	5	A_0	5
421	WC06532	178	41	143	14	A_1	10
422	WC06533	23	20	22	5	A_2	10
423	WC06534	72	41	100	9	A_0	5
424	WC06535	32	23	60	8	A_2	10
425	WC06536	23	19	35	6	B	15
426	WC06537	39	23	46	8	A_0	10
427	WC06538	19	14	27	6	A_2	10
428	WC06539	38	26	82	4	B	20
429	WC06540	38	21	102	5	B	20
430	WC06541	132	36	87	6	A_1	15
431	WC06542	32	28	85	5	B	25
432	WC06543	42	25	152	9	B	20

TABLE 2 - WHITING CREEK - SOIL SAMPLE DATA

DDH	NUMBER	CU	PB	ZN	MO	SOIL HORIZON	SAMPLE DEPTH (cm)
433	WC06544	52	27	95	3	B	20
434	WC06545	62	17	87	3	A_1	10
435	WC06546	30	23	118	4	B	20
436	WC06547	24	21	74	2	A_1	20
437	WC06548	23	20	105	3	B	20
438	WC06549	35	32	165	5	A_1	15
439	WC06550	19	26	87	4	B	25
440	WC06551	32	44	109	2	A_2	10
441	WC06552	86	76	65	7	A_1	20
442	WC06553	34	23	56	12	B	15
443	WC06554	62	22	49	6	A_2	10
444	WC06555	49	19	45	4	B	10
445	WC06556	48	23	58	5	B	10
446	WC06557	59	15	71	4	A_2	10
447	WC06558	28	16	41	29	B	20
448	WC06559	27	18	74	3	B	25
449	WC06560	24	12	41	2	A_2	20
450	WC06561	24	14	68	2	A_2	15
451	WC06562	44	13	78	2	A_1	20
452	WC06563	8	3	20	1	A_2	15
453	WC06615	48	30	12	20		

4. GEOPHYSICS

(i) Present Program

The grid preparation was carried out by Scope Exploration Services Ltd. (Contract #93) during May and June 1980. The logistical details of the geophysical surveys are presented in Appendix A. The geophysics includes 20 km of IP and resistivity and 36.4 km of magnetics. The work was completed during the period June 25 to July 18, 1980.

The IP/resistivity coverage is shown in Map 8 , at a scale of 1:10,000. The results obtained by Kennco are also included. Although the overlap with the previous work is limited, enough of the grid was resurveyed to allow the orginal zone to be extended and verified.

The IP/resistivity survey was carried out in the frequency domain using a McPhar system with the frequency spread 0.3-5.0 Hz. A dipole-dipole array was employed with a dipole length of 100 m, and recording the results at n = 1,2,3 and 4. The measurements are Pa/2π(Ω - m) and PFE (percent frequency effect)-equivalent to chargeability in time domain surveys. Note that when comparing the results with the earlier work, the apparent resistivities (again normalized by dividing by 2π) obtained by McPhar are in ohm-feet, and the frequency effect values are plotted as superscripts with the apparent metal factor values. The metal factor must be considered with considerable caution in interpretation, especially in low resistivity areas. In recent years its use and application has been very much out of favour.

The IP and resistivity results are presented as pseudosections in figures 3 - 12, at a scale of 1:5,000, which give a very approximate indication of varation with depth. The anomalous IP and resistivity zones have been graded, and their surface projections plotted. These surface projections are also presented on the compilation map (Map7) at a scale of 1:2,500. Map 8 Also indicates the interpretation obtained from the Kennco/McPhar results.

An attempt has been made to equate the two interpretations. It should however be noted that the new grid, as drawn in Map 8, is an idealised version of the real grid as shown in Map 7.

The magnetic survey was carried out using a UM-220 proton magetometer, manufactured by Urtec Limited. Readings of total magnetic intensity were generally obtained every 50 m. However, in areas of steep magnetic gradient intermediate stations at 25 m were occupied. Corrections for diurmal and instrument drift were made by running the survey in the normal loop mode.

The corrected magnetic field data is plotted in Map 9 and 10, at a scale of 1:5,000. Again the grids are idealised, and the data for the north-south and east-west lines are presented separately in these figures. The two sets of data however have been combined in Map 11 at a scale of 1:2,500, and contoured at an interval of 500 gammas.

(ii) Results

The anomalous zone previously located was confirmed by the present work, and extended to the south. The anomalies are characterized by good PFE values with associated resistivity lows.

Two distinct zones can be seen (Maps 7 and 8). The northern zone trends off the grid to the south-east. It correlates well with the previous results on lines 0 and 2S, where a broad IP response (10-15PFE) extending to depth, is observed - centered at 6W on line 0+00 . This zone weakens to the south, and can only be observed at the extreme eastern edge of line 10S.

The second zone, again extending to depth (n=4),is observed in the center of the grid on line 12S. It trends south, becoming stronger and broader. The best anomalous IP values (15-20 PFE) are found on line 16S centered on 4+50W. A distinct break is observed between the two zones, indicating a discontinuity between line 10 and 12S trending west-north-west across the grid.

The resistivity values are generally low, and a correlation with the anomalous IP values is noted.

The presence of the volcanic sequence is clearly seen on the magnetic contour map (Map 11), in the western and southern portions of the grid. Some evidence for the discontinuity can also be seen in the magnetic data. The southern zone can also be possibly related to the geological contact between the volcanics and the porphyry stock.

(iii) Conclusions and Recommendations

Two distinct anomalous zones have been outlined, open to the east and south. Further work is required to fully delineate these zones. However, good target areas have been defined.

The previous coverage to the north is very inconclusive. Further work should also be carried out in this region,with the aim of defining the probable source area.

5. DRILLING

(i) Diamond Drilling

Diamond drilling was conducted to further outline zones of copper and molybdenum mineralization which had been indicated by earlier drilling and trenching. Drilling was done by Tonto Drilling Ltd. of Vancouver, B.C. using a Longyear 44 drill. Eight holes totaling 2412.4 metres were drilled in ten weeks. Core was split at the property,with half of the core being stored at the camp.

The other half was sent to Min-En Laboratories Ltd. for Cu,Mo (total) assay, and Ag, Au, W, Sn, Pb, Zn, As geochemical analysis. Analytical procedures are given in Appendices B and C.

Drill sites and access roads were prepared by Tonto Drilling Ltd. using a D6C caterpillar tractor. Approximately 1.5 kilometres of four-wheel drive road was constructed for drilling purposes. The longest access road was for percussion drill sites 15, 16, and 17.Other sites were either on previously existing roads or close to them.

Drill hole locations are shown on Map 1. Drill results are summarized on Table 2 .

Drill logs are compiled in Appendix B . Assays and geochemical results are in Appendixs C and D respectively.

Table 3 Summary of Diamond Drilling

Hole No.	Overburden (m)	Total Depth (m)	Lithology	Average Grade MoS_2 (equiv)	Cu
WCDH 018	15.24	367.57	Hornfels	0.023	0.071
019	12.50	266.70	Tuff, breccia	0.008	0.048
020	7.62	301.36	Hornfels	0.037	0.032
021	18.29	294.73	Hornfels	0.029	0.003
022	13.72	291.37	Aplitic quartz porphyry, breccia	0.018	0.034
023	18.29	316.99	Hornfels, aplitic quartz porphyry	0.024	0.030
024	6.10	285.29	Felsite	0.042	0.124
025	3.05	288.34	Aplitic quartz porphyry	0.110	0.057

(ii) Percussion Drilling

The object of the percussion drilling program was to test outlying areas for copper, molybdenum mineralization and also to test continuity of mineralization between diamond drill holes.

Twenty-two percussion holes totalling 1784 metres were drilled by Tonto Drilling Ltd. of Vancouver, B.C. using a BBE-57-01 percussion drill. A split from each continuous 3.03 m (10 ft) sample was geochemically analysed for copper and molybdenum by Min-En Laboratories Ltd. in North Vancouver (Appendix F). Two grab samples were also taken from each 3.03 m run, one for mounting and microscope study, the other as a spare.

Drill logs and geochemical analysis sheet are in Appendices E and F respectively.

6. ITEMIZED COST STATEMENT

ASSESSMENT COST REPORT - SMD MINING CO. LTD.

WHITING CREEK PROJECT - 1980 FIELD WORK

	WHIT 1 MC 2375	WHIT 2 MC 2376	WHIT 3 MC 2377	WHIT 4 MC 2378	WHIT 5 MC 2379	WHIT 6 MC 2380	TOTAL
DIRECT COSTS							
Geologic Mapping							
SMDC Salaries	3,094.00	1,722.00	771.00	638.00	595.00	51.00	6,871.00
Consultant-Fox Geological	956.50	956.50	717.28	717.28	287.07	287.06	3,921.69
Consultant-R.W. Bamford	721.10	721.10	540.75	540.75	216.43	216.42	2,956.55
Topographic Mapping							
SMDC Salaries	---	113.00	---	113.00	---	---	226.00
Air Photography: Contractor: Geographic Air Surveys	637.95	637.95	478.40	478.40	191.46	191.45	2,615.61
Base Map Preparation: Contractor: Pacific Survey Corp.	426.83	426.83	320.08	320.08	128.09	128.09	1,750.00
Grid Preparation & Linecutting							
SMDC Salaries	---	---	161.00	31.00	144.00	107.00	443.00
Contractor:Scope Exploration	---	---	2,926.94	1,813.47	4,418.95	2,487.84	11,647.20
Geophysics							
SMDC Salaries	---	---	174.00	---	174.00	169.00	517.00
Ground Magnetics: Contractor: P.Walcott	---	---	636.16	267.24	992.26	394.34	2,290.00
IP & Resistivity: Contractor: P.Walcott	---	---	2,201.28	1,805.76	3,215.04	2,377.92	9,600.00
Geochemistry							
Soil Sampling: SMDC Salaries	---	---	357.00	369.00	357.00	204.00	1,287.00
: Analysis: Min-En Labs	---	---	814.24	465.21	872.33	407.12	2,558.90
Rock Sampling: SMDC Salaries	434.00	434.00	---	---	---	---	868.00
: Analysis: Min-En Labs	15.00	15.00	---	---	---	---	30.00
SUB-TOTAL - DIRECT COSTS - GEOLOGY ETC.	6,285.38	5,026.38	10,098.13	7,559.19	11,591.63	7,021.24	47,581.95
Drilling - Percussion							
Contractor - Tonto Drilling	19,118.58	13,348.86	5,765.29	6,115.63	---	---	44,348.36
Geologic Logging: SMDC Salaries	1,875.00	1,036.00	756.00	108.00	---	---	3,775.00
Contractor: International Geosystems	431.10	301.00	130.00	137.90	---	---	1,000.00
Analysis: Min-En Labs	9,924.86	7,648.60	1,820.55	3,505.99	---	---	22,900.00

WHITING CREEK PROJECT - 1980 FIELD WORK

	WHIT 1 MC 2375	WHIT 2 MC 2376	WHIT 3 MC 2377	WHIT 4 MC 2378	WHIT 5 MC 2379	WHIT 6 MC 2380	TOTAL
Drilling - Diamond							
Contractor: Tonto Drilling	75,724.10	142,042.57	---	34,394.83	---	---	252,161.50
Geologic Logging: SMDC Salaries	2,273.00	6,061.00	---	2,339.00	---	---	10,673.00
Contractor: International Geosystems	677.77	1,271.35	---	307.85	---	---	2,256.97
Analysis: Min-En Labs	1,214.68	2,834.56	---	565.81	---	---	4,615.05
SUB-TOTAL - DRILLING COSTS	111,239.09	174,543.94	8,471.84	47,475.01	---	---	341,729.88
Road Construction							
SMDC Salaries	113.00	361.00	51.00	113.00	---	---	638.00
Contractor: Tonto Drilling	12,883.15	14,053.08	3,513.27	4,683.19	---	---	35,132.69
Contractor: Gary Beaubien	768.41	1,473.68	576.55	1,729.16	---	384.20	4,932.00
Instrument Usage	42.64	42.64	42.64	42.64	42.64	42.63	255.83
SUB-TOTAL - ROAD CONSTRUCTION	13,807.20	15,930.40	4,183.46	6,567.99	42.64	426.83	40,958.52
TOTAL - DIRECT COSTS	131,331.67	195,500.72	22,753.43	61,602.19	11,634.27	7,448.07	430,270.35
SUPPORT COSTS							
Camp Operations							
SMDC Salaries	4,000.24	4,995.42	1,165.38	1,905.93	652.20	272.83	12,992.00
Camp Supplies	7,412.33	9,256.39	2,159.42	3,531.63	1,208.51	505.55	24,073.83
Field Supplies	55.09	68.79	16.05	26.25	8.98	3.76	178.92
Report Writing							
SMDC Salaries	216.15	269.92	62.97	102.98	35.24	14.74	702.00
Field Management							
SMDC Salaries	2,460.74	3,072.92	716.88	1,172.43	401.20	167.83	7,992.00
Drafting							
SMDC Salaries	93.91	117.27	27.36	44.74	15.31	6.41	305.00
Vehicles - Rentals	2,449.84	3,059.31	713.71	1,167.23	399.42	167.09	7,956.60
TOTAL - SUPPORT COSTS	16,688.30	20,840.02	4,861.77	7,951.19	2,720.86	1,138.21	54,200.35

ASSESSMENT COST REPORT - SMD MINING CO. LTD.

WHITING CREEK PROJECT - 1980 FIELD WORK

	WHIT 1 MC 2375	WHIT 2 MC 2376	WHIT 3 MC 2377	WHIT 4 MC 2378	WHIT 5 MC 2379	WHIT 6 MC 2380	TOTAL
Travel & Transportation							
Fares & Related	2,572.18	3,212.10	749.35	1,225.53	419.37	175.43	8,353.96
Copter T & T	142.62	178.10	41.55	67.95	23.25	9.73	463.20
Freight	391.04	488.32	113.92	186.31	63.75	26.67	1,270.01
TOTAL TRAVEL & TRANSPORTATION	3,105.84	3,878.52	904.82	1,479.79	506.37	211.83	10,087.17
TOTAL FIELD COST	151,125.81	220,219.26	28,520.02	71,033.17	14,861.50	8,798.11	494,557.87
Administration 10%	15,112.58	22,021.93	2,852.00	7,103.32	1,486.15	879.81	49,455.79
TOTAL ASSESSMENT COST	166,238.39	242,241.19	31,372.02	78,136.49	16,347.65	9,677.92	544,013.66
GROUPING FOR ASSESSMENT CREDITS					GROUP 1	GROUP 1	
Applied for Assessment Credits							
Roadwork	13,807.20	15,930.40	4,183.46	6,567.99	42.64	426.83	40,958.52
Drilling, Geology, etc.	15,792.80	12,869.60	17,716.54	17,232.01	10,157.36	9,773.17	83,541.48
TOTALS:	29,600.00	28,800.00	21,900.00	23,800.00	10,200.00	10,200.00	124,500.00
Assessment Years Applied	8	8	8	9	10	10	53
Balance for PAC Credits							$419,513.66

7. STATEMENT OF QUALIFICATIONS

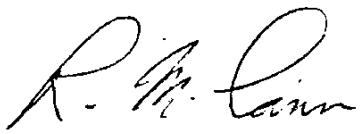
I, Robert M. Cann, of the City of Saskatoon, Province of Saskatchewan, hereby certify:

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 or carried out the work on the Whit 1 to 6 claims.



Robert M. Cann
November 25, 1980

CERTIFICATE OF QUALIFICATION

I, the undersigned certify that:

1. I graduated from the University of Exeter, England, with a B. Sc. degree in Physics.

2. I graduated from Imperial College, London, Royal School of Mines, with a PhD degree in Geophysics.

3. That I have five years experience in the field of mining geophysics.

Signed,

R.B. Matthews, PhD.

APPENDIX A

LOGISTICAL DETAILS OF GEOPHYSICAL SURVEYS

SURVEY SPECIFICATIONS

The induced polarization (I.P.) survey was carried out using a system manufactured by McPhar Geophysics Limited of Don Mills, Ontario. Measurements with this system are made in the frequency domain.

The system basically consists of three units; a receiver, a transmitter and a motor generator. The transmitter, which obtains its power from a 2.5 kw 400 cycle generator driven by a gasoline engine, injects current into the ground at two electrodes, C_1 and C_2, at two preselected frequencies, while the receiver, a very stable and sensitive potentiometer tuned to the frequency selected, makes measurements of observed voltages across the potential electrodes P_1 and P_2.

The data recorded in the field consists of careful measurements of current (I) flowing through electrodes C_1 and C_2, the voltage (V) appearing between the potential electrodes P_1 and P_2 on the low frequency, and the "percentage apparent frequency effect" appearing between P_1 and P_2 (the receiver is designed to measure directly:

$$\text{the \%age F.E.} = \frac{(P_a \text{ low} -- P_a \text{ high}) \times 100}{P_a \text{ high}}$$

The apparent resistivity (P_a) in ohm-metres is proportional to the ratio of the measured voltage and current, the proportionality factor depending on the geometry of the array used. In practise $\frac{P_a}{2\pi}$ is plotted.

A third parameter termed the "metal factor" is also calculated by dividing the apparent frequency effect by $\frac{P_a}{2\pi}$ and multiplying by 1,000.

The survey was carried out using the "dipole-dipole" electrode array. This electrode configuration and the methods of presenting the results are illustrated in the text. Depth penetration with this array is increased or decreased by increasing or decreasing "a" and/or "n".

In practise, the equipment is set up at a particular station of the line to be surveyed: three transmitting dipoles are laid out to the rear, measurements are made for all possible combinations of transmitting and receiving dipoles, the latter consisting of two porous pots filled with an electrolyte copper sulphate solution "a" feet apart, up to the fourth separation, ie. n=4; the equipment is then moved 3 "a" feet along the line to the next set-up.

The survey was carried out using a 100 metre dipole. Measurements of first to fourth separation resistivity and frequency effects were made every 100 metres along the survey lines. In all some 20.0 kilometres of survey were carried out using this method.

The magnetometer survey was carried out using a UM-220 proton magnetometer manufactured by Urtec Limited of Markham, Ontario.

Measurements of the absolute value of the total magnetic field (in gammas) were made every 50 metres along the designated lines. Additional readings were taken at 25 metre intervals in areas of steep magnetic gradients. Corrections for diurnal variations were made by tying-in to previously established base stations at intervals not exceeding two hours as the base recorder magnetometer was malfunctioning.

In all some 36.40 kilometres of magnetometer surveying were carried out.

PERSONNEL EMPLOYED ON SURVEY

Name	Occupation	Address	Dates
Peter E. Walcott	Geophysicist	Peter E. Walcott & Assoc. 605 Rutland Court, COQUITLAM, B.C.	June 25,1980
T. Kirby	Geophysical Operator	"	June 25-July 7/80
W. Schuurman	"	"	"
R. Summerfield	"	"	"
D. Mason	Helper	"	"
B. Kieley	Geophysical Operator	"	June 25-July 7 July 10-11 July 13-18/80
R. Throssell	Helper	"	June 25-July 7 July 10-11/80

APPENDIX B

DIAMOND 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

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

AC actinolite
AD adularia
AB albite
AM almandite
Al alunite
AX amphiboles,gen
AA andalusite
AG anglesite 68Pb
AH anhydrite
AN anorthite
AP apatite
AR aragonite
AS arsenopyrite 45As
AØ asbestos
AU augite
AT axinite
AZ azurite (see M*) 58Cu
AE aegerine

BA barite
BE beryl
BI biotite
B* biotite : hornblende
min.comb'n,undif
BI | biotite alone
B> | BI>HB
B= | BI=HB
B< | BI<HB
HB | hornblende alone
BS bismuthinite 70Bi
BØ bornite 63Cu
BR brochantite 56Cu

CA calcite (see D*)
CB carbonates,gen
CT cassiterite 79Sn
CE cerussite 77Pb
CH chalcanthite 25Cu
CC chalcocite,gen 80Cu
C$ " on ec.min
C. " on gangue
CP chalcopyrite 35Cu
CL chlorite
CD chloritoid
CR chromite 46Cr
CK chrysocolla 36Cu
ØL chrysolite(olivine)
CS chrysotile
CN cinnabar 86Hg
CY clay
C* clay ; muscovite
min.comb'n,undif
CY | clay alone
C> | CY>MU
C= | CY=MU
C< | CY<MU
MU | muscovite alone
CX clinopyroxene,gen

CZ clinozoisite
CF coffinite
CU copper,native Cu
CØ cordierite
CV covellite 66Cu
CI cuprite 89Cu

DC dickite
DG digenite
DI diopside
DØ dolomite
D* dolomite : calcite
min.comb'n,undif
DØ | dolomite alone
D> | DØ>CA
D= | DØ=CA
D< | DØ<CA
CA | calcite alone

EN enargite
ES enstatite
EP epidote
ER erythrite 30Co

FØ forsterite
FA fayalite
FT famatinite
FX feldspars,gen
FD feldspathoids,gen
FR ferberite W
FM ferrimolybdite 40Mo
FL fluorite 49F

GL galena 86Pb
G* galena : sphalerite
min.comb'n,undif
GL | galena alone
G> | GL>SL
G= | GL=SL
G< | GL<SL
SL | sphalerite alone
GA garnet
GS glass,gen
GN glauconite
GC glaucophane
GØ goethite
GD gold Au
GR graphite C
GR greenockite 78Cd
G$ greisen,gen
GY gypsum

HA halite
HV helvite
HE hematite,earthy 70Fe
HS hematite,specularite

H* hematite : magnetite
min.comb'n,undif
HE | hematite alone
H> | HE>MG
H= | HE=MG
H< | HE<MG
MG | magnetite alone

HB hornblende (see B*)
HU huebnerite 61W
HM hydromica (IL)
HY hypersthene

IL illite (HM)
IM ilmenite 32Ti

JD jadeite
JA jarosite
JØ jordisite 60Mo

KA kaolin
KY kyanite
KF K-spar,orthoclase
K* K-spar : plagioclase
min.comb'n,undif
KF | K-spar alone
K> | KF>PF
K= | KF=PF
K< | KF<PF
PF | plagioclase alone

LM laumontite
LW lawsonite
LU leucite
LE leucoxene
LI limonite
MF mafics,gen
MA magnesite 48MgO
MG magnetite(seeH*) 72Fe
MC malachite 58Cu
M* malachite : azurite
min.comb'n,undif
MC | malachite alone
M> | MC>AZ
M= | MC=AZ
M< | MC<AZ
AZ | azurite alone
MN manganite 68Mn
MT marcasite
MR mariposite
ML melnikovite
MI micas,gen
MØ molybdenite 60Mo
MZ monazite
MM montmorillonite
MU muscovite (see C*)
MS sericite

NF nepheline
NI niccolite 44Ni

ØL olivine(chrysolite)
ØP opal
ØQ opaques,gen
ØX oxides,gen
ØR orthopyroxene,gen

PH phlogopite
PF plagioclase (see K*)
PT platinum Pt
PØ powellite 58Mo,W
PS psilomelane Mn
PY pyrite 47Fe
PL pyrolusite
PX pyroxene,gen
PP pyrophyllite
PR pyrrhotite 60Fe
PN pentlandite

QZ quartz,gen
QA quartz,agate
QC quartz-carbonate
QH quartz,chert
QM quartz,amethyst
QX quartz,crystals
QS quartz-sericite
QT quartz-tourmaline
QR quartz,rutilated
QV quartz vein,massive

RC rhodochrosite Mn
RN rhodonite Mn
RU rutile 60Ti

SA sanidine
SC scapolite
SZ scorzalite
SF sericite-fluorite assemblage
SH scheelite 64W
MS sericite (MU)
SE serpentine
SD siderite 48Fe
SI sillimanite
SV silver
SS silver & sulphosalts
SØ sodalite
SL sphalerite (see G*) 67Zn
SP sphene
ST staurolite
SB stibnite 72Sb
SU sulphates,gen
SX sulphides,gen
SR sperrylite

TA talc
TL tellurides,gen Te
TN tennantite 50CU 56Sb+As
TE tenorite 80Cu
TT tetrahedrite Cu+Sb
TX TT,TN undif
TZ topaz
TØ tourmaline
TR tremolite

UR uraninite(pitchblende 92U
UX uranium minerals,gen

VA vanadinite 73Pb,11V
VE vesuvianite

WD wad Mn + other
WØ wollastonite
WF wolframite 62W
WN wulfenite 56Pb+26Mo

ZE zeolites,gen
ZI zircon
ZØ zoisite

XX any mineral
YY " "
ZZ " "
XY " "

X1) minerals identi-
X2) fied elsewhere
Y1) or later

A D D E N D U M :

RECAP SUMMARY OF SOME IMPORTANT
G E N E R A L M I N E R A L S

AX amphiboles
CB carbonates
CC chalcocite
CX clinopyroxene
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
TL tellurides
TX TT,TN undif
UX uranium min's
ZE zeolites

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

S P E C I A L N O T E Any two-letter Mineral Code followed immediately by a G-Scale estimated percentage presence of that 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, roundess, 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 Ø-Scale for percussion drill logs.

Columns 77-78 (lower) -

Number of quartz veins in each logging interval.

H - SCALE
MODE OF OCCURRENCE OR 'HOW'

	Symbol	Description
	0	- Fresh, primary rock (Z for Zero)
	1	- Amygdaloids (A), minor Macroveins (>) and/or scattered Crystals (D)
DEGREE	2	- Macroveins (>) and Veins (V)
OF	3	- Veins (V) and Dalmationite (Y) {Spots (Ø) or Patches (O) (as in Quilts)}
PERVAS-	4	- Veins (V), occasionally with Envelopes (E)
IVE-	5	- Veins (V), usually with Envelopes (E)
NESS	6	- Pervasive (P) or Disseminations (D) {LESS THAN} {Veins (V), Microveins (<) Selvages (S), Envelopes (E)}
INCREAS-	7	- " " {EQUAL TO} " "
ING	8	- " " {GREATER THAN} " "
	9	- Pervasive (P) or Disseminations (D), Veins (V), Microveins (<), Selvages (S) & Envelopes (E) with much Breccia filling (B), Stockwork (K) and/or Sheeting (S)
	X	- Massive (Q) and/or Laminated/Bedded (L)

Symbol	Description
A	Amygdaloids, cavity fillings
B	Blebs
B	breccia fillings
C	Coatings & encrustations
c	clasts
D	Disseminations & scat.x'ls
E	Envelopes
F	Framework crystals
G	Gouge
H	
I	eyes, augen
J	interstitial
K	stockwork
L	Laminations/bedded
M	Massive
N	Nodules
Ø	spots
P	Pervasive
Q	patches, as in Quilts
R	Rosettes & x'l clusters
S	Selvages
S	Sheeting
T	sTainings, as in Tarnish
U	eU-hedral crystals
V	Veins
>	macroveins
<	microveins, free fillings
W	boxWork
X	Massive and/or laminated/bedded
Y	dalmationite
Z	fresh, primary rock

G - SCALE
FOR PERCENTAGE ESTIMATES

Assgn Value	Scale Value	Description and Range
0	0	Absent
.01	.	Trace = <.02
.03	-	.02 to <.05
.1	(	.05 to <.2
.3	o	.2 to <.5
1	)	.5 to < 2
2.5	+	2 to < 3
5	=	3 to < 7
10	1	7 to <15
20	2	15 to <25
30	3	25 to <35
40	4	35 to <45
50	5	45 to <55
60	6	55 to <65
70	7	65 to <75
80	8	75 to <85
90	9	85 to <100
100	X	100%
.07	/	Present: Est. impossible
0	?	Possibly present

Q-SCALE

— 0	Absent	
— T	Trace	
— L	Low	
— F	Fair	
— B	Below M	
— M	Medium	
— A	Above M	
— H	High	
— V	Very H	
— E	Extra	
— X	100%	

THE S-SCALE FOR GRAIN OR PARTICLE SIZE

IGNEOUS, METAMORPHIC & CHEMICAL	PARTICLE DIAMETER RANGE	ASSGN VALUE	SYMBOL <<FOR GENERAL WORK	SYMBOL FOR DETAIL WORK>>		ASSGN VALUE	VOLCANICLASTICS
Glassy	mm	.003 mm	0	CLAY SIZE	A	.003 mm	
Extremely fine grained (aphanitic)	2^{-8}=.004						
	2^{-7} ——	.008	1	V.FINE SILT	B	.006	fine
	2^{-6}=.016			FINE SILT	C	.011	
	2^{-5} ——	.03	2	MEDIUM SILT	D	.022	ash
	2^{-4}=.06			COARSE SILT	E	.044	
Fine grained	2^{-3} ——	.12	3	V.FINE SAND	F	.088	
	2^{-2}=.25			FINE SAND	G	.177	coarse
	2^{-1} ——	.5	4	MEDIUM SAND	H	.354	
	2^{0} = 1			COARSE SAND	I	.707	ash
Medium grained (granular)	2^{1} ——	2	5	GRIT	J	1.41	
	2^{2} = 4			GRANULE	K	2.83	
Coarse grained	2^{3} ——	8	6	V.SMALL PEBBLE	L	5.66	small lapilli
	2^{4} = 16			SMALL PEBBLE	M	11.3	
Very coarse grained	2^{5} ——	3.2 cm	7	MEDIUM PEBBLE	N	22.6	large lapilli
	2^{6} = 64			LARGE PEBBLE	Ø	45.3	
Pegmatitic	2^{7} ——	13 cm	8	SMALL COBBLE	P	90.5	cobble-size bombs & blocks
	2^{8} =250			LARGE COBBLE	Q	181	
Megapegmatitic	2^{9} ——	½m	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/

Sym bol	Assgn 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

\ Coarse Fraction

41/

This %-scale, used for the Per Cent C_F, is the G - Scale

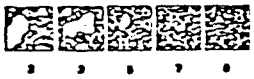
NOTE: 1. It is quite permissible to intermix the alphabetic symbols with the numeric symbols of this S-Scale, whenever detail work demands it — no conflict ensues by doing so.

2. Use the S-Scale for Fine Fraction (F_F), Coarse Fraction (C_F) and Max Particle ($M_{\times}P$) in F(39,40,&42)/

3. For Seriate Texture, in which the Grain Size varies gradually or continuously, enter significant Fine Particle size in F_F, in F(39)/ and the large end of the range in $M_{\times}P$, in F(42)/

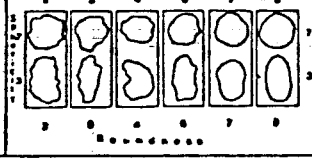
DEGREE OF SORTING 38L

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

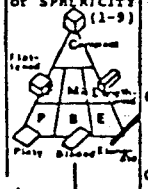


DEGREE OF ROUNDNESS 40L

1 extremely angular
2 very angular
3 angular
4 moderately angular
5 intermediate
6 moderately rounded
7 rounded
8 very rounded
9 extremely rounded



SHAPE(alpha) or SPHERICITY (1-9)



41L

W-Scale 1-9

OPEN (Ø) or CLOSED (C) STRUCTURE or EQUI-(E) or INEQUI-(I) GRANULAR

Ø-open/disrupted -majority of larger particles not touching one another
C-closed/intact majority of particles or fragments touching

42L

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

For Degree of Sorting (S_R) and Degree of Roundness (R_W), 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.

TYPE MODIFIER — % OF MIX

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

Sym bol	As'gn 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

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

21.U

21.L

21 22 23

ROCK UNIT NAME or A G E

Formation name xx+ (or xxx)
Member name xx= (or xxx)
Submember name xx- (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 a - 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

THE F SCALE

Range Values	As'gn Value	Sym bol	Descriptive
	0	0	unfractured
0 - 2	1	1	extra low intens
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 DH/traverse

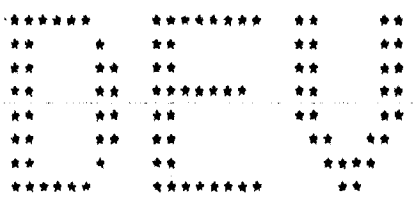
DEFINITIONS: (1) A rock body more or less uniformely cut by 1 set of fractures (joints), on the average 1 metre apart, is said to have a fracture density of 1 (FD=1). (2) A fracture set is a family of parallel or sub-parallel fractures.

LEMMAS: (1) When one fracture set cutting a 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.

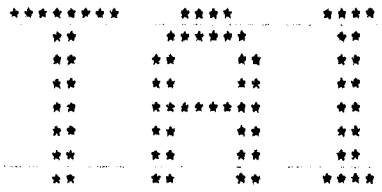
80.170

*GEOLOG>SMDC01>WHITNG>PRLOG

GCOS6 MOD400-L2.0-12/10/0744



1981/02/26 1411:01.7 ILPT00 HONEYWELL BILLERICA



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20004 TAI.DEV.INT FOR TAI DEV 20004

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
WHITING CK PORPHYRY MO-CU DEPOSIT BC

FORMAT VERSION : 6802

DRILLHOLE/TRAVERSE : WCDH018	COLLAR ELEVATION: 1388.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : RMC +
TOTAL DEPTH/LENGTH : 367.57	NORTHING(- IF S): 3092.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800818
CORE/HOLE DIAMETER : NQ	EASTING (- IF W): 1838.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4942

KEY	FLAG	- INTERVAL - (UNITS = . DEC.PLACE) (MT=METRIC FT=FOOTRIC) FROM	TO	INT	CORE RECOV- ERY (.)	T- D	X	% M O I	ROCK TYPE	TYPI- FYING TM 1	TM 2	QAL MIN MAT QM1	TEX- TURES TX 1	TX 2	GRAIN CHARACS F	C	%	M	A	TOTAL FRAC DEN /RI MI	PGI T 1	STRUCTUR-1 ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS H A ANY GY	ORE-TYPE H A PY	H A CP	H A GL	MINS H A ANY YY	SUMMARY ALT - F	- I	- Z	ORE - 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-	G	LC-	3			3	4	O	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	14.94	14.94			OVER														P																	
L	OVB																																					
/		14.94	18.00	3.06	134		LPTF				BR		4	7	4	7					P	V1		85	<+		P*			<1			C	5F		
L	CAP				000	HZ	AN	3A					3	6	4	C										E+				LI		E.		C-	10		
/		18.00	21.00	3.00	111		LPTF				BR		4	7	4	7					P	V1		25	<*		P*			<=	<=		00	5L		
L	SSX				000	HZ	AN	3A					3	6	4	C										00				00		00		00	04		
/		21.00	24.00	3.00	145		LPTF				BR		4	7	4	7					P	V1		85	<)		P?			31			C	5F		
L	SSX				23	HZ	AN	3A					3	6	4	C						V1		67		E+	5+			LI		S.		C-	15		
/		24.00	25.70	1.70	150		LPTF				BR		4	7	4	7					P	V1		65	8*		P?		V.		<+		C	5L		
L	SSX				73	HZ	AN	3A					3	6	4	C						V1		35		E)	5+			LI		4.		C.	00		
/	CNT	25.70	27.00	1.30	130		TUFF						2	2		3					P	CN		T60	V=		P?			V*	V=		C	5L		
L					70	HZ	AN	4A																		E*				LI				C.	04		
/		27.00	30.00	3.00	192		TUFF						2	2		5					P	V1		86	<*		P?				<+		CC	5L		
L	SSX				39	HZ	AN	3A														V1		81		E)	5(			LI		<.		C.	05		
R		15.00	41.30		SUB-HORIZONTAL,CLOSELY SPACED FRACTURES COMMON NEAR TOP OF HOLE																																		
/		30.00	33.00	3.00	136		TUFF						2	2		5					P	V1		48	V=		P?				<+		CC	5L		
L					000	HZ	AN	3A														VN		25		E*	E.			LI		V.		C.	08		
/		33.00	36.00	3.00	137		TUFF						2	2		5					P	V2		64	V+					<+	<+		C	5L		
L	SSX				000	HZ	AN	3A														V1		66		E(	P?					C.		17		
/		36.00	39.00	3.00	150		TUFF						2	2		5					P	V3		37	V=					<.	<)		00	5L		
L	HYP				000	HZ	AN	3A														V2		75		E(	P?					V.		00	18		
/		39.00	42.00	3.00	220		TUFF						2	2		5					P	V2		60	V=					<.	<+		CV	5L		
L	HYP				000	HZ	AN	3A														V1		66		00	P?					V.		C.	19		

K E Y	F -L- G	F R O M -	T O -	I N T	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 TM	QM2	TX TX	TX S	F C R	% M S	TFDM O	SML	RI 2	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
R		39.00	42.00		MICRO-TARNISHES OF COLOURED CV? ON PY AND SOME V-QZ, TRACE C																													
/		42.00	45.00	3.00	237		TUFF					2 2	5		P			V1		55	V+						<=	<+			C	SL
L	SSX				000	HZ	AN	3A										V2		65		E)	S=								C.	06
/		45.00	48.00	3.00	296		TUFF					2 2	5		P			V1		42	<=						V=	<)			C	SL
L	SSX				013	HZ	AN	3A										V4		90		E)	4=								C.	04
/		48.00	51.00	3.00	300		TUFF					2 2	5		P			V2		80	V)						<*	<)			C	SL
L					012	HZ	AN	3A										V1		50		E*	4=								C.	07
/		51.00	54.00	3.00	287		TUFF					2 2	4		P			V1		62	V*					V.	<)	<+			CV	SL
L	SSX				000	HZ	AN	3A										V4		50		E)	<=								C=	04
/		54.00	57.00	3.00	249		TUFF					2 2	4		P			V1		48	V+	Q.				V.	<)	<)			CV	SL
L	SSX				000	HZ	AN	3A										V1		75		E(	S.								C=	09
/		57.00	60.00	3.00	228		TUFF					2 2	4		P			V1		60	V*		P?			V.	<)	<)			CV	SL
L	SSX				028	HZ	AN	3A										V4		50		E(	<.								C.	05
/		60.00	63.00	3.00	250		TUFF					2 2	4		P			V1		83	V.		P?			V/	<)	<*	V.		CC	SL
L	SSX				000	HZ	AN	3A										V4		50		E)	<=								C.	00
R		60.00	63.00		ROCK IS MODERATELY MAGNETIC,TRACE LI IN FRACTURES																													
/		63.00	66.00	3.00	238		TUFF					2 2	4		P			V1		75	V.		P?			V/	<)	<*			CV	SL
L	SSX				000	HZ	AN	3A										V4		50		E(	<=								C.	02
/		66.00	69.00	3.00	282		TUFF					2 2	6		P			V2		60	V*					<.	<*	<)	<.		CV	SL
L	HYP				025	HZ	AN	3A										V2		70		E*	<.								C=	08
/		69.00	72.00	3.00	283		TUFF					2 2	4		P			V1		15	A(	Q.				<.	<)	<*	D.		CV	SL
L	HYP				091	HZ	AN	3A										V2		70		E(	<.								C=	02
R		69.00	72.00		MICRO-TARNISH OF CV LOCALLY PRESENT																													
/		72.00	75.00	3.00	281		TUFF					2 3	4		P			V1		60	<*					<.	<=	<+			C	SL
L	SSX				000	HZ	AN	3A										V4		40		E*	S=								C.	09
R		72.00	75.00		CV PRESENT IN TRACE AMOUNTS,GENERALLY IN VUGGY QZ <.																													
/		75.00	78.00	3.00	238		TUFF					2 3	4		P			V2		40	V*					<.	<=	<)	<.		C	SL
L	SSX				000	HZ	AN	3A										V1		25		E*	S=								C.	05
/		78.00	81.00	3.00	223		TUFF					2 3	4		P			V1		50	<*					<.	<=	<)			CV	SL
L	SSX				000	HZ	AN	3A										V4		40		E*	00						<.		<.	12
/		81.00	84.00	3.00	232		TUFF					2 3	4		P			V1		80	<)					<.	<=	<+	<.		C	SL
L	SSX				000	HZ	AN	3A										V1		55		E*	00								C.	12
R		75.00	90.00		TRACE LI COMMONLY PRESENT IN PY <.																													
/		84.00	87.00	3.00	227		TUFF					2 3	4		P			V1		80	<)					<(	<=	<+	<.		CV	SL
L	TRN				000	HZ	AN	3A										V4		90		E*	<.						<.		C.	14
/		87.00	90.00	3.00	243		TUFF					2 3	4		P			V1		45	<*					<(	<=	<+			C	SL
L	TRN				000	HZ	AN	3A										V2		35		E*	00						V.		C.	10

KEY	F-L-G	FROM-m	TO-m	INT-m	RECOV / RQD	MD / AGE	% / EV	ROCK / RQ	TM / LC	TM / TM	QM1 / QM2	TX / TX	TX / TX	F / S	C / R	% / S	M / U	TFDM / SML	RI / 2	ID	AZM	DIP	QZ / KF	BI / MU	CY / CL	CB / EP	MG / HE	GY / XX	PY / PR	CP / MO	GL / SL	YY	F I Z I
R		87.00	90.00		LOCALLY TRACE BO WITH PY																													
/		90.00	93.00	3.00	269			TUFF						2	2		6		P	V2		20	<)				<.	<*	<+	<-		CV	5F
L	TRN				000		HZ	AN	3A											V1		37		E*	<.				V.		D.		15
/		93.00	96.00	3.00	218			TUFF						2	2		6		P	V1		75	<*				<.	<*	<+	00		CV	5L
L	TRN				000		HZ	AN	3A											V1		35		E*	<.				00		C.		09
R		93.00	96.00		CV PRESENT IN TRACE AMOUNTS WITH CC																													
/		96.00	99.00	3.00	172			TUFF						2	2		6		P	SS		45	<)				<.	<)	<)	00		00	5L
L	HYP				000		HZ	AN	3A											V2		80		E*	00				<.		00		12
R		96.00	99.00		SS IS A SLICKENSIDED SURFACE																													
/		99.00	102.00	3.00	125			TUFF						2	2		6		P	V2		90	<)				D.	<*	<)	00		CV	5L
L	TRN				000		HZ	AN	3A											V1		65		E*	00				<.		C.		14
R		99.00	102.00		TRACE DISSEM. BO																													
/		102.00	105.00	3.00	158			TUFF						2	2		6		P	V2		75	<)				<.	<*	<)	00		CV	5F
L	TRN				000		HZ	AN	3A											V1		60		E)	S.				V.		<.		16
/		105.00	108.00	3.00	176			TUFF						2	2		6		P	V2		70	V+				<.	<*	<+	00		CC	5L
L	TRN				000		HZ	AN	3A											V1		65		E(	<.				<.		C.		18
/		108.00	111.00	3.00	197			TUFF						2	2		6		P	V1		60	<)				<.	<*	<+	<-		CV	5L
L	TRN				000		HZ	AN	3A											V2		65		E*	S.				<.		C.		15
R		108.00	111.00		PY BOXWORK LOCALLY PRESENT IN QZ V																													
/		111.00	114.00	3.00	165			TUFF						2	2				P	V1		60	5+					<*	<=			5F	
L	HYP				039		HZ	AN	4A											V6		60		E*	<.								11
R		113.60	113.60		CORE BECOMES SOLID AT 113.6 M.																													
/		114.00	116.60	2.60	218			HNFL											P	V1		60	>2	O=			D/	<(	<+			5F	
L	HYP				197				4A															E)	S.								11
/		116.60	117.00	0.40	40			PPAN			CM			1	4		5		P	V4		20					P/	<(	<*			1T	
L	DYK				32				3A																O.							00	
R		116.60	117.50		CHILL MARGIN IS 0.9M WIDE																													
/		117.00	120.00	3.00	280			PPAN			CM			1	5	2	6		P	V4		70		O)				<*	<(			7L	5L
L	DYK				115				3A											V1		75		O*	O.							00	
R		117.00	123.00		V OF ANHYDRITE(?)-COLOURLESS TO PALE YELLOW XSTALLINE MINERAL																													
R		117.00	120.00		FL ALT. TO MS HB HAS GONE TO CL-BI																													
/		120.00	123.00	3.00	276			PPAN			CM			1	5	2	6		P	V1		65		O)	O)			<*	<*			7L	3L
L	DYK				141				3A											V1		75		00	O.							00	
R		120.00	123.00		PUCKMARKED CORE=FL ALT TO CY																													
/		123.00	126.00	3.00	251			PPAN			CM			1	5	4	6		P	V7		73		O)				<*	<*	V(		7L	5L
L	DYK				166				3A											V4		80		00	00							00	
/		126.00	129.00	3.00	258			PPAN			CM			1	5	4	6		P	V1		70		O)			D/	<*	<(			7T	5L
L	DYK				173				3A											V4		15		00	00							00	

K E Y	F -L- G	FROM	TO	INT	RECOV RQD	MD AGE	X EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		129.00	132.00	3.00	285			HNFL			BD			1					P	V7	80	V=				O-	<)	<+	V*		5L				
L	HYP				223	HZ			3A											BD	60		E(	<.								6			
R		129.00	132.00		FAINT BEDDING INDICATES ROCK WAS ORIGINALLY A BEDDED TUFF																																
/		132.00	135.00	3.00	295			HNFL			00			1					P	V7	80	V1				00	<)	<=	V(		5B				
L	HYP				295	HZ			3A											V1	52		E=	00								15			
/		135.00	138.00	3.00	281			HNFL			BD			1					P	V1	80	>2				<.	<)	<)	B.		5F				
L	HYP				185	HZ			3A											SS	70		E1	<.								8			
/	DYK	136.49	137.00	0.51			X	PPAN						1	5	2	6		R								<)	71						
L	HYP																							E*											
R		136.49	137.00		UPPER AND LOWER CONTACTS ARE FAULTED																																
/		138.00	141.00	3.00	285			HNFL			BD			1					P	V1	50	>1				O-	<)	<+	00		5L				
L	HYP				241	HZ			3A											V1	55		E(	<.						<.		7			
R		138.00	141.00		MO GENERALLY OCCURS AS STRINGERS OR SELVAGES IN QZ >.																																
/		141.00	144.00	3.00	300			HNFL			BD			1					P	V5	65	>1				00	<)	<+	V*		5L				
L	HYP				290	HZ			3A											V1	40		E(	<.						<.		10			
/		144.00	146.13	2.13	210			HNFL			BD			1					P	V5	35	>3				00	<+	<)	V*		5L				
L	HYP				223	HZ			3A											V5	60		E(	00						<(		8			
/		146.13	147.00	0.87	74			PPFL						2	5	1	6		P	V4	47							<+			1L				
L	DYK				22				3A											V1	65				0)	D/					0				
/		147.00	150.00	3.00	290			PPFL						2	5	1	6		P	V1	72							<)			1L				
L	DYK				68				3A											V4	15				0+	D/					0				
/		150.00	153.00	3.00	296			PPFL						3	5	2	6		P	V1	40		0)			D/	<+	<)			7L				
L	DYK				98				4A											V1	40										0				
/		153.00	156.00	3.00	258			PPFL						3	5	2	6		P	V1	75		0)		B.	D/	<+	<)			7T				
L	DYK				75				4A											V1	40										0				
/		156.00	159.00	3.00	283			PPFL						3	5	2	6		P	V7	77		0)			D/	<+	<)	<-		7T				
L	DYK				79				4A											V1	72				S-	0*					0				
/		159.00	162.00	3.00	241			PPFL						3	5	2	6		P	V7	75	X.	0)			D/	V+	<)	#-		7L				
L	DYK				30				4A											V4	57				#)	X.					0				
/		162.00	165.00	3.00	290			PPFL						3	5	2	6		P	V1	40	V.	0)			D/	<+	<)	V*		7L				
L	DYK				46				4A											V1	40										1				
/		165.00	165.52	0.52	252			PPFL						2	2	2	1		P	CN	L75		0)			D/	<+	<)			7L				
L	DYK				00				4A											V1	40										0				
/		165.52	168.00	2.48	227			TUFF						2					P	V5	50	V1				<.	<)	<+	B-		5T				
L	DYK				180	HZ		AN												V1	80		E*	S.						<.		15			

KEY	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV RQD	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 TM	QM2	TX TX	F TX	C S	X R	M S	O	TFDM SML	RI 2	1 ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I - - - -
/		168.00	171.00	3.00	300		TUFF						2						P	V2		80	V3				D/	V+	<+	B.		5L	
L					271	HZ	AN	3A												V5		78		E+	S-						D.		09	
R		168.00	171.00		LATE GY FILLS VUGS IN QZ V,PY V CUT GY.																													
/		171.00	174.00	3.00	297		TUFF						2						P	V2		85	V1				D/	<+	<=	B.		5F	
L					240	HZ	AN	3A												V1		47		E+	S-						D.		08	
/		174.00	177.00	3.00	296		TUFF						2						P	V5		70	V=				D/	V+	<)	00		5L	
L					251	HZ	AN	3A												V1		75		E+	S-						<.		07	
/		177.00	180.00	3.00	270		TUFF						2						P	V1		45	V=				D/	V+	<+	00	AH	5L	
L					248	HZ	AN	3A												V5		35		E+	S-						<-	V*	05	
R		177.00	180.00		DISSEM MO NOTED IN QZ-AH V.MO OCCURS IN BOTH AH & QZ.																													
R		177.00	180.00		MO OCCURS AS < AND AS RIBBONS IN QZ.																													
/		180.00	183.00	3.00	294		TUFF						2						P	V2		55	V+				D/	#=	<+	B.		5L	
L					240	HZ	AN	3A												V5		72		E=	S-						<-		06	
/		183.00	186.00	3.00	297		TUFF						2						P	V1		60	<)				D/	V+	<=	B.		5F	
L					197	HZ	AN	3A												V5		78		E+	S-						<.		02	
R		183.00	186.00		PY A LSO OCCURS AS D & #.																													
/	FLT	186.00	189.00	3.00	294		TUFF												P	F/		75	V2				B-		<+			5F	
L	HYP				94	HZ	AN	3A												V5		45		E+							<.		14	
R		186.53	188.20		ROCK IS GENERALLY SHEARED,WITH ONE SECTION FLT BRXX																													
/		189.00	192.00	3.00	295		TUFF												P	V1		60	V2				B-		<+	B.		5F	
L	HYP				216	HZ	AN	3A												V5		45		E+	<=						<.		13	
/	FLT	189.13	189.74	0.61			X BRXX						3	6	8	7			R	CN		T87							D1				
L							FT						2	4		C				CN		L85								<.		00	
R		189.13	189.74		BRXX CUTS QZ V,AND ALT.,HOWEVER D PY OCCURS IN MATRIX																													
/		192.00	195.00	3.00	300		TUFF												P	F/		77	V=				B.	<+	<)	B-		5F	
L	HYP				189	HZ	AN	3A												V5		85		E=	S-						S-		06	
/		195.00	198.00	3.00	284		TUFF												P	V5		35	V+				B-	<+	<+	B.		5L	
L	HYP				250	HZ	AN	3A												V5		45		E+							<.		04	
/		198.00	201.00	3.00	292		TUFF												P	V4		65	V=				B-	<+	<+			5T	
L	HYP				223	HZ	AN	3A												V5		45		E)							<-		13	
/		201.00	204.00	3.00	290		TUFF												P	V1		78	V=				S(	V=	V=	V.		5L	
L					168	HZ	AN	3A												V4		80		E+							00		05	
R		201.00	204.00		MG OCCURS AS BLEBS IN QZ-PY V.																													
/		204.00	207.00	3.00	280		TUFF												P	S8		37	V+				B-	<+	<)	B.		5L	
L					179	HZ	AN	3A												V5		45		E+							<.		06	
/		207.00	210.00	3.00	297		TUFF						2						P	V5		40	V=				</	<+	<+	B.			
L	HYP				217	HZ	AN	2A												V5		15		E)							S-		10	

K E Y	F -L- G	FROM -----,--	TO -----,--	INT ---,--	RECOV RQD	MD % AGE	ROCK EV	TM RG	TM LC	QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	I ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		210.00	213.00	3.00	293		TUFF						2					P	V5		82	V=			</	<+	<+	B.					
L	HYP				246	HZ	AN	2A											V5		20		E)						<-			07		
R		210.00	213.00		V RELATIONS INDICATE EARLY PY,CUT BY QZ-MO,WHICH ARE ALSO CUT BY																													
R		210.00	213.00		LATER PY,GY IS LATER THAN SULPHIDES.																													
/		213.00	216.00	3.00	288		TUFF						2					P	V1		35	V1			<(	<+	<=	00					
L	HYP				175	HZ	AN	2A											V5		50		E)	S.					<-			15		
R		213.00	216.00		MG OCCURS WITH PY IN <.																													
/		216.00	219.00	3.00	289		TUFF						2					P	V5		90	V1			<(	<+	<+	B.					
L	HYD				130	HZ	AN	2A											V1		40		00	S-					<(			11		
/		219.00	222.00	3.00	300		TUFF						2					P	V5		35	V=			<(	<+	<)	B.					
L	HYP				131	HZ	AN	2A											V1		55		00		G.				<(			15		
/		222.00	225.00	3.00	295		TUFF						2					P	V2		70	V1			</	<=	<)	B.	AH				
L	HYP				151	HZ	AN	2A											V5		15		00						<-	V+		12		
R		222.00	225.00		AH(?) IS PALE YELLOW,XSTALLINE,H=4.5																													
/	FLT	223.10	223.28	0.18			X TUFF			SH								R	SH		90	00				00	G2	00	00					
L																							G2						00					
/		225.00	228.00	3.00	294		TUFF						2					P	SH		85	V)			<+	V+	<+						
L					114	HZ	AN	3A											V4		77		E*						S.			02		
/		228.00	231.00	3.00	293		TUFF						2					P	SS		75	V)			<+	<=	<+						
L					138	HZ	AN	3A											V2		80		E*						00			03		
/		231.00	234.00	3.00	290		TUFF						2					P	V5		63	<)	Q)		Q)	<=	7=				7T		
L					246	HZ	AN	3A											V4		30		00						<.			04		
R		231.00	234.00		INCREASING MG & . BI,SUGGESTS MAY BE WEAK 7 ALT.																													
/		234.00	237.00	3.00	298		TUFF						2					P	V1		45	<+			Q)	V+	V+				7T		
L					216	HZ	AN	3A											V2		75		00		C.				<-			09		
/		237.00	240.00	3.00	292		TUFF						2					P	V1		45	<)	Q.		Q)	<+	V+						
L					151	HZ	AN	3A											V4		77		E*						00			05		
/		240.00	243.00	3.00	300		TUFF						2					P	SH		77	V+			D/	<+	<=						
L					131	HZ	AN	3A											V4		80		E(						<.			06		
/		243.00	246.00	3.00	286		TUFF						2					P	V1		65	V+	Q.		<)	<=	<+						
L					076	HZ	AN	3A											V4		77		E*						S.			06		
/	HFL	246.00	248.01	2.01	200		TUFF						2					P	V7		50	V)			<)	<+	<+	V=		AH			
L	HYP				181	HZ	AN	2A											V2		60			S.					<.		V=	05		
/	DYK	248.01	249.00	0.99	80		PPHB											P	V4		50		0+		D/	<+	7*						
L					00			3A																								00		
/	DYK	249.00	250.56	1.56	149		PPHB											P	CN		L60		0+		D/	<+	<+						
L					76			3A											V1		50											00		

K E Y	F -L- G	F R O M	T O	I N T	RECOV R Q D	MD AGE	% EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI 1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/	HFL	250.56	252.00	1.44	144			TUFF						2					P	V5		30	<)				<)	<+	<+						
L	HYP				109		HZ	AN	2A											V1		45								<.		03			
/		252.00	253.07	1.07	105			TUFF						2					P	V1		30	<)	A)			<)	<+	<+						
L	HYP				052		HZ	AN	2A											V4		65								S.		03			
/	DYK	253.07	255.00	1.93	188			PPAN	FL	HB		CM		2	5	5	6		P	CN		W60		O=		D/	<+	<+	B(			7L	5L		
L					91															V1		40		E*	O.							00			
/		255.00	256.00	1.00	100			PPAN	FL	HB		CM		2	5	5	6		P	CN		L75		O=		D/	<+	<+	00			7L	5L		
L					92															V1		40		E*	O.							00			
/	HFL	256.00	258.00	2.00	194			TUFF						2					P	V5		80	V+	Q1			<)	<+	<=	B.			7L		
L	HYP				151		HZ	AN	3A														E.	E.						<-			08		
/		258.00	261.00	3.00	291			LPTF						2	5	6	6		P	V1		30	V)	<)			<)	<+	<+	V.			7T		
L	HYP				263		HZ	AN	3A					1	3		C															06		
/		261.00	263.79	2.79	261			LPTF						2	5	6	6		P	V1		52	V=	<)			<)	<+	<+	00			7T		
L	HYP				160		HZ	AN	3A					1	3		C			V4		60								<-			06		
/	DYK	263.79	264.00	0.21	016			PPAN	FL	HB		CM		2					P	CN		U70							<+						
L					15				3A																										
/	DYK	264.00	267.00	3.00	294			PPAN	FL	HB				2	5	2	6		P	V1		70		O)			D0	V+	<)	V*			7T		
L					203				4A																								00		
/		266.49	266.61	0.12			X	FAUL				SH							R	SH		72		G2	G2				B)					
L																																			
/	DYK	267.00	270.00	3.00	300			PPAN	FL	HB				2	5	2	6		P	V7		75		O)			D0	V=	<+	<+			7T		
L					185				4A											V1		70		E.								00		
/	DYK	270.00	271.85	1.85	176			PPAN	FL	HB		CM		2	5	2	6		P	CN		L65		O)			D0	V1	<)	V*			7T		
L					226				4A											V4		90										00		
R		271.85	271.85		LOWER CONTACT SHEARED																															
/	HFL	271.85	273.00	1.15	115			HNFL											P	V5		65	V1				D.	<+	V+						
L	HYP				113				3A																					<.		05			
/	HFL	273.00	276.00	3.00	296			HNFL											P	V1		70	V1	S.			D*	<+	V+						
L	HYP				284				3A											V5		65			<.					<.		14			
R		272.92	274.34		ROCK POSSIBLY A XTTF, MEDIUM GRND,LOWER CONTACT BLOCKY AND																															
R		273.00	276.00		IRREGULAR																															
/	HFL	276.00	279.00	3.00	290			HNFL											P	V2		57	V=				D*	<=	<+						
L	HYP				262				2A											V4		55			<-					<.		7			
/		279.00	282.00	3.00	298			HNFL											P	V5		55	V+				D=	<+	<=				5F		
L					267				2A											V5		10		Q1	O)					<.		2			

KEY	F-L-G	FROM--	TO--	INT	RECOV R Q D	MD AGE	% EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F &	C R	X &	M O	TFDM SML	RI 1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F	Y	Z	I
/		282.00	285.00	3.00	278			HNFL											P	V1		52	V+				<*	<*	<=			5L			
L	HYP								2A															E1	E.				<.			09			
/		285.00	288.00	3.00	288			HNFL											P	V1		65	V+	0)			<*	<*	<=			5L			
L	HYP				288				2A											V2		52		E*	E.				<.			08			
/		288.00	291.00	3.00	298			TUFF						2					P	V2		80	V=	<=			<)	<+	<=			7L			
L	HYP				274		HZ	AN	2A																<=				<.			05			
/		291.00	293.03	2.03	203			TUFF						2					P	V5		60	V2	<=			<)	<+	<+			7L			
L	HYP				206		HZ	AN	2A											V5		50			<=				<=			05			
/	DYK	293.03	294.00	0.97	97			PPAN	FL	HB				2	5	3	6		P	CN		U70		0=				<*	<)	V)		7L			
L					97				3A											V7		60										00			
/	DYK	294.00	295.02	1.02	102			PPAN	FL	HB				2	5	3	6		P	CN		L70		0=				<*	<)	V)		7L			
L					102				3A											V7		60										00			
/		295.02	297.00	1.98	103			LPTF						2	5	3	6		P	V5		65	V1	01			<*	<(	<+						
L	HYP				83		HZ	AN	2A					3	3		0												<.			09			
/		297.00	300.00	3.00	296			LPTF						2	5	3	6		P	V1		70	V+	3)			<*	<(	<+			7L	5T		
L	HYP				262		HZ	AN	2A					3	3		0			V5		25		E*					<=			10			
/	DYK	297.16	297.55	0.39			X	PPAN	FL			CM							R										<+						
L																													-			00			
/		300.00	300.79	0.79	177			LPTF						2	5	3	6		P	V1		47	V)	01			<*	<.	<=			7L			
L					63		HZ	AN	2A					3	3		0												<.			02			
/		300.79	303.00	2.21	221	00		PPAN	FL	HB		CM		3	5	2	6		P	CN		U60		8*			D*		<)	B*		7L			
L					205	00			3A																							00			
R		300.79	303.00		UPPER CONTACT INTRUSIVE,% IRREGULAR.																															
/		303.00	306.00	3.00	298	00		PPAN	FL	HB		CM		3	5	2	6		P	V7		U70		8*			D*		<)	V)		7L			
L					298	00			3A																							00			
/		306.00	309.00	3.00	287	00		PPAN	FL	HB		CM		3	5	2	6		P	CN		U60		8*			D*		<)	D(		7L			
L					243	00			3A															E(								00			
/		309.00	312.00	3.00	293	00		PPAN	FL	HB		CM		3	5	2	6		P	V7		U80		8*			D*		<)	6)		7L			
L					235	00			3A															E)	V=	V.		<(				00			
R		309.00	312.00		PHYLLIL ENVELOPES OVERPRINTING 7 ALT.																															
/		312.00	312.33	0.33	033	00		PPAN	FL	HB		CM		3	5	2	6		P	CN		L65		8*			D*		<*	6(		7L			
L					233	00			3A																							00			
/		312.33	315.00	2.67	244			TUFF											P	V7		67	V+	S*			D*		<=			7L	5T		
L	HYP				178		HZ	AN												V5		42		E(		0=				<*		12			
/		312.66	312.95	0.29			X	PPAN	FL	HB									R																
L																																			

KEY	F-G	FROM-m	TO-m	INT-m	RECOV / ROD	MD % AGE	EV	ROCK RQ	LC	TM	TM QM1 QM2	TX	TX	F S	C R	% S	M O	TFDM SML	RI 1 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	FIZI
/		315.00	318.00	3.00	292			TUFF											P	V5		70	V+	S*			D*		<=	B(		??	ST
L					243	HZ		AN												V5		30		00		00				<-			13
/		318.00	321.00	3.00	298			TUFF						2					P	V5		42	<=	S*			<*	<(	<+			?	
L	HYP				298	HZ		AN	2A																					<-			15
/		321.00	324.00	3.00	293			TUFF						2					P	V1		55	<+	S*			V*	<(	<=			?	
L	HYP				266	HZ		AN	2A																					<.			06
/	DYK	321.85	323.23	1.38			X	PPAN	HB	FL									R	CN		L10		O+					7+	7+			
L									3A											V7		65											
/	HFL	324.00	327.00	3.00	295			TUFF						2					P	V2		55	V=	A)			<*	00	<)	V(		?	
L					295	HZ		AN	2A											V1		80								<=			07
R		324.00	327.00		CP OCCURS WITH PY IN QZ V.																													
/		327.00	330.00	3.00	292			TUFF						2					P	V1		50	<+	<.			<*	00	<=			?	
L					272	HZ		AN	2A											V5		20				O.				<.			07
/		330.00	333.00	3.00	293			TUFF						2					P	V1		60	V+	S*			<)	00	.+			?L	
L					286	HZ		AN	2A																					V(			10
/		333.00	336.00	3.00	289			TUFF						2					P	V1		75	V+	O=			<)	<*	<=			?	
L					230	HZ		AN	2A																					V-			09
/	HFL	336.00	339.00	3.00	299			TUFF						2					P	V5		80	V=	Q1			<*	<*	<1			?F	
L					294	HZ		AN	2A											V5		75			G.		G.			V-			09
/	HFL	339.00	342.00	3.00	299			TUFF						2					P	V5		50	V=	Q1			<*	<*	<1	B.		?F	
L					299	HZ		AN	2A											V5		75			00		00			V-			13
/	HFL	342.00	345.00	3.00	293			TUFF						2					P	V2		45	V+	Q1			<*	<*	<+			?F	
L					293	HZ		AN	2A											V1		67			00		00			B.			09
/	HFL	345.00	346.05	1.05	104			TUFF						2					P	V5		75	V1	Q1			<*	00	<+			?F	
L					101	HZ		AN	2A											V1		50			G.		G.			<.			02
/	DYK	346.05	348.00	1.95	191			PPAN	FL	HB		CM		3 5 1 6					P	V7		90		O)				<.	<*	B)			?F	
L					156				3A					0						CN		U45											00
/	DYK	348.00	351.00	3.00	298			PPAN	FL	HB		CM		3 5 5 6					P	V7		80		O)				<.	<*	B)			?F	
L					244				3A					0						V1		U53				O.							00
/	DYK	351.00	354.00	3.00	290			PPAN	FL	HB		CM		3 5 1 6					P	V1		37		O)				00	<.	00			?F	
L					281				3A					0						CN		U45											00
/	DYK	354.00	357.00	3.00	297			PPAN	FL	HB		CM		3 5 1 6					P	V1		52		O)				<.	<.	B)			?F	
L					272				3A					0						CN		U45											00
/	DYK	357.00	360.00	3.00	297			PPAN	FL	HB				3 5 5 6					P	V1		72		O2					<.				7F	
L					297				3A					0													O*						00

KEY	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV ---.-- R U D	MD % AGE	ROCK EV	TM RO	TM LC	TM QM1 QM2	TX TX	F S	C R	% S	M O	TFDM SML	RI	I 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I - - - -
/	DYF	360.00	363.00	3.00	292		PPAN	FL	HB			3	5	5	6		P		V1		72		02				<.	<.			7F
L					249			2A							0									0*							00
/	DYK	363.00	366.00	3.00	295		PPAN	FL	HB			3	5	5	6		P		V1		65		02				<*				7F
L					295			3A							0				V1		75			0*							00
/	DYK	366.00	367.57	1.57	156		PPAN	FL	HB			3	5	5	6		P		V1		72		02				<.				7F
L					129			3A							0									0*							00
R		346.05	367.57		HB PHENOS REPLACED BY BI,LOCAL WEAK PHYLLIC E WITH PY <.																											
R		367.57	367.57		END OF DDH 018																											

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	14.94	18.00	1001	.051	.053			.083
A 012	18.00	21.00	1002	.051	.050			.081
A 012	21.00	24.00	1003	.092	.077			.138
A 012	24.00	27.00	1004	.043	.063			.081
A 012	27.00	30.00	1005	.048	.013			.056
A 012	30.00	33.00	1006	.048	.015			.057
A 012	33.00	36.00	1007	.072	.025			.087
A 012	36.00	39.00	1008	.096	.022			.109
A 012	39.00	42.00	1009	.049	.027			.065
A 012	42.00	45.00	1010	.072	.032			.091
A 012	45.00	48.00	1011	.068	.030			.086
A 012	48.00	51.00	1012	.078	.045			.105
A 012	51.00	54.00	1013	.062	.050			.092
A 012	54.00	57.00	1014	.062	.085			.113
A 012	57.00	60.00	1015	.088	.043			.114
A 012	60.00	63.00	1016	.107	.027			.123
A 012	63.00	66.00	1017	.094	.023			.108
A 012	66.00	69.00	1018	.069	.062			.106
A 012	69.00	72.00	1019	.081	.027			.097
A 012	72.00	75.00	1020	.057	.028			.074
A 012	75.00	78.00	1021	.069	.028			.086
A 012	78.00	81.00	1022	.052	.020			.064
A 012	81.00	84.00	1023	.059	.038			.082
A 012	84.00	87.00	1024	.074	.032			.093
A 012	87.00	90.00	1025	.084	.020			.096
A 012	90.00	93.00	1026	.058	.042			.083
A 012	93.00	96.00	1027	.069	.010			.075
A 012	96.00	99.00	1028	.049	.023			.063
A 012	99.00	102.00	1029	.040	.027			.056
A 012	102.00	105.00	1030	.045	.022			.058
A 012	105.00	108.00	1031	.048	.023			.062
A 012	108.00	111.00	1032	.034	.048			.063
A 012	111.00	114.00	1033	.027	.013			.035
A 012	114.00	117.00	1034	.028	.017			.038
A 012	117.00	120.00	1035	.057	.007			.061
A 012	120.00	123.00	1036	.040	.002			.041
A 012	123.00	126.00	1037	.071	.002			.072
A 012	126.00	129.00	1038	.039	.002			.040
A 012	129.00	132.00	1039	.202	.013			.210
A 012	132.00	135.00	1040	.042	.010			.048
A 012	135.00	138.00	1041	.035	.023			.049
A 012	138.00	141.00	1042	.027	.040			.051
A 012	141.00	144.00	1043	.019	.020			.031
A 012	144.00	147.00	1044	.020	.050			.050
A 012	147.00	150.00	1045	.035	.003			.037
A 012	150.00	153.00	1046	.056	.003			.058
A 012	153.00	156.00	1047	.150	.002			.151
A 012	156.00	159.00	1048	.048	.002			.049
A 012	159.00	162.00	1049	.157	.002			.158
A 012	162.00	165.00	1050	.164	.003			.168

A UMM A LAB A MTH A TYP				%CU MIN-EN EQUIV H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TAL
A 012	165.00	168.00	1051	.110	.030			.128
A 012	168.00	171.00	1052	.037	.030			.055
A 012	171.00	174.00	1053	.036	.033			.056
A 012	174.00	177.00	1054	.027	.013			.035
A 012	177.00	180.00	1055	.025	.027			.041
A 012	180.00	183.00	1056	.044	.030			.062
A 012	183.00	186.00	1057	.028	.020			.040
A 012	186.00	189.00	1058	.023	.037			.045
A 012	189.00	192.00	1059	.026	.022			.039
A 012	192.00	195.00	1060	.027	.027			.043
A 012	195.00	198.00	1061	.019	.025			.034
A 012	198.00	201.00	1062	.033	.032			.052
A 012	201.00	204.00	1063	.026	.020			.038
A 012	204.00	207.00	1064	.019	.018			.030
A 012	207.00	210.00	1065	.026	.070			.068
A 012	210.00	213.00	1066	.028	.047			.056
A 012	213.00	216.00	1067	.052	.053			.084
A 012	216.00	219.00	1068	.019	.030			.037
A 012	219.00	222.00	1069	.040	.048			.069
A 012	222.00	225.00	1070	.038	.043			.064
A 012	225.00	228.00	1071	.034	.020			.046
A 012	228.00	231.00	1072	.030	.012			.037
A 012	231.00	234.00	1073	.066	.045			.093
A 012	234.00	237.00	1074	.044	.033			.064
A 012	237.00	240.00	1075	.054	.017			.064
A 012	240.00	243.00	1076	.056	.022			.069
A 012	243.00	246.00	1077	.029	.013			.037
A 012	246.00	249.00	1078	.076	.017			.086
A 012	249.00	252.00	1079	.087	.010			.093
A 012	252.00	255.00	1080	.066	.003			.068
A 012	255.00	258.00	1081	.041	.017			.051
A 012	258.00	261.00	1082	.038	.010			.044
A 012	261.00	264.00	1083	.045	.012			.052
A 012	264.00	267.00	1084	.140	.002			.141
A 012	267.00	270.00	1085	.182	.002			.183
A 012	270.00	273.00	1086	.210	.007			.214
A 012	273.00	276.00	1087	.017	.015			.026
A 012	276.00	279.00	1088	.031	.013			.039
A 012	279.00	282.00	1089	.018	.013			.026
A 012	282.00	285.00	1090	.020	.015			.029
A 012	285.00	288.00	1091	.032	.003			.034
A 012	288.00	291.00	1092	.037	.020			.049
A 012	291.00	294.00	1093	.072	.027			.088
A 012	294.00	297.00	1094	.023	.022			.036
A 012	297.00	300.00	1095	.027	.010			.033
A 012	300.00	303.00	1096	.061	.013			.069
A 012	303.00	306.00	1097	.443	.002			.444
A 012	306.00	309.00	1098	.232	.002			.233
A 012	309.00	312.00	1099	.130	.003			.132
A 012	312.00	315.00	1100	.074	.022			.087
A 012	315.00	318.00	1101	.033	.025			.048

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	318.00	321.00	1102	.029	.012			.036
A 012	321.00	324.00	1103	.378	.007			.382
A 012	324.00	327.00	1104	.057	.010			.063
A 012	327.00	330.00	1105	.031	.040			.055
A 012	330.00	333.00	1106	.049	.067			.116
A 012	333.00	336.00	1107	.040	.032			.072
A 012	336.00	339.00	1108	.114	.040			.154
A 012	339.00	342.00	1109	.147	.017			.164
A 012	342.00	345.00	1110	.073	.007			.080
A 012	345.00	348.00	1111	.258	.007			.265
A 012	348.00	351.00	1112	.080	.002			.082
A 012	351.00	354.00	1113	.050	.002			.052
A 012	354.00	357.00	1114	.079	.002			.081
A 012	357.00	360.00	1115	.094	.002			.096
A 012	360.00	363.00	1116	.316	.002			.318
A	363.00	366.00	1117	.086	.002			.088
A	366.00	367.57	1119	.070	.002			.072

				PB AU	PM AG	PM W	PM SN	PM PB	PM ZN	HASH	TOTAL
A UMM				MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN		
A LAB				AQR-AA	PCL-AA	COLOR	COLOR	PCL-AA	PCL-AA		
A MTH				COMPOS	COMPOS	COMPOS	COMPOS	COMPOS	COMPOS		
A TYP											
A 013	14.94	24.00		5	1.0	2	-2	26	64		
R ASY	14.94	24.00	DETECTION LIMIT IS PRECEDED BY A MINUS SIGN								
A 013	24.00	33.00		10	.8	2	3	20	126		
A 013	33.00	42.00		5	.6	-2	2	13	61		
A 013	42.00	51.00		-5	.7	2	2	29	66		
A 013	51.00	60.00		10	.5	-2	2	18	65		
A 013	60.00	69.00		5	.9	2	-2	40	89		
A 013	69.00	78.00		-5	.8	2	2	14	43		
A 013	78.00	87.00		5	1.1	12	-2	12	41		
A 013	87.00	96.00		10	1.2	9	-2	9	20		
A 013	96.00	105.00		5	1.3	13	-2	9	34		
A 013	105.00	114.00		-5	1.2	6	2	11	40		
A 013	114.00	123.00		5	1.3	8	-2	12	37		
A 013	123.00	132.00		10	1.6	15	-2	8	37		
A 013	132.00	141.00		5	1.2	12	3	7	28		
A 013	141.00	150.00		-5	1.1	25	-2	7	23		
A 013	150.00	159.00		10	1.5	11	2	8	22		
A 013	159.00	168.00		30	1.9	35	-2	8	23		
A 013	168.00	177.00		-5	1.2	16	-2	8	19		
A 013	177.00	186.00		10	1.3	10	3	7	19		
A 013	186.00	195.00		5	0.8	5	3	5	19		
A 013	195.00	204.00		35	1.0	9	2	6	20		
A 013	204.00	213.00		15	1.2	7	-2	8	23		
A 013	213.00	222.00		10	1.2	6	2	9	15		
A 013	222.00	225.00		5	1.5	6	2	12	33		
A 013	225.00	234.00		-5	1.2	13	3	21	104		
A 013	234.00	243.00		5	1.3	9	2	18	60		
A 013	243.00	252.00		15	1.5	12	2	20	70		
A 013	252.00	261.00		10	1.2	16	3	22	48		
A 013	261.00	270.00		20	2.2	11	-2	20	49		
A 013	270.00	279.00		-5	1.5	8	2	16	54		
A 013	279.00	288.00		5	1.4	17	2	16	48		
A 013	288.00	297.00		-5	1.2	6	-2	24	46		
A 013	297.00	306.00		5	1.7	8	-2	19	47		
A 013	306.00	315.00		10	2.0	6	-2	15	52		
A 013	315.00	324.00		20	1.4	12	-2	18	48		
A 013	324.00	330.00		5	1.2	30	-2	26	45		
A 013	330.00	339.00		5	1.9	28	2	41	43		
A 013	339.00	348.00		105	2.1	23	2	32	50		
A 013	348.00	357.00		10	1.3	4	-2	33	38		
A 013	357.00	366.00		20	1.5	6	-2	27	37		
A 013	366.00	367.57		10	1.5	3	-2	21	36		
R ASY	366.00	367.57	END OF 018								

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
WHITING CK PORPHYRY MO-CU DEPOSIT BC

FORMAT VERSION : 6802

DRILLHOLE/TRAVERSE : WCDH019	COLLAR ELEVATION: 1420.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : RMC + DTC
TOTAL DEPTH/LENGTH : 266.70	NORTHING(- IF S): 2907.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800828
CORE/HOLE DIAMETER : NQ	EASTING (- IF W): 1447.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4942

KEY	FLAG	- INTERVAL - (UNITS = . DEC.PLACE) (MT=METRIC FT=FOOTRIC) FROM	TO	INT	CORE RECOVERY (.)	T- % M M ROCK O I D X TYPE	TYPIFYING MINERALS TM 1	TM 2	GAL MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	%	M	TOTAL FRAC DEN	/RI	PGI T 1	STRUCTUR-1 ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H A GY	ORE-TYPE MINS H A PY	H A CP	H A GL	ANY MIN A MIN YY	SUMMARY ALT F	ORE I	Z	I
K E Y	F L G				ROCK QUAL DESIG	FM AGE	RT EN- VIR	TM QM2 LC- COL		TX 3	TX 4	S O R	R N D	H P C	/	M L		T 2	ID STRUCTUR-2	STK AZM	DIP RT	KF H A	MU H A	CL H A	EP H A	HE H A	XX H A	PR H A	MO H A	SL H A		1 2		1 2
/ L	OVB	0.00	12.19	12.19			OVER											P																
/ L	CAP	12.19	15.00	2.81	280 79		ANDS		BW		5							P	V1 V1	40 80	<) E*	O?	P/ V*				<+			LI C*	5L 04			
R		12.19	15.00		ROCK APPEARS TO BE ALMOST EQUIGRANOLAR IN TEXTURE,HOWEVER,THIS																															
R		12.19	15.00		MAY BE LARGELY DUE TO ALTERATION OF AN ANDESITIC VOLC.																															
/ L	CAP	15.00	18.00	3.00	280 147		ANDS		BW		5							P	V1 V1	60 80	00	O? E*	P/ O*				<+			LI C*	5L 00			
R		15.00	18.00		CC LOCALLY COATS PY,WEAK BXWORK IN SOME PY V.																															
/ L	CAP	18.00	21.00	3.00	260 84		ANDS		BW		5							P	V2 V4	45 30	V*	O? E*	P/ V*		<(		<+			LI C*	5T 03			
/ L	CAP	21.00	24.00	3.00	256 39		ANDS		BW		5							P	V6 V1	35 75	V+	O? E*	P/ O+		<(		<+			LI C*	5T 03			
/ L	CAP	24.00	27.00	3.00	256 48		ANDS		BW		5							P	V1 V1	67 80	00	O? E*	P/ O*		O(		<+			LI C)	5L 00			
R		21.90	26.06		SUB-PARALLEL,CLOSELY SPACED,SUB-HORIZONTAL FRACTURES VERY COMMON																															
/ L	CAP	27.00	30.00	3.00	270 68		PPFL AN	3A			2 5 5 5 0							P	V1	65		E=	P? Q)				<=			LI C=	5L 1? 00			
/ L	CAP	30.00	33.00	3.00	242 38		PPFL AN	3A			2 5 5 6 0							P	V1	65	<(	E=	P? Q*		D.		<=			LI C=	5L 1? 01			
/ L	CAP	33.00	36.00	3.00	288 84		PPFL AN	3A			2 5 5 5 0							P	V1 VA	70 45	V*	E=	P? O(		D.	<.	<=			LI C=	5L 1? 02			
/ L	CAP	36.00	39.00	3.00	267 61		PPFL AN	3A			2 5 5 5 0							P	V1 SF	52 35	<.	E=	P? O(		D(	<.	<=			LI C=	5L 1? 01			

K E Y	F -L- G	F R O M	- T O -	I N T	RECOV R Q D	MD % AGE	ROCK EV RQ	TM TM LC	TM TM QM1 QM2	TX TX TX	F S	C R	X S	M O	TFDM SML	RI	I 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/		39.00	42.00	3.00	242		PPFL				2	5	5	5		P		V1		50			P?			<*	<=		LI	5L 1?
L	CAP				24		AN	3A						0								E=		Q*						C=	00
R		41.50	47.00		SUB-HORIZONTAL CLOSELY SPACED FRACTURES COMMON																											
/		42.00	45.00	3.00	211		PPFL				2	5	5	5		P		V1		53	V(		P?			<+			LI	5L 1?
L	CAP				00		AN	3A						0								E=		Q(				V.		C+	02
/		45.00	48.00	3.00	250		PPFL				2	5	5	5		P		V1		50			P?		D.		<+			LI	5L 1?
L	CAP				00		AN	3A						0								E=		Q(						C=	00
R		47.20	79.86		CORE BADLY BROKEN																											
/	SSX	48.00	51.00	3.00	247		PPFL				2	5	5	5		P		V1		72	<+						<=			C	5L 1T
L					00		AN	3A						0								E=	P?	O(						C.	10
/		51.00	54.00	3.00	157		PPFL				2	5	5	5		P		V1		90	<+				D(		<+			C	5L 1L
L	SSX				00		AN	3A						0								E=	P?	O+						C.	18
/		54.00	57.00	3.00	175		PPFL				2	5	5	5		P		V1		62	<+					G(	<=	<.		00	5L 1T
L	HYP				00		AN	3A						0								E=	P?	00						00	17
/		57.00	60.00	3.00	117		PPFL				2	5	5	5		P		V1		55	<+				D.	<.	<1			00	5L 1T
L	HYP				00		AN	3A						0								E=	P?	O=				<.		00	19
/		60.00	63.00	3.00	215		PPFL				2	5	5	5		P		V1		70	<+						<1	<.		C	5T 1L
L	TRN				00		AN	3A						0								E=	P?	O+						C.	19
/		63.00	66.00	3.00	237		PPFL				2	5	5	5		P		V2		60	<)				D)		<1	B.		C	5L 1T
L					14		AN	3A						0				V1		60		E=	P?	O=				S.		C.	10
/		66.00	69.00	3.00	224		PPFL				2	5	3	5		P		V1		50	<)				O.		<1	V(			5L 1L
L					00		AN							0								E+	S(	O+							07
/		69.00	72.00	3.00	211		PPFL				2	5	3	5		P		V1		70	<)				<.		<1	V.			5L 1L
L					00		AN							0				V1		27		E+	S(	00							07
/		72.00	75.00	3.00	190		PPFL				2	5	3	5		P		V2		85	<)				O.		<1	<.			5L 1L
L					00		AN							0								E+	00	00							09
/		75.00	78.00	3.00	230		PPFL				2	5	3	5		P		V2		52	<.	S*			O.		<1	<*		C<	5L 7T
L	TRN				00		AN							0				V7		75		E*	G.	O.						C.	04
/		78.00	81.00	3.00	225		PPFL				2	5	3	5		P		V1		47	<+	S*			D(	<.	V1	<*		C(	5B 7T
L	TRN				106		AN							0				V1		52		E1	00	00						C.	09
/		81.00	84.00	3.00	300		PPFL				2	5	3	5		P		58		67	<)	S(			O(	<(	V1	<.			5B 7T
L	HYP				275		AN							0				V1		63		E1	00	O+							05
/		84.00	87.00	3.00	299		PPFL				2	5	3	5		P		V1		50	<(					00	<*	<1	00		5L 7T
L					290		AN							0								E)	00	00							02
/		87.00	90.00	3.00	291		PPFL				2	5	3	6		P		V1		30					D)	<)	<=				5L 1L
L					230		AN	3A						0								E+		O=							00

KEY	F-L-G	FROM-.--	TO-.--	INT-.--	RECOV-.-- RQD	MD % AGE	ROCK EV	TM RQ	TM LC	TM QM1	TX QM2	TX TX	F S	C R	X S	M O	TFDM SML	RI 1 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	FIZI
/		90.00	93.00	3.00	300		PPFL						2	5	3	6		P	V1		65	V*				Q*	V)	<=			SL	1L
L					300		AN	3A								0			V1		50		E1		00							02
/		93.00	96.00	3.00	294		PPFL						2	5	3	6		P	V1		52	V.				Q*	<*	<=			SL	1L
L					286		AN	3A								0			V4		20		E+		Q1							01
/		96.00	99.00	3.00	296		PPFL						2	5	3	6		P	V1		60	V+				Q(	<)	<=			SL	1L
L					285		AN	3A								0			V1		70		E+		Q*							04
/		99.00	102.00	3.00	297		PPFL						2	5	3	6		P	88		65					Q)	<)	<=			SL	1L
L					275		AN	3A								0							E+		00							00
/		102.00	105.00	3.00	289		PPFL						2	5	3	6		P	V1		50					Q*	<*	<=			SL	1L
L					238		AN	3A								0			V4		60		E=		00							00
/		105.00	108.00	3.00	293		PPFL						2	4	2	5		P	V1		60	V)					<+	<=			SL	
L					225		AN	3A								0			V4		70		E1									01
/		108.00	111.00	3.00	297		PPFL						2	4	2	5		P	V1		73	<*				Q*	<+	<=			SL	
L					194		AN	3A								0			V4		65		E1		Q*							00
/		111.00	114.00	3.00	284		PPFL						2	4	2	5		P	V1		60	<*				Q.	<+	<+			SL	
L					218		AN	3A								0			00		70		E1		Q(							00
/		114.00	117.00	3.00	278		PPFL						2	4	3	6		P	V4		70	V)				00	<+	>=			SL	
L					130		AN	3A								0			V4		70		E1		00							01
/		117.00	120.00	3.00	283		PPFL						2	5	4	7		P	V1		37	<(				Q*	<)	<+			SL	1T
L					219		AN	3A								0			V4		70		E=		Q1							00
/		120.00	123.00	3.00	284		PPFL						2	4	3	6		P	V4		70	<*				00	<=	<=			SL	
L					153		AN	3A								0			V4		70		E+		Q+							01
/		123.00	126.00	3.00	278		PPFL						2	4	2	5		P	V4		65	V)					<+	<=			SL	00
L					284		AN	3A								0			V4		70		E1		00							01
/		126.00	129.00	3.00	268		PPFL						2	4	3	5		P	V4		45	<*		P?			V=	<+			SL	
L					159		AN	3A								0							E)									02
/		129.00	132.00	3.00	256		PPFL						2	4	3	5		P	V1		50	<)		P?			<+	<=			SL	1T
L					102		AN	3A								0							E)		Q)							03
/		132.00	135.00	3.00	286		PPFL						2	4	3	5		P	V2		50	V1		P?			V=	V=			SL	00
L	T				238		AN	3A								0							E)		00							11
/		135.00	138.00	3.00	265		PPFL						2	4	3	5		P	V1		58	<*		P?			V=	>1			SL	
L	TRN				175		AN	3A								0			V4		70		E)		00		<=					02
/		138.00	141.00	3.00	300		HORN						2	0	0	2		P	V1		60	<*					<+	<1			SL	
L					164											0							P.		Q*							04

KEY	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV RQD	MD % AGE	ROCK EV	TM TM RQ	QM1 QM2	TX TX LC	TX TM	F S	C R	% S	M O	TFDM SML	RI 1 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		141.00	144.00	3.00	300		HORN					2	0	0	2		P	V5		50	<+				<+	>1				5L			
L					253										0			V2		55		E+	P,	Q*				S+			09			
R		141.00	144.00		QZ-PY-MO VEIN, 15MM, WIDE WITH TRACE OF MU-E																													
/		144.00	147.00	3.00	296		HORN					2	0	0	2		P	V2		65	<=				P*	V)	<1			5F			
L					237				3A						0			V4		40		E+	P(	Q(							11			
/		147.00	150.00	3.00	292		HORN					2	0	0	2		P	V5		35	V1				P*	<)	<1			5F			
L					234				3A						0			V4		40		E+	P(	Q(	D+			<)			15			
/		150.00	153.00	3.00	277		HORN					2	0	0	2		P	V2		70	<=				P*	>)	<1			5F			
L					209				3A						0			V5		82		E+	P(	Q(				<+			07			
R		147.00	153.00		MO-PY-QZ VEIN (10MM THICK)																													
/		153.00	156.00	3.00	300		HORN					2	0	0	2		P	V2		70	<=				D)	<*	V2			5F			
L					252				3A						0			V4		40		E+	P(| Q)				00			14			
/		156.00	159.00	3.00	282		HORN					2	0	0	2		P	V4		50	<=				P*	<=	>1			5F			
L	TRN				213				4A						0			V4		40		E+	P(	Q*							08			
R		156.00	159.00		SUB-PARALLEL,SUB-HORIZONTAL FRACTURES ARE COMMON																													
/		159.00	162.00	3.00	216		PPFL					2	5	6	3		P				<+		P?			<)	<=			5L			
L	DYK				39				4A						0							E*								02			
/		162.00	165.00	3.00	267		HORN					2	0	0	2		P	V2	65		<=				D)	<*	<1			5L			
L	TRN				98				3A						0							E*								05			
/		165.00	168.00	3.00	292		HORN					2	0	0	2		P	V1		70	<+				D)	<*	<1			5L			
L					107				3A						0							E=								03			
/		168.00	171.00	3.00	178		HORN					2	0	0	2		P	V2		70	<+				D)	<*	>1			5L			
L					127				3A						0							E=	O,	Q)							15			
/		171.00	174.00	3.00	292		HORN					2	0	0	2		P	V4		90	<)				00	V=	<1			5L			
L					106				3A						0							E=	P(								01			
/		174.00	177.00	3.00	281		HORN					2	0	0	2		P	V1		75	<+		P?		D)	V+	<1			5L			
L					176				3A						0							E=									05			
/		177.00	180.00	3.00	252		HORN					2	0	0	2		P	V2		75	<=				D*	V)	<=			5L			
L					196				3A						0							E=	P*								13			
/		180.00	183.00	3.00	292		HORN					2	0	0	2		P	V1		80	<+				D)	>)	<1			5L			
L					110				3A						0							E=	00								07			
/		183.00	186.00	3.00	282		HORN			20	02						P	V6		73	<=				D)	<+	<=			5L			
L					192				3A		0							V1		67		E=		Q)							15			
/		186.00	189.00	3.00	294		HORN			20	02						P	V2		72	<+				D)	<=	<1			5L			
L					214				3A		0							V4		87		E=		00							06			

KEY	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV ---.-- R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 TM	TX QM2	TX TX	F S	C R	% S	M O	TFDM SML	RI	I 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	FIZI
/		189.00	192.00	3.00	300		HORN				20	02						P		V2		85	V+				D)	<+	>1			5L
L					190				3A			0								V1		67		E=		Q)							05
/		192.00	195.00	3.00	295		HORN				20	02						P		V4		45	>+				D*	>=	<1			5L
L					153				3A			0								V1		67		E=		Q)							04
/		195.00	198.00	3.00	291		HORN				20	02						P		V2		65	<+				D)	<+	<=			5L
L					210				3A			0								V1		67		E=		Q)							04
/		198.00	201.00	3.00	292		HORN				20	02						P		V4		78	<=				D)	>1	<=			5L
L					201				3A			0								V2		75		E=		Q)							05
/		201.00	204.00	3.00	288		HORN				20	02						P		V4		60	>=				00	<+	<=			5L
L					212				3A			0								V1		67		E+		Q=							10
/		204.00	207.00	3.00	297		HORN						2	0	0	2		P		V4		70	<+					>1	<1			5L
L	TRN				78				3A							0								E=		P*							05
R		204.00	207.00		HORN GRADES INTO PPFT AT 206.70																													
/		207.00	210.00	3.00	285		PPFL						2	4	5	6		P					<)					>=	<=			5T
L					143		AN									0								E=									03
/		210.00	213.00	3.00	260		PPFL						2	4	5	6		P		V4		65	<)					>1	<=			5T
L					114		AN									0								E=									00
/		213.00	216.00	3.00	285		PPFL						2	4	5	6		P					<)					>=	<1			5T
L					123		AN									0								E=		P*							00
R		213.00	216.00		BOXWORK PY-TRACE AMOUNT																													
/		216.00	219.00	3.00	271		PPFL						2	4	5	6		P					<)					<=	<=			5T
L					186		AN									0								E=		Q*							00
/		219.00	222.00	3.00	292		PPFL						2	4	5	6		P					V=					>1	<1			5T
L					120		AN									0		A						E=		00							05
/		222.00	225.00	3.00	258		PPFL						2	5	3	6		P		V4		75	<+				D?	>=	<=			5L
L					80		AN		3A							0				V1		62		E+		Q.							00
/		225.00	228.00	3.00	286		PPFL						2	5	1	5		P		V4		75	>1				D(	>=	<=			5L
L	DYK				120		AN		3A							0				V1		62		E+	P.	Q*							12
/		228.00	231.00	3.00	268		PPFL						2	5	3	6		P		V2		45	<+				00	>=	<+			5L
L					159		AN		3A							0				V1		62		E=	P(	Q(							05
/		231.00	234.00	3.00	282		PPFL						2	5	3	6		P		V2		62	<+				D?	<+	<=			5L
L					119		AN		3A							0				V1		62		E+	P*	Q.							05
/		234.00	237.00	3.00	280		HORN											P		V4		55	<=					<+	<+			
L					166																			E+	<(	Q*							06
/		237.00	240.00	3.00	271		HORN											P		V5		35	<=					<+	<=			
L					126																			E+	<(	Q+				<*			03

KEY	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV ---.-- R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 TM	TX QM2	TX TX	F S	C R	% S	M O	TFDM SML	RI	I 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		240.00	243.00	3.00	293		HORN											P		V4		55	<)				<+	<+							
L					252																		E)	<(	Q=					00				03	
/		243.00	246.00	3.00	285		HORN											P		V2		60	>+		,		<+	>+	?				5F	
L					167																		E=	P)	Q.					0*				05	
/		246.00	249.00	3.00	284		HORN											P		V2		60	1)		,		<+	>+	?				5L	
L					196																		E=	P)	Q*					00				00	
/		249.00	252.00	3.00	296		HORN											P		V2		60	1(		00		<+	>+	00				5F	
L					183																		E*	P*	00					0*				00	
/		252.00	255.00	3.00	265		HORN											P		V2		60	<)		,	P*	<)	<=	?				5F	
L					180																		E=	P)	Q.					0*				05	
/		255.00	258.00	3.00	272		HORN											P		V2		60	<+		,	P+	2+	<1	<)				5F	
L					171																		E=	P)	Q.					0*				04	
/		258.00	261.00	3.00	282		HORN											P		V1		65	<)		,		<+	>+	?				5F	
L					125																		E1	P)	Q.					0*				00	
R		258.00	261.00		STOCKWORK OF PY MICROVEINS WITH MU ENVELOPES																																
/		261.00	264.00	3.00	284		PPFL					2	5	3	6			P				1*				<=	<1	D)					00	
L	DYK				57																		E/	P*	Q?									00	
R		261.00	264.00		PPFL DYKE PROBABLY POST-MIN. ,CONTAINS TRACE OF DISSEMINATED PY																																
R		261.00	264.00		ORIGINAL HORNBLENDE AND BI? PHENO. LESS THAN 5 PERCENT																																
/		264.00	266.70	2.70	250		PPFL					2	5	3	7			P				00				<=	<1	D.					00	
L	DYK				15																		00	P*	Q?									00	
R		266.70	266.70		END OF HOLE AT 266.70 M.																																

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	12.19	15.00	1120	.072	.007			.079
A 012	15.00	18.00	1121	.069	.003			.072
A 012	18.00	21.00	1122	.058	.003			.061
A 012	21.00	24.00	1123	.051	.002			.053
A 012	24.00	27.00	1124	.066	.003			.069
A 012	27.00	30.00	1125	.061	.003			.064
A 012	30.00	33.00	1126	.050	.010			.060
A 012	33.00	36.00	1127	.049	.010			.059
A 012	36.00	39.00	1128	.064	.007			.071
A 012	39.00	42.00	1129	.072	.010			.082
A 012	42.00	45.00	1130	.100	.010			.110
A 012	45.00	48.00	1131	.069	.003			.072
A 012	48.00	51.00	1132	.070	.002			.072
A 012	51.00	54.00	1133	.052	.005			.057
A 012	54.00	57.00	1134	.053	.002			.055
A 012	57.00	60.00	1135	.039	.003			.042
A 012	60.00	63.00	1136	.050	.002			.052
A 012	63.00	66.00	1137	.062	.007			.069
A 012	66.00	69.00	1138	.052	.003			.055
A 012	69.00	72.00	1139	.071	.003			.074
A 012	72.00	75.00	1140	.057	.010			.067
A 012	75.00	78.00	1141	.080	.003			.083
A 012	78.00	81.00	1142	.098	.007			.105
A 012	81.00	84.00	1143	.067	.008			.075
A 012	84.00	87.00	1144					
A 012	87.00	90.00	1145	.041	.015			.056
A 012	90.00	93.00	1146	.056	.005			.061
A 012	93.00	96.00	1147	.038	.012			.050
A 012	96.00	99.00	1148	.081	.007			.088
A 012	99.00	102.00	1149	.053	.007			.060
A 012	102.00	105.00	1150	.035	.007			.042
A 012	105.00	108.00	1151	.038	.010			.048
A 012	108.00	111.00	1152	.075	.010			.085
A 012	111.00	114.00	1153	.041	.012			.053
A 012	114.00	117.00	1154	.057	.010			.067
A 012	117.00	120.00	1155	.047	.013			.060
A 012	120.00	123.00	1156	.034	.003			.037
A 012	123.00	126.00	1157	.050	.008			.058
A 012	126.00	129.00	1158	.037	.008			.045
A 012	129.00	132.00	1159	.046	.010			.056
A 012	132.00	135.00	1160	.033	.007			.040
A 012	135.00	138.00	1161	.036	.027			.063
A 012	138.00	141.00	1162	.037	.007			.044
A 012	141.00	144.00	1163	.034	.013			.047
A 012	144.00	147.00	1164	.047	.005			.052
A 012	147.00	150.00	1165	.035	.018			.053
A 012	150.00	153.00	1166	.032	.013			.045
A 012	153.00	156.00	1167	.032	.018			.050
A 012	156.00	159.00	1168	.035	.007			.042
A 012	159.00	162.00	1169	.055	.003			.058

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	162.00	165.00	1170	.070	.005			.075
A 012	165.00	168.00	1171	.040	.008			.048
A 012	168.00	171.00	1172	.041	.007			.048
A 012	171.00	174.00	1173	.024	.005			.029
A 012	174.00	177.00	1174	.026	.007			.033
A 012	177.00	180.00	1175	.037	.010			.047
A 012	180.00	183.00	1176	.049	.008			.057
A 012	183.00	186.00	1177	.084	.005			.089
A 012	186.00	189.00	1178	.046	.005			.051
A 012	189.00	192.00	1179	.034	.008			.042
A 012	192.00	195.00	1180	.037	.003			.040
A 012	195.00	198.00	1181	.085	.010			.095
A 012	198.00	201.00	1182	.050	.025			.075
A 012	201.00	204.00	1183	.053	.020			.073
A 012	204.00	207.00	1184	.016	.020			.036
A 012	207.00	210.00	1185	.070	.010			.080
A 012	210.00	213.00	1186	.044	.005			.049
A 012	213.00	216.00	1187	.050	.007			.057
A 012	216.00	219.00	1188	.039	.008			.047
A 012	219.00	222.00	1189	.057	.007			.064
A 012	222.00	225.00	1190	.021	.008			.029
A 012	225.00	228.00	1191	.023	.005			.028
A 012	228.00	231.00	1192	.055	.005			.060
A 012	231.00	234.00	1193	.021	.007			.028
A 012	234.00	237.00	1194	.033	.010			.043
A 012	237.00	240.00	1195	.036	.017			.053
A 012	240.00	243.00	1196	.037	.008			.045
A 012	243.00	246.00	1197	.006	.010			.016
A 012	246.00	249.00	1198	.010	.020			.030
A 012	249.00	252.00	1199	.044	.010			.054
A 012	252.00	255.00	1200	.013	.013			.026
A 012	255.00	258.00	1201	.020	.013			.033
A 012	258.00	261.00	1202	.010	.008			.018
A 012	261.00	264.00	1203	.044	.007			.051
A 012	264.00	266.70	1204	.053	.002			.055

				PB AU	PM AG	PM W	PM SN	PM PB	PM ZN		HASH	TOTAL
A UMM				MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN			
A LAB				AQR-AA	PCL-AA	COLOR	COLOR	PCL-AA	PCL-AA			
A MTH				COMPOS	COMPOS	COMPOS	COMPOS	COMPOS	COMPOS			
A TYP												
A 013	12.19	21.00		5	1.6	80	6	20	181			
A 013	21.00	30.00		5	1.3	85	5	18	53			
A 013	30.00	39.00		10	1.6	60	7	23	49			
A 013	39.00	48.00		10	1.8	60	4	26	51			
A 013	48.00	57.00		15	1.4	80	4	34	48			
A 013	57.00	66.00		15	1.3	70	3	31	54			
A 013	66.00	75.00		5	1.4	65	2	15	34			
A 013	75.00	84.00		10	1.7	85	5	18	43			
A 013	84.00	93.00		7	1.4	115	-1	19	38			
R ASY	84.00	93.00	DETECTION LIMIT IS PRECEDED BY A MINUS SIGN									
A 013	93.00	102.00		5	1.2	55	2	21	35			
A 013	102.00	111.00		10	1.3	105	2	24	39			
A 013	111.00	120.00		5	1.2	115	-1	22	34			
A 013	120.00	129.00		5	1.2	90	2	21	34			
A 013	129.00	138.00		5	1.2	50	2	21	31			
A 013	138.00	147.00		5	1.5	40	-1	22	35			
A 013	147.00	156.00		10	1.5	50	-1	22	34			
A 013	156.00	165.00		10	1.2	55	2	16	28			
A 013	165.00	174.00		5	1.4	135	-1	21	35			
A 013	174.00	183.00		5	1.4	130	2	22	32			
A 013	183.00	192.00		5	1.3	85	2	14	30			
A 013	192.00	201.00		5	1.3	75	2	19	33			
A 013	201.00	210.00		5	1.0	85	-1	12	25			
A 013	210.00	219.00		-5	1.1	35	-1	15	73			
A 013	219.00	228.00		8	1.7	30	2	30	66	76233	7	
A 013	228.00	237.00		8	2.0	200	3	26	95	105567	7	
A 013	237.00	246.00		10	1.9	33	1	38	95	52133	6	
A 013	246.00	255.00		6	1.4	112	2	23	51	50500	9	
A 013	255.00	264.00		5	1.4	6	-1	55	49	35433	6	
A 013	264.00	266.70		5	0.7	2	-1	12	22	62900	10	
R ASY	264.00	266.70	END OF WCDH019									

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
WHITING CK PORPHYRY MO-CU DEPOSIT BC

FORMAT VERSION : 6802

DRILLHOLE/TRAVERSE : WCDH020	COLLAR ELEVATION: 1665.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 301.36	NORTHING(- IF S): 3920.00	VERTICAL ANGLE : -90.00	DATE (YY/MM/DD): 800919
CORE/HOLE DIAMETER : NQ	EASTING (- IF W): 2840.00	CO-ORD SYSTEM : MAP	PROJECT NUMBER : 4942

K	F L A G	- INTERVAL - (UNITS = . DEC.PLACE) (MT=METRIC FT=FOOTRIC) FROM - TO - INT (.)	CORE RECOVERY	T= M O D	% M I X	ROCK TYPE	TYPIFYING MINERALS TM 1	TM 2	GAL MIN MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	%	TOTAL FRAC M	DEN	PGI /RI MI	STRUCTUR=1 T	ID	STK AZM	DIP RT	ALTERATION MINS H QZ	H BI	H CY	H CB	H MG	ANY MIN	ORE-TYPE MINS H GY	H PY	H CP	H GL	ANY MIN	SUMMARY ALT	ORE
K	F		ROCK	FM			TM	QM2	TX	TX	S	R	S	O	S			T	ID	STK	DIP	KF	MU	CL	EP	HE	XX	PR	MO	SL			
F	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	1		1
Y	G		DESIG		VIR		COL					R	D	P	C	L		STRUCTUR=2				A	A	A	A	A	A	A	A	A	2		2
/		0.00 7.62 7.62				OVER											P																
L	OVB																																
/		7.62 10.00 2.38	111			TUFF					2						P					<*		P1	P+		<)	1+			5L		
L			000		HZ		5A							0									E)									00		
R		7.62 10.00 FINE-GRAINED MASSIVED TUFF IS INTENSELY BLEACHED																															
/		10.00 13.00 3.00	219			TUFF					2						P					>+		P1	P+		<+	1+	D(		5L		
L			000		HZ		5A							0									E+							<(		03		
/		13.00 16.00 3.00	160			TUFF					2						P					1)		P=	P+		<)	<)	00		5L		
L			000		HZ		5A							0									P=	P(| Q)					00		00		
/		16.00 19.00 3.00	198			TFXL					2	4	2	5			P	V6		75		<*		P+	<+		<)	1+	D*		5F		
L			000		HZ		5A							0									E)									05		
R		16.00 19.00 POOR CORE RECOVERY, MOSTLY PEBBLE-SIZED FRAGMENTS																															
/		19.00 22.00 3.00	282			TFXL					2						P	V5		15		V=		P1	P+		<)	<+	D*		5L		
L			031		HZ		5A							0				V2		67			E)	P*	Q/					S)		20		
R		19.00 22.00 QZ VEINS AND MICROVEINS USUALLY WITH MO SELVAGES.																															
R		19.00 22.00 QZ-PY-CL VEINS CONTAIN DISSEMINTED CP, WITH SERICITE ENVELOPES																															
R		19.00 22.00 CUT QZ-MO MICROVEINS.																															
/		22.00 25.00 3.00	266			TFXL					2						P					<*		P1	P+	?	<)	<=	D)		5L		
L			000		HZ		5A							0									E)		Q(					<)		21		
/		25.00 28.00 3.00	290			TFXL					2	4	1	5			P	V5		70	51			P+	>=	D(	<*	<=	D)		5F		
L			35		HZ		6A							0									E=	P)						S+		27		
R		25.00 28.00 QZ VEINS WITH DISSEMINATED CP, MO SELVAGES, AND SERICITE,CHLORI-																															
R		25.00 28.00 TE ENVELOPES.																															
/		28.00 31.00 3.00	231			TUFF					2	4	1	5			P	V5		60	51			P+	>=	D(	<*	<=	D)		5F	1L	
L			41		HZ		6A							0									F=	P)	Q*					S)		22		

KEY	F -L- G	FROM -	TO -	INT	RECOV RQD	MD AGE	X EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFOM SML	RI 2	I ID	AZM	DIP	OZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/		31.00	34.00	3.00	227			TFXL						2	4	1	5		P	V5		40	51		P+	<)	D(	<)	<+	D)			5F 00
L					29	HZ			6A								0			V2		55		E=	P)	00				S+			33
/		34.00	37.00	3.00	248			TUFF						2	4	1	5		P	V5		70	52		P)	>=	D(	<=	<)	D*			5F
L	F/				42	HZ			6A								0							E=	P)					S)			22
R		34.00	37.00		TUFF IS INTENSELY FRACTURED AND FLOODED BY QZ, GY MICROVEINS.																														
R		34.00	37.00		PY MICROVEINS ARE PARTLY DESTROYED																														
/		37.00	40.00	3.00	273			TFXL						2	5	2	5		P	V5		70	51		P+	<+	D(	<*	<=	O)			5F 1L
L	TRN				49	HZ			6A								0							E=	P)	Q(				S+			17
/		40.00	43.00	3.00	244			TFXL						2	4	1	5		P	V5		70	51		P+	>=	D(	<*	<=	D)			5F
L					89	HZ			6A								0			V2		75		E=	P+					S+			20
/		43.00	46.00	3.00	267			TFXL						2	4	1	5		P	V1		60	5=		?	P*	>)	<*	<+	D(			5L 1T
L					64				6A								0			V5		80		E+	P*	Q(				S*			19
R		43.00	46.00		ONE MAGNETITE-QZ VEIN WITH EPIDOTE PATCHES AND DISSEMINATED CHA=																														
R		43.00	46.00		LCORYRITE.																														
/		46.00	49.00	3.00	261			TFXL						2	4	1	5		P	V1		60	5=		?	P*	00	<*	<+	D-			5L 1T
L					54				6A								0			V5		80		E+	P*	Q(				S(			15
/		49.00	52.00	3.00	248			TFXL						2	4	1	5		P	V5		70	5+		/	P*	D*	<*	<+	D*			7F 1T
L					113				6A								0			V5		80	3+	E+	P*	00				S)			23
R		49.00	52.00		INTENSE ALTERATION, K-FELDSPAR AND PLAG.-FELDSPAR DESTROYING																														
R		49.00	52.00		MOST OF THE ORIGINAL STRUCTURES, POTASSIC ALTER.																														
/		52.00	55.00	3.00	259			TFXL						2	4	1	5		P	V1		60	5=		?	P*	>)	<*	<=	D(			7F 1T
L					116				6A								0			V5		80		E+	P*	Q(				S*			17
/		55.00	58.00	3.00	282			TFXL						2	4	1	5		P	V1		60	5=		?	P*	<*	<*	<+	D(			5L 1T
L					123				6A								0			V5		80	D*	E+	P*	Q*				S*			25
/		58.00	61.00	3.00	271			TFXL						2	4	1	5		P	V4		60	5)		?	<*	>)	<*	<+	D(			5L 1T
L					141				6A								0			V5		80	00	E*	P*	Q(				S*			12
/		61.00	64.00	3.00	267			TFXL						2	4	1	5		P	V1		65	5=		?	P*	>)	<*	<+	D/			5L 1L
L					74				6A								0			V5		55	P(	E+	P*	Q*				S(			19
/		64.00	67.00	3.00	254			TFXL						2	4	1	5		P	V1		48	4)		?	P*	D.	<*	>+				AL 1L
L					118				6A								0						1+	E*	P)	Q)				S(			13
R		64.00	67.00		K-FELDSPAR AND PLAG. PATCHES IN HIGH ALTER. ONE FROM 66.6 TO																														
R		64.00	67.00		67 M.																												
/		67.00	70.00	3.00	300			TFXL						2	4	1	5		P	V1		73	4)		?	<*	>(	<(	>+				AL 1L
L					198				6A								0						1)	E*	P)	Q)				S(			14
R		67.00	70.00		TRANSITION ZONE BETWEEN POTASSIC ALTER. ABOVE AND CHLORIC-POTAS=																														
R		67.00	70.00		SIC ALTER. BELOW. 5MM. WIDE QZ-MG VEIN WITH MC ENVELOPE AND																														
R		67.00	70.00		CL-EP QUILTS.																														
/		70.00	73.00	3.00	207			TFXL						2	4	1	5		P	V5		60	4)		?	<)	00	<)	<+				AL 1L
L	FRC				135				6A								0						1+	E*	P)	Q)				S)			18

KEY	F G	FROM -L-	TO -	INT	RECOV RQD	MD AGE	% EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	X S	M O	TFDM SML	RI	I 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
R		70.00	73.00		INTENSE FRACTURING (25 FRACTURES PER 10 CM.), FILLED BY GY,CB																																
R		70.00	73.00		MICROVEINS.																																
/		73.00	76.00	3.00	249			TUFF						2	4	1	5		P		V2	60	4)		?	P*	D*	<*	>+				8L	00
L	FRC				159				6A								0						1+	E*	P)	00				S(				23	
/		76.00	79.00	3.00	271			TUFF						2	4	1	5		P		V5	55	4)		?	P*	00	<*	>+		0.		8L	1L	
L	FRC				101				6A								0						<+	E)	P+	Q)				S)				17	
/		79.00	82.00	3.00	268			TUFF						2	4	1	5		P		V5	60	4)		?	P*	D.	<*	>+				8L	1L	
L					119				6A								0						<)	E*	P)	Q+				S(				16	
/		82.00	85.00	3.00	243			TFXL						2	4	2	6		P		V5	75	4+			P*	/	<)	<+	D*			8L	1F	
L					119		HZ		6A												V2	55	1(	E*	P)	Q)				S)				13	
/		85.00	88.00	3.00	283			TFXL						2	4	2	6		P		V2	70	4+			P*	<-	<)	<+	D)			8L	1F	
L					182		HZ		6A												V2	55	1(	E*	P)	Q)				S)				12	
/		88.00	91.00	3.00	263			TFXL						2	4	2	6		P		V5	75	<)		P-	P*	00	<)	<+	D*			8L	1F	
L					177		HZ		6A												V2	55	1(	E)	P*	Q)				S*				17	
/		91.00	94.00	3.00	294			TFXL						2	4	2	6		P		V5	65	4+			P*	D(	<)	<+	D(			8L	1F	
L	FRC				154		HZ		6A												V2	55	1(	E*	P)	Q)				S)				13	
/		94.00	97.00	3.00	259			TFXL						2	4	2	6		P		V5	63	4+			P*	00	<*	<+	00			8L	1F	
L					101		HZ		6A												V2	55	1(	E+	P)	Q)				S*				17	
/		97.00	100.00	3.00	262			TFXL						2	4	2	5		P		V5	75	4+			P*	<(	<)	<)	D(			8L	1F	
L					168		HZ		6A												V2	55	00	E)	P)	Q)				S)				16	
/		100.00	103.00	3.00	263			TFXL						2	4	2	6		P		V5	75	2)			P*	<-	<)	<+	00			8L	1F	
L					135		HZ		6A												V2	55	1(	E*	P*	Q*				S*				17	
/		103.00	106.00	3.00	236			TFXL						2	4	2	5		P		V5	70	>)		/	P*		>)	>+	D-			8T	1T	
L					14		HZ		6A								0				V4	75	1*	E*	P(	Q+				S(				4	
/		106.00	109.00	3.00	247			TUFF						2	4	2	5		P		V5	70	>)		/	P(	D*	>+	>)	00			8T	1T	
L					72		HZ		6A								0				V4	75	1*	E*	P(	Q+				S.				2	
/		109.00	112.00	3.00	291			TFXL						2	3	2	4		P		V5	55	>)		/	P*	D(	>)	<+	D*			8T	1T	
L					80		HZ		6A								0				V2	60	1*	E*	P(	Q-				S)				7	
/		112.00	115.00	3.00	208			TFXL						2	4	2	5		P		V5	70	>+		/	P*	<*	<)	>+	D-			8T	1T	
L					70		HZ		6A								0				V4	75	1)	E*	P(	Q+				S(				10	
/		115.00	118.00	3.00	219			TFXL						2	4	2	5		P		V5	57	>)		/	P>	D*	>)	<)	D-			8T	1T	
L					94		HZ		6A								0				V4	75	1*	E)	P)	Q+				S*				7	
/		118.00	121.00	3.00	300			TUFF						2	4	2	5		P		V5	75	V+		/	P*	00	<+	<(	00			8T	1T	
L					272		HZ		6A								0				V4	75	1*	E+	P(	Q+				S-				11	
/		121.00	124.00	3.00	273			TFXL						2	4	2	6		P		V1	55	V=		?	P(		<+	<+				8L	1F	
L					203		HZ		6A								0						1)	F+	P)	/				S(				9	

K E Y	F -L- G	FROM -	TO -	INT	RECOV RQD	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 QM2	TX TM	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	1 ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		124.00	127.00	3.00	276		TFXL						2	4	2	6	P		V1		55	V=		?	00	D)	<+	<+				8L		1F
L					176	HZ		6A								0						P+	E+	P)	/				S-				5	
R		124.00	127.00		20 CM. SECTION OF PERVASIVE FELDSPAR ALTER., LITTLE ORIGINAL TE-																															
R		124.00	127.00		XTURE LEFT.																															
/		127.00	130.00	3.00	273		TFXL						2	4	2	6	P		V2		55	V+		?	P(	/	<+	U=				8L		1F
L					118	HZ		6A								0						1)	E=	P)	Q)				S(				10	
R		127.00	130.00		BOXWORK OF PYRITE WITH QZ VEIN																															
/		130.00	133.00	3.00	277		TFXL						2	4	2	6	P		V2		60	>)		?	P(	D(	<+	V+				8L		1L
L					188	HZ		6A								0						1)	E+	P*	/				S.				4	
/		133.00	136.00	3.00	300		TFXL						2	4	2	6	P		V2		60	V=		?	<+		<+	V=				8L		1F
L					157	HZ		6A								0						1)	E+	P)	/				S(				8	
/		136.00	139.00	3.00	270		TFXL						2	4	2	6	P		V1		55	V=		?	P(	D*	<+	<+				8L		00
L					190	HZ		6A								0						1)	E+	P)	00				S(				5	
/		139.00	142.00	3.00	291		TFXL						2	4	2	6	P		V5		75	V=		?	P(	D)	<+	<+				8L		1F
L					147	HZ		6A								0						1)	E+	P)	Q(				S*				12	
/		142.00	145.00	3.00	284		TFXL						2	4	1	5	P		V2		67	V+			P(	D.	<+	V=				8L		1T
L					201	HZ		6A								0						P*	E)	P-	Q*				S-				9	
/		145.00	148.00	3.00	276		TFXL						2	4	2	6	P		V1		70	V+			P(	00	<+	V=				8L		1T
L					128	HZ		6A								0						P*	E)	P-	Q)				S-				6	
/		148.00	151.00	3.00	283		TFXL						2	4	1	5	P		V5		60	V+			P(	D)	<+	V=				8F		1T
L					194	HZ		6A								0						P+	E)	P-	Q*				S(				8	
R		148.00	151.00		10 CM. THICK QZ-PY VEIN WITH MO SELVAGES																															
/		151.00	154.00	3.00	265		TFXL						2	4	3	5	P		V2		67	V=			V)	00	<+	>+				8L		1T
L					181	HZ		6A								0						P*	E)	P-	Q*				S-				5	
/		154.00	157.00	3.00	287		TFXL						2	4	1	5	P		V2		67	>+			P*	D.	<+	V=	D-			8L		1T
L					227	HZ		6A								0						P*	E)	P-	Q*				S-				10	
/		157.00	160.00	3.00	278		TFXL						2	4	1	5	P		V5		70	V=			P(	D.	<+	V=				8L		1T
L					174	HZ		6A								0			V1		80	1+	E)	P-	Q*				S*				9	
/		160.00	163.00	3.00	291		TFXL						2	4	2	4	P		V5		65	V=			P*	<+	<+	<)						1T
L					202	HZ		6A								0							E+	P)	Q-	D/			S*				14	
/		163.00	166.00	3.00	284		TFXL						2	4	3	4	P		V5		68	V=			<)	<+	<+	>+						1T
L					201	HZ		6A								0			V2		55		E+	P)	Q*	D/			S)				17	
R		163.00	166.00		THREE 10 CM. THICK QZ-PY-MO VEINS																															
/		166.00	169.00	3.00	283		TFXL						2	4	2	4	P		V2		70	V=			P*	D(	<+	<)	D(			8T		1T
L					175	HZ		6A								0			V4		60	P*	E)	P)	Q(	D/			S*				10	
/		169.00	172.00	3.00	285		TFXL						2	4	2	4	P		V5		60	V+			P*	<+	<+	<)	00			8L		1T
L					176	HZ		6A								0						P)	E+	P)	Q-	D/			S*				16	

KEY	F-L-G	FROM -	TO -	INT	RECOV RQD	MD % AGE	ROCK EV	TM TM RQ	QM1 QM2 LC	TX TX TM	TX TX QM	F S	C R	% S	M O	TFDM SML	RI 2	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F	I	Z	I
/	172.00	175.00	3.00	286			TFXL					2	4	2	4		P		VS		75	V=			00	<*	<)	>)					00
L				237		HZ		6A							0								E+	P*	00	D/			S)				18
R	172.00	175.00		1 M. LONG QZ-MO VEIN, 3 MM. THICK																														
/	175.00	178.00	3.00	280			TFXL					2	4	2	4		P		VS		75	V=			P*	<*	<+	>+	D(				1T
L				205		HZ		6A							0								E+	P)	Q-	D/			S*				25
/	178.00	181.00	3.00	293			TFXL					2	4	4	5		P		VS		65	<)			P*	<*	<+	<)	00				1T
L				186		HZ		6A							0								E+	P(	Q*	D/			S(				15
/	181.00	184.00	3.00	287			TFXL					2	4	3	6		P		VS		60	V+		?	P(	D*	</	>+					8T 1T
L				215		HZ		6A							0								P/	E)	P*	Q(			S*				6
/	184.00	187.00	3.00	278			TFXL					2	4	3	6		P		VS		60	V+		?	V)	D*	>*	>+					8T 1T
L				164		HZ		6A							0								P/	E)	P*	Q(			S-				4
/	187.00	190.00	3.00	300			TFXL					2	4	3	6		P		VS		45	V+		?	P(	00	</	>+					8T 1T
L				240		HZ		6A							0								P/	E)	P)	Q(			S(				11
/	190.00	193.00	3.00	300			TFXL					2	4	3	6		P		VS		60	>+		?	P(	D.	</	>+					8T 1T
L				180		HZ		6A							0								1)	E+	P*	Q(			S*				13
/	193.00	196.00	3.00	216			TFXL					2	4	3	6		P		VS		60	V+		P(	V=	D*	>+	>+					8T 1T
L				242		HZ		6A							0								P/	E)	P*	Q(			S.				5
/	196.00	199.00	3.00	280			TFXL					2	3	3	3		P		VS		35	V)		?	P(	D*	</	<)					8T 00
L				294		HZ		6A							0								1*	E)	P*	00			S*				6
/	199.00	202.00	3.00	280			TFXL					2	3	4	4		P					V+			V)	/	<*	<+					8T
L				107		HZ		5A							0								E*	P(					S(				13
R	199.00	202.00		ALTERNATION IS SLIGHT, MOST ORIGINAL TEXTURES OF TFXL IS PRESER-																														
R	199.00	202.00		VED.																												
/	202.00	205.00	3.00	292			TFXL					2	3	4	4		P		VS		70	V+			V)	D*	<*	<+	D*				8T 1T
L				241		HZ		5A							0								1(	E*	P*	0.			S-				16
/	205.00	208.00	3.00	300			TFXL					2	4	3	5		P					V+			V)	<)	<*	<)	D.				8T
L				274		HZ		5A							0								1)	E)	P(				S-				16
/	208.00	211.00	3.00	272			TFXL					2	3	4	4		P					>)			00	/	<-	<+					8T
L				170		HZ		5A							0								E*	P(	Q(				S.				12
/	211.00	214.00	3.00	295			TFXL					2	3	4	4		P					V+			V)	D.	<*	<+	00				8T
L				157		HZ		5A							0								F*	P(					S(				15
/	214.00	217.00	3.00	278			TFXL					2	3	4	4		P		VS		60	V+			V)	/	<*	>+					8T
L				179		HZ		5A							0								E*	P(					S(				12
/	217.00	220.00	3.00	214			PPFL					2	4	4	6		P					<(			V)	/	00	00					00 00
L	DYK			100		HZ		7A							0								1*	00	00	00			S.				12

K E Y	F -L- G	F R O M -	T O -	I N T	RECOV R Q D	MD % AGE	ROCK EV	TM TM RQ	QM1 LC	TX TX TM	TX TX QM2	F C S	% M R S	TFDM O SML	RI 1 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
R		217.00	220.00		UNMINERALIZER PPFL DYKE FROM 218 TO 218.90 M.																								
/		220.00	223.00	3.00	210		TUFF					2 2 1	2		P				<*						<)			ST	
L					0	HZ		5A					0							P(						S.			00	
/		223.00	226.00	3.00	300		TUFF								P	V4		50	<(				D(	>)	<)				
L					147															E-		Q(				00			4	
/		226.00	229.00	3.00	294		TUFF								P	V4		65	<(			P(	D(	>)	<*				
L					189											V5		48		E-		Q(				S.			6	
/		229.00	232.00	3.00	272		TUFF								P	V2		50	>*				D(	>)	<)			00	1T
L					187															E-		Q-				00			10	
/		232.00	235.00	3.00	294		TFLP								P	V5		60	<(			P-	D*	>(	<>				
L	BRX				266											V4		45		E-		Q(	D.			00			7	
R		232.00	235.00		BRECCIA WITH NO VISIBLE BEDDINGS OR FLOW STRUCTURES																								
/		235.00	238.00	3.00	295		TFXL					2 4 6	6		P	V4		70	<(				D-	>*	<)				
L					220															E-		Q(				00			6	
/		238.00	241.00	3.00	207		TFXL					2 4 3	6		P				>)				D*	<(	<)			ST	1L
L					183	HZ		6A					0							E(	P(	Q*				S-			9	
/		241.00	244.00	3.00	300		TFXL					2 4 3	6		P	V5		85	>)			P.	D.	<(	<)			ST	1L
L					215	HZ		6A					0							E(	P(	Q(				S.			6	
/		244.00	247.00	3.00	291		TFXL					2 4 3	6		P	V5		85	V)				DC	<-	<)	D-		ST	1L
L					225	HZ		6A					0							E(	P(	Q*				S*			7	
/		247.00	250.00	3.00	286		TFXL					2 4 5	6		P				>(			P(	D*	<(	<)	00		ST	1L
L					197	HZ		6A					0							E(	P(	Q*				S.			3	
/		250.00	253.00	3.00	295		TFLP					2 5 5	6		P	V5		55	>)			>*	D*	<(	<)			ST	1L
L	BRX				194	HZ		6A					0			V1		87		E(	P*	Q*				S-			3	
/		253.00	256.00	3.00	285		TFXL					2 4 3	6		P				>)				D*	<*	<)			ST	1L
L					227	HZ		6A					0							E(	P(	Q*				S-			7	
/		256.00	259.00	3.00	297		TUFF					2 4 3	6		P	V5		75	>)				D*	<(	<*			ST	1L
L					245	HZ		6A					0							E(	P(	Q*				S-			7	
/		259.00	262.00	3.00	292		TFXL					2 3 2	3		P				V+					>)	<*			ST	
L					251	HZ							0							E(	P(					S.			6	
R		259.00	262.00		TUFF APPEARS UNALTERED EXCEPT FOR QZ-PY-MO VEINS AND GY-VEINS																								
/		262.00	265.00	3.00	300		TFXL					2 3 2	3		P				V+				D-	>)				ST	1T
L					213	HZ							0							E(	P(	Q-				S.			8	
/		265.00	268.00	3.00	300		TFXL					2 3 2	3		P	V5		73	V+					>)	<*			ST	
L					230	HZ							0							E(	P*					S(			12	

K	F	FROM -	TO -	INT	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
E	-L-	----.--	----.--	---.--	---.--	--	-	----	--	--	---	--	--	-	-	-	-	----	---	-	--	---	---	--	--	--	--	--	--	--	--	--	--	-	-	-	-
Y	G				R	Q	D	AGE	EV	RQ	LC	TM	QM2	TX	TX	S	R	S	O	SML		2	ID	AZM	DIP	KF	MU	CL	EP	HE	XX	PR	MO	SL				
/		268.00	271.00	3.00	289			TFXL						2	3	2	3		P					>(					>*	<(			5T				
L					254		HZ										0								E(	P(						S.		6				
/		271.00	274.00	3.00	280			TFXL						2	3	2	3		P					>*					>)	<*			5T				
L					242		HZ										0								E(	P(	Q*					S.		11				
/		274.00	277.00	3.00	282			TUFF						2	3	2	3		P					V*					>)	<*			5T				
L					226		HZ										0								E(	P(						S.		10				
/		277.00	280.00	3.00	294			TUFF						2	3	2	4		P					V)				D.	>*	<)			5T	1T			
L					246		HZ			6A							0								E(	P*	Q-					S-		8				
/		280.00	283.00	3.00	262			TUFF						2	3	2	4		P					V)				00	>*	<)			8T	1L			
L					213		HZ			6A							0								1*	E(	P*	Q*				S.		7				
/		283.00	286.00	3.00	280			TUFF						2	3	2	4		P		V5		65	>*				D.	>*	<)			5T	1T			
L					202		HZ			6A							0				V4		18	1-	E(	P*	Q-					S-		2				
/		286.00	289.00	3.00	270			TUFF						2	3	2	4		P					V)				D-	>*	<*	D-		5T	1T			
L					210		HZ			6A							0							00	E(	P(	Q-				S-		4				
/		289.00	292.00	3.00	287			TFXL						2	3	2	4		P					V)				D.	>*	<)			5B	1T			
L					231		HZ			6A							0								E(	P*	Q-					S-		8				
/		292.00	295.00	3.00	298			TFXL						2	4	3	5		P					>(				00	>*	<)			5T	1T			
L					234		HZ			6A							0							P)	E(	P*	Q*				S/		3				
/		295.00	298.00	3.00	278			TUFF						2	3	2	4		P		V5		75	V)				D.	>*	<)	D.		5T	1T			
L					216		HZ			6A							0								E(	P*	Q-					S.		4				
/		298.00	301.36	3.36	336			TUFF						2	4	4	5		P		V5		65	>)		?		D-	<*	<)			5L	1T			
L	DYK				206																			P(	P(	P*					S.						
R		300.30	301.36		PPFL DYKE FROM 300.30 TO 301.36 M., LESS THAN 1 PY IN DYKE																																		
R	END	301.36	301.36		WC DH 20 ENDS AT 301.36 M.																																		

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	6.20	10.00	1205	.014	.003			.017
A 012	10.00	13.00	1206	.025	.053			.078
A 012	13.00	16.00	1207	.028	.012			.040
A 012	16.00	19.00	1208	.018	.005			.023
A 012	19.00	22.00	1209	.014	.022			.036
A 012	22.00	25.00	1210	.022	.040			.062
A 012	25.00	28.00	1211	.017	.073			.090
A 012	28.00	31.00	1212	.016	.010			.026
A 012	31.00	34.00	1213	.007	.070			.077
A 012	34.00	37.00	1214	.006	.028			.034
A 012	37.00	40.00	1215	.046	.023			.069
A 012	40.00	43.00	1216	.017	.027			.044
A 012	43.00	46.00	1217	.019	.035			.054
A 012	46.00	49.00	1218	.053	.015			.068
A 012	49.00	52.00	1219	.031	.037			.068
A 012	52.00	55.00	1220	.014	.025			.039
A 012	55.00	58.00	1221	.025	.020			.045
A 012	58.00	61.00	1222	.027	.017			.044
A 012	61.00	64.00	1223	.082	.062			.144
A 012	64.00	67.00	1224	.038	.035			.073
A 012	67.00	70.00	1225	.020	.020			.040
A 012	70.00	73.00	1226	.042	.100			.142
A 012	73.00	76.00	1227	.017	.028			.045
A 012	76.00	79.00	1228	.041	.023			.064
A 012	79.00	82.00	1229	.008	.010			.018
A 012	82.00	85.00	1230	.035	.012			.047
A 012	85.00	88.00	1231	.093	.013			.106
A 012	88.00	91.00	1232	.054	.015			.069
A 012	91.00	94.00	1233	.025	.020			.045
A 012	94.00	97.00	1234	.015	.013			.028
A 012	97.00	100.00	1235	.042	.017			.059
A 012	100.00	103.00	1236	.022	.047			.069
A 012	103.00	106.00	1237	.068	.038			.106
A 012	106.00	109.00	1238	.021	.040			.061
A 012	109.00	112.00	1239	.052	.027			.079
A 012	112.00	115.00	1240	.031	.025			.056
A 012	115.00	118.00	1241	.011	.017			.028
A 012	118.00	121.00	1242	.020	.013			.033
A 012	121.00	124.00	1243	.045	.043			.088
A 012	124.00	127.00	1244	.033	.020			.053
A 012	127.00	130.00	1245	.008	.068			.078
A 012	130.00	133.00	1246	.046	.017			.063
A 012	133.00	136.00	1247	.049	.010			.059
A 012	136.00	139.00	1248	.021	.033			.054
A 012	139.00	142.00	1249	.028	.017			.045
A 012	142.00	145.00	1250	.031	.013			.044
A 012	145.00	148.00	1251	.033	.012			.045
A 012	148.00	151.00	1252	.023	.082			.105
A 012	151.00	154.00	1253	.022	.045			.067
A 012	154.00	157.00	1254	.010	.015			.025

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	157.00	160.00	1255	.036	.025			.061
A 012	160.00	163.00	1256	.028	.028			.056
A 012	163.00	166.00	1257	.050	.060			.110
A 012	166.00	169.00	1258	.024	.032			.056
A 012	169.00	172.00	1259	.022	.022			.044
A 012	172.00	175.00	1260	.142	.070			.212
A 012	175.00	178.00	1261	.053	.032			.085
A 012	178.00	181.00	1262	.011	.055			.066
A 012	181.00	184.00	1263	.020	.033			.053
A 012	184.00	187.00	1264	.012	.055			.067
A 012	187.00	190.00	1265	.027	.023			.050
A 012	190.00	193.00	1266	.024	.020			.044
A 012	193.00	196.00	1267	.018	.048			.066
A 012	196.00	199.00	1268	.024	.055			.079
A 012	199.00	202.00	1269	.022	.050			.072
A 012	202.00	205.00	1270	.024	.080			.104
A 012	205.00	208.00	1271	.018	.063			.081
A 012	208.00	211.00	1272	.013	.047			.060
A 012	211.00	214.00	1273	.010	.063			.073
A 012	214.00	217.00	1274	.037	.070			.107
A 012	217.00	220.00	1275	.014	.020			.034
A 012	220.00	223.00	1276	.010	.032			.042
A 012	223.00	226.00	1277	.014	.042			.056
A 012	226.00	229.00	1278	.022	.032			.054
A 012	229.00	232.00	1279	.020	.038			.058
A 012	232.00	235.00	1280	.018	.027			.045
A 012	235.00	238.00	1281	.010	.045			.055
A 012	238.00	241.00	1282	.015	.038			.053
A 012	241.00	244.00	1283	.009	.070			.079
A 012	244.00	247.00	1284	.069	.108			.177
A 012	247.00	250.00	1285	.117	.027			.144
A 012	250.00	253.00	1286	.026	.032			.058
A 012	253.00	256.00	1287	.058	.013			.071
A 012	256.00	259.00	1288	.039	.038			.077
A 012	259.00	262.00	1289	.010	.040			.050
A 012	262.00	265.00	1290	.044	.020			.064
A 012	265.00	268.00	1291	.043	.125			.168
A 012	268.00	271.00	1292	.032	.037			.069
A 012	271.00	274.00	1293	.028	.033			.061
A 012	274.00	277.00	1294	.022	.083			.105
A 012	277.00	280.00	1295	.044	.050			.094
A 012	280.00	283.00	1296	.035	.008			.043
A 012	283.00	286.00	1297	.018	.013			.031
A 012	286.00	289.00	1298	.033	.027			.060
A 012	289.00	292.00	1299	.032	.060			.092
A 012	292.00	295.00	1300	.018	.018			.036
A 012	295.00	298.00	1301	.112	.020			.132
A 012	298.00	301.36	1302	.041	.120			.161

				PB AU	PM AG	PM W	PM SN	PM PB	PM ZN		HASH	TOTAL
A	UMM			MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN			
A	LAB			AQR-AA	PCL-AA	COLOR	COLOR	PCL-AA	PCL-AA			
A	MTH			COMPOS	COMPOS	COMPOS	COMPOS	COMPOS	COMPOS			
A	TYP											
A	013	7.62	16.00	6	1.4	3	-1	27	124	10467	6	
R	ASY	7.62	16.00	DETECTION LIMIT IS PRECEDED BY A MINUS SIGN								
A	013	16.00	25.00	5	1.3	1	1	17	95	15233	11	
A	013	25.00	34.00	5	1.2	6	2	18	85	4167	9	
A	013	34.00	43.00	5	1.4	-1	-1	19	70	11433	7	
A	013	43.00	52.00	5	3.0	8	-1	30	165	26500	5	
A	013	52.00	61.00	13	1.3	9	1	23	120	12233	11	
A	013	61.00	70.00	13	1.7	153	1	26	120	18033	8	
A	013	70.00	79.00	55	4.4	19	5	38	121	14900	19	
A	013	79.00	88.00	15	1.0	10	-1	27	216	14767	5	
A	013	88.00	97.00	13	1.5	19	7	24	435	14600	6	
A	013	97.00	106.00	6	1.6	19	1	20	98	17933	5	
A	013	106.00	115.00	10	1.8	7	-1	26	87	18267	9	
A	013	115.00	124.00	8	1.5	61	2	20	66	22867	6	
A	013	124.00	133.00	1	1.4	31	1	19	51	16800	6	
A	013	133.00	142.00	10	1.6	65	2	22	108	23467	6	
A	013	142.00	151.00	15	1.6	53	2	21	92	25133	4	
A	013	151.00	160.00	13	1.2	29	2	27	91	15833	6	
A	013	160.00	169.00	16	1.6	6	-1	34	80	14067	15	
A	013	169.00	178.00	8	1.3	3	-1	26	129	13267	3	
A	013	178.00	187.00	12	1.6	10	4	30	328	7333	2	
A	013	187.00	196.00	10	1.5	8	-1	28	118	11400	3	
A	013	196.00	205.00	10	1.8	23	1	31	137	24300	3	
A	013	205.00	214.00	8	1.3	3	3	24	63	15500	-2	
A	013	214.00	223.00	12	1.3	4	5	24	84	20500	-2	
A	013	223.00	232.00	12	1.4	13	1	34	89	35500	2	
A	013	232.00	241.00	15	1.5	8	-1	20	80	25867	4	
A	013	241.00	247.00	30	1.2	9	-1	27	226	34550	9	
A	013	247.00	256.00	10	2.0	18	-1	30	140	38300	3	
A	013	256.00	265.00	5	1.3	13	2	21	96	31400	-2	
A	013	265.00	274.00	5	1.7	10	2	20	116	28900	6	
A	013	274.00	283.00	5	1.7	3	-1	21	146	19300	6	
A	013	283.00	292.00	10	1.5	12	-1	20	97	21600	-2	
A	013	292.00	301.36	10	1.8	21	-1	22	104	41500	-2	
R	ASY	292.00	301.36	END OF WCDH20								

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
WHITING CK PORPHYRY MO-CU DEPOSIT BC

FORMAT VERSION : 6802

DRILLHOLE/TRAVERSE :	WCDH021	COLLAR ELEVATION:	1580.00	AZIMUTH(DEG) :	0.00	GEOLOGGED BY :	DTC +
TOTAL DEPTH/LENGTH :	294.74	NORTHING(- IF S):	3895.00	VERTICAL ANGLE :	-90.00	DATE (YY/MM/DD):	800919
CORE/HOLE DIAMETER :	NQ	EASTING (- IF W):	2550.00	CO-ORD SYSTEM :	MAP	PROJECT NUMBER :	4942

SEQ. NO OF SURVEY DATA	LENGTH FROM COLLAR TO SURVEY POINT	AZIMUTH (DEG)	VERT. ANGLE (DEG)
1	294.74	0.00	-88.00

K	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						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	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-	G	LC-	3		3	4	O	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	14.33	14.33				OVER											P																	
L	OVB																																				
R		0.00	14.33		CASING TO 14.33 M.																																	
/		14.33	17.00	2.67	45			TUFF					2	4	2	4			P			<*			D=	<(	D.				LI	ST	1L	
L	WTH				0		HZ		AN	SA						0								P(	P(	Q(	?					C=		3		
/		17.00	20.00	3.00	100			TUFF					2	4	2	4			P			<*			D=	<=	D.				LI	ST	1L	
L	WTH				0		HZ		AN	SA						0								P(	P(	Q(	?					C=		3		
/		20.00	23.00	3.00	266			TUFF					2	4	2	4			P			<*			D=	<(	V*				LI	ST	1L	
L	WTH				0		HZ		AN	SA						0								P(	P*	Q*	?					C=		2		
R		20.00	23.00		CL REPLACES BI AND HORNBLENDE IN ANDESITIC TUFF																																	
/		23.00	26.00	3.00	265			TFXL					2	4	2	5			P			1)			D(	<(	D.				LI	ST	1L	
L	WTH				0		HZ		AN	SA						0								P(	P(	Q(	?		S.			C=		4		
/		26.00	29.00	3.00	252			TFXL					2	4	2	4			P			1*			D=	<(	D.				LI	ST	1L	
L	WTH				27		HZ		AN	SA						0								P(	P(	Q)	?		00			C=		3		
/		29.00	32.00	3.00	262			TFXL					2	4	3	5			P			V*			D=	<(	<)				LI	SL	1T	
L	WTH				0		HZ			SA						0								P=	P(	Q=			S.			C=		5		
/		32.00	35.00	3.00	257			TFXL					2	4	3	5			P	V5	85	V)			D(	<(	<)				LI	SL	00	
L					35		HZ			SA						0								P=	P(	00			S=			C=		8		
R		32.00	35.00		MD ENVELOPES AND SELVAGES WITH QZ-PY VEINS																																	
/		35.00	38.00	3.00	256			TFXL					2	4	3	5			P	V6	56	V*		?	D.	<*	<)				LI	SL	1T	
L					38		HZ			SA						0								P=	P*	Q=			S.			C=		7		
/		38.00	41.00	3.00	217			TFXL					2	4	3	5			P			V(			D*	<(	<)				LI	SL	1T	
L					30		HZ			SA						0								P=	P(	Q=			S.			C=		9		

K E Y	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV ---.-- R Q D	MD % AGE	ROCK EV	TM LC	TM TM QM1 TM	TX TX F S	C R	X S	M O	TFDM SML	RI - 2	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		41.00	44.00	3.00	267		TFXL			2	4	3	5		P	V2		45	V*			D-	<(	<)			LI		5L	1T	
L					48	HZ		5A					0							P-	P(	Q-				S.		C-		7		
/		44.00	47.00	3.00	275		ANDS								P	V2		55	V*			D(	<-	<*					5L	1T	
L					79			6A												E-	P)	QC				/				11	
/		47.00	50.00	3.00	240		TFXL								P	V2		55	1(			D(	<-	<*					5L	1T	
L					50			6A												E-	P)	QC				00				16	
/		50.00	53.00	3.00	218		TUFF								P				V>			D.	>*	<)					5L	1T	
L					0	HZ		6A												E(	P-	Q-				S.				3	
/		53.00	56.00	3.00	200		TUFF								P				V>			D(	>*	<)					5L	1T	
L					0	HZ		6A												E(	P-	Q-				S.				4	
/		56.00	59.00	3.00	219		TFXL								P				V)			D.	>*	<)					5L	1T	
L					0	HZ		6A												E(	P-	Q-				S-				6	
/		59.00	62.00	3.00	180		TFXL								P				V*			D.	>*	<)					5L	1T	
L					0	HZ		6A												E(	P-	Q(				S.				4	
/		62.00	65.00	3.00	255		TFXL								P				V*			D-	>*	<*					5L	1T	
L					0	HZ		6A												E(	P-	Q-				S(				6	
/		65.00	68.00	3.00	220		TFXL								P	V5		65	V>			D*	>*	<)					5A	1T	
L					0	HZ		6A												E(	P(	<(				S.				3	
/		68.00	71.00	3.00	190		TUFF			2					P				V)		/	D-	<-	1+					5L	1T	
L					0	HZ		5A					0							E)	P(	Q*				S-				9	
/		71.00	74.00	3.00	190		HORN								P				<)			D.	<.	1)					5T	1T	
L					0			4G												E)	P*	Q*				S.				5	
/		74.00	77.00	3.00	227		HORN								P	V5		50	<)		P.	D.	<)	1+					5T	1T	
L					0			4G								V4		40		E)	P*	Q*				S.				6	
/		77.00	80.00	3.00	277		HORN								P	V2		50	V)			D.	<.	<+					5T	1T	
L					233			4G												E)	P*	Q-	D.			S.				9	
/		80.00	83.00	3.00	240		HORN								P	V1		35	<)			D.	<.	V+					5T	1T	
L					152			4G												E)	S*	Q*				S.				7	
/		83.00	86.00	3.00	281		HORN								P				V+			D.	<.	1)					5T	1T	
L					236			4G												E)	P*	Q*				S(				9	
R		83.00	86.00		MO SELVAGES INTER-LAYERED WITH QZ VEINS																											
/		86.00	89.00	3.00	300		HORN								P	V5		65	<)			D.	<.	1)					5T	1F	
L					267			4G												E)	P*	Q)				S-				16	
/		89.00	92.00	3.00	281		HORN								P				<+		P.	D-	<.	<)					5L	1T	
L					232			4A					0							E(	P-	Q*				S.				11	

K E Y	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV RQD	MD AGE	% ROCK EV	TM LC	TM QM1 QM2	TX TX	F S	C R	% S	M O	TFDM SML	RI 1 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	FIZI
/		92.00	95.00	3.00	293		HORN				2	4	1	4		P	V5		85	V+			P,	D-	<.	<+			5L	1T
L					249			4A						0							E(	P-	Q*				S-			14
/		95.00	98.00	3.00	300		HORN									P	V5		73	<+			P,	D-	<.	<)			5L	1L
L					256			4N						0							E(	P*	Q*				S.			19
/		98.00	101.00	3.00	270		HORN				2	4	2	5		P	V6		70	<+			P,	D*	<.	<)			5L	1T
L					196			4N						0							E(	P-	Q(				S.			12
/		101.00	104.00	3.00	294		HORN									P				<)			Q*	D-	<-	<)			5L	1T
L					262			4N						0							E(	P-	Q*				S.			19
/		104.00	107.00	3.00	254		HORN									P				<)			P,	D-	<*	D*			5L	1T
L					239			4N						0							E(	<-	Q*	D.			00			16
/		107.00	110.00	3.00	292		HORN				2					P				<)			P-	S*	<(| D)			5L	1T
L					186	HZ		4A						0							E-	P)	Q.				E.			A
/		110.00	113.00	3.00	275		HORN				2					P				<)			P-	S*	<(| D)			5L	1T
L					165	HZ		4A						0						P.	P)	P)	Q.	D.			00			10
/		113.00	116.00	3.00	290		HORN				2					P	V2		70	<)			P*	S*	<(| V)			5L	1T
L					112	HZ		4N						0							E)	P)	Q.				E.			15
R		113.00	116.00		ABUNDANT QZ-PY VEINS WITH SERICITE ENVELOPES COMMONLY CUT BY GY-																											
R		113.00	116.00		CL MICROVEINS.																											
/		116.00	119.00	3.00	248		HORN				2					P	V1		45	>*			P-	D(	<(| <)			5L	1T
L					154	HZ		4N						0							E*	E>	Q-				E.			6
/		119.00	122.00	3.00	280		TFXL				2					P	V2		63	<)			P-	S*	>*	D)			5L	1T
L					152	HZ		4A						0							E-	P-	Q*				S.			10
/		122.00	125.00	3.00	260		TFXL				2	5	1	5		P	V5		60	V)			P-	00	<(| D)			5L	1T
L					223	HZ		4A						0							E-	P)	Q-				S-			10
/		125.00	128.00	3.00	300		HORN				2					P	V1		80	<)			P-	D-	<(| 1)	D.		8T	1T
L					206	HZ		4N						0						P*	E-	P(	P*				E.			13
R		125.00	128.00		CHLORIC-POTASSIC ALTER. ,KF MICROVEINS AND ENVELOPES																											
/		128.00	131.00	3.00	284		HORN				2					P				3+					<(| 1)			8T	1T
L					190	HZ		N						0						P*	E(	P*	Q*				S.			
/		131.00	134.00	3.00	220		HORN				2					P	V4		80	<*			P-		V*	V)			5L	1T
L					110	HZ		N						0						00	E(	P*	Q*				S.			4
/		134.00	137.00	3.00	268		HORN				2					P	V2		50	3+			P(		<(| 1)			8T	1T
L	TRN				202	HZ		3G						0			DT		70	P*	E*	P*	Q*				S.			5
R		136.70	136.70		SHARP CONTACT BETWEEN HORNFEL AND FELSITE DYKE																											
/		137.00	140.00	3.00	297		FELS				2	4	1	4		P						P*	D-	D.	<(	D-			5T	00
L	DYK				207			7A						0						P+	P.									

KEY	F -L- G	FROM -	TO -	INT	RECOV RQD	MD % AGE	ROCK EV	TM TM RQ	QM1 QM2	TX TX	F S	C R	X S	M O	TFDM SML	RI	1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
R		137.00	140.00				FELSIC DYKE CONTAINS LESS THAN 1 PYRITE, ORIGINAL FELDSPARS AL-																									
R		137.00	140.00				TERED TO SERICITE (																									
/		140.00	143.00	3.00	297		FELS				2	4	1	4		P						P*	D-	D.	<(	D(			ST	00
L	DYK				224			7A						0							P+	P.								
/		143.00	146.00	3.00	298		FELS				2	4	1	4		P						P*	D-	D.	<(	D-			ST	00
L	DYK				220			7A						0							P+	P.								
/		146.00	149.00	3.00	288		FELS									P				1-		P*	P-		<*	D(			ST	
L	DYK				228			7A													P+									
R		146.00	149.00				UNIDENTIFIED BLUE-GREY COLOURED OPAQUE VEINS (FINE-GRAINED,DISS)																									
/		149.00	152.00	3.00	280		FELS									P				00		P*	00		<*	D(			OT	
L	DYK				209			7A													P.									
/		152.00	155.00	3.00	293		FELS									P				1-		P-	P-		<*	D(			ST	
L	DYK				293			7A													P+									
/		155.00	158.00	3.00	282		FELS									P				<-		P*	P-		<*	D-			ST	
L	DYK				245			7A													P+									3
/		158.00	161.00	3.00	300		FELS				2	4	2	5		P				1-		P*	P-		<*	D(			ST	
L	DYK				253			7A													P+									2
R		158.00	161.00				DYKE IS PORPHYRITIC IN PARTS, ANHEDRAL FELSPAR PHENO.																									
/		161.00	164.00	3.00	273		HORN									P				<)			D.		D(				ST	
L	TRN				220			4G													E*						S.			5
R		162.50	164.00				FELSIC DYKE CUTTING HZ-HORN																									
/		164.00	167.00	3.00	291		FELS									P	V4		55		/		<*	D-						
L					250			7A													P-	P-								3
/		167.00	170.00	3.00	265		FELS				2	4	1	5		P	D8		45	<*		P/		<)	D-					
L	DYK				230			7A						0							P(									5
R		169.10	169.10				BOTTOM OF FELSIC DYKE (136.7 TO 169.1 M.)																									
/		170.00	173.00	3.00	284		HORN				2					P				V*				<(	<(					
L					276	HZ		4G						0							E*	P)	U.				S.			10
/		173.00	176.00	3.00	300		HORN				2					P	V2		80	>)			P-		<(	<(	S.		1F	
L					288	HZ		4G						0			V5		55		E*	P*	P.				S-			14
/		176.00	179.00	3.00	295		HORN				2					P	V5		55	V*				D-	<(	<(	D.			
L					258	HZ		4G						0							E)	P)	Q(				S.			17
/		179.00	182.00	3.00	297		HORN				2					P	V2		85	V*					<*	<*				
L					267	HZ		4G						0			V5		67		E*	P)	U.				S.			14
/		182.00	185.00	3.00	300		HORN				2					P	V5		60	V*					<(	<(	S.			
L					284	HZ		4G						0							E*	E*	U.				S.			10

KEY	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV RQD	MD % AGE	ROCK EV	TM RQ	TM LC	TM QM1 TM QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI	1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		185.00	188.00	3.00	300		HORN						2					P		V1		72	<*			P.	D-	<*	<)	D.			5F		
L					300	HZ		4G								0							E+	P*			D.			S-				8		
/		188.00	191.00	3.00	296		HORN						2					P		V1		72	<(			P.	D.	<*	<*	00			8T	1T	
L					280	HZ		4G								0							P.	P)	P*	0-	D.			D/				6		
/		191.00	194.00	3.00	291		HORN						2					P		V1		70	<*			P.	D-	<*	D*	D.			5F		
L					160	HZ		4G								0							0-	E)	S(	*	D.			D.				5		
/		194.00	197.00	3.00	296		HORN						2					P		V1		72	V*			P.	D-	<*	<)	D.			5F	00	
L					265	HZ		4G								0							E+	P*	00	D.				S-				6		
/		197.00	200.00	3.00	295		HORN						2					P		V1		72	<*			P.	D-	<*	<)	D.			5F	1T	
L					250	HZ		4G								0							P-	E+	P*	0.	D.			E.				4		
/		200.00	203.00	3.00	291		HORN						2					P		V6		55	V(			P.	S.	<*	<(	D.			5F		
L					140	HZ		4G								0							0.	E+	P*		D.			S.				6		
/		203.00	206.00	3.00	288		HORN						2					P		V1		72	<*			<-	D-	<*	<)	D-			5F		
L					252	HZ		4G								0							E+	P*			D.			S-				9		
/		206.00	209.00	3.00	289		HORN											P		V2		60	<)			P.		<*	<)	D/			8T		
L					260	HZ		4G															E-	E*	P-					E-				16		
/		209.00	212.00	3.00	291		HORN											P		V2		60	<*			P.	D.	<*	<)	D/			8T	1T	
L					255	HZ		4G															E-	E*	P-	D.				S.				19		
/		212.00	215.00	3.00	300		HORN											P		V2		60	<)			P.		<*	<)	00			8T		
L					159	HZ		4G															S-	E*	E(					S.				17		
/		215.00	218.00	3.00	300		HORN											P		V1		60	<)			<.	D-	<*	<)	D/			8T		
L					182	HZ		4G															E-	E*	P-	Q(				E-				13		
/		218.00	221.00	3.00	287		HORN											P		V2		45	<)			P.		<*	<)	D.			8T		
L					191	HZ		4G															E-	E*	E*					E-				20		
/		221.00	224.00	3.00	300		HORN											P		V6		43	<)			P.		<*	<)	D/			8T		
L					059	HZ		4G															E-	E*	P-					E-				18		
/		224.00	227.00	3.00	293		HORN						2					P					V)			1-	D-	<(| <)				8T	1L	
L					252	HZ		5G								0							P(| E* | P)	D.				E-				12		
/		227.00	230.00	3.00	298		HORN						2					P		V6		70	V)		P/	1-	D-	<(| <)				8T	00	
L					243	HZ		5G								0							P(	E)	P)	00	00			D.				10		
/		230.00	233.00	3.00	293		HORN						2					P		V2		60	V)		00	1-	D-	<(| <)				8T	1L	
L					250	HZ		5G								0							P(	E*	E*	D.				E.				16		
/		233.00	236.00	3.00	300		HORN						2					P		V6		50	>+			1-	D-	<*	V)				00	1F	
L					294	HZ		5G								0							P(| E* | 1)	D.				E-				12		

K E Y	F -L- G	F R O M -	T O -	I N T	RECOV RQD	MD AGE	% EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TM	TX TX	F S	C R	% S	M O	TFOM SML	RI 2	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
R		233.00	236.00		QZ MACROVEINS WITH TRACE AMOUNT OF MO DISSEMINATIONS, SERICITE																																
R		233.00	236.00		ENVELOPES AND PERVASIVE CHLORITE.																																
/		236.00	239.00	3.00	296			HORN						2					P		V6	60	V)		1-	D-	<(	<*			8T	1L		
L					282	HZ			5G						0								P(	E*	P)	D.				S-		11				
/		239.00	242.00	3.00	298			HORN						2					P		V5	50	V)		1-	D-	<(	<)			5L	1T		
L					227	HZ			5G						0								P(	F*	P)	Q-				S.		12				
/		242.00	245.00	3.00	296			HORN						2					P		V5	70	V)		1-	D-	<(	<)			8T	1L		
L					199	HZ			5G						0						V4	60	P(	E*	P)	Q.				E-		18				
/		245.00	248.00	3.00	300			HORN						2					P		V4	70	V)				<*	<*			5L				
L					200	HZ			4A						0								E+	P)						E.		12				
/		248.00	251.00	3.00	276			HORN						2					P		V5	65	V+			D-	<*	<*			5L				
L					219	HZ			4A						0								E+	P)						S-		16				
/		251.00	254.00	3.00	295			FELS						2	4	3	5		P				1*				<(	D-			1T				
L	DYK				086																			E-	P.										
R		251.00	254.00		SLIGHTLY ALTERED FELDSPAR PORPHYRY DYKE.																																
/		254.00	257.00	3.00	292			HORN						2	4	3	5		P				V)				<-	<(			8T				
L					227																		P-	E(	P*					S.		12				
/		257.00	260.00	3.00	296			HORN						2	4	3	5		P		V5	65	1*			<-	<(	D-			5L	1T		
L					177																			E-	P.	Q(	D.			/			10		
/		260.00	263.00	3.00	293			HORN						2	4	3	5		P		V1	60	>*				<(	V(			1T				
L					215																			E-	P.										
/		263.00	266.00	3.00	296			HORN						2					P		V5	70	>)			D.	<(	<*			5L				
L					143	HZ			4G						0								E-	P-						S.		10				
/		266.00	269.00	3.00	300			HORN						2					P		V4	80	V+			P-	00	<(	<*			5L	1T		
L					200	HZ			4A						0								E-	P-	Q.					D.		12				
/		269.00	272.00	3.00	299			HORN						2					P		V5	70	V*			P-		D.	V)	D-			5I			
L					105	HZ			4A						0								E-	P-	Q(					00			14			
/		272.00	275.00	3.00	291			HORN						2					P		V6	85	>)				D.	<(	<-	D.		5L			
L					149	HZ			4A						0								E-	P-	00					D.		15				
/		275.00	278.00	3.00	300			HORN						2					P		V5	70	>)			D.	<(	<*	00		5L				
L					106	HZ			4A						0								E-	P-						S.		16				
/		278.00	281.00	3.00	289			HORN						2					P		V1	80	>)				D.	<(	<*			5L			
L					162	HZ			4A						0						V6	65		E-	P-						D/		10				
R		278.00	281.00		QZ VEINS CONTAIN PY-MICROVEINS AND TRACE AMOUNT OF MO																																
/		281.00	284.00	3.00	295			HORN						2					P		V5	70	<(			S.	<(	<)			5L				
L					093	HZ			4A						0								F-	E(						S.		10				

KEY	F-L-G	FROM	TO	INT	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	TM QM1 QM2	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	1 ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F	I	Z	I
/		284.00	287.00	3.00	300		HORN										P	V1		55	<*			P-		<)	<(			SL				
L					107	HZ		4A														E(	P-									3		
/		287.00	290.00	3.00	293		HORN										P	V1		55	<*			P-	D.	<)	<(			SL	1T			
L					139	HZ		4A														E(	P-	Q(								2		
/		290.00	293.00	3.00	285		HORN										P	V1		55	V*			P-		<)	<*	D.		SL	00			
L					213	HZ		4A														E(	P-	00				S.				4		
/		293.00	294.74	1.74	174		HORN										P	V5		60	>)			P-	00	<)	<-			SL				
L					104	HZ		4A														E*	P-					S-				8		

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	14.33	17.00	1303	.025	.015			.040
A 012	17.00	20.00	1304	.190	.008			.198
A 012	20.00	23.00	1305	.119	.023			.142
A 012	23.00	26.00	1306	.126	.070			.196
A 012	26.00	29.00	1307	.067	.033			.100
A 012	29.00	32.00	1308	.044	.023			.067
A 012	32.00	35.00	1309	.038	.153			.191
A 012	35.00	38.00	1310	.041	.132			.173
A 012	38.00	41.00	1311	.050	.063			.113
A 012	41.00	44.00	1312	.031	.048			.079
A 012	44.00	47.00	1313	.025	.020			.045
A 012	47.00	50.00	1314	.039	.013			.052
A 012	50.00	53.00	1315	.038	.017			.055
A 012	53.00	56.00	1316	.036	.028			.064
A 012	56.00	59.00	1317	.037	.035			.056
A 012	59.00	62.00	1318	.040	.013			.053
A 012	62.00	65.00	1319	.026	.072			.098
A 012	65.00	68.00	1320	.031	.030			.061
A 012	68.00	71.00	1321	.030	.032			.062
A 012	71.00	74.00	1322	.034	.037			.071
A 012	74.00	77.00	1323	.022	.017			.039
A 012	77.00	80.00	1324	.028	.020			.048
A 012	80.00	83.00	1325	.034	.018			.052
A 012	83.00	86.00	1326	.042	.032			.074
A 012	86.00	89.00	1327	.034	.047			.081
A 012	89.00	92.00	1328	.033	.022			.055
A 012	92.00	95.00	1329	.021	.020			.041
A 012	95.00	98.00	1330	.015	.063			.078
A 012	98.00	101.00	1331	.013	.025			.038
A 012	101.00	104.00	1332	.058	.033			.091
A 012	104.00	107.00	1333	.018	.027			.045
A 012	107.00	110.00	1334	.022	.050			.072
A 012	110.00	113.00	1335	.025	.017			.042
A 012	113.00	116.00	1336	.016	.017			.033
A 012	116.00	119.00	1337	.018	.018			.036
A 012	119.00	122.00	1338	.010	.013			.021
A 012	122.00	125.00	1339	.010	.023			.037
A 012	125.00	128.00	1340	.015	.033			.048
A 012	128.00	131.00	1341	.026	.187			.213
A 012	131.00	134.00	1342	.019	.022			.041
A 012	134.00	137.00	1343	.011	.018			.029
A 012	137.00	140.00	1344	.002	.003			.005
A 012	140.00	143.00	1345	.002	.002			.004
A 012	143.00	146.00	1346	.003	.002			.005
A 012	146.00	149.00	1347	.002	.002			.004
A 012	149.00	152.00	1348	.002	.002			.004
A 012	152.00	155.00	1349	.003	.002			.005
A 012	155.00	158.00	1350	.001	.002			.003
A 012	158.00	161.00	1351	.005	.005			.010
A 012	161.00	164.00	1352	.008	.040			.048

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	164.00	167.00	1353	.022	.007			.029
A 012	167.00	170.00	1354	.005	.018			.018
A 012	170.00	173.00	1355	.024	.023			.047
A 012	173.00	176.00	1356	.032	.050			.082
A 012	176.00	179.00	1357	.025	.030			.055
A 012	179.00	182.00	1358	.110	.017			.127
A 012	182.00	185.00	1359	.019	.018			.037
A 012	185.00	188.00	1360	.015	.013			.028
A 012	188.00	191.00	1361	.014	.022			.036
A 012	191.00	194.00	1362	.024	.023			.047
A 012	194.00	197.00	1363	.014	.012			.026
A 012	197.00	200.00	1364	.014	.027			.041
A 012	200.00	203.00	1365	.008	.027			.035
A 012	203.00	206.00	1366	.040	.030			.070
A 012	206.00	209.00	1367	.016	.037			.053
A 012	209.00	212.00	1368	.009	.037			.046
A 012	212.00	215.00	1369	.015	.028			.043
A 012	215.00	218.00	1370	.026	.018			.044
A 012	218.00	221.00	1371	.022	.057			.079
A 012	221.00	224.00	1372	.015	.038			.053
A 012	224.00	227.00	1373	.032	.030			.062
A 012	227.00	230.00	1374	.090	.025			.115
A 012	230.00	233.00	1375	.030	.038			.068
A 012	233.00	236.00	1376	.053	.033			.086
A 012	236.00	239.00	1377	.031	.047			.078
A 012	239.00	242.00	1378	.017	.030			.047
A 012	242.00	245.00	1379	.016	.023			.039
A 012	245.00	248.00	1380	.014	.028			.042
A 012	248.00	251.00	1381	.012	.022			.034
A 012	251.00	254.00	1382	.011	.007			.018
A 012	254.00	257.00	1383	0.028	0.018			0.046
A 012	257.00	260.00	1384	0.017	0.027			0.044
A 012	260.00	263.00	1385	0.030	0.017			0.047
A 012	263.00	266.00	1386	0.022	0.012			0.034
A 012	266.00	269.00	1387	0.039	0.008			0.047
A 012	269.00	272.00	1388	0.053	0.023			0.076
A 012	272.00	275.00	1389	0.105	0.013			0.118
A 012	275.00	278.00	1390	0.025	0.007			0.032
A 012	278.00	281.00	1391	0.033	0.017			0.050
A 012	281.00	284.00	1392	0.016	0.007			0.023
A 012	284.00	287.00	1393	0.018	0.005			0.023
A 012	287.00	290.00	1394	0.048	0.010			0.058
A 012	290.00	293.00	1395	0.054	0.023			0.077
A 012	293.00	294.74	1396	0.080	0.043			0.123

GEOLOG

A UMM A LAB A MTH A TYP				PB AU MIN-EN AQR-AA COMPOS	PM AG MIN-EN PCL-AA COMPOS	PM W MIN-EN COLOR COMPOS	PM SN MIN-EN COLOR COMPOS	PM PB MIN-EN PCL-AA COMPOS	PM ZN MIN-EN PCL-AA COMPOS		HASH	TOTAL
A	013	14.33	23.00	10	2.4	3	2	23	99	18300	6	
A	013	23.00	32.00	25	2.3	15	-2	24	110	31200	4	
R	ASY	23.00	32.00	DETECTION LIMIT IS PRECEDED BY A MINUS SIGN								
A	013	32.00	41.00	10	2.2	10	-2	21	143	18800	2	
A	013	41.00	50.00	10	1.7	-2	3	22	120	13700	-1	
A	013	50.00	59.00	5	1.6	3	2	20	111	14600	-1	
A	013	59.00	68.00	15	1.8	4	2	25	111	11100	1	
A	013	68.00	77.00	10	1.6	2	-2	24	115	13400	4	
A	013	77.00	86.00	10	1.6	4	-2	17	105	35900	-1	
A	013	86.00	95.00	10	1.5	-2	5	15	68	36100	2	
A	013	95.00	104.00	15	2.0	5	2	20	100	44000	5	
A	013	104.00	113.00	10	1.2	2	3	12	52	20600	3	
A	013	113.00	122.00	10	1.2	2	-2	11	43	23100	-1	
A	013	122.00	131.00	15	1.1	4	3	13	43	52400	5	
A	013	131.00	140.00	15	1.3	3	-2	12	48	24500	5	
A	013	140.00	149.00	10	0.5	-2	2	6	14	17800	1	
A	013	149.00	158.00	10	0.7	-2	2	10	16	19100	2	
A	013	158.00	167.00	15	0.8	2	-2	11	97	29500	20	
A	013	167.00	176.00	5	0.9	3	-2	15	61	34600	4	
A	013	176.00	185.00	10	1.3	7	3	20	67	38100	-1	
A	013	185.00	194.00	5	0.9	4	5	16	77	36600	-1	
A	013	194.00	205.00	15	1.1	5	2	13	48	24400	4	
A	013	205.00	212.00	10	0.9	7	5	17	36	35300	-1	
A	013	212.00	221.00	10	1.0	5	2	14	40	48700	-1	
A	013	221.00	230.00	5	1.4	4	2	18	35	42500	2	
A	013	230.00	239.00	5	1.3	3	-2	18	58	51200	-1	
A	013	239.00	248.00	10	0.9	2	2	10	38	30800	4	
A	013	248.00	257.00	5	0.8	3	2	7	34	41000	8	
A	013	257.00	266.00	105	2.1	2	-2	26	59	49500	2	
A	013	266.00	275.00	50	1.4	5	-2	25	60	47000	7	
A	013	275.00	284.00	35	1.3	24	3	24	49	42000	-1	
A	013	284.00	293.00	25	1.0	14	2	21	41	46300	7	
A	013	293.00	294.74	25	0.9	10	-2	17	30	45800	4	
R	ASY	293.00	294.74	END OF WCDH021								

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
WHITING CR PORPHYRY MO-CU DEPOSIT BC

FORMAT VERSION : 6802

DRILLHOLE/TRAVERSE : WCDH022	COLLAR ELEVATION:	2600.00	AZIMUTH(DEG) :	0.00	GEOLOGGED BY : DTC +
TOTAL DEPTH/LENGTH : 291.34	NORTHING(- IF S):	3373.00	VERTICAL ANGLE :	-90.00	DATE (YY/MM/DD): 800927
CORE/HOLE DIAMETER : NQ	EASTING (- IF W):	2555.00	CO-ORD SYSTEM :	MAP	PROJECT NUMBER : 4942

SEQ. NO OF SURVEY DATA	LENGTH FROM COLLAR TO SURVEY POINT	AZIMUTH (DEG)	VERT. ANGLE (DEG)
1	291.34	0.00	-90.00

K E Y	F L A G	- I N T E R V A L - FROM	TO	INT	CORE RECOV- ERY (.)	T- M O D	% M I X	ROCK TYPE	TYPI- FYING MIN TM	TH MAT	TEX- TURES TX 1	TX 2	GRAIN CHARACS F	C	%	M	TOTAL FRAC DEN	PGI /RI	STRUCTUR-1 T	ID	STK AZM	DIP RT	ALTERATION MINS H A	H A	H A	H A	H A	ORE-TYPE MINS ANY MIN	H A	H A	H A	ANY MIN	SUMMARY ALT -	ORE -	-	-
K E Y	F L A G				ROCK QUAL DESIG	FM AGE		EN- VIR	LC- 3 COL		3	4	S O R	R N D	H P C	/	M L		2	ID	STK AZM	DIP RT	KF H STRUCTUR-2	MU H A	CL H A	EP H A	HE H A	XX H A	PR H A	MO H A	SL H A		1 2		1 2
/		0.00	13.72	13.72				OVER										P																		
L	OVB																																			
R		0.00	13.72		CASING TO 13.72 M.																																
/		13.72	17.00	3.28	272			FBPP					2	5	4	5		P												<(	D(		LI	0		
L	DYK				61				5A						0								P.	P-								C)		0		
R		13.72	20.00		BIOTITE-FELDSPAR PORPHYRY IS SLIGHTLY ALTERED, BIOTITE PHENO. IS																																
R		13.72	20.00		UNALTERED, LIMONITE COATING ON FRACTURED SURFACE																																
/		17.00	20.00	3.00	170			FBPP					2	5	4	5		P												<(	D(		LI	0		
L	DYK				14				5A						0								P.	P-								C)		0		
/		20.00	23.00	3.00	210			FBPP					2	5	4	5		P												<(	D(		LI	0		
L	DYK				42				5A						0								P.	P-								C)		0		
/		21.70	23.00	1.30			3	QZPP					2	4	3	5		R					<(							<-	00		LI	4T		
L	WTH								YO														EX	00								C)		4		
/		23.00	26.00	3.00	199			QFPP					2	4	3	5		P		V6		55														
L	WTH				27				YO						0																				3		
R		23.00	26.00		QZ PORPHYRY IS INTENSELY WEATHERED, LEACHING REMOVED ALL SULFIDE																																
R		25.00	26.00		S AND 10 PHENO.																																
/		26.00	29.00	3.00	278			QFPP					2	4	3	5		P		V6		55	V*		/											
L					96				RO						0								E)												7		
/		29.00	32.00	3.00	300			QFPP	QZ PF KF				2	4	2	5		P					<)							<(	D.		LI	4F		
L	WTH				54				7A						0								P*									C*		10		
R		29.00	32.00		QZ-FELDSPAR PORPHYRY CONTAINS 10 PLAG. PHENO., 5 QZ PHENO.,AND																																
R		29.00	32.00		LESS THAN 5 KF PHENO.																																

KEY	F-L- G	FROM	TO	INT	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 QM2	TX TX	F S	C R	% B	M O	TFDM SML	RI 2	1 ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/		32.00	35.00	3.00	290		QFPP	QZ	PF	KF		2	4	2	5		P				<)		/			<*	00			LI	QF
L	WTH				50			7A							0							P)								C>	20
R		32.00	35.00		QZ VEINS ARE VOID OF ANY MINERALIZATION																											
/		34.40	34.70	0.30		1	QZMZ	PF	KF	BI							R				00					00					00
L	DYK							YG	QZ	HB																					
/		35.00	38.00	3.00	248		QFPP					2	4	3	5		P				<)					<-				LI	QL
L	WTH				58			7A														P*								C*	13
/		38.00	41.00	3.00	256		QFPP					2	4	3	5		P				<)					<-				LI	QL
L	WTH				43			7A														P*								C)	10
R		38.00	47.00		LIGHT GREY QFPP WEATHERS RED-ORANGE																											
/		41.00	44.00	3.00	280		QFPP					2	4	3	5		P				<)					<-				LI	QL
L	WTH				74			7A														P*								C*	18
/		44.00	47.00	3.00	230		QFPP					2	4	3	5		P				<)					<-				LI	QL
L	WTH				50			7A														P*								C*	11
/		47.00	50.00	3.00	268		QFPP	QZ		PF1		2	5	4	6		P		V6	85	V)		/			<*				LI	QL
L	WTH				34			7A		KF					0							P-								C*	10
R		47.00	50.00		QZ PHENO. (30 OF RX.) AVE. SIZE 3MM., CROWDED BUT OPEN TEXTURE																											
R		47.00	50.00		SUPPORTED BY GROUNDMASS																											
/		50.00	53.00	3.00	300		QFPP	QZ		PF1		2	5	4	6		P		V6	85	V+		/			<*				LI	QL
L	WTH				43			7A		KF					0							P-								C*	12
/		53.00	56.00	3.00	272		QFPP	QZ		PF1		2	5	2	6		P		V6	85	<+		/			<*				LI	QL
L	WTH				32			7A		KF					0							P*								C*	20
/		56.00	59.00	3.00	220		QFPP	QZ		PF1		2	5	4	6		P		V6	85	V)		/			<*				LI	QL
L	WTH				30			7A		KF					0							P-								C*	10
/		56.83	59.00	2.17		8	QZMZ										P				00		P*			00	D.				IT
L	DYK							8A														P.	P-								0
/		59.00	62.00	3.00	197		QFPP										P				<*		P(			<-	D-				ST
L	WTH				24			7A														P-									3
/		59.00	60.50	1.50		5	QZMZ										R				00										IT
L	DYK							8A															P-									0
R		56.83	60.50		QZ MONZONITE DYKE IS POST MINERALIZATION, PY IS ACCESSORY MIN.																											
/		62.00	65.00	3.00	248		QZMZ										P				<*		P(			<.	D-				ST
L	DYK				44			7A														P-									3
/		62.00	62.90	0.90		2	QFPP										R				V)		/			<-					ST
L	WTH							8A																							15
/		65.00	68.00	3.00	277		QFPP					2	4	1	5		P				<*		P(			<-	1*				ST
L	WTH				20			6A							0							P-						D.			12

K E Y	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV ---.--	MD	%	ROCK	TM	TM	QM1	TX	TX	F	C	%	M	TFDM	RI	1 2	ID	AZM	DIP	QZ	BI	CY	CR	MG	GY	PY	CP	GL	YY	F	I	Z	I
					R Q D	AGE		EV	RQ	LC	TM	QM2	TX	TX	S	R	S	O	SML			ID	AZM	DIP	KF	MU	CL	EP	HE	XX	PR	MO	SL					
R		65.00	68.00					END OF WEATHERING ZONE (LIMONITE COATING) AT 68.30 M.																																
R		65.00	68.00					90 OF PY REMAINED UNWEATHERED BELOW THE WEATHERING ZONE																																
R		67.30	67.67					QZMZ DYKE FROM 67.3 TO 67.67 M.																																
/		68.00	71.00	3.00	270			QZPP	QZ		PF			2	4	1	4		P					<*			<.	D*					5T				
L					22				7A		KF						0								P(				D/				10				
R		68.00	71.00					AMOUNT OF VUGS DECREASES TOWARDS BOTTOM OF THE WEATHERING ZONE.																																
/		71.00	74.00	3.00	210			QFPP	QZ	PF				2	4	1	4		P					<+	/		<.	D*					5F				
L					0				7A								0								P-				D.				26				
/		74.00	77.00	3.00	238			QFPP	QZ	PF				2	4	1	4		P					<+	/		<.	D*				C(	5F				
L					27				7A								0								P-				D.		C.		27				
/		74.90	76.50	1.60				MZPP	PF	KF	QZ			2	4	2	4		P					00				D.				00	00				
L	DYK								6A								0								P.				00		00		0				
R		74.90	76.50					QZ-FX MONZ PORPHYRY DYK FROM 74.9 TO 76.5 M.																																
/		76.50	77.00	0.50			1	QZMZ	PF	KF	BI								R						P*				00								
L	DYK								6A	QZ	HB																								0				
/		77.00	80.00	3.00	220			QZPP											P					<*			<=	D-				CC	5L				
L					0				8A																P.				D.		C.		9				
R		77.00	80.00					CORE BADLY BROKEN																																
/		77.30	77.50	0.20			=	MZPP	PF	KF	QZ								R					00		P-			00				00	0			
L	DYK								6A																							00		00				
R		78.50	79.00					QZ-FX MONZ PORPHYRY DYK FROM 78.3 TO 79 M.																																
/		80.00	83.00	3.00	263			QZPP											P					<(			<.	F(				CC	5F				
L					0				8A																							C=		5				
/		82.90	83.00	0.10			*	MONZ											R					00		P(		00	00			00	1T				
L	DYK								6A																		P*						00		0			
/		83.00	86.00	3.00	298			QZPP						2	4	1	5		P		V1		60	<)			<.	<*				CC	5F				
L					36				7A								0				V6		53									CC		40			
/		83.00	83.50	0.50			-	MONZ											R					00		P(		<.	00			00	1T				
L	DYK								6A																		P*						00		0			
/		86.00	89.00	3.00	255			QZPP						2	4	2	4		P					<*	/		<(	F*				CC	5F				
L					26				7A																P(						C.		9				
/		89.00	92.00	3.00	169			QZPP						2	4	2	4		P					<)		P*		<(	F*			CC	5F				
L					00				7A																	E*					<=	C.		12			
/		92.00	95.00	3.00	210			QZPP						2	4	2	4		P					<=	/		<*	D)				CC	5F				
L					15				7A																P(					D=	CC		4			
R		89.00	95.00					CORE IS BADLY BROKEN.																																
/		95.00	98.00	3.00	162			QZPP						2	4	2	4		P					<*	/		<(	F>	D.			C1	5B				
L					20				7A																P)	P*		D.			C*		10				

K	F	FROM -	TO -	INT	RECOV	MD	%	ROCK	TM	TM	QM1	TX	TX	F	C	%	M	TFDM	RI	I	ID	AZM	DIP	QZ	BI	CY	CB	MG	GY	PY	CP	GL	YY	F	I	Z	I
E	-L-	----.--	----.--	---.--	---.--	--	-	----	--	--	---	--	--	-	-	-	-	-----	---	-	--	---	---	--	--	--	--	--	--	--	--	--	--	-	-	-	-
Y	G				R Q D	AGE	EV	RQ	LC	TM	QM2	TX	TX	S	R	S	O	SML		2	ID	AZM	DIP	KF	MU	CL	EP	HE	XX	PR	MO	SL						
R		95.00	98.00					CHALCOCITE AS COATINGS AND FRACTUR FILLING WITH QZ VEINS AND CH-																																	
R		95.00	98.00					LORITE, RX IS MODERATELY BLEACHED AND ALTERED.																																	
/		98.00	101.00	3.00	170			QZPF						2	4	2	4		P					<(		/		<(	<)	00		CC	5F				
L					20				7A																P(						D.		C-		5			
R		98.00	101.00					SEVERE LEACHING AND CHLORITIZATION																																	
/		101.00	104.00	3.00	124			QFPP						2	4	4	5		P		V1		45	<-		P-								C		4L		
L					0				8A																P-								C.		4		
R		101.00	104.00					POOR RECOVERY AND BADLY BROKEN CORE																																	
/		104.00	107.00	3.00	198			QFPP						2	4	4	5		P		V1		45	<>		P-					D*			C		4L		
L					0				8A																E*						D-		C.		27		
/		107.00	110.00	3.00	180			QFPP						2	4	2	5		P					1*					<-	D*				C		4L		
L	WTH				0				7A								0								P(						D.		C.		16		
R		95.00	110.00					CORE IS BADLY BROKEN																																	
/		110.00	113.00	3.00	265			QFPP						2	4	2	5		P		V6		58	<=					<*	D*				00		4L		
L					0				7A								0				V3		50		P)	?					D-		00		38		
R		110.00	110.00					VUGS LEFT BY LEACHING DISAPPEARE AT 110 M., END OF WEATHERING,																																	
R		110.00	110.00					LEACH CAP.																																	
R		110.00	113.00					MO IS VERY F-GRAINED, DISSEMINATIONS AND MICROVEINS.																																	
/		113.00	116.00	3.00	300			QFPP						2	4	2	5		P		V3		64	<+		/			<)	D.			C		4L		
L					0				7A								0				V4		55		P(						<-		C.		24		
/		116.00	119.00	3.00	255			QFPP						2	4	2	5		P					<)					<-	<-				C		4L		
L					23				7A								0								P(	P-					D.		C.		14		
/		119.00	122.00	3.00	270			QFPP						2	4	4	5		P					<=					<*	D*				C		4L		
L					16				7A								0								P(	P.					D.		C.		27		
R		119.00	122.00					PYRITE IN BOXWORK AND DISSEMINATIONS, QZ VEINS ARE BARREN																																	
/		122.00	125.00	3.00	289			QFPP						2	4	2	5		P					1*					<-	D-				C		4L		
L					61				7A								0								P(	P*					D.		C.		25		
/		125.00	128.00	3.00	238			QFPP	QZ		KF			2	4	3	4		P		V6		65	<=		/			<*	D-						4L		
L					24				7A		PF						0								P-	P(					<.				30		
/		128.00	131.00	3.00	227			QFPP	QZ		KF			2	4	3	4		P		V3		70	<)		/	P-		<*	D*						4L		
L					45				7A		PF						0								P-	P.					<.				16		
/		131.00	134.00	3.00	223			QFPP	QZ		KF			2	4	3	4		P		V3		53	<=		00	00		<)	D-						4L		
L					30				6A		PF						0								P(	P(					<.				12		
/		134.00	137.00	3.00	221			QFPP	QZ		KF			2	4	3	4		P		V6		65	<(		/	P-		<*	D-						4L		
L					20				6A		PF						0								P-	00					<.				36		
/		137.00	140.00	3.00	212			QFPP	QZ		KF			2	4	3	4		P		V6		65	<*		/			<*	V(						4L		
L					26				6A		PF						0								P-	P(					<-				13		

K E Y	F -L-	F R O M -	T O -	I N T	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	TM QM1 QM2	TX TX	F TX	C TX	X S	M R	TFOM S O	RI SML	1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/		140.00	143.00	3.00	253		QFPP	QZ		KF		2	4	3	4		P		V6		43 V=		/			<*	D=			4L	
L					37			7A		PF					0								E*	0*					<.		39	
/		143.00	146.00	3.00	292		MZPP	PF	KF	BI .		2	4	7	5		P						X*	P(	P.		<=	D(			3F	
L	CN/				67			5A							C								P*	P(							0	
R		143.00	143.50		NO SHARP CONTACT BETWEEN QFPP AND MZPP, CONTACT ZONE FROM 143 TO																												
R		143.00	143.50		143.5 M. MZPP REFERS TO CROWDED MONZONITE, ALTER. PARTLY DESTRO-																												
R		143.00	143.50		YED THE ORIGINAL GRANULAR TEXTURE.																												
/		146.00	149.00	3.00	285		MZPP	PF	KF	BI .		2	4	7	5		P						X*	P(	P.		<(	D(			3F	
L					114			5A							C								P)	P(	P-						0	
R		146.00	149.00		SERICITE PARTLY REPLACED PLAG., KF IN GROUNDMASS																												
/		148.64	148.76	0.12		*	QFPP	PF	KF	QZ							R							00	00		<.	V=			00	
L	DYK							6A															00		00						0	
R		148.64	148.76		QZ-FX-MONZ PORPHYRY DYKE CUT BY PY-VEIN.																												
/		149.00	152.00	3.00	292		MZPP										P		V4				X(		<=	<=	<*	D=			3L	
L	DYK				81			5A																		D/					0	
/		152.00	155.00	3.00	248		MZPP										P		V4				X(		<.	00	<*	D=			3L	
L	DYK				34			5A																		00					0	
/		155.00	158.00	3.00	300		MZPP										P		V1		35		X=								3L	
L	DYK				52			5A															E(									
R		157.45	157.45		CONTACT BETWEEN MZPP ABOVE AND QFPP BELOW AT 157.45 M.																												
/		157.45	158.00	0.55		2	QFPP	QZ	PF	KF		2	4	3	5		R					<=		/	00		<=	<(			4L	
L	CN/							7A							0								P*	00							5	
/		158.00	161.00	3.00	242		QFPP				RB						P		V6		50 <=							D=			4L	
L					15			7A															E*						<.		40	
/		161.00	164.00	3.00	270		QFPP				RB						P		V5		53 V=			?				D=			4L	
L					21			7A											V6		40		E*						D=		48	
/		164.00	167.00	3.00	235		QFPP				RB	2	4	3	5		P		V6		80 V=			?	P-		<(	D(			4L	
L					29			7A							0				V5		84		P*						D=		45	
/		167.00	170.00	3.00	300		MZPP					2	4	5	5		P		V1		65 00		U.	/	P-		<(	<=			3T	
L	DYK				99			5A							0				V4		67		P.	P-					00		0	
/		167.84	170.00	2.16		3	QFPP										R					V+									4L	
L	CN/							7A															P*	00					D.		15	
R		167.84	170.00		NO SHARP CONTACT VISIBLE BETWEEN QZ-FX PORP. AND PORP. MONZ.																												
/		170.00	173.00	3.00	287		MZPP				EQ						P							/			<(	D=				
L	CN/				132			5A															P-	P.							3T	
/		170.84	171.32	0.48		)	QFPP										R		V5		65 V)										4T	
L								7A															P(						S.		10	

K F Y	F -L- G	FROM -	TO -	INT	RECOV RQD	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 TM	QM2	TX TX	F TX	C S	% R	M S	O	TFDM SML	RI	1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
R		172.32	173.00				QFPP FROM 172.32 TO 173 M.																														
/		173.00	176.00	3.00	250		QFPP												P		V5		80	V+		/	<*		<(	D-				4T			
L					47			7A																	E)						<.			28			
/		175.35	175.80	0.45			) MZPP												R					00	/		00		<-	D.			3T			
L	DYK							SA																	P.	P-					00			0			
/		176.00	179.00	3.00	257		QFPP						2	4	2	4			P		V5		75	<=		P.	P*		<(	<-				4L			
L					46			8A								0									P-						<-			45			
/		179.00	182.00	3.00	293		QFPP						2	4	2	4			P		V5		60	<=		P.	P*		<(	D.				4L			
L					37			8A								0									P-						<-			34			
R		179.00	182.00		95		OF QZ-MO VEIN HAS NO PY IN IT.																														
/		182.00	185.00	3.00	273		QZPP	QZ		PF			2	4	1	4			P		V1		80	<+					<(	<(	D-			5F			
L					101			8A		KF						0									P*						D-			30			
R		182.00	185.00		QFPP IS SIMILAR TO QFPP EXCEPT FINER GRAINED, ALTER. IS MORE IN-																																
R		182.00	185.00		TENSE.																																
/		185.00	188.00	3.00	258		QZPP	QZ		PF			2	4	1	4			P		V1		80	<)		P.			<(	<(	00			5F			
L					165			8A		KF						0									P*						E-			17			
/		188.00	191.00	3.00	277		QZPP	QZ		PF			2	4	1	4			P		V5		35	<+					<(	<(	D-			5F			
L					185			8A		KF						0									P)	/					<(			33			
/		191.00	194.00	3.00	257		QFPP						2	4	3	5			P		V5		53	<=		?	P-		P-					5B			
L					69			7A								0									P*	P-					<-			38			
/		194.00	197.00	3.00	260		QFPP						2	4	3	5			P		V6		70	<=		00	P-		<(					5L			
L					77			8A								0					V2		43		P*	P-					<.			34			
/		197.00	200.00	3.00	266		QFPP						2	4	3	5			P		V5		53	<=		?	P-		P-	D.				5B			
L					83			8A								0									P*	P-					S-			40			
/		200.00	203.00	3.00	242		QFPP						2	4	2	4			P					<+					<-	D(				5F			
L					32			8A								0									P*						<.			27			
/		203.00	206.00	3.00	278		QFPP				VG		2	4	4	5			P		V5		60	<+					<-	D(	D.			5F			
L	CN/				113			8A								0									P*						<.			32			
R		205.27	205.27		CONTACT BETWEEN QFPP ABOVE AND MONZ BELOW, AT 205.27 M.																																
/		205.27	206.00	0.73			+ MZPP	PF	KF	HB	EQ		2	4	7	5			P					00	V.	P.			V.	D.	00			3T			
L	DYK							SA								0									P-	P(					00			0			
/		206.00	209.00	3.00	263		MZPP												P		V4		60				P-	Q*	<(	D-				3T			
L	DYK				57			6A																										0			
/		209.00	212.00	3.00	245		QFPP				RB		2	4	3	5			P		V5		65	V+			P-		<(					4F			
L	CN/				119			8A																	P(	Q.					<(			33			
R		209.00	209.00		CONTACT ZONE (0.1 M.) BETWEEN MZPP AND QFPP																																

K E Y	F -L- G	F R O M	T O	I N T	RECOV R Q D	MD AGE	X EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	X S	M O	TFDM SML	RI	I 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/		212.00	215.00	3.00	265			QFPP				<<		2	4	3	5		P		V5		65	V+			<-		<(					4F
L					174				8A								0								P(	Q.				<-				45
/		215.00	218.00	3.00	237			QFPP				RB		2	4	3	5		P		V6		55	V+			P-		<(					4F
L					196				8A								0								P(	Q.				<(				31
/		218.00	221.00	3.00	300			QFPP				RB		2	4	4	5		P		V5		65	V+			P-		<(					4F
L					123				8A								0								P(	P.				<.				50
/		221.00	224.00	3.00	274			QFPP				RB	VG	2	4	4	4		P					V1		?	P.		<(	D-				5L
L					14				8A								0								P*	Q.				<-				58
/		224.00	227.00	3.00	246			QFPP				RB	VG	2	4	4	4		P		V5		60	V1		?	P.		<(	D.				5L
L					47				8A								0								P(	Q.				<-				42
/		227.00	230.00	3.00	268			QFPP				RB	VG	2	4	5	5		P		V6		50	V1		?	<.		<(	D-				5L
L					60				8A								0								P*	Q.				<.				50
/		230.00	233.00	3.00	242			QFPP				RB	VG	2	4	4	4		P					V+		?	<-		<*	D-				5L
L					20				8A								0								P*	Q.				D.				30
/		233.00	236.00	3.00	300			QFPP				VG	VG	2	4	4	4		P					<)		?	<*		<-	D-	D.			3B
L					154				6G								0								P*	P5				00				10
R		232.70	234.50		INTENSE CHLORIC ALTER. OF QFPP FROM 232.7 TO 234.5 M.. MOST ORI-																														
R		232.70	234.50		GINAL TEXTURES ARE DESTROYED TO F-GRAINED SUGARY QZ-MS.																														
/		236.00	239.00	3.00	275			QFPP				RB	VG	2	4	4	4		P					<+		?	P-		<(	D-	00			4L
L					63				8A								0								P*	P-				<-				27
/		239.00	242.00	3.00	272			QFPP						2	4	4	5		P		V2		55	V=					<*	<(	D.			5L
L					92				7A								0							/	P-	P*				D.				50
R		239.00	242.00		QFPP IS INTENSELY ALTERED NEAR CONTACT WITH MZPP																														
/		242.00	245.00	3.00	252			MZPP	PF	KF	BI			2	4	6	5		P		V2		55		U-				<(	<-				3T
L	DYK				130				6G		HB						0								P.	P-								2
/		242.00	242.16	0.16			(	QFPP											R					<*	00	1				<.	D.			5L
L	CN/								7A																P-	P*								3
/		245.00	248.00	3.00	279			MZPP											P						U*				<(	D-				3F
L	DYK				146				6G																E-	P)								0
R		245.00	248.00	80	BI IS SECONDARY.																														
/		248.00	251.00	3.00	243			MZPP											P						X)				<(	D*				3F
L	DYK				133				6G																E-	P)								0
/		251.00	254.00	3.00	203			MZPP											P		DT		55		X)				<-	D*				3F
L	DYK				36				4A															E*		P*								
/	CN/	251.00	251.13	0.13			=	QFPP											R					<)	00		/			D-				5L
L									7A															00		00								3

K E Y	F -L- G	F R O M	- T O -	I N T	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	TM QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI P	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		254.00	257.00	3.00	300		QFPP				BR	VG						P				V+			F-		<(	D(				5F		
L					106			7A														P-	P*							<-			20		
R		254.00	257.00		SEVERAL ANGULAR FRAG. (5MM.TO 20MM.) AND MINOR MONZ DYKE (4MM.)																															
R		254.00	257.00		FROM 254 TO 257 M., LESS THAN 5 BY VOLUME. BRECCIATION CAUSED																															
R		254.00	257.00		BY MZPP DYKE?																															
/		257.00	260.00	3.00	280		QFPP				BR	VG						P				V)			F-		<(	D(				5F		
L					149			7A														P-	P*						00				10		
/		260.00	263.00	3.00	244		QFPP				VG	BR	2	4	4	5		P				<)					<*	D-				5L		
L	BRX				22			8A								0							P-										9		
R		260.00	263.00		QFPP CONTAINS FRAG. OF MZPP																															
/		261.00	261.20	0.20		=	MZPP						2	4	6	5		R				00	X*				00	00				3T		
L	DYK							4A								0							00	P)									0		
/		263.00	266.00	3.00	194		QFPP				VG	BR						P				<+			<.		<)	D-				5F		
L	BRX				42			8A															E-										17		
R		263.00	268.00		MZPP DYKE CARRIES QFPP FRAG (1 TO 3 CM.)																															
/		265.80	266.00	0.20		=	MZPP	4A										R				00	X)		00		<-	D.				3T		
L	DYK																																	0		
/		266.00	269.00	3.00	250		QFPP											P				<)			P-		<@	D.				5F		
L	BRX				79			7A															P*	P-									7		
R		266.00	269.00		QFPP CARRIES ANGULAR FRAG. OF MZPP DYKE																															
/		266.40	266.40	0.00		1	MZPP	4A										R		DB		53	00	X*								3L		
L	DYK																							00	P)									0		
/		269.00	272.00	3.00	295		QFPP				BR	VG						P				<)			P.		<-	D.				5L		
L	BRX				254			7A															P-										7		
/		270.80	272.00	1.20		4	MZPP											R				00	X*									3T		
L	DYK							4A															00	P*									0		
/		272.00	275.00	3.00	293		MZPP				BR	VG						P				<.			P.		<-	<.				5L		
L	DYK				228			4A															E.										2		
/		274.30	275.00	0.70		6	QFPP				BR	VG						R										F-	D.				5F		
L	BRX							7A															E@						D.				3		
/		275.00	278.00	3.00	260		MZPP				VG	BR						P					X)		P.		<*	D-			FL	8L		
L	BRX				97			4A														E.		P-							U-		0		
R		275.00	278.00		MZPP CARRIES QFPP FRAG. (3)																															
/		278.00	281.00	3.00	300		MZPP						2	4	7	5		P		V1		43		X*				<.	D.				8L		
L	DYK				178			5G								0							E(		S*		D-							0		
R		278.00	281.00		PY MICROVEINS WITH CL SELVAGES AND KF ENVELOPES																															
/		281.00	284.00	3.00	278		MZPP						2	4	7	5		P		V1		43		X*				<.	<(				8L		
L	DYK				188			5A								0							E(		S*		D-							0		

K E Y	F -L- G	F R O M -	T O -	I N T	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/ L	DYK	284.00	287.00	3.00	242 71		MZPP		5A									P	V1		50	E*	X(P)		<=		<=	<*	D.			8T			0
/ L	CN/	284.55	286.30	1.75		6	QFPP		7A		BR	VG						R	C/		54							F=	00			5T			
R		284.55	286.30		QFPP IS BRECCIATED, ANGULAR FRAG. (5 TO 25 MM.) OF MZPP																															
/ L	DYK	287.00	291.34	4.34	395 135		MZPP		5A									P	V1		55	<=	X(P)		P.		<=	<*				8L			2
R		276.00	291.34		CHLORITE REPLACES SECONDARY BIOTITE.																															

A UMM				%CU	%MOS2	%MOS2		
A LAB				MIN-EN	MIN-EN	MIN-EN	HASH	TOTAL
A MTH					EQUIV	ACTUAL		
A TYP				H-CORE	H-CORE	H-CORE		
A 012	13.72	17.00	1397	.008	.002			.010
A 012	17.00	20.00	1398	.008	.002			.010
A 012	20.00	23.00	1399	.009	.008			.017
A 012	23.00	26.00	1400	.007	.033			.040
A 012	26.00	29.00	1401	.006	.047			.058
A 012	29.00	32.00	1402	.007	.043			.050
A 012	32.00	35.00	1403	.006	.038			.044
A 012	35.00	38.00	1404	.006	.067			.073
A 012	38.00	41.00	1405	.005	.035			.040
A 012	41.00	44.00	1406	.001	.077			.078
A 012	44.00	47.00	1407	.008	.022			.030
A 012	47.00	50.00	1408	.006	.023			.029
A 012	50.00	53.00	1409	.008	.008			.016
A 012	53.00	56.00	1410	.008	.005			.013
A 012	56.00	59.00	1411	.022	.007			.029
A 012	59.00	62.00	1412	.064	.008			.072
A 012	62.00	65.00	1413	.023	.017			.040
A 012	65.00	68.00	1414	.028	.028			.056
A 012	68.00	71.00	1415	.013	.013			.026
A 012	71.00	74.00	1416	.015	.018			.033
A 012	74.00	77.00	1417	.055	.007			.062
A 012	77.00	80.00	1418	.058	.013			.071
A 012	80.00	83.00	1419	.036	.010			.046
A 012	83.00	86.00	1420	.026	.020			.046
A 012	86.00	89.00	1421	.028	.022			.050
A 012	89.00	92.00	1422	.053	.022			.075
A 012	92.00	95.00	1423	.042	.015			.057
A 012	95.00	98.00	1424	.142	.013			.155
A 012	98.00	101.00	1425	.100	.053			.153
A 012	101.00	104.00	1426	.131	.082			.213
A 012	104.00	107.00	1427	.040	.075			.115
A 012	107.00	110.00	1428	.024	.005			.029
A 012	110.00	113.00	1429	.028	.020			.048
A 012	113.00	116.00	1430	.019	.010			.029
A 012	116.00	119.00	1431	.029	.022			.051
A 012	119.00	122.00	1432	.019	.015			.034
A 012	122.00	125.00	1433	.026	.008			.034
A 012	125.00	128.00	1434	.020	.008			.028
A 012	128.00	131.00	1435	.031	.013			.044
A 012	131.00	134.00	1436	.034	.018			.052
A 012	134.00	137.00	1437	.056	.012			.068
A 012	137.00	140.00	1438	.033	.010			.043
A 012	140.00	143.00	1439	.126	.008			.134
A 012	143.00	146.00	1440	.018	.002			.020
A 012	146.00	149.00	1441	.010	.002			.012
A 012	149.00	152.00	1442	.049	.002			.051
A 012	152.00	155.00	1443	.066	.002			.068
A 012	155.00	158.00	1444	.036	.005			.041
A 012	158.00	161.00	1445	.012	.010			.022
A 012	161.00	164.00	1446	.013	.028			.041

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A	012	164.00	167.00	1447	.018	.013		.031
A	012	167.00	170.00	1448	.015	.003		.018
A	012	170.00	173.00	1449	.037	.005		.042
A	012	173.00	176.00	1450	.070	.013		.083
A	012	176.00	179.00	1451	.010	.040		.050
A	012	179.00	182.00	1452	.020	.028		.048
A	012	182.00	185.00	1453	.025	.015		.040
A	012	185.00	188.00	1454	.009	.018		.027
A	012	188.00	191.00	1455	.070	.023		.093
A	012	191.00	194.00	1456	.017	.025		.042
A	012	194.00	197.00	1457	.011	.043		.054
A	012	197.00	200.00	1458	.010	.020		.030
A	012	200.00	203.00	1459	.014	.017		.031
A	012	203.00	206.00	1460	.012	.007		.019
A	012	206.00	209.00	1461	.055	.008		.063
A	012	209.00	212.00	1462	.007	.038		.045
A	012	212.00	215.00	1463	.016	.030		.046
A	012	215.00	218.00	1464	.017	.010		.027
A	012	218.00	221.00	1465	.016	.020		.036
A	012	221.00	224.00	1466	.018	.025		.043
A	012	224.00	227.00	1467	.019	.053		.172
A	012	227.00	230.00	1468	.018	.018		.036
A	012	230.00	233.00	1469	.009	.023		.032
A	012	233.00	236.00	1470	.033	.013		.046
A	012	236.00	239.00	1471	.017	.010		.027
A	012	239.00	242.00	1472	.023	.012		.035
A	012	242.00	245.00	1473	.055	.005		.060
A	012	245.00	248.00	1474	.033	.003		.036
A	012	248.00	251.00	1475	.019	.013		.032
A	012	251.00	254.00	1476	.014	.003		.017
A	012	254.00	257.00	1477	.036	.035		.071
A	012	257.00	260.00	1478	.020	.017		.037
A	012	260.00	263.00	1479	.025	.007		.032
A	012	263.00	266.00	1480	.055	.008		.063
A	012	266.00	269.00	1481	.038	.010		.048
A	012	269.00	272.00	1482	.029	.007		.036
A	012	272.00	275.00	1483	.053	.005		.058
A	012	275.00	278.00	1484	.084	.003		.089
A	012	278.00	281.00	1485	.060	.002		.062
A	012	281.00	284.00	1486	.118	.008		.126
A	012	284.00	287.00	1487	.112	.005		.117
A	012	287.00	291.38	1488	.039	.002		.041
R	ASY	13.72	291.38	AVE. CU=.034 %				
R	ASY	23.00	109.00	AVE. MO=.018 %				
R	ASY	176.00	231.00	AVE. MO=.015 %				

				PB AU	PM AG	PM W	PM SN	PM PB	PM ZN		HASH	TOTAL
A UMM				MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN			
A LAB				AQR-AA	PCL-AA	COLOR	COLOR	PCL-AA	PCL-AA			
A MTH				COMPOS	COMPOS	COMPOS	COMPOS	COMPOS	COMPOS			
A TYP												
A 013	17.00	26.00		20	0.7	4	2	26	24	1500	11	
A 013	26.00	35.00		20	0.5	2	-2	17	11	1800	11	
R ASY	26.00	35.00	DETECTION LIMIT IS PRECEDED BY A MINUS SIGN									
A 013	35.00	44.00		20	0.5	2	2	9	7	1200	18	
A 013	44.00	53.00		25	0.8	-2	-2	8	8	1400	-1	
A 013	53.00	62.00		25	0.7	-2	2	10	8	2100	-1	
A 013	62.00	71.00		60	1.2	2	-2	15	13	16400	1	
A 013	71.00	80.00		10	0.9	2	2	19	33	21500	4	
A 013	80.00	89.00		5	0.8	-2	2	13	32	14900	-1	
A 013	89.00	98.00		20	0.7	2	-2	9	58	18000	-1	
A 013	98.00	107.00		15	1.3	2	-2	10	14	15400	-1	
A 013	107.00	116.00		30	0.8	2	2	7	26	11300	3	
A 013	116.00	125.00		25	0.9	-2	-2	8	39	12300	1	
A 013	125.00	134.00		50	0.8	-2	2	7	36	14500	-1	
A 013	134.00	143.00		55	1.0	-2	2	6	86	16200	7	
A 013	143.00	152.00		20	1.2	3	4	11	174	23400	11	
A 013	152.00	161.00		25	0.9	2	3	10	32	39800	-1	
A 013	161.00	170.00		30	0.6	-2	2	8	15	10900	1	
A 013	170.00	179.00		40	0.8	-2	-2	10	30	33600	-1	
A 013	179.00	188.00		10	0.7	2	-2	6	24	9100	-1	
A 013	188.00	197.00		5	0.8	3	2	9	21	14200	3	
A 013	197.00	206.00		5	0.6	2	-2	9	41	11600	9	
A 013	206.00	215.00		50	0.7	2	-2	8	116	10700	-1	
A 013	215.00	224.00		25	0.5	2	2	6	15	4600	5	
A 013	224.00	233.00		15	0.6	-2	2	7	12	5100	11	
A 013	233.00	242.00		10	0.8	-2	-2	7	54	5800	18	
A 013	242.00	251.00		5	0.8	-2	-2	6	27	19600	-1	
A 013	251.00	260.00		40	0.6	2	-2	9	24	12000	-1	
A 013	260.00	269.00		30	0.7	-2	3	9	22	10300	-1	
A 013	269.00	278.00		10	0.7	-2	2	8	23	11400	-1	
A 013	278.00	287.00		30	0.9	2	2	10	25	17800	-1	
A 013	287.00	291.38		15	0.9	-2	-2	10	29	15400	3	
R ASY	287.00	291.38	END OF WCDH022									

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
WHITING CK PORPHYPY MO-CU DEPOSIT BC

FORMAT VERSION # 6B02

DRILLHOLE/TRAVERSE # : WC0H023	COLLAR ELEVATION: 1620.00	AZIMUTH(DEG) : 0.00	GEOLOGGED BY # : DTC +
TOTAL DEPTH/LENGTH # : 316.99	NORTHING(- IF S): 3485.00	VERTICAL ANGLE # : -90.00	DATE (YY/MM/DD): 801000
CORE/HOLE DIAMETER # : NQ	EASTING (- IF W): 2695.00	CO-ORD SYSTEM # : MAP	PROJECT NUMBER # : 4942

SEQ. NO OF SURVEY DATA	LENGTH FROM COLLAR TO SURVEY POINT	AZIMUTH (DEG)	VERT. ANGLE (DEG)
1	316.99	0.00	-89.00

K E Y	F L A G	- I N T E R V A L - FROM	TO	INT	CORE RECOVERY	T= FM AGE QUAL DESIG	% M O D	M I X	ROCK TYPE	TYPIFYING MIN TM	MIN TM	MAT 1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	% M	DEN	FRAC /RI	PGI MI	STRUCTUR-1 T	ID	STK	DIP	ALTERATION MINS H A	H A	H A	H A	H A	ORE-TYPE MINS ANY MIN H A	H A	H A	ANY MIN	SUMMARY ALT F	ORE I	Z	I
K E Y	F L G	ROCK QUAL DESIG		EN= VIR	Q LC= COL	3				3	4	QM2	TX 1	TX 2	S R R	O N D	H / P	C	M L		2	STRUCTUR-2	ID	STK	DIP	KF H A	MU H A	CL H A	FP H A	HE H A	XX H A	PR H A	MO H A	SL H A		1 2		1 2
/		0.00	19.20	19.20	0				OVER											P																		
L	OVB				0																																	
R		0.00	19.20		CASING TO 18.28 M., CORING STARTED AT 19.2 M.																																		
/		19.20	22.00	2.80	224				QZPP	QZ		KF	VG		2	4	3	4		P					<=			<(	D.			LI					
L	WTH				0					7A								0							P(							C+	34				
R		19.20	22.00																																			
R		19.20	28.00		CORE IS BADLY BROKEN FROM 19.2 TO 28.0 M.																																		
/	C/	22.00	25.00	3.00	230				TFXL						2	3	2	3		P		V4	40	<(	P=	P=		<)	D=			LI	SL				
L								HZ	VC	HF	3A							0							E(						<.	C)	5				
R		22.00	22.00		CONTACT ZONE BETWEEN QZPP AND TFXL AT 22.0 M.																																		
/		25.00	28.00	3.00	280				TFXL						2	3	2	3		P		V4	40	V*	P=	P=		<)	D=			LI	SL				
L	WTH				0			HZ	VC	HF	3A							0							E(	P.					<.	C)	10				
/		28.00	31.00	3.00	237				TFXL						2	3	2	3		P		V5	68	V)	P=	P=		<*	D(			LI	SL				
L	WTH				0			HZ	VC	HF	3A							0							E*	PC					S=	C(	15				
R		28.00	31.00		MO-SELVAGES-RIBBONS WITH QZ VEINS																																		
/		31.00	34.00	3.00	245				TFXL		<<				2	3	2	3		P		V6	67	V*	P=	<=		<)	<(			LI	SL				
L					0			HZ	VC	HF	3A							0				V4	57		E(						<.	C)	10				
R		31.00	34.00		PY MICROVEINS WITH MS,ENVELOPES, CUT BY GY ANN CB MICROVEINS.																																		
/		34.00	37.00	3.00	260				TFXL						2	3	2	3		P		V5	70	V)	P=	P=		<*	D(			LI	SF				
L					16			HZ	VC	HF	3A							0							E(						S.	C=	18				
/		37.00	40.00	3.00	273				TUFF						2		0			P					<=		/	<(		<*	<(				SF			
L					0			HZ	VC		4A							0							P*	P=		/			D.				4			
/		40.00	43.00	3.00	224				TUFF						2		0			P		V5	80	V*		/	<(		<*	<(	S=			SF	BT		
L					0			HZ	VC		4A							0							?	F*	P=		/			D.				7C		

```
K  F  FROM - TO -  INT 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
F -L- ----.-- ----.-- ---.-- ---.-- -- - ---- -- -- --- -- -- - - - - ---- --- - -- --- --- -- -- -- -- -- -- -- -- --  - - - -
Y  G                        R Q D  AGE EV RQ LC TM QM2 TX TX S R S O SML      2 ID AZM DIP KF MU CL EP HE XX PR MO SL

R        40.00   43.00       PY MICROVEINS CUT QZ-MO VEINS WITH MU-ENVELOPE

/        43.00   46.00  3.00 275        TFXL          SK << 2 4 1 4       P    V6      60 V)     / <(    <) <(          5F 00
L                         0    HZ VC    4A            VV            0                      00 P* P-    00       S.          10

/        46.00   49.00  3.00 287        TFLP          FB VV 2 4 3 6       P    FB      48 <)     / <*    <* <-          5F
L                         0    HZ VC    4A                          0            V1      67  ? P* P-     /       D.           9

/        49.00   52.00  3.00 215        TFLP          FB    2   0             P                V)     / <(    <* V(          5F
L                        13    HZ VC    5G                          0                      P. P* P(     /       S-           9

/        52.00   55.00  3.00 234        TFXL                  2 4 2 4       P                V*    P. <(    <* D*          5F BT
L                        17    HZ VC    3A                          0                      00 E) P-     /       S.           4
R        52.00   55.00       CORE IS BADLY BROKEN

/        55.00   58.00  3.00 142        HORN          VG BX 2             P    V2      60 V-     ? <-    <* F) D.    BO 5F
L                         0    HZ       2A                          0                 E* P-    C.              U.     3
R        55.00   58.00       PY BOXWORK IN FRACTURES AND IN QZ VEINS, TRACE OF BORNITE AND
R        55.00   58.00       CHALCOPYRITE IN PY-QZ VEINS

/        58.00   61.00  3.00 224        TFXL          << VG 2             P    V1      80 V(     ? <-    <* V* 00    BO 5F
L                         0    HZ VC HR 5A                  0                      E* P-    00       S.     U.     8
R        58.00   61.00       PY VEINS AND BOXWORK ARE COMMON, TFXL IS WELL FRACTURED
R        58.00   61.00       CORE IS BADLY BROKEN

/ F/     61.00   64.00  3.00 230        TFXL          << VG 2             P    V1      53 V-     ? P.    <( 3+ D.    BO 5L
L                         0    HZ VC    5A            RB            0                 E* P-    C.       S-     U.     9
R        62.79   63.00       POSSIBLE FAULTING, ROCK IS SHEARED, SOFT AND VUGGY, MO RIBBONS
R        61.00   64.00       IN QZ VEIN.

/        64.00   67.00  3.00 224        TFXL          VV BX 2             P    V5      50 V-     / <-    <* F) D.    BO 5F
L                         0    HZ VC    4A                          0            V1      70    E* P-    C.       S.     U.     8
R        64.00   67.00       CORE IS BADLY BROKEN,

/        67.00   70.00  3.00 160        TFXL          VV BW 2             P    V2      60 V*     ? <-    <* 3) D.    BO 5F
L                         0    HZ VC    4A                          0                 E* P-    C.       00     U.     7
R        67.00   70.00       POOR CORE RECOVERY.

/        70.00   73.00  3.00 270        TFXL          VG BX 2 4 3 5       P    V2      60 V-     ? <(    <* F) D.    BO 5F
L FRC                    20    HZ VC    4A                          0                 E* P-    C.       /      U.     6
R        70.00   73.00       ROCK IS WELL FRACTURED, FAULT?

/        73.00   76.00  3.00 294        TFXL          VG BX 2 4 3 4       P    V5      70 V*     ? <*    <* <* D.    BO 5F
L                       117    HZ VC    3G                          0                 E* P.    C.       S.     U.    10

/ DYK    76.00   79.00  3.00 249        FRPP KF PF HB <<    2 4 3 6       P                <-       <.    <( D-          2L
L                        42          DC 5A BI                    0                 PC 0*                                 3
R        76.00   79.00       CL REPLACES 90  OF HB AND BI IN FRPP, 80  OF KF IS IN GROUNDMASS

/ C/     77.40   79.00  1.60          + TFXL                2 4 1 4       R                <-       <-      <-             SL
L                        HZ       4A                          0                                                            2
```

K F Y	F -L- G	FROM -	TO -	INT	RECOV RQD	MD % AGE	ROCK EV	TM TM PO	QM1 QM2 LC	TX TX TM	TX TX QM	F C S	% M R	S O S	TFDM SML	RI 1 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I -	Z I -
/ C/		76.00	76.15	0.15		+ HZ	TFXL		4A							R									<*	<-			5L		
L															0														1		
R		76.15	76.30	CONTACT BETWEEN TFXL AND FBPP DYKE, CONTACT IS SHEARED.																												
/		79.00	82.00	3.00	253		TFXL									P				<.		P.	<-	<*	D.				5T		
L					31	HZ		4A												E-	/								4		
/	DYK	80.70	82.00	1.30		X	FBPP					2 4 3 6				R		DT	70	V-		?						2L		
L								5A							0					P(	P*								4		
R		80.70	80.70	TOP OF FBPP DYKE AT 80.7 M.																												
/		82.00	85.00	3.00	284		TFXL									P				<-		/	<-	<*	<C				8L		
L					0	HZ		4A												V(	E-					<.			6		
/	DYK	82.00	82.67	0.67		2	FBPP									R				00		0		<-					2T		
L								4A												00		P*				00			0		
/	DYK	85.00	88.00	3.00	280		FBPP					2 5 3 6				P		DT	45	<-		P(	<.	<*	<-				2T		
L					47			4A							0			V1	55		E(	P*							3		
/	C/	85.00	85.47	0.47		1	TFXL									R		V6	45			P.			D.						
L						HZ	HR	3A																		<.			4		
R		85.00	85.47	CONTACT MARKED BY QZ VEIN, TFXL IS WELL FRACTURED																												
/		88.00	91.00	3.00	240		HORN					2				P		V1	55	<)		P-	<.	<*	<*				8T		
L					75	HZ		3A							0					<-	E)	S.				P.			12		
/	DYK	88.00	88.84	0.84		3	FBPP									R		DB	70	00				<-	D.				2L		
L								4A												00	00	P*				<.			0		
/		91.00	94.00	3.00	300		HORN			VV		2				P		V1	65	>(		E-	<-	<(	<(				8F		
L					102	HZ		3A							0			V5	75	E>	PC	P-				S.			4		
R		91.00	94.00	ALL VEINS AND MICROVEINS HAVE KF ENVELOPES UP TO 20 MM. WIDE ON																												
R		91.00	94.00	PY VEINS, DENSITY OF VEINS DECREASES WITH INCREASE WIDTH OF VEIN																												
R		91.00	94.00	S APPROACHING THE CONTACT WITH QFPP.																												
/		94.00	97.00	3.00	234		QFPP	KF	QZ=	VV		2 4 2 5				P				<=			P-	<(	D.				8L		
L					103			8A	PF1						0					S-	E)	X.				<-			38		
R		94.00	97.00	KF IN GROUNDMASS AND MINOR XL. QZ,PF AS PHENO.																												
/	C/	94.00	94.17	0.17		+ HZ	HORN		3A							R		C/	20	<(		/	<.	<(	<-				8T		
L																				F*	E-	P-				00			3		
R		94.17	94.17	SHARP CONTACT BETWEEN HORN AND QFPP AT 94.17 M.																												
/		97.00	100.00	3.00	288		QFPP			<<	VG	2 5 2 6				P		V6	58	<*	U.		P.	<-	D.				8F		
L					77			8A							0			V5	50	F(	E*	X*				<-			29		
R		94.00	97.00	QFPP IS SLIGHTLY ALTERED KF,QZ,AND PF ARE WELL PRESERVED. SECO-																												
R		94.00	97.00	NDARY BI REPLACED BY CHLORITE.																												
/		100.00	103.00	3.00	270		QFPP			<<	VG	P 5 3 6				P		V6	58	<)	U.	P(	P.	<-	V-			LI	8F		
L					130			8A							0			V5	50	F(	P*	X*				<.		C.	18		

K E Y	F -L- G	FROM -	TO -	INT	RECOV RQD	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 TM	QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	1 ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I	Z I
R		100.00	103.00		20		OF SECONDARY CHLORITE AND SERICITE IS ALTERED TO A YELLOWI-																											
R		100.00	103.00		SH CLAY. WEAK WEATHERING DUE TO FRACTURING BELOW ?																													
/		103.00	106.00	3.00	147		QFPP			VG	VG	2	5	2	6		P	V6		58	<+	U.		P.		<= D.					4F		
L	FRC				160			8A							0			V5		50	00	E*	X(						S.		14		
R		103.00	106.00		CORE IS BADLY BROKEN DUE TO INTENSE FRACTURING.																													
/		106.00	109.00	3.00	279		QFPP			<<	VG	2	5	2	6		P	V5		60	<+	U.		P.		<(D-					8F		
L					15			8A							0			V5		50	E(	E*	P(						S-		27		
R		106.00	109.00		80		OF QZ MICROVEINS ARE BARREN, MD IS VERY F-GRAINED.																													
R	F/	108.90	109.20		INTENSE FACTURING OR FAULTING ?																													
/	F/	109.00	112.00	3.00	245		QFPP			BR	VG	2	5	2	6		P	V6		58	<)	U.		P.		<= D.					8F		
L					70			8G							0			V5		50	E(	P)	X*						<=		21		
R		109.00	112.00		90		OF KF,PF ARE REPLACED BY MU AND CL, 70																OF THE ORIGINAL											
R		109.00	112.00		TEXTURE ARE DESTROYED																													
/		112.00	115.00	3.00	261		QFPP			<<	VG	2	5	2	6		P	V3		47	<+	U.		P.		<= D.					8F		
L					70			8A							0			V5		50	E(	E*	X*						<.		20		
/		115.00	118.00	3.00	290		QFPP					2	4	2	5		P	V3		70	V+		P*	F-		<* <=					4F		
L					18			8A							0			V5		35		P)	P(						<(		26		
R	F/	114.40	115.50		INTENSE FRACTURING AND BRECCIATION OF QFPP.																													
R		115.00	118.00		MD RIBBONS IN QZ-VEINS.																													
/		118.00	121.00	3.00	245		QFPP					2	4	2	5		P	V2		50	V+		P*	F-		<* F(					4L		
L					41			8A							0			V5		35		P)	P(						S.		25		
/		121.00	124.00	3.00	300		QFPP					2	4	2	5		P	V1		50	<)		P/	P.		<* <(					4F		
L					10			8A							0			V5		35	?	E*	P-						D.		21		
/		124.00	127.00	3.00	300		QFPP			VG		2	4	2	5		P	V3		70	V+		P*	F-		<* <)					4F		
L					58			8A							0			V5		35		E)	P.						<(		17		
R		124.00	127.00		SERICITE ENVELOPES ARE WIDE-SPREAD USUALLY ASSOCIATED WITH QZ-PY																													
R		124.00	127.00		VEINS																													
R		124.81	124.89		8 CM. SECTION FOR THIN-SECTION AT 124.85M.																													
/		127.00	130.00	3.00	289		QFPP			VG		2	4	2	5		P	V3		70	V+		00	F-		<= <*					4L		
L					130			8A							0			V5		35		E*	00						F.		19		
/		130.00	133.00	3.00	290		QFPP			VV	RB	2	4	2	5		P	V1		60	V+		P*	F-		<* <=					4F		
L					10			8A							0			<8		60		P(	P(						<-		20		
/		133.00	136.00	3.00	251		QFPP					2	4	2	5		P	V3		70	V+		P*	F-		<* <=					4T		
L					15			8T							0			V5		35		F(	X.						<(		16		
/		136.00	139.00	3.00	291		QFPP					2	5	2	6		P	V5		70	<+		?			<= D.					4T		
L					0			8T							0							E(							<(		22		
R		136.00	139.00		MD IN QZ-VEINS, MICROVEINS, AND DISSEMINATIONS. QZ AND PF PHENO-																													
R		136.00	139.60		ARE FARILY WELL PRESERVED.																													
/		139.00	142.00	3.00	288		QFPP			BW	VV	2	5	2	6		P	V5		88	V=		?		00	V*					4F		
L					16			8A							0							E)							S-		27		

K F Y	F -L- G	F R O M -	T O -	I N T	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 QM2	TX TM	TX TX	F S	C R	% S	M O	TFOM SML	RI 2	1 ID	AZM	DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
R		136.00	142.00		QZ-MO VEINS (V5) DO NOT CONTAIN PYRITE. PERVASIVE SERICITE AND																														
R		136.00	142.00		ENVELOPES ARE VERY COMMON.																														
/		142.00	145.00	3.00	255		QFPP				BW	VV	2	5	2	6	P		V1		85	<+	?		<-	V)				4T				
L					15			BA								0			V5		65		E(	X-		D.				<(		26			
/		145.00	148.00	3.00	300		QFPP				VV		2	5	2	6	P		V6		60	<1	/		<-	D.				4T				
L					83			BT								0			V5		75		E*	00		00				<(		50			
/		148.00	151.00	3.00	300		QFPP						2	5	2	6	P		V6		70	<+	?		<-	V(				4L				
L					85			BT								0			V1		65		E)							<-		53			
/		151.00	154.00	3.00	300		QFPP				VV		2	5	2	6	P		<1		70	V=	P-		<-	<(				4L				
L					65			7A								0							E+	X-						S.		40			
R		151.00	154.00		PY MICROVEINS CUT QZ VEINS AND MICROVEINS WITH LESS THAN 1 SE-																														
R		151.00	154.00		LVAGES.																														
/		154.00	157.00	3.00	287		QFPP				VV		2	4	2	4	P		V6		45	V=	/	P.	<-					4T				
L					37			7A			PP					0							E(	P-						<.		32			
/		157.00	160.00	3.00	296		QFPP				PP		2	4	2	4	P		<6		70	V=	/	P.	<-					4F				
L					152			BT			PP					0							E*	X)						<.		29			
/		160.00	163.00	3.00	280		QFPP				PP		2	4	2	4	P		V6		45	V=	/	P.	<(					4T				
L					46			BT			PP					0							E(	X-						D.		35			
/		163.00	166.00	3.00	247		QFPP				VV		2	4	2	4	P		V5		73	V+	/	P.	<-					4T		8T		
L					46			7A			PP					0							E(| E)	P-					S.		19			
/	BH/	166.00	169.00	3.00	270		QFPP				<<	BR	2	4	2	4	P		V6		45	<)	/	00		D.				4F	00			
L					14			6G			PP					0							00	P+	P-					D/		13			
R	F/	167.60	168.80		FAULT ZONE FROM 167.6 M TO 168.8 M.																														
/		169.00	172.00	3.00	276		QFPP				VV		2	4	2	4	P		V6		45	V+	/	P-		D-				4T				
L					29			7A			PP					0							E)	P-						D.		23			
/		172.00	175.00	3.00	266		QFPP				VG		2	4	2	4	P		V6		45	V=	/	P.	<-	D.				4T				
L					46			BA			PP					0							E(	00						<.		22			
/		175.00	178.00	3.00	300		QFPP				VV	RR	2	4	3	4	P		V5		65	V+	?	P-		S(				4L				
L					107			BA								0							E*							S(		27			
R		175.00	178.00		MO SELVAGES IN QZ-PY VEIN, MS ENVELOPE IS WELL DEVELOPED																														
/		178.00	181.00	3.00	285		QFPP				VV	RB	2	4	3	4	P		<5		72	<1	00	P-		<(				4F				
L					142			BA								0							E)							D.		50			
/		181.00	184.00	3.00	267		QFPP				VV	RB	2	4	3	4	P		V5		65	<)	?	F-		S(				4L				
L					116			BA								0							E*							D/		17			
/		184.00	187.00	3.00	281		QFPP				BR	RB	2	4	3	4	P		V5		65	V+	?	P-		D.				4L				
L					176			BA								0							E*							<.		19			

K E Y	F -L- G	F R O M	T O	I N T	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 TM	QM2 TX	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		187.00	190.00	3.00	300		HORN				HF	<<	2				P	<1		65	V*		P-	<-	D-	<-	V(			5L				
L					98	HZ		3A								0		V6		85		E)	O(					S.			8				
/	C/	187.00	187.15	0.15			= QFPP										R				<-			00	00	00	<-			4T				
L								8A																					00		3				
R		187.15	187.15		CONTACT BETWEEN HORN AND QFPP IS BRECCIATED.																															
/		190.00	193.00	3.00	300		TFXL				HF	<<					P				V*	-		<(		<*	<(			8T				
L					82		HZ VC HF 3A														F*	P-	P)					S-			9				
R		190.00	193.00		QZ-PY VEINS AND MICROVEINS HAVE KF ENVELOPES.																															
/		193.00	196.00	3.00	292		QFPP						2	4	2	4	P	V5		55	<+		P-		<-					4L				
L					93			8A								0						F*						S-			26				
R		187.00	196.00		HORN AND TFXL ARE INCLUSIONS IN THE QFPP.																															
/	C/	193.00	193.87	0.87			3 TFXL				HF	VV					R	V6		70	V+	?	P.	<-						8L				
L							HZ VC HF 3A											C/		57	E*	E(| P)					<.			27				
R	C/	193.87	193.87		CONTACT OF TFXL AND QFPP AT 193.87 M. MARKED BY QZ MACROVEIN.																															
/		196.00	199.00	3.00	277		QFPP				VG						P	V5		75	V+		F.		<-	D.				4T				
L					24			8T										<1		60	E)	E>	P.					S(			28				
/		199.00	202.00	3.00	300		QFPP				VG						P	V4		75	<)		F.		<(	<-	D.			4T				
L					24			8T										V5		75	E)	E>	P.					<-			23				
/		202.00	205.00	3.00	300		QFPP				VG						P	V5		75	<*		F-		<.	<-	D.			4L				
L					58			8A										<1		60	E)	E>	P.					<.			12				
R		202.00	205.00		MO MICROVEINS HAVE 3 MM. WIDE MU-ENVELOPES. PY-MICROVEINS HAVE																															
R		202.00	205.00		6 MM. WIDE MU-ENVELOPES BUT ARE NOT AS WELL DEFINED.																															
/		205.00	208.00	3.00	300		QFPP				VV						P	<1		60	<+		F.		00	<.	D.			4F				
L					54			8A										<1		60	E)	E+	P.					<-			30				
/		208.00	211.00	3.00	180		QFPP				VG						P	V5		65	<*		F.		<-	<-	D.			4L				
L					54			8A										<1		60	E)	E)	P.					<.			17				
/		211.00	214.00	3.00	290		QFPP				VV						P	<3		70	<(		F.		<-	D.				4T				
L					16			8T										<1		60	E)	F>	P.					<(			10				
/		214.00	217.00	3.00	237		QFPP					< <					P	<1		70	<)		/	F-		<*				4F				
L					0			8A														E+						<(			15				
R		214.00	217.00		CORE IS BADLY BROKEN, PERVASIVE SERICITE AND ENVELOPES DESTROYED																															
R		214.00	217.00		ORIGINAL PORPHYRITIC TEXTURES, SECONDARY QZ STARTS APPEARING.																															
/		217.00	220.00	3.00	250		QFPP					< <					P	<1		70	V)			00	F-		<*			4L				
L					0			8T														E)						<-			15				
/		220.00	223.00	3.00	300		QFPP					< <					P	<1		45	<)		/	F-		<(	D.			4F				
L					13			8A														E+						<.			25				
/		223.00	226.00	3.00	298		QFPP					V G	V	V			P	V5		50	3+	O-	/	00		<*	00			7L	3L			
L					15			8A														P(	F+					<*			20				

K E Y	F -L- G	F R O M -	T O -	I N T	RECOV R Q D	MD AGE	% EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	1 ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
R		223.00	226.00			MD MICROVEINS UP TO 4MM. WIDE, PROMINANT ALTER. TEXTURE OF QZ-																															
R		223.00	226.00			PATCHES AND SPORTS. QZ-SERICITE ENVELOPES ASSO. WITH PY MICRO-VE																															
R		223.00	226.00			INS BUT NOT QZ-MO OR MO VEINS.																															
/		226.00	229.00	3.00	280			QFPP						F	S				P		V6	75	<>	O.	/ F=		D=					3L	00		
L					44				7A														00	P)	O=					D.			18		
/		229.00	232.00	3.00	258			QFPP						<	<				P		<5	75	<)	O.	P/	<*		<*		D.			2L	00		
L					0				7A												<1	65		E)	O(					S(			20		
R		229.00	232.00			PY MICROVEINS ARE SUB-PARALLEL TO CALCITE MICROVEINS.																															
/		232.00	235.00	3.00	277			QFPP			PP	2	4	2	5				P		F/	65	V=		F=		<*		D.			4L	7T		
L					53				7A								0						?	E)	E=					<=			25		
R	F/	231.70	231.75			FAULT OR SHEAR ZONE?																															
R		232.00	235.00			PY MICROVEIN (WITH QZ-MU ENVELOPE) CUTS QZ-VEIN AND QZ-MO MICR-																															
R		232.00	235.00			OVEIN.(BOTH HAVE NO VISIBLE ENVELOPF).																															
/		235.00	238.00	3.00	274			QFPP			PP	2	4	2	5				P		V2	50	<1		P/ F=		? <*		00			4L	7T		
L					15				7A								0						?	E=	E=					<=			32		
/		238.00	241.00	3.00	255			QFPP			BR	VG	2	4	2	5			P		F/	55	<=		F=		0 <*		D.			4L	7T		
L					28				7A								0						?	E)	E=					00			24		
R	F/	240.10	241.00			FAULT ZONE FROM 240.1 M. TO 241 M., QFPP IS BRECCIATED																															
/	SH/	241.00	244.00	3.00	252			QFPP			PP	2	4	2	5				P		F/	65	<*		F(		<(		D.			4L	7T		
L					50				7A								0						?	E+	O.					D.			12		
/		244.00	247.00	3.00	277			QFPP			PP	2	4	2	5				P		<1	50	<)		F=		<*		D.			4L	7T		
L					28				7A								0						?	E)	P=					<=			17		
/		247.00	250.00	3.00	224			QFPP			PP	2	4	2	5				P		V5	75	V*		F=		<*		D.			4L	7L		
L					31				8A								0						?	P+	O*	D.				<.			10		
R	F/	248.50	250.10			FAULTING FROM 248.5 TO 250.1 M.																															
/	SH/	250.00	253.00	3.00	257			QFPP			VG								P		<3	55	3)		/ F=		F=					4L			
L					47				8T															P(	O.					<(			15		
/		253.00	256.00	3.00	258			QFPP			VG								P		<3	55	3*		/ F=		F=					4T			
L					31				8T															P*	Q.					D=	<(		12		
/		256.00	259.00	3.00	260			QFPP			VG								P		<3	55	3)		/ F.		F=					4F			
L					28				8A															E)	Q=					<=	<(		14		
/		259.00	262.00	3.00	191			QFPP			VG								P		<3	55	<(		/ P=		D.					4B	7T		
L	SH/				40				6G															E)	P+					00			16		
R	F/	259.00	262.00			CORE IS BADLY BROKEN, SOFT GOUGES.																															
/		262.00	265.00	3.00	251			QFPP			VG								P		<5	75	5+		/ F=		F=					4L	00		
L	SH/				40				7A												FS	60		P(	P)					<.			24		
R	SH/	262.00	269.75			CORE IS BADLY BROKEN																															
/	F/	265.00	268.00	3.00	258			QFPP			VG								P		FS	70	<)		/ F*		F=					4L			
L					40				7A															P)	O=					<(			20		

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K  F  FROM - TO -  INT RECOV  MD % ROCK TM TM QM1 TX TX F C % M TFOM  RI I ID AZM DIP QZ BI CY CR MG GY PY CP GL YY  F I Z I
E -L- ----.-- ----.-- ---.-- ---.-- -- - ---- -- -- --- -- -- - - - ---- --- - -- --- --- -- -- -- -- -- -- --  - - - -
Y  G                        R Q D  AGE EV RQ LC TM QM2 TX TX S R S O SML      2 ID AZM DIP KF MU CL EP HE XX PR MO SL

/      268.00  271.00  3.00  257       QFPP          VV                  P    <3      55 V)     / F-     ? <-          4L
L                            40            8A                                                P* 00            D-       23

/      271.00  274.00  3.00  293       QFPP          RB                  P              <+         ?      <(          4L
L                             0            8A                                                E= E.            S-       27

/ F/   274.00  277.00  3.00  240       QFPP          RB                  P              <*     P( F-      D-          4L
L                             0            8A                                                E+ 0-            D.       27
R F/   276.25  276.80     FAULT ? CORE IS BADLY BROKEN                                  10

/      277.00  280.00  3.00  248       QFPP          RB                  P    <5      55 <)         ?      <(          4L 8T
L                             0            8A                                                E= P(            <-       22
R      277.00  280.00     CHLORITE MICROVEINS AND PATCHES WITH MU-ENVELOPES

/      280.00  283.00  3.00  296       QFPP          VV                  P    V5      65 V+         ?      <(          4L 8L
L                            13            8A                                             ? E= 0(             <.       29

/      283.00  286.00  3.00  279       QFPP          RB                  P    V1      50 V)         ?      <*          4L
L                            44            8A                                  <5      75    E= P*            S-       18

/      286.00  289.00  3.00  233       QFPP          VV VG               P              <+         ?      <(          4F
L                             0            8A                                                E= E.            S(       17

/ C/   289.00  292.00  3.00  168       QFPP          VV VG               P                   V)     / F-     <-          4L
L                             0            8A                                                E= P1            S.        9
R C/   289.00  292.30     CONTACT ZONE BETWEEN QFPP AND HORN, CORE IS BADLY BROKEN
R      289.00  292.30     LESS THAN 10  ORIGINAL KF REMAINED, SIMULATION BETWEEN QFPP AND
R      289.00  292.30     HORN BROUGHT CHLORITE IN   QFPP.

/ C/   292.00  295.00  3.00  256       HORN          VV >>               P    V2      67 2+    P( F.     <)          8T
L FRC                        28    HZ              6G                                  >5      80 E) E+          S.       12

/ C/   292.00  292.30  0.30        1  QFPP                    2          R              <(    P(         D-          4L
L                                    7G                          0                          P1               00        4

/      295.00  298.00  3.00  226       HORN          VV                  P                   V-  P (F -D .    < *         8T
L                            13    HZ              4G                                        P+ E) P=                     5

/      298.00  301.00  3.00  285       HORN          VV    2 3 2 5       P    V1      65 V+  P (F -D .    * <)         8T
L FRC                        10    HZ VC TF 5G                 0          V5      65 E+ E) P=              S.       12
R      298.00  301.00     QZ-PY MACROVEINS HAVE MU-KF-ENVELOPES.

/ F/   301.00  304.00  3.00  213       HORN          VV                  P    V5      80 V+  P (F F( .    < * <.       8T
L FRC                        10    HZ              5G                          V2      50 P+ E) P=              S(       15
R      301.00  304.00     CORE IS BADLY BROKEN, WELL-FRACTURED (NO APPARENT FRAC. SETS VI-
R      301.00  304.00     SIBLE.

/      304.00  307.00  3.00  278       HORN          VV                  P              <+  P (F <* .    < <* 00      8T
L                            10    HZ VC TF 6G                                           E) P* P=                 D.       11

/      307.00  310.00  3.00  250       HORN          VV                  P    V6      47 V+  P (F -D .    < 3) D-      8T
L FRC                        25    HZ              5G                                    P+ E) P=                 00       10
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K	F	FROM -	TO -	INT	RECOV	MD	%	ROCK	TM	TM	QM1	TX	TX	F	C	X	M	TFOM	RI	1	ID	AZM	DIP	QZ	BI	CY	CB	MG	GY	PY	CP	GL	YY	F	I	Z	I
E	-L-	----.--	----.--	---.--	---.--	--	-	----	--	--	---	--	--	-	-	-	-	----	---	-	--	---	---	--	--	--	--	--	--	--	--	--	--	-	-	-	-
Y	G				R	Q	D	AGE	EV	RQ	LC	TM	QM2	TX	TX	S	R	S	O	SML		2	ID	AZM	DIP	KF	MU	CL	EP	HE	XX	PR	MO	SL				
/		310.00	313.00	3.00	300				HORN				VV								P		V5		80	V)		/	F*	D.		<)				8T		
L	FRC				83			HZ		3G																E+	P(	P=					S-				7		
R		310.00	313.00		QZ-MO VEINS CUT BY PY MICROVEINS																																		
/		313.00	316.99	3.99	363				HORN				VV	VG							P		V5		50	V+		/	<)	D.		U*	D.			8T		
L					37			HZ		3G																E+	P(	P=					S.				17		

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	19.70	22.00	1489	0.034	0.038			0.072
A 012	22.00	25.00	1490	0.029	0.043			0.072
A 012	25.00	28.00	1491	0.034	0.035			0.069
A 012	28.00	31.00	1492	0.021	0.083			0.104
A 012	31.00	34.00	1493	0.023	0.038			0.061
A 012	34.00	37.00	1494	0.011	0.027			0.038
A 012	37.00	40.00	1495	0.019	0.042			0.061
A 012	40.00	43.00	1496	0.015	0.038			0.053
A 012	43.00	46.00	1497	0.018	0.030			0.048
A 012	46.00	49.00	1498	0.014	0.013			0.027
A 012	49.00	52.00	1499	0.043	0.040			0.083
A 012	52.00	55.00	1500	0.013	0.032			0.045
A 012	55.00	58.00	1501	0.021	0.010			0.031
A 012	58.00	61.00	1502	0.031	0.035			0.066
A 012	61.00	64.00	1503	0.169	0.077			0.246
A 012	64.00	67.00	1504	0.088	0.013			0.101
A 012	67.00	70.00	1505	0.039	0.013			0.052
A 012	70.00	73.00	1506	0.052	0.038			0.090
A 012	73.00	76.00	1507	0.018	0.018			0.036
A 012	76.00	79.00	1508	0.076	0.003			0.079
A 012	79.00	82.00	1509	0.074	0.015			0.089
A 012	82.00	85.00	1510	0.039	0.017			0.057
A 012	85.00	88.00	1511	0.059	0.003			0.062
A 012	88.00	91.00	1512	0.037	0.007			0.044
A 012	91.00	94.00	1513	0.033	0.013			0.046
A 012	94.00	97.00	1514	0.012	0.007			0.019
A 012	97.00	100.00	1515	0.008	0.012			0.020
A 012	100.00	103.00	1516	0.095	0.012			0.107
A 012	103.00	106.00	1517	0.018	0.007			0.025
A 012	106.00	109.00	1518	0.011	0.013			0.024
A 012	109.00	112.00	1519	0.015	0.012			0.027
A 012	112.00	115.00	1520	0.007	0.023			0.030
A 012	115.00	118.00	1521	0.011	0.048			0.059
A 012	118.00	121.00	1522	0.015	0.023			0.038
A 012	121.00	124.00	1523	0.017	0.013			0.030
A 012	124.00	127.00	1524	0.007	0.017			0.024
A 012	127.00	130.00	1525	0.005	0.018			0.023
A 012	130.00	133.00	1526	0.009	0.020			0.029
A 012	133.00	136.00	1527	0.019	0.025			0.044
A 012	136.00	139.00	1528	0.014	0.030			0.044
A 012	139.00	142.00	1529	0.006	0.022			0.029
A 012	142.00	145.00	1530	0.010	0.022			0.032
A 012	145.00	148.00	1531	0.008	0.010			0.018
A 012	148.00	151.00	1532	0.014	0.013			0.027
A 012	151.00	154.00	1533	0.010	0.017			0.027
A 012	154.00	157.00	1534	0.010	0.010			0.020
A 012	157.00	160.00	1535	0.038	0.008			0.046
A 012	160.00	163.00	1536	0.070	0.018			0.088
A 012	163.00	166.00	1537	0.044	0.013			0.057
A 012	166.00	169.00	1538	0.048	0.022			0.070

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	169.00	172.00	1539	0.060	0.012			0.071
A 012	172.00	175.00	1540	0.021	0.013			0.034
A 012	175.00	178.00	1541	0.012	0.013			0.025
A 012	178.00	181.00	1542	0.011	0.013			0.024
A 012	181.00	184.00	1543	0.016	0.012			0.028
A 012	184.00	187.00	1544	0.011	0.008			0.019
A 012	187.00	190.00	1545	0.072	0.023			0.095
A 012	190.00	193.00	1546	0.078	0.013			0.091
A 012	193.00	196.00	1547	0.027	0.015			0.042
A 012	196.00	199.00	1548	0.023	0.030			0.053
A 012	199.00	202.00	1549	0.031	0.013			0.044
A 012	202.00	205.00	1550	0.028	0.037			0.065
A 012	205.00	208.00	1551	0.015	0.025			0.040
A 012	208.00	211.00	1552	0.019	0.012			0.031
A 012	211.00	214.00	1553	0.016	0.025			0.041
A 012	214.00	217.00	1554	0.022	0.023			0.045
A 012	217.00	220.00	1555	0.027	0.038			0.065
A 012	220.00	223.00	1556	0.014	0.012			0.026
A 012	223.00	226.00	1557	0.015	0.040			0.055
A 012	226.00	229.00	1558	0.024	0.013			0.037
A 012	229.00	232.00	1559	0.026	0.028			0.054
A 012	232.00	235.00	1560	0.037	0.012			0.049
A 012	235.00	238.00	1561	0.019	0.023			0.042
A 012	238.00	241.00	1562	0.019	0.028			0.047
A 012	241.00	244.00	1563	0.005	0.030			0.035
A 012	244.00	247.00	1564	0.005	0.025			0.030
A 012	247.00	250.00	1565	0.006	0.040			0.046
A 012	250.00	253.00	1566	0.007	0.017			0.024
A 012	253.00	256.00	1567	0.007	0.030			0.037
A 012	256.00	259.00	1568	0.012	0.023			0.035
A 012	259.00	262.00	1569	0.007	0.013			0.020
A 012	262.00	265.00	1570	0.006	0.030			0.036
A 012	265.00	268.00	1571	0.013	0.042			0.055
A 012	268.00	271.00	1572	0.011	0.027			0.038
A 012	271.00	274.00	1573	0.012	0.017			0.029
A 012	274.00	277.00	1574	0.009	0.027			0.036
A 012	277.00	280.00	1575	0.010	0.028			0.038
A 012	280.00	283.00	1576	0.016	0.025			0.041
A 012	283.00	286.00	1577	0.017	0.025			0.042
A 012	286.00	289.00	1578	0.011	0.023			0.034
A 012	289.00	292.00	1579	0.072	0.027			0.099
A 012	292.00	295.00	1580	0.059	0.030			0.089
A 012	295.00	298.00	1581	0.036	0.015			0.051
A 012	298.00	301.00	1582	0.062	0.037			0.099
A 012	301.00	304.00	1583	0.071	0.052			0.123
A 012	304.00	307.00	1584	0.035	0.027			0.062
A 012	307.00	310.00	1585	0.088	0.018			0.106
A 012	310.00	313.00	1586	0.058	0.023			0.081
A 012	313.00	316.99	1587	0.055	0.017			0.072
R ASY	19.70	317.00	AVE. CU=.03 %					
R ASY	19.70	64.00	AVE. MO=.023 PPM					

A UMM	%CU	%MOS2	%MOS2	HASH	TOTAL
A LAB	MIN-EN	MIN-EN	MIN-EN		
A MTH		EQUIV	ACTUAL		
A TYP	H-CORE	H-CORE	H-CORE		

R ASY 196.00 317.00 AVE. MO=.015 PPM

				PB AU	PM AG	PM W	PM SN	PM PB	PM ZN		HASH	TOTAL
A UMM				MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN			
A LAB				AQR-AA	PCL-AA	COLOR	COLOR	PCL-AA	PCL-AA			
A MTH				COMPOS	COMPOS	COMPOS	COMPOS	COMPOS	COMPOS			
A TYP												
A 013	22.00	31.00		40	0.8	2	3	10	45	14600	-1	
R ASY	22.00	31.00	DETECTION LIMIT IS PRECEDED BY A MINUS SIGN									
A 013	31.00	40.00		20	0.6	2	2	6	27	16500	5	
A 013	40.00	49.00		35	0.7	-2	-2	7	25	14100	2	
A 013	49.00	58.00		70	0.9	-2	-2	9	44	14300	10	
A 013	58.00	67.00		280	0.8	70	-2	12	29	87400	12	
A 013	67.00	76.00		25	0.7	2	2	11	43	30500	2	
A 013	76.00	85.00		10	0.8	6	2	11	49	34200	-1	
A 013	85.00	94.00		5	0.8	2	11	12	48	21900	-1	
A 013	94.00	103.00		5	0.6	-2	2	10	29	3700	15	
A 013	103.00	112.00		-5	0.6	2	-2	15	45	5400	23	
A 013	112.00	121.00		5	0.6	-2	-2	16	56	17300	4	
A 013	121.00	130.00		5	0.6	-2	-2	11	44	16800	2	
A 013	130.00	139.00		5	0.5	2	2	5	14	10200	5	
A 013	139.00	148.00		5	0.6	-2	-2	44	118	31600	1	
A 013	148.00	151.00		5	0.6	-2	-2	8	14	30400	9	
A 013	151.00	160.00		5	0.5	-2	-2	46	135	5200	40	
A 013	160.00	169.00		15	0.9	2	2	57	188	7200	75	
A 013	169.00	178.00		5	0.5	2	2	18	63	14000	14	
A 013	178.00	187.00		15	0.5	-2	-2	4	13	8900	3	
A 013	187.00	196.00		15	1.2	-2	-2	10	52	16800	-1	
A 013	196.00	205.00		15	0.4	-2	-2	4	16	9800	7	
A 013	205.00	214.00		20	0.4	2	-2	5	14	18800	-1	
A 013	214.00	223.00		15	0.6	2	2	6	13	11700	9	
A 013	223.00	232.00		5	0.4	-2	2	4	22	9600	-1	
A 013	232.00	241.00		5	0.4	-2	2	6	14	22100	-1	
A 013	241.00	250.00		15	0.2	2	3	4	12	10200	2	
A 013	250.00	259.00		5	0.3	-2	2	2	8	9600	11	
A 013	259.00	268.00		15	0.3	-2	2	4	13	14700	2	
A 013	268.00	277.00		10	0.2	-2	3	4	17	14200	4	
A 013	277.00	286.00		15	0.3	2	-2	6	13	10900	1	
A 013	286.00	295.00		10	0.8	-2	2	9	25	20200	-1	
A 013	295.00	304.00		15	0.9	-2	-2	9	26	34900	6	
A 013	304.00	313.00		15	1.0	2	-2	9	26	34100	5	
R ASY	304.00	313.00	END OF WCDH23									

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
WHITING CREEK PORPHYRY MO-CU DEPOSIT

FORMAT VERSION : 6802

DRILLHOLE/TRAVERSE : WCDH024 COLLAR ELEVATION: 1578.00 AZIMUTH(DEG) : 0.00 GEOLOGGED BY : RMC +
TOTAL DEPTH/LENGTH : 285.29 NORTHING(- IF S): 3146.00 VERTICAL ANGLE : -90.00 DATE (YY/MM/DD): 801011
CORE/HOLE DIAMETER : NQ EASTING (- IF W): 2454.00 CO-ORD SYSTEM : MAP PROJECT NUMBER : 4942

K E Y	F L A G	- INTERVAL - (UNITS = . DEC.PLACE) (MT=METRIC FT=FOOTRIC) FROM - TO - INT (.)	CORE RECOV- ERY (.)	T- M O	X M I X	ROCK TYPE	TYPI- FYING 1	TYPI- FYING 2	QAL MIN MAT QM1	TEX- TURES 1	TEX- TURES 2	GRAIN CHARACS F	C	%	M	TOTAL FRAC DEN	PGI /RI	T 1	STRUCTUR-1 ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H A MIN GY	ORE-TYPE MINS H A PY	H A CP	H A GL	H A MIN YY	SUMMARY ALT F	ORE I	Z	I
K E Y	F L G		ROCK QUAL DESIG	FM AGE	EN- VIR	RT Q LC- COL	TM 3	QM2	TX 3	TX 4	S O R	R N D	H P C	/ M L			T 2	STRUCTUR-2	STK AZM	DIP RT	KF H A	MU H A	CL H A	EP H A	HE H A	XX H A	PR H A	MO H A	SL H A	1 2	1 2			
/	OVB	0.00	6.86	6.86			OVER										P																	
L																																		
R		0.00	6.86				CASING,NO CORE RECOVERY																													
/		6.86	9.00	2.14	214		QZPP					1	5	2	5		P		V3	72	<=		F.		<*		LI	5L					
L					127		AP	BA						0					V5	72		S(			<*		C)		08				
/		9.00	12.00	3.00	268		QZPP					1	5	2	5		P		V3	65	<)		F.		<*		LI	5L					
L					138		AP	BA						0					V1	80		P.	Q*		<*		F)		07				
/		12.00	15.00	3.00	286		QZPP					1	5	2	5		P		V3	70	<)		F.		<*		LI	5L					
L					089		AP	BA						0					V3	38		P(			<*		F+		07				
/		15.00	18.00	3.00	300		QZPP					1	5	2	5		P		V5	68	<+		F.		<)		LI	5L					
L					138		AP	BA						0					V6	20		P(	Q*		<*		F+		11				
/		18.00	21.00	3.00	265		QZPP					1	5	2	5		P		V6	45	<)		00		<*		LI	5L					
L					047		AP	BA						0					V1	30		P*	Q*		<(		F+		09				
/		21.00	24.00	3.00	254		QZPP					1	5	2	5		P		V3	15	<*		F.		<*		LI	5L					
L					025		AP	BA						0					V3	85		00	Q(		<(		C+		03				
/		24.00	27.00	3.00	296		QZPP					1	5	1	5		P		V3	45	<*		F.		6*		LI						
L					075		AP	BA						0					V5	70			0.		<(		F)		08				
R		26.00	26.00				STAINED SPECIMEN INDICATES MOD QZ-MS ALT OF ORIGINAL QZ-K-SPAR																													
R		24.00	27.00				MATRIX																													
/		27.00	30.00	3.00	273		QZPP					2	5	1	5		P		V3	53	<*		F.		<*		LI						
L					080		AP	BA						0					V1	85			0.		<*		F)		04				
/		30.00	33.00	3.00	290		QZPP					1	5	1	5		P		V1	20	00		F.		#)		LI						
L					052		AP	BA						0					V5	70			0)		<.		C)		00				

KEY	F-L-G	FROM-.--	TO-.--	INT-.--	RECOV-.-- / RQD	MD AGE	% EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	% S	M D	TFDM SML	RI	I 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F	I	Z	I
/		33.00	36.00	3.00	293			QZPP						1	5	1	5		P		V3		50	<.		O.			<(			LI				
L					041		AP	8A									0				V5		70			O.				<(		C*	02				
R		33.30	33.30		STAINING INDICATES APLITIC QZ-K-SPAR MATRIX IS LARGELY ALTERED																																	
R		33.00	36.00		IN PATCHES TO QZ-MS																																	
/		36.00	39.00	3.00	270			QZPP						1	5	1	5		P		V3		55	<.		F(			<(			LI				
L					044		AP	8A									0				V5		70		P.	O.	O.			<(		F*	02				
/		39.00	42.00	3.00	295			QZPP						1	5	1	5		P		V5		45	<.		G)			<*	<.		BO	5B			
L					013		AP	8A									0				V3		55		P*	O.				<*		B.	03				
/		42.00	45.00	3.00	287			QZPP						1	5	2	5		P		V3		65	<(		G)			<(			LI	5B			
L					076		AP	7A									0				V1		10		8)	O*				<(		C.	03				
/		45.00	48.00	3.00	286			QZPP						1	5	2	5		P		V3		65	<(		G)			<.			LI	5M			
L					052		AP	7A									0				V1		50		8+	O*				<(		C*	04				
/		48.00	51.00	3.00	272			QZPP						1	5	2	5		P		V3		37	<(		G)			<(	B.		LI	5M			
L					055		AP	7A									0				V1		72		8+	O*				<(		F+	05				
R		48.00	51.00		TRACE CV BLEBS ASSOCIATED WITH CP																																	
/		51.00	54.00	3.00	277			QZPP						1	5	2	5		P		V3		60	<(		G)			#*	B.		LI	5B			
L					000		AP	7A									0				S8		66		8)	O*				<(		F*	02				
R		51.00	54.00		TRACE CV COATING PY AND CP																																	
/		54.00	57.00	3.00	200			QZPP						1	5	2	5		P		V3		73	<.		G)			<(			LI	5M			
L					013		AP	7A									0				V1		10		8+	O*				<.		F*	02				
/		57.00	60.00	3.00	276			QZPP						1	5	2	5		P		V3		20	<.		G)			<.		L	IS	LB			
L					074		AP	7A									0				V3		72		8*	O*				<(		F*	01				
/	FLT	57.00	57.15	0.15			X	FLTZ											R		S8		70													
L																										G3				G)						
/		60.00	63.00	3.00	282			QZPP						1	5	2	5		P		V3		50	<.		G)			<*	B.		LI	5B			
L					050		AP	7A									0				V3		27		8)	O*				<*		F.	02				
/		63.00	63.30	0.30	030			QZPP						1	5	1	5		P		V3		40	V+				<.	<*	<.		LI	5F			
L					00			6A																	P+	O=				<(		F)	01			
/	DYK	63.30	66.00	2.70	252			FLST		PP				1	5	=	5		P		CN		T45			F+				<)						
L					099			6A									0				V1		40		E+	O)							00			
/		66.00	69.00	3.00	300			FLST		PP				1	5	=	5		P		V5		T80	V*		G)			<*							
L					130			6A									0				V1		40		E+	O=				V.			01			
R		63.30	69.00		INTRA-MINERAL DYKE, PALE PINK-GREY, APH. WITH 1-2MM CL PX OR HE																																	
R		66.00	69.00		PHENOS, TRACE AMOUNTS OF QZ-MO, MODERATE K-SPAR FLOODING NEAR																																	
R		66.00	69.00		UPPER CONTACT.																																	
/		69.00	72.00	3.00	281			FLST		PP				1	5	=	5		P		V1		T80			F+	<.			<)						
L					133			6A									0				V1		40		00	O)							00			

KEY	F -L- G	FROM -	TO -	INT	RECOV RQD	MD % AGE	ROCK EV	TM RQ	TM LC	TM QM1 QM2	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	I ID	AZM	DIP	OZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F	I	Z	I
/		72.00	75.00	3.00	283		FLST				PP	1	5	=	5		P	V7		T70			F+				<)	<.		CC	SF			
L					114			6A							Q			V1		80		8*	O)							C.	00			
/		75.00	78.00	3.00	284		FLST				PP	1	5	=	5		P	V1		T88			F+				<)	<.			SF			
L					104			6A							Q			V1		40		8*	O)								00			
/		78.00	81.00	3.00	300		FLST				PP	1	5	=	5		P	V1		T40			F+				<*				SF			
L					048			6A							Q			V1		45		8)	O)								00			
/		81.00	84.00	3.00	272		FLST				PP	1	5	1	5		P	V1		30			G)				<*	<.			SL			
L					141			7A							Q							8)	O*					<.			00			
R		83.90	83.90		ANGULAR FRAGMENT OF QZPP																														
/		84.00	87.00	3.00	255		FLST				PP	1	5	1	5		P	V1		68			G)	<.			<)	<.			SL			
L					055			7A							Q							8)	O*		G.			00			00			
/		87.00	90.00	3.00	300		FLST				PP	1	5	1	5		P	V6		30		O.	G)	<.			<*	<.			SL			
L					162			7A							Q							8.	O*					00			00			
/		90.00	93.00	3.00	264		FLST				PP	1	5	1	5		P	V1		80			G)	<.			<*	<.			SL			
L					061			7A							Q							8)	O*					<.			00			
/		93.00	96.00	3.00	286		FLST				PP	1	5	1	5		P	V1		90			G)				<*	00			SL			
L					061			7A							Q			88		90		00	<)					00			00			
/	FLT	93.00	95.30	2.30		X	FLZN										R						G1											
L																							G=											
/		96.00	99.00	3.00	282		FLST				PP	1	5	1	5		P	V1		40	<.		G)	<.	D.		<*	00			SL			
L					185			7A							Q			V1		90		00	O*					00				01		
/		99.00	102.00	3.00	291		FLST				PP	1	5	1	5		P	V3		40	<.		G)	<(			<*	<.			SL			
L					090			7A							Q			V3		65		00	O*					<.				02		
/		102.00	105.00	3.00	283		FLST				PP	1	5	1	5		P	V1		65				<(			<*				SL			
L					074			7A							Q								F*	7)								00			
R		102.00	105.00		CL < POSSIBLY AFTER BI																														
/		105.00	108.00	3.00	300		FLST				PP	1	5	1	5		P	V5		05	<.			<(			<*				SL			
L					055			7A							Q								S(	8+					<.			01		
/		108.00	111.00	3.00	282		FLST				PP	1	5	1	5		P	V1		65				<(			8)	A(			SL			
L					088			7A							Q								S(	8+					<.			00			
R		105.00	111.00		ALT 5(?) APPEARS TO BE INCREASING IN INTENSITY, AND CP ALSO																														
R		108.00	111.00		SEEMS TO BE INCREASING, MAINLY AS DISSEMINATIONS																														
/		111.00	114.00	3.00	270		FLST				PP	1	5	1	5		P	V1		65			G(	<*			8*	8.			SL			
L					145			7A							Q			SH		50		00	P+					<.			00			
/		114.00	117.00	3.00	284		FLST				PP	1	5	1	5		P	V3		60				<*			8)	D)			SL			
L					140			7A							Q							00	O*					<.			00			

K E Y	F -L- G	F R O M -	T O -	I N T	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	TM QM1 QM2	TX TX	F S	C R	% S	M O	TFDM SML	RI 1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/		117.00	120.00	3.00	298		FLST			PP	1	5	1	5		P		SF		48			G*	**	D.		D)	D.		5L	
L					192			7A							Q							E*	Q=							00	
/		120.00	123.00	3.00	292		FLST									P		SF		35			G)	<*			D)	D.			
L					175			8A															Q1							00	
R		120.00	123.00		PY AND CP ASSOCIATED WITH CL SPOTS																										
/	FLT	120.36	120.40	0.04		X	FTZN									R		SH		20			G9								
/		123.00	126.00	3.00	300		FLST									P		FS		62			G)	<)			D)	D.			
L					059			8A										FS		45			Q1							00	
R		123.45	123.45		STAINED SPECIMEN-V. FINE GRAINED K-SPAR RICH ROCK WHICH HAS BEEN																										
R		123.00	126.00		PATCHILY ALTERED TO CL.																										
/		126.00	129.00	3.00	232		FLST									P		V1		30			G*	<)	D.		7*	7.			
L					055			8A										SH		65		S*	Q1							00	
/		129.00	132.00	3.00	272		FLST									P		SH		90	<(		G)	<)			7*	8.			
L					047			8A														S(	Q1							01	
/		132.00	135.00	3.00	250		FLST									P		V1		20	<.		G)	<)			7(	00			
L					000			8A														S(	Q1							01	
/	FLT	134.72	135.00	0.28		X	FTZN									R		SH		90			G2								
L																															
/		135.00	138.00	3.00	267		FLST									P		V1		65			G)	<*			6*	00			
L					000			8A										V1		70		8=	Q1	<)						01	
/		138.00	141.00	3.00	226		FLST									P		V1		20	<(		G)	<*			<)	<.			
L					000			9A										V6		60		81	Q+							02	
/	FLT	140.00	140.21	0.21		X	FTZN									R		SH		70			G3								
L																															
/		141.00	144.00	3.00	231		FLST									P		SF		45	<.		G)	<)			0*	8.			
L					022			8A															0)					<.		01	
/		144.00	147.00	3.00	247		FLST									P		V1		90	<.		G)	<)			<(	00			
L					034			8A										V2		60			0+					<.		01	
/		147.00	150.00	3.00	270		FLST									P		V1		65	00		G)	<)			0*	00			
L					040			8A															0)					00		00	
/		150.00	153.00	3.00	243		FLST									P		SF		45	00		G)	<)			7(	00			
L					017			8A															0)					00		00	
R		150.00	156.00		CORE BECOMING PALE PINK IN COLOUR, HOWEVER STAINING INDICATES																										
R		150.00	153.00		LITTLE TO NO K-SPAR																										
/		153.00	156.00	3.00	229		FLST									P		V2		60	<.		G)	<)			7(	<.			
L					056			7B										V1		90			0)					<.		01	

KEY	F -L- G	FROM -	TO -	INT	RECOV RQD	MD % AGE	ROCK EV	TM RQ	TM LC	TM QM1 QM2	TX TX	F C S	% M R	TFDM S	RI	I 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	FIZI
/		156.00	159.00	3.00	242		FLST								P		SF		45	<(		G)				D*	D.			
L					100			8A												<*	P*	O+					00		01	
/		159.00	162.00	3.00	254		FLST								P		SF		20			G+	<)			D*	D.			
L					115			7R														O=					00			
/	FLT	160.92	162.00	1.08			X FTZN								R		SH		90			G=								
L																						G+								
/		162.00	165.00	3.00	221		FLST								P		SF		20			G+	<)			D*	00			
L					037			8G														O=					00			
/	FLT	162.00	164.40	2.40			X FLZN								R		SH		75			G=								
L																						G+								
/	FLT	165.00	168.00	3.00	184		FLST								P		V1		40	<(		G+	<)			7)	8.			
L					037			8G														81		G(			<.		01	
/	FLT	168.00	171.00	3.00	037		FLST								P		SF		20	<*		G+	<)			7*	8.			
L					100			8G														81					<.		01	
/	FLT	171.00	174.00	3.00	132		FLST								P		V1		80	~		G+	<)			7)	8(			
L					100			8G												<*		81					00			
/	FLT	174.00	177.00	3.00	176		FLST								P		SH		54			G=	<)			D(	D.			
L					116			8G									SH		75			81							00	
R		160.92	179.22		FAULT ZONE,ROCK EXTREMELY BROKEN VERY POOR RECOVERY. 177.09 TO																											
R		174.00	177.00		179..22M IS SOLID GOUGE,FAULT CONTAINS INCREASED PY AND CL,NO																											
R		174.00	177.00		ESTIMATE OF DIP OF FAULT BUT PROBABLY 60-90~.																											
/		177.00	180.00	3.00	230		FLST								P		SF		43			F)	<*			8*	D.			
L					023			9G														O+					<.		00	
/	FLT	177.00	179.22	2.22			X FTZN								R							G3								
L																						G=								
/		180.00	183.00	3.00	281		VOLC								P		SH		85			G)	<)			D*	D.			
L					065			6A														O+							00	
/		180.80	181.03	0.23			X MZPP	BI							R															
L								5A																						
R		180.80	181.03		XENOLITH OF CROWDED MONZONITE PORPHYRY ALSO AT 182.89 TO 183.41M																											
/		183.00	186.00	3.00	259		VOLC								P		SH		85			G)	<)			D*	D.			
L					043			7G												<.		02					<.		00	
/		186.00	189.00	3.00	262		VOLC								P		V1		75	<(		G)	<)			7*	6(			
L					060			6A														01					<.		01	
/		186.00	187.05	1.05			X MZPP	BI							R															
L								5A																						

KEY	F-LG	FROM ----.--	TO ----.--	INT ---.--	RECOV RQD	MD % AGE	ROCK EV	TM RQ	TM LC	TM QM1 QM2	TX TX	F S	C R	% S	M D	TFOM SML	RI 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	FIZI
/		189.00	192.00	3.00	266		VOLC										P	V2		80	<(		G)	<*	D.		7)	D(			
L					171			6A										V3		26	<(		Q1					<.		01	
/		189.20	189.54	0.34		X	MZPP	BI									R														
L								5A																							
/		192.00	195.00	3.00	300		FLST				1						P	SH		65			G)	<*	D.		D*	D(			
L					148			6R															O=					<.		00	
/		195.00	198.00	3.00	291		FLST				1						P	V7		75			G)	<*	D.		D*	7(			
L					152			6R															O=					<.		00	
R		192.00	198.00		ROCK IS SAME AS FLST ABOVE MAJOR FTZN,IE-PINK,APH.,SPECKLED WITH																											
R		195.00	198.00		GREEN CL SPOTS,CROWDED MZPP AT 197.30 TO 197.63M.																											
/		198.00	201.00	3.00	291		FLST										P	SH		70	<*		G(	<*	D.		7)	D.			
L					180			7R										V1		85		S.	O=					<.		03	
/		201.00	204.00	3.00	263		FLST										P	V7		82	<*		G(	<*	D.		7)	6(			
L					117			7R										V1		85		S.	O=					<.		03	
/		202.16	202.85	0.69		X	MZPP										R														
L								6A																							
/		204.00	207.00	3.00	274		FLST										P	V3		28	00		G*	<*	D.		8)	D*			
L					077			6R										V1		83		00	8=					<.		00	
/		207.00	210.00	3.00	295		FLST										P	V1		62	00		G(	<*	D.		7*	8(			
L					163			7R										V1		85		00	O=					00		00	
R		207.00	210.00		ROCK LOCALLY GRADES INTO A PINK PPFL																											
/		210.00	213.00	3.00	256		FLST										P	V1		75	<(		G(	<*	D.		8*	D(			
L					048			7R										V1		85		00	O=					<.		02	
/		213.00	216.00	3.00	291		FLST										P	V5		82	<(		G(	<*	D.		7*	7(			
L					147			7R										SH		45		00	O=					<.		02	
/		213.31	214.61	1.30		X	MZPP										R														
L								7A																							
/		216.00	219.00	3.00	289		FLST										P	V1		73	<(		7)	<*	D.		7)	7(			
L					105			7R										V1		85		00	O=					<.		02	
/		216.45	217.12	0.67		X	MZPP										R														
L								7A																							
R		216.45	217.12		FL LOCALLY ALTERED TO MM,PARTIAL ASSIMILATION OF MZPP BY FLST																											
/		219.00	222.00	3.00	210		FLST				1						P	SH		40			G*	<(		D(	D.				
L					042			6R										V3		35			O+					<.		00	
R		218.94	219.20		XENOLITH OF MZPP																											
/		222.00	225.00	3.00	260		FLST				1						P	V5		82	<.		G*	<(		D(	D.				
L					015			6R										V1		90			O+				6*	<(		01	

G E O L O G

DRILLHOLE/TRAVERSE --- WCDH024 --- (CONTINUED)

KEY	F -L- G	FROM -	TO -	INT	RECOV MD AGE	% EV	ROCK RQ	TM LC	TM TM QM1 QM2	TX TX TX	F S	C R	X S	M O	TFDM SML	RI 1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB FP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F -	I -	Z -	I -
/		225.00	228.00	3.00	300		FLST					1				P	SH		50	V(		G*	<(			7*	<(					
L					116			6R									SH		65			0+		G.			<.		01				
R		225.00	228.00		SHEARS WITH GOUGE AT 225.10 AND 227.08M.																												
/		225.29	226.83	1.54			X MZPP									R																
L																																
/		228.00	231.00	3.00	297		FLST					1				P	SH		80			G*	<(			7(	D.		1B			
L					118			6A									V1		65			6+					<.		00				
/		231.00	234.00	3.00	297		FLST					1				P	V4		57	<.		G*	<(			7(	D.					
L					152			6R									V3		65			0+					<.		01				
/		234.00	237.00	3.00	264		FLST					1				P	V7		40	<(		G*	<(	D.		0(	7(					
L					042			6R									V3		35			7=		0.			<.		01				
/		237.00	240.00	3.00	299		FLST									P	V5		64	<.		G*	<(	D.		8*	D(					
L					090			7A									SH		80			7=					<.		01				
/		240.00	243.00	3.00	265		FLST									P	V1		77	00		G*	<(	D.		6)	00					
L					079			8R									SS		70		E*	0)					00		00			
/		243.00	246.00	3.00	300		APLT					3				P	V1		30	00						6*	6(					
L					111			8R									V3		42		E+	0*					<.		00				
R		243.00	246.00		PHYLLIC ENVELOPES ASSOCIATED WITH PY VEINLETS NOW APPEARING																												
/	FLT	246.00	249.00	3.00	265		APLT					3				P	V3		58	>2		G1				6+	0.					
L					081			8R									SH		90		E+	0=					<.		02				
/		249.00	252.00	3.00	267		APLT					3				P	V5		72	<=				00		6*	00		5M	1L		
L					088			8G									V5		18		61	<)					<(		09				
/		252.00	255.00	3.00	264		APLT					3				P	SH		80	<)				00		6*	B.		5L			
L					045			8R									SH		50		6=	00					<.		05				
/		255.00	258.00	3.00	277		APLT	8R				3				P	V3		60	00				00		6*	00		5L			
L					019			8R									SH		55		6+	00					<.		03				
/	FLT	257.68	258.00	0.32			X FLZN									R	SH		75			G2										
L																																
/		258.00	261.00	3.00	290		APLT					3				P	V1		66	<+		G*	<*			<*			5F			
L					043			9R									V5		65		6=						<(		09				
R		258.00	261.00		STAINING INDICATES APLITIC,K-SPAR RICH MATRIX WITH FINE INTER-																												
R		258.00	261.00		STITIAL QZ																												
/		261.00	264.00	3.00	270		APLT					3				P	V1		70	<+		G*	<*			<*			5L			
L					012			9R									V5		65		6+	<(					<.		09				
/		264.00	267.00	3.00	259		QZPP					3	5	1	5	P	V5		46	<+		G)	<*			<*			5L			
L					056		AP	9R					.	0			V2		74		E=						<(		08				

K F Y	F -L- G	F R O M -	T O -	I N T	RECOV R Q D	MD AGE	X EV	ROCK RQ	TM LC	TM TM	QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI 2	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/		267.00	270.00	3.00	292			QZPP						3	5	1	5		P	V1		72	<=		G)	<*			<*			5L	
L					012			AP	9R								0			V5		63		E+	F(					<(		14	
/		270.00	273.00	3.00	235			APLT											P	V5		73	<+						6*	<.		5L	
L					00																			E+	F(					<(		09	
/		273.00	276.00	3.00	300			APLT											P	V1		84	<=						<(	B.		5L	
L					079																			E+	F)					<.		11	
/		276.00	279.00	3.00	276			QZPP						3	5	1	5		P	V5		52	<=		G)	<(			<*				
L					058			AP	9R								0			SH		52		E+	Q+					<(		11	
R		273.00	279.00		TWO XENOLITHS OF PPFL (POSSIBLY MZPP),STRONG S-ALT,WITH PATCHES																													
R		276.00	279.00		OF CL.																													
/		279.00	282.00	3.00	277			QZPP						3	5	1	5		P	V5		75	<=		G)	<(			<*			5L	
L					055			AP	9R								0			SH		52		E+	<*					<(		09	
/	FLT	280.67	281.44	0.77			X	FTZN											R	SH		75	Q=		G3								
L																									G=								
/		282.00	285.29	3.29	241			QZPP						3	5	1	5		P	V5		29	<+		G)	<(			<(			5T	
L					062			AP	9R								0			SH		52		E.	00					<(		05	
/		283.90	284.91	1.01			X	MZPP											R						P2								
L																									P=								
R		285.29	285.29		END OF DDH 24.																													

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	6.86	9.00	1588	0.049	0.170			0.219
A 012	9.00	12.00	1589	0.072	0.245			0.317
A 012	12.00	15.00	1590	0.024	0.103			0.269
A 012	15.00	18.00	1591	0.060	0.180			0.240
A 012	18.00	21.00	1592	0.038	0.067			0.105
A 012	21.00	24.00	1593	0.024	0.113			0.137
A 012	24.00	27.00	1594	0.043	0.113			0.156
A 012	27.00	30.00	1595	0.144	0.307			0.451
A 012	30.00	33.00	1596	0.084	0.087			0.171
A 012	33.00	36.00	1597	0.050	0.063			0.113
A 012	36.00	39.00	1598	0.035	0.074			0.109
A 012	39.00	42.00	1599	0.186	0.133			0.319
A 012	42.00	45.00	1600	0.089	0.060			0.149
A 012	45.00	48.00	1601	0.120	0.032			0.152
A 012	48.00	51.00	1602	0.048	0.097			0.145
A 012	51.00	54.00	1603	0.114	0.073			0.187
A 012	54.00	57.00	1604	0.067	0.030			0.097
A 012	57.00	60.00	1605	0.034	0.087			0.121
A 012	60.00	63.00	1606	0.024	0.085			0.109
A 012	63.00	66.00	1607	0.025	0.020			0.045
A 012	66.00	69.00	1608	0.018	0.028			0.046
A 012	69.00	72.00	1609	0.033	0.007			0.040
A 012	72.00	75.00	1610	0.026	0.010			0.036
A 012	75.00	78.00	1611	0.023	0.008			0.031
A 012	78.00	81.00	1612	0.045	0.010			0.055
A 012	81.00	84.00	1613	0.024	0.008			0.032
A 012	84.00	87.00	1614	0.020	0.005			0.025
A 012	87.00	90.00	1615	0.032	0.008			0.040
A 012	90.00	93.00	1616	0.070	0.012			0.082
A 012	93.00	96.00	1617	0.030	0.013			0.043
A 012	96.00	99.00	1618	0.029	0.008			0.037
A 012	99.00	102.00	1619	0.038	0.013			0.051
A 012	102.00	105.00	1620	0.078	0.013			0.091
A 012	105.00	108.00	1621	0.084	0.015			0.099
A 012	108.00	111.00	1622	0.230	0.017			0.247
A 012	111.00	114.00	1623	0.123	0.020			0.143
A 012	114.00	117.00	1624	0.263	0.023			0.286
A 012	117.00	120.00	1625	0.280	0.020			0.300
A 012	120.00	123.00	1626	0.194	0.017			0.211
A 012	123.00	126.00	1627	0.089	0.020			0.109
A 012	126.00	129.00	1628	0.042	0.012			0.054
A 012	129.00	132.00	1629	0.043	0.023			0.066
A 012	132.00	135.00	1630	0.047	0.027			0.074
A 012	135.00	138.00	1631	0.054	0.023			0.077
A 012	138.00	141.00	1632	0.020	0.015			0.035
A 012	141.00	144.00	1633	0.039	0.015			0.054
A 012	144.00	147.00	1634	0.076	0.018			0.094
A 012	147.00	150.00	1635	0.109	0.012			0.121
A 012	150.00	153.00	1636	0.101	0.018			0.119
A 012	153.00	156.00	1637	0.089	0.017			0.106

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	156.00	159.00	1638	0.131	0.013			0.144
A 012	159.00	162.00	1639	0.128	0.018			0.146
A 012	162.00	165.00	1640	0.163	0.015			0.178
A 012	165.00	168.00	1641	0.349	0.053			0.402
A 012	168.00	171.00	1642	0.443	0.033			0.476
A 012	171.00	174.00	1643	0.320	0.025			0.345
A 012	174.00	177.00	1644	0.318	0.018			0.336
A 012	177.00	180.00	1645	0.232	0.018			0.350
A 012	180.00	183.00	1646	0.213	0.027			0.240
A 012	183.00	186.00	1647	0.290	0.048			0.338
A 012	186.00	189.00	1648	0.238	0.055			0.293
A 012	189.00	192.00	1649	0.358	0.040			0.398
A 012	192.00	195.00	1650	0.142	0.025			0.167
A 012	195.00	198.00	1651	0.151	0.027			0.178
A 012	198.00	201.00	1652	0.207	0.022			0.209
A 012	201.00	204.00	1653	0.252	0.025			0.277
A 012	204.00	207.00	1654	0.397	0.032			0.429
A 012	207.00	210.00	1655	0.131	0.023			0.154
A 012	210.00	213.00	1656	0.177	0.020			0.197
A 012	213.00	216.00	1657	0.162	0.013			0.175
A 012	216.00	219.00	1658	0.253	0.015			0.268
A 012	219.00	222.00	1659	0.150	0.018			0.168
A 012	222.00	225.00	1660	0.090	0.017			0.107
A 012	225.00	228.00	1661	0.239	0.020			0.259
A 012	228.00	231.00	1662	0.143	0.020			0.163
A 012	231.00	234.00	1663	0.132	0.020			0.152
A 012	234.00	237.00	1664	0.119	0.027			0.146
A 012	237.00	240.00	1665	0.110	0.018			0.128
A 012	240.00	243.00	1666	0.039	0.027			0.066
A 012	243.00	246.00	1667	0.072	0.017			0.089
A 012	246.00	249.00	1668	0.207	0.040			0.247
A 012	249.00	252.00	1669	0.194	0.047			0.241
A 012	252.00	255.00	1670	0.146	0.033			0.179
A 012	255.00	258.00	1671	0.135	0.030			0.165
A 012	258.00	261.00	1672	0.079	0.047			0.126
A 012	261.00	264.00	1673	0.080	0.037			0.117
A 012	264.00	267.00	1674	0.133	0.033			0.166
A 012	267.00	270.00	1675	0.132	0.078			0.210
A 012	270.00	273.00	1676	0.154	0.048			0.202
A 012	273.00	276.00	1677	0.102	0.038			0.140
A 012	276.00	279.00	1678	0.110	0.043			0.153
A 012	279.00	282.00	1679	0.068	0.053			0.121
A 012	282.00	285.29	1680	0.112	0.040			0.152

				PB AU	PM AG	PM W	PM SN	PM PB	PM ZN		HASH	TOTAL
A UMM				MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN			
A LAB				AQR-AA	PCL-AA	COLOR	COLOR	PCL-AA	PCL-AA			
A MTH				COMPOS	COMPOS	COMPOS	COMPOS	COMPOS	COMPOS			
A TYP												
A 013	12.00	21.00		10	0.6	-2	-2	9	6	6500	3	
R ASY	12.00	21.00	DETECTION LIMIT IS PRECEDED BY A MINUS SIGN									
A 013	21.00	30.00		10	0.6	5	-2	5	5	8100	-1	
A 013	30.00	39.00		20	0.5	3	2	3	6	4900	1	
A 013	39.00	48.00		45	0.7	2	11	149	12	7900	19	
A 013	48.00	57.00		5	0.4	2	2	3	11	6600	-1	
A 013	57.00	66.00		10	0.3	-2	2	1	13	4300	-1	
A 013	66.00	75.00		5	0.5	2	-2	6	14	4600	-1	
A 013	75.00	84.00		5	0.6	2	2	7	17	5200	6	
A 013	84.00	93.00		10	0.5	-2	-2	5	16	4000	-1	
A 013	93.00	102.00		10	0.5	-2	2	6	22	3900	3	
A 013	102.00	111.00		15	0.8	2	2	4	15	8600	4	
A 013	111.00	120.00		20	1.1	2	2	5	21	18900	-1	
A 013	120.00	129.00		25	0.5	-2	-2	9	17	13300	3	
A 013	129.00	138.00		15	0.3	-2	2	3	19	12600	3	
A 013	138.00	147.00		5	0.3	-2	-2	4	11	6900	-1	
A 013	147.00	156.00		20	0.4	2	-2	2	13	9200	-1	
A 013	156.00	165.00		20	1.0	-2	-2	12	17	14000	-1	
A 013	165.00	174.00		30	2.4	2	-2	7	30	20600	18	
A 013	174.00	183.00		25	1.4	2	2	6	29	18200	6	
A 013	183.00	192.00		25	1.8	-2	-2	12	47	19300	20	
A 013	192.00	201.00		10	1.0	3	2	7	25	9500	5	
A 013	201.00	210.00		20	1.3	2	2	8	24	7100	-1	
A 013	210.00	219.00		15	0.7	2	-2	10	20	6500	2	
A 013	219.00	228.00		15	0.6	-2	-2	8	18	5700	-1	
A 013	228.00	237.00		10	0.4	-2	3	9	20	5200	3	
A 013	237.00	246.00		10	0.3	2	2	7	14	9300	1	
A 013	246.00	255.00		15	0.8	2	-2	6	15	4900	7	
A 013	255.00	264.00		5	0.2	2	-2	2	11	5500	-1	
A 013	264.00	273.00		5	0.3	-2	-2	3	11	6800	-1	
A 013	273.00	282.00		5	0.2	-2	2	6	14	4400	-1	
R ASY	273.00	282.00	END OF WCDH024									

R SUM ROCK TYPE GOES FROM QZPP TO FLST TO APLT AND QZPP.NO SHARP CONT-

R SUM ACTS.MINERALIZATION CHANGES FROM DISSEMINATED TO MOSTLY VEINLETS

R SUM WITH DEPTH.ALT. GENERALLY APPEARS TO INCREASE IN INTENSITY WITH

R SUM DEPTH-GOING FROM FRESH ROCK THROUGH PROPYLITIC THROUGH PHYLLIC.

R SUM APLT AT DEPTH APPEARS SIMILAR TO ROCK AND MINERALIZATION IN

R SUM DDH 23.

[illegible]>SEDLUD>S[illegible]DC01>WRITHG>PRLOG

GCOS6 MOD400-L2.0-12/10/0744

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1981/03/05 1315:51.0 ILPT00 HONEYWELL BILLERICA

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[illegible]>SEDLUD>S[illegible]DC01>WRITHG>PRLOG

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.
WHITING CK PORPHYRY MO-CU DEPOSIT BC

FORMAT VERSION : 6802

DRILLHOLE/TRAVERSE : MCDH025	COLLAR ELEVATION:	1445.00	AZIMUTH(DEG) :	12.00	GEOLOGGED BY : RMC +
TOTAL DEPTH/LENGTH : 288.34	NORTHING(- IF S):	2698.00	VERTICAL ANGLE :	-60.00	DATE (YY/MM/DD): 801023
CORE/HOLE DIAMETER : NQ	EASTING (- IF W):	2258.00	CO-ORD SYSTEM :	MAP	PROJECT NUMBER : 4942

SEQ. NO OF SURVEY DATA	LENGTH FROM COLLAR TO SURVEY POINT	AZIMUTH (DEG)	VERT. ANGLE (DEG)
1	~~288.34~~ 152.40	12.00	-36.00
2	288.34	12.00	-46.00

K E Y	F L G	- INTERVAL - FROM - TO - (UNITS = M=METRIC F=FOOTRIC)	DEC.PLACE)	CORE RECOV- ERY	T- % M O X	ROCK TYPE	TYPI- FYING TM	QAL MIN MAT TM	TEX- TURES TX 1	TX 2	GRAIN CHARACS F	C	%	A	M	TOTAL FRAC DEN	PGI /RI	T	STRUCTUR-1 ID	STK	DIP	ALTERATION MINS H A	H A	H A	H A	H A	ANY MIN	ORE-TYPE MINS H A	H A	H A	ANY MIN	SUMMARY ALT	ORE
K E Y	F L G			ROCK QUAL DESIG	FM AGE	RT FM- VIR	TM LC- COL	QM2	TX 3	TX 4	S O R	R N D	S H P	/ C	M L	S		T	STRUCTUR-2 ID	STK	DIP	KF A	MU A	CL A	EP A	HE A	XX A	PR A	MO A	SL A		1 2	1 2
/	OVB	0.00	3.05	3.05		OVER											P															
L																																
R		0.00	3.05	CASING TO 3.05M,NO CORE																												
/	OVB	3.05	6.00	2.95	186	OVPP					3	5	2	5			P		V1		57		P/					LI	5M		
L					050		9A						0										P=					F=	00		
/		6.00	9.00	3.00	263	OVPP					3	5	2	5			P		V1		45		0) P/			8)		LI	5M		
L					099		9A						0										P= 0.					F=	00		
/		9.00	12.00	3.00	264	OVPP					3	5	2	5			P		V1		57	<.	0) 00			8)		LI	7L	5M	
L					013		9A						0										7=					F)	01		
/	FLT	9.19	9.75	0.56	186	X OVPP					3	5	2	5			R		SH		80		G1					LI	5M		
L					050		9A						0										P=					F=	00		
/		12.00	15.00	3.00	260	OVPP					3	5	2	5			P		V2		52	<.	0) P/			8)		80	7L	5N	
L					127		9A						0										8=					D.	01		
/		15.00	18.00	3.00	249	FLOP		TC			3	5	2	6			P		V1		65		0)			8+			7L	58	
L					028		5A						0						V1		90		81 G.							00	
R		15.00	18.00			BY DEPLACTIVE MR																											
/		0.00	0.00	0.00		1 OVPP											R																
L																																
/		18.00	21.00	3.00	221	FLOP		TC			3	5	2	6			P		V1		85	<.	0)			8+	0.	CV	7L	58	
L					028		5A						0						V1		90		81 G.					0.		01	
/		21.00	24.00	3.00	240	OVPL		TC			3	5	2	6			P		V1		75		0+			<* 8+		LI	7L	5L	
L					127								0										8)					F(	00		

K E Y	F -L-	F G	FROM -	TO -	INT	RECOV SZO	MD AGE	X EV	ROCK RG	TM LC	TM	QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFDM SML	RI	1 2	ID ID	AZM AZM	DIP DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/			24.00	27.00	3.00	278			QMPP					4 5 3 6				P		V1		50		00				6+				5L	
L						097				7A				0										71	G.								00	
/			27.00	28.18	1.18	110			QMPP					4 5 3 6				P		V1		75		00				6)				5F	
L						028				7A				0										71	G.								00	
/			28.18	30.00	1.82	153			PPFL					3 5 1 6				P		V1		82		0+			<)	<)			LI			
L						112				5A				0										6=							F)		00	
/			30.00	32.10	2.10	132			PPFL					3 5 1 6				P		SH		40		0+	G*		<)	<)			LI	7L	5F	
L						092				5A				0										6=	G.	G.					F)		00	
/			32.10	33.00	0.90	060			QMPP					4 5 3 6				P		V1		90						6=				5F	
L						00				8A				0										P=									00	
/	FLT		33.00	35.56	2.56	046			QMPP					4 5 3 6				P		V1		90			P2			6=				3H	5L	
L						016				8A				0										P=									00	
R			33.00	35.54		MOST FL PLUCKED,INDICATING ARGILLIC ALT. OF FL.																														
/			35.56	36.00	0.44	044			QZPP					3 5 3 6				P		V5		70	<1								LI			
L						00			AP	8A				0										E2					<(		F(		03	
R			35.56	35.56		CONTACT NOT VISIBLE DUE TO CORE BEING BADLY BROKEN																														
/			36.00	39.00	3.00	206			QZPP					3 5 3 6				P		V5		73	<=					7*			LI			
L						038			AP	8A				0										E2					<(		C)		15	
/			39.00	42.00	3.00	236			QZPP					3 5 2 6				P		V5		60	<+					7)			LI	5L		
L						055				7A				0										P=					<(		F)		10	
R			39.00	42.00		ROCK HAS FINE SPECKLED APPEARANCE DUE TO DISSEM. PY																														
/			42.00	45.00	3.00	278			QZPP					3 5 2 6				P		V6		60	<=		Q1			7*			LI	5L		
L						089				7A				0										P=					<(		P=		15	
P			4.20	4.49		PATCHES OF LI STAINED CY,LOCAL AREAS OF GRAPHIC QZ																														
/			45.00	48.00	3.00	275			QZPP					3 5 2 6				P		V5		60	<=		Q1			7*			LI	5I		
L						110				7A				0										P=					<(		P=		12	
/			48.00	51.00	3.00	290			QZPP					3 5 2 6				P		V5		52	<=					8)			LI	5M		
L						151				7A				0										P1					<(		F*		14	
/			51.00	54.00	3.00	283			QZPP					3 5 2 6				P		V1		62	<=		Q+			8*			LI	5P		
L						139				7A				0										P1					<(		F*		16	
/			54.00	57.00	3.00	277			QZPP					3 5 2 6				P		V5		76	<+		Q=			8*			LI	5L		
L						121				7A				0										P=					<(		F)		08	
R			5.83	6.33		SMALL (1-3MM) GRAINS OF PINK MINERAL,H=0.5,SMALL PIYGMATIC <.5																														
R			56.00	57.00		OF QZ AND IRREGULAR QZ PATCHES SUGGEST SOME QZ IS PRIMARY IN																														
R			56.00	57.00		ORIGIN BUT HAS BEEN 'EATEN' OUT OF ORIGNAL ROCK.PINK MINERAL																														
R			56.00	57.00		MAY BE [illegible](?).																														
/			57.00	60.00	3.00	279			QZPP					3 5 2 6				P		V3		80	<+		Q=			7*			LI	5L		
L						116				7A				0										P=					<(		F)		07	

KEY	F	FROM -	TO -	INT	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
KEY	G					ROD		AGE	FV	RG	LC	TM	QM2	TX	TX	S	R	S	O	SML		2	ID	AZM	DIP	KF	MU	CL	EP	HE	XX	PR	MO	SL				
R		5.70	6.00					LOCAL PATCHES OF 'TYPICAL' AP QZPP																																	
/		60.00	63.00	3.00	300			QZPP						3	5	1	6		P		V5		70	<=							7*			LI	SL			
L					130					7A							0							P=							8(			C)	09			
/		63.00	66.00	3.00	278			QZPP						3	5	1	6		P		V5		56	<+		F*					6*			AL	SB			
L					140					7A							0							P=							<(			O*	04			
/		65.52	66.00	0.48			2	APLT						3					R															LI				
L										BA																							F*				
/		66.00	69.00	3.00	259			APLT						3					P		V5		64	<=							7*			AL	SM			
L					136					BA														P=							<(			Q)	08			
R		63.00	66.00		QZPP APPEARS TO OCCUR AS XENOLITHS IN APLT.CONTACTS FUZZY OVER																																			
R		66.00	69.00		2 TO 3MM.MINERALIZATION SAME IN BOTH.																																			
R		66.00	69.00		LJ OCCURS IN FRACTURES.																																			
/		69.00	72.00	3.00	300			APLT						3					P		V1		70	V=							6)			AL	SM			
L					187					BA														P=							<(			O=	04			
R		69.00	72.00		LI IN FRS.VUGGY QZ VNS CONTAIN PY AND MO.																																			
/		0.00	0.00	0.00			5	QZPP						3	5	2	6		R																			
L								AP									0																					
/		72.00	75.00	3.00	260			QZPP						3	5	2	6		P		V1		70	<+							6)			AL	SM			
L					135			AP	7A								0				V2		77		P=							<(			O=	05			
R		72.00	75.00		LOCAL FERRI-MO WITH MO,MINOR LI ON F.																																			
/		75.00	78.00	3.00	271			QZPP						3	5	2	6		P		V3		70	V+		G*					6+			AL	SM			
L					092			AP	7A								0				V2		77		P=							<(			O=	07			
R		75.00	78.00		MINOR LJ IN F.																																			
/		0.00	0.00	0.00			2	APLT						3					R																			
L										7A																												
/		78.00	81.00	3.00	300			APLT						3					P		V5		70	<=							6)			AL	SB			
L					121					7A											V1		60		P+							<(			<)	09			
R		78.00	81.00		FERRIMO WITH MO.																																			
/		0.00	0.00	0.00			5	QZPP						3	5	2	5		R																			
L										7A							0																					
/		81.00	82.62	1.62	123			APLT						3					P		V5		83	<=							6+			AL	SB			
L					028					7A											V1		60		P+							<(			<)	04			
/	DYK	82.62	84.30	1.68	132			PPAN						3	5	2	5		P		CN		U55		O)					<*	<*				SL	7L		
L					03A					BA							0								E+							<.				00		
R		82.62	84.00		N CN SHEARED,DYKE INTRAMINERAL-NO QZ V,TRACE MO,PY V WITH 5-E.																																			
/	DYK	84.00	84.40	0.40	035			PPAN						3	5	2	5		P		CN		U55		O)					<*	<*				SL	7L		
L					000					BA							0								E+							<.				00		

KEY	FROM	TO	INT	RECOV / ROCK	MD % / AGE	TM / EV	TM / RQ	TM / LC	TM / TM	QM1 / QM2	TX / TX	TX / TX	F / S	C / R	% / S	M / O	TFDM / SML	RI / 2	1 ID	AZM	DIP	QZ / KF	BI / MU	CY / CL	CB / EP	MG / HE	GY / XX	PY / PR	CP / MO	GL / SL	YY	F / I	I / Z	I
/	84.40	87.00	2.60	166	APLT										3			P	V1		46	<+		G1				6)			5L			
L				032				7A											SH		85		P+						<.		04				
R	FLT	86.60	87.00		FLT GOUGE AND BLOCKY CORE.																														
/		87.00	90.00	3.00	167	APLT										3			P	V1		30	<+		G1				<+			5L			
L				016				7A											SH		85		P)						<.		03				
R		87.00	90.00		SIGNIFICANT DECREASE IN MO.COMPARED TO ABOVE INTERVALS.																														
/	FLT	87.00	88.82	1.82					X	FAUL								R						G5										
L																																		
/	DYK	90.00	92.15	2.15	162	PPAN					TC		3	5	2	5		P	SH		53		D)	G+				<)			5L	7L		
L				000				4A								0			V1		36		E)								00			
/		92.15	93.00	0.85	076	APLT												P	V1		60	<+						6+			BO	5T		
L				026																			P)							<.	01		
R		92.15	93.00		POSSIBLE CC AT 93.0M																														
/		93.00	96.00	3.00	193	APLT												P	V3		90	<=		F)				6+			BO	5T		
L				014																			P)						<.	<.	07		
/		96.00	99.00	3.00	210	APLT												P	V1		72	<+						<+	<.		CV	5T		
L				020																			P+						<.		B.	05		
/	MSX	98.75	99.00	0.25					X	MSSX								R	SH		80	V1						M9	O=		C			
L																																C(		
R		96.00	99.00		CORE EXTREMELY FRACTURED AND BROKEN																														
/	MSX	99.00	102.00	3.00	300	MSSX												P				>3						M3	B)		CC			
L				114																									#+		C*	02		
R		99.00	102.00		MINOR CV WITH CP																														
/		101.28	102.00	0.72					X	APLT								R				>1						>1						
R		101.28	102.00		SECTION PROBABLY REPRESENTS A QZ > FOLLOWING A SHEAR.A SECTION																														
R		101.28	102.00		A THE > HAS BEEN BRECCIATED AND FILLED WITH MO.																														
/		102.00	105.00	3.00	255	APLT										3		P	V3		35	V+						6)			C			
L				054				7A																					<(		C.	09		
/		105.00	108.00	3.00	138	APLT										3		P	V3		35	V+						6)			C	5L		
L				042				7A																					<(		C.	02		
/	MSX	105.00	105.90	0.90					X	MSSX								R	SS		43	>2						M8						
R		105.00	105.90		PARTLY SHEARED,SIGNIFICANT GOUGE.																														
/		108.00	111.00	3.00	230	APLT										3		P	SH		90	<=		G+				6+			C			
L				039				7A											V5		67		P+						<(		C.	14		
R		108.00	111.35		CORE BADLY BROKEN.NUMEROUS GOUGE FILLED SHEARS AT APPROX 90 .																														
/		111.00	114.00	3.00	237	APLT										3		P	V5		60	<+		G)				6)			C	5L		
L				029				7A											V2		48		P+						<(		C.	03		

KEY	G	FROM	TO	INT	RECOV / ROD	MD	% AGE	ROCK / EV	TM / RQ	TM / LC	QM1 / TM	QM2	TX	TX	F	C	%	M	TFDM / SML	RI	1 / 2	ID	AZM	DIP	QZ / KF	BI / MU	CY / CL	CB / EP	MG / HE	GY / XX	PY / PR	CP / MO	GL / SL	YY	F	I	Z	I
/		114.00	117.00	3.00	183			APLT							3					P		V5		55	<+		G=					6*			C		5L		
L					027				7A													SH		35		P+								<(	C.		05		
R		114.00	117.00		NUMEROUS GOUGE FILLED SHEARS,E.G. 114.60M,114.95M,115.33M																																				
/		117.00	120.00	3.00	209			APLT							3					P		V5		55	D)							6*					5L		
L					056				7A																	P+								<-			03		
/	FLT	117.04	118.57	1.53				X FAUL												R		SH		75	V2		G1					M1							
L																																								
/		120.00	123.00	3.00	288			APLT							3					P		V5		60	<+							6)					5L		
L					150				7A																	P+								<(			09		
/		123.00	126.00	3.00	284			APLT							3					P		V5		72	<=							6)			AL		5L		
L					145				7A																	P+	P+							<-	0)		10		
/		0.00	0.00	0.00			6	QZPP							2	5	2	6		R																			
L								AP	9A									0																						
/		126.00	129.00	3.00	277			APLT							3					P		V5		75	<)		F*					6)					5L		
L					098				7A																	P+								<-			03		
/		0.00	0.00	0.00			5	QZPP							2	5	2	6		R																			
L								AP	9A									0																						
/		129.00	132.00	3.00	282			APLT							3					P		V5		68	<+							7*					5L		
L					074				7A																	P+								<-			06		
/		0.00	0.00	0.00			3	QZPP							2	5	2	6		R																			
L									9A									0																						
/		132.00	135.00	3.00	256			APLT							3					P		V1		48	<+							6)					5L		
L					120				7A																	P+								<-			05		
/	FLT	133.02	134.50	1.48				X FAUL												R		SH		85			G=												
L																																								
/		135.00	138.00	3.00	286			APLT							3					P		V1		62	<)		F)					6+		C1			5L		
L					167				7A																	P+								<.	C.		04		
/		0.00	0.00	0.00			2	QZPP							3	5	2	6		R																			
L								AP	9A									0																						
R		135.00	138.00		LOCAL PINK COLOURATION TO ROCK-POSSIBLY FL.																																				
/		138.00	141.00	3.00	273			APLT							3					P		V1		58	<1							7*					5L		
L					091				6A													V3		75		P)								<-			01		
/		0.00	0.00	0.00			3	QZPP							3	5	2	6		R																			
L								AP	7A									0																						
/		141.00	144.00	3.00	278			APLT							3					P		V3		68	<*							7)					5L		
L					128				6A													V3		75		P)								<(			03		

KEY	F	FROM	- TO -	INT	RECOV / ROD	MD % AGE	ROCK EV	TM 80	TM LC	QM1 QM2	TX TX	TX TX	F S	C R	% S	M O	TFOM SML	RI 2	1 ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/		144.00	147.00	3.00	290		APLT							3				P	V5		79	<)								6)			5T
L					120			6A											V1		60	P)								<(			05
/		147.00	150.00	3.00	275		APLT							3				P	V3		73	<*								6)			5T
L					149			6A											V1		75	P)								<-			02
/		150.00	153.00	3.00	292		APLT							3				P	V2		30	<)	F*							6+			5T
L					154			6A											V3		76	P)								<-			07
/		153.00	156.00	3.00	298		APLT							3				P	V5		75	<*								6+		AL	5T
L					193			6A											V3		75	P*								<(	E*		03
/		156.00	159.00	3.00	241		APLT							3				P	V5		75	<+								6)			5T
L					162			7A														P*								<(			06
/		159.00	162.00	3.00	277		APLT							3				P	V1		55	<)								6+			5T
L					150			7A														P*								<(			05
/		162.00	165.00	3.00	300		QZPP		FL				3	5	2	5		P	V5		90	<+								6)			5L
L					083			AP	7A							0						P)								<*			05
R		162.00	165.00		NO DISTINCT CHANGE FROM APLT TO QZPP, MATRIX SAME AS APLT, HOW-																													
R		162.00	165.00		EVER QZ PHENOS BECOME MORE DISTINCT AND ABUNDANT.																													
/		165.00	168.00	3.00	286		QZPP		FL				3	5	2	5		P	V5		90	<=								6)			5L
L					068			AP	7A							0			SH		80	P)								<(			11
/		168.00	171.00	3.00	279		QZPP		FL				3	5	2	5		P	SH		75	<+	G)							V+			5L
L					047			AP	7A							0						P)								<(			07
/	FLT	169.60	169.79	0.19		X	FAUL											R	SH		90												
R	FLT	169.60	169.79		SEVERAL SMALL FAULTS AT STEEP ANGLE TO CORE AXIS, E.G. 168.00 TO																													
R	FLT	169.60	169.79		168.77, 169.60 TO 169.79, AND 170.69 TO 170.90M.																													
/		171.00	174.00	3.00	249		APLT							3				P	V2		80	<+								6+			5L
L					188			7A														P)								<.			07
/		174.00	177.00	3.00	295		APLT							3				P	SH		65	<)								6)			5L
L					160			7A														P)								<.			04
/		0.00	0.00	0.00		6	QZPP						2	5	2	6		R															
L								AP	9U							0																	
/		177.00	179.22	2.22	212		APLT							3				P	V2		80	<)								6+		CV	5L
L					034			7A														P)								C.			06
/		179.22	180.00	0.78	077		QZDR								5	6		P	V1		55												5F
L					012			7A														P=											00
R		179.22	180.00		GRADATIONAL CONTACT BETWEEN APLT AND QZDR																													
/		180.00	183.00	3.00	298		QZDR								5	6		P	V1		65		F)							<+	<.		5F 1L
L					032			7A														P=	P+										01

KEY	F -L- G	FROM ----.--	TO ----.--	INT ---.--	RECOV ---.--	MD AGE	% ROCK RQD	TM EV	TM QM1 RQ	TX LC	TX TM	F QM2	C TX	% M S	TFOM SML	RI 1 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	FIZI
R		180.00	183.00		COULD QZDR BE HIGHLY ALT. QMPP(?).																									
/		183.00	186.00	3.00	260	QZDR							5	6		P	V1	62		F)					<)	<.			5F	
L					092		7A												P=	P+									00	
/		186.00	189.00	3.00	260	QZDR							5	6		P	V2	75	<)	F)					6+		80		5F	
L					013		7A													P+							B.		02	
/		189.00	192.00	3.00	273	QZDR							5	6		P	V1	52	V=	F)					6=				5F	
L					000		7A													8=						<.			03	
R		189.00	192.00		AREAS OF DISTINCT PPFL FADE INTO MORE INTENSELY ALT.GREY QZDR																										
R		189.00	192.00		THESE AREAS POSSIBLY ARE PHYLLIC E^S OF VARYING WIDTHS.																										
R		186.40	190.50		CORE BADLY FRACTIO.																										
/		192.00	195.00	3.00	286	QZDR							5	6		P	V3	90	V)	F*					6+		C		5F	
L					031		7A													P*							C.		03	
R		192.00	196.40		CORE WELL FRACT^D.																										
/		195.00	196.45	1.45	109	QZDR			IQ	4	5	2	6			P				F*					6)		C		5L	
L					000		6A													P)							C.		00	
R		196.45	196.45		GRADATIONAL CN.																										
/	CN/	196.45	198.00	1.55	153	APLT										P	V3	85	V(						6)		C		5T	
L					088		7A										V1	65		P)						<-	C.		01	
/		198.00	201.00	3.00	268	QZPP							3	5	1 5	P	V3	80							<*		LI			
L					072		AP	9R							0					E=						<(	F.		00	
/		201.00	204.00	3.00	290	QZPP							3	5	1 5	P	V3	55	<)						6)		LI		5F	
L					122		AP	9R							0		V1	80		E=						<-	F.		06	
/		204.00	207.00	3.00	282	QZPP							3	5	1 5	P	V5	55	7=						7)		LI			
L					135		AP	9R							0					E=						<-	F.		02	
/		207.00	210.00	3.00	287	QZPP							3	5	1 5	P	V3	85	<)					<*	7)		LI			
L					165		AP	9R							0		V1	60		E=						<-	F.		06	
R		207.00	210.00		GY FIRST APPEARS																										
/		210.00	213.00	3.00	297	QZPP							3	5	1 5	P	V4	06						<*	6+		LI			
L					239		AP	9R							0					O)						<-	F.		00	
/		213.00	216.00	3.00	306	QZPP							3	5	1 5	P	V6	60	<-					<-	7)		LI			
L					280		AP	9R							0					E=						<-	F.		04	
/		216.00	219.00	3.00	288	QZPP							2	5	2 5	P	V2	38	<*					<-	6)				5L	
L					196		AP	9R							0					E+						<.			04	
/	DY*	217.51	218.01	0.50		Y FLST			CN	FB	1					R			00						<)	<.				
L																				00							00			
R		217.51	217.51		UPPER CONTACT VERY IRREGULAR																										
/		219.00	222.00	3.00	269	QZPP							2	5	2 5	P	V3	78	<-					<*	6)				5L	
L					175		AP	9R							0					E=						<(			02	

KEY	F/L/R	FROM	TO	INT	RECOV / ROD	MO % / AGE	ROCK / EV	TM / RQ	TM / LC	QM1 / TM	QM2 / TX	TX / TX	F / S	C / R	% / S	M / O	TFOM / SML	RI	1 / 2	ID	AZM	DIP	QZ	BI	CY	CB	MG	GY	PY	CP	GL	YY	F	I	Z	I
/ DYK	220.63	221.79	1.16			X FLST		CM FB										R		CN	U55									<) 7-						
L																				CN	L50														
/	222.00	225.00	3.00	290		QZPP						2 5 2 5						P		V1	72	V2								<) 6+				5H		
L				236		AP 6A										0				V5	90		P1								<(			07		
R	222.00	225.00		POSSIBLY SILICIFICATION OF QZPP																																	
/	225.00	228.00	3.00	300		QZPP						2 5 2 5						P		V5	90	V1								<) 6)				5H		
L				275		AP 6A										0							E+								<(			05		
R	225.00	228.00		QZPP LARGELY ALT.ABOUT 25 OF CORE IS UNALTERED PATCHES OF QZPP																																	
R	225.00	228.00														P1																				
/	228.00	231.00	3.00	300		QZPP						2 5 2 5						P		V2	57	V=								<* 6)				5H		
L				275		AP 6A										0				V4	70		P1								<(			10		
/	231.00	234.00	3.00	295		QZPP						2 5 2 5						P		V5	75	V1								<* 6)				5H		
L				236		AP 6A										0							P1								<(			07		
R	231.00	234.00		PY V^S CUT QZ-MO V^S.																																	
/	234.00	237.00	3.00	297		QZPP						2 4 2 5						P		V3	90	V=								<* 6+				5 H		
L				256		6A										0				V2	65		P1								<(			08		
/	237.00	240.00	3.00	278		QZPP						2 4 2 5						P		V4	45	<+								<* 6+				5 SH		
L				185		6A										0				V3	50		P1								<-			07		
/	240.00	243.00	3.00	292		QZPP						2 4 2 5						P		V5	65	<=								<* 6+				5 SH		
L				252		6A										0				V2	70		P1								<(			14		
/	243.00	244.38	1.38	137		QZPP						2 4 2 5						P		V5	80	V=								<(7)				5 H		
L				136		6A										0				V2	65		P1								3-			02		
/ DYK	244.38	246.00	1.62	160		PPAN	FL	HB	CM TC									P		CN	U55						D.			<) 6)				5F 7L		
L				157		2A																E+	O=		O)									00		
/ DYK	246.00	249.00	3.00	292		PPAN	FL	HB	CM TC									P		CN	U55						D.			<) 6)				5F 7L		
L				240		2A																E+	O=	S(| O)									00		
R	244.38	249.27		PY CONCENTRATED AS DISSEM. AT DYKE MARGINS.																																	
/ DYK	249.00	249.27	0.27	027		PPAN	FL	HB	CM TC									P		CN	L70						D.			<) 8+				5F 7L		
L				027		2A																E+	O=		O)									00		
/	249.27	252.00	2.73	273		QZPP						2 5 2 6						P		V5	70	<*								<) 6+				5M		
L				227		7A										0							E2								<-			03		
/	252.00	253.91	1.91	191		QZPP						2 5 2 6						P		V5	65	<*								<) 6+				5M		
L				189		RR										0							E2								<-			07		
/ DYK	253.91	255.00	1.09	094		FLST				PP		2 4 2 4						P		SH	40									<*						
L FLT				00						RR						0																		00		
R	253.91	254.81		FLT ZONE.MIXTURE GOUGE AND SHEARED ROCK.SH GENERALLY 35-40D.																																	

K E Y	F -L- G	FROM -	TO -	INT	RECOV RQD	MD % AGE	ROCK EV	TM RQ	TM LC	TM QN1	TM QN2	TX 1	TX 2	F 3	C 4	% 5	M 6	TFDM SML	RI 2	I ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F I Z I
/	DKK	255.00	255.54	0.54	054		FLST		PP			2	4	2	4		P			CN	L55							<*				
L					000			BR							0																	00
/		255.54	258.00	2.46	235		QZPP							2	4	2	4		P		V2	55	<)	G*			7*				5B	
L					178			QR							0						SH	55		S(				<-			06	
/		258.00	260.73	2.73	261		QZPP							2	4	2	4		P		SH	70	<)	G*			7*				5B	
L					147			QR							0						SH	55		S(				<-			04	
R		259.94	260.07		FAULT ZONE,DIPPING ABOUT 70 DEG TO AXIS																												
/	DYK	260.73	261.00	0.27	027		PPAN	FL	PP			2	4	2	5		P						E)	P(			<*	6+				
L					021			QA							0																	00
/	DYK	261.00	261.56	0.56	054		PPAN	FL	CM			2	4	2	5		P			CN	L80		E)	P(			<*	6+				
L					039			QA							0																	00
R		260.73	261.55		DYKE CUTS QZ-MO VNS.																												
/		261.56	264.00	2.44	237		QZPP										P						<)				<(	6)			5T	
L					177																								<.			04
/		264.00	267.00	3.00	297		QZPP										P			V3	63	<+					<(	6)			5T	
L					284																		E)						<(			13
/		267.00	268.43	1.43	142		QZPP										P			V5	78	<)					<(	6)			5L	
L					118																								<.			03
/	DYK	268.43	270.00	1.57	156		PPAN	FL	PP			2	4	2	5		P			CN	U45		O)				<*	7)			7L	
L					106			QA							0						V1	58	E)									00
/	DYK	270.00	273.00	3.00	290		PPAN	FL	PP			2	4	2	5		P			SH	U70		O)				<*	7)			7L	
L					220			QA							0						V1	58	E)		O*							00
R		268.43	276.56		EP AFTER FL K-SPAR ENVELOPES WITH PY BI AFTER HB(?).																												
/	DYK	273.00	276.00	3.00	298		PPAN	FL	TC			3	5	3	6		P			V1	59		O)				<*	6)	<-			
L					234			QA							0								E)									00
R	FLT	276.56	276.56		LOWER CONTACT FAULTED,AT APPROX 70DEG. TO AXIS.ZONE OF GOUGE AND																												
R	FLT	273.00	276.00		SHEARED ROCK EXTENDS FROM 276.15 TO 277.16M.																												
/	DYK	276.00	276.56	0.56	053		PPAN	FL	TC			3	5	3	6		P			CN	L70		O)	G+			<*	6)	<-			
L					036			QA							0								E)									00
/		276.56	279.00	2.44	240		QZPP										P			V5	65	<)		G+			<.	6*				
L					115			QU													SH	70							<-			06
/		279.00	282.00	3.00	300		QZPP										P			V2	43	<+		G+			<.	6*			5L	
L					227			QU													SH	70		E+					<-			10
/		282.00	285.00	3.00	294		QZPP										P			V3	72	<+		G+			<.	6*			5L	
L					260			QU													V5	68		E+					<(			10
/		285.00	288.38	3.38	330		QZPP										P			V3	65	<+		G+			<.	6*			5T	
L					236			QU													SH	55							<-			06

KEY	F -L-	FROM -	TO -	INT	RECOV R Q D	MD % AGE	ROCK EV	TM RQ	TM LC	QM1 TM	QM2	TX TX	TX TX	F S	C R	% S	M D	TFDM SML	RI	1 2	ID	AZM	DIP	QZ KF	BI MU	CY CL	CB EP	MG HE	GY XX	PY PR	CP MO	GL SL	YY	F	I	Z	I
R		286.34	288.34			END OF 025																														

A UMM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	3.05	6.00	1681	0.027	0.002			0.029
A 012	6.00	9.00	1682	0.069	0.003			0.072
A 012	9.00	12.00	1683	0.049	0.002			0.051
A 012	12.00	15.00	1684	0.098	0.002			0.100
A 012	15.00	18.00	1685	0.123	0.002			0.125
A 012	18.00	21.00	1686	0.183	0.002			0.185
A 012	21.00	24.00	1687	0.158	0.002			0.160
A 012	24.00	27.00	1688	0.082	0.002			0.084
A 012	27.00	30.00	1689	0.080	0.002			0.082
A 012	30.00	33.00	1690	0.030	0.003			0.033
A 012	33.00	36.00	1691	0.005	0.013			0.018
A 012	36.00	39.00	1692	0.003	0.038			0.041
A 012	39.00	42.00	1693	0.002	0.023			0.025
A 012	42.00	45.00	1694	0.002	0.025			0.027
A 012	45.00	48.00	1695	0.003	0.033			0.036
A 012	48.00	51.00	1696	0.003	0.067			0.070
A 012	51.00	54.00	1697	0.002	0.018			0.020
A 012	54.00	57.00	1698	0.002	0.108			0.110
A 012	57.00	60.00	1699	0.003	0.035			0.038
A 012	60.00	63.00	1700	0.003	0.040			0.043
A 012	63.00	66.00	1701	0.006	0.067			0.072
A 012	66.00	69.00	1702	0.005	0.035			0.040
A 012	69.00	72.00	1703	0.002	0.063			0.065
A 012	72.00	75.00	1704	0.003	0.324			0.327
A 012	75.00	78.00	1705	0.003	0.078			0.081
A 012	78.00	81.00	1706	0.003	0.077			0.080
A 012	81.00	84.00	1707	0.029	0.118			0.147
A 012	84.00	87.00	1708	0.011	0.027			0.038
A 012	87.00	90.00	1709	0.015	0.017			0.032
A 012	90.00	93.00	1710	0.030	0.003			0.033
A 012	93.00	96.00	1711	0.007	0.035			0.042
A 012	96.00	99.00	1712	0.242	0.027			0.269
A 012	99.00	102.00	1713	2.730	3.653			6.383
A 012	102.00	105.00	1714	0.022	0.005			0.027
A 012	105.00	108.00	1715	0.045	0.038			0.083
A 012	108.00	111.00	1716	0.014	0.085			0.099
A 012	111.00	114.00	1717	0.007	0.072			0.079
A 012	114.00	117.00	1718	0.015	0.362			0.377
A 012	117.00	120.00	1719	0.068	0.367			0.435
A 012	120.00	123.00	1720	0.006	0.187			0.193
A 012	123.00	126.00	1721	0.010	0.028			0.038
A 012	126.00	129.00	1722	0.008	0.043			0.051
A 012	129.00	132.00	1723	0.005	0.025			0.030
A 012	132.00	135.00	1724	0.018	0.050			0.068
A 012	135.00	138.00	1725	0.009	0.027			0.036
A 012	138.00	141.00	1726	0.006	0.042			0.048
A 012	141.00	144.00	1727	0.004	0.060			0.064
A 012	144.00	147.00	1728	0.005	0.063			0.068
A 012	147.00	150.00	1729	0.007	0.022			0.029
A 012	150.00	153.00	1730	0.006	0.010			0.016

A UNM A LAB A MTH A TYP				%CU MIN-EN H-CORE	%MOS2 MIN-EN EQUIV H-CORE	%MOS2 MIN-EN ACTUAL H-CORE	HASH	TOTAL
A 012	153.00	156.00	1731	0.007	0.063			0.070
A 012	156.00	159.00	1732	0.005	0.120			0.125
A 012	159.00	162.00	1733	0.004	0.040			0.044
A 012	162.00	165.00	1734	0.006	0.199			0.205
A 012	165.00	168.00	1735	0.009	0.110			0.119
A 012	168.00	171.00	1736	0.011	0.190			0.201
A 012	171.00	174.00	1737	0.012	0.032			0.044
A 012	174.00	177.00	1738	0.006	0.030			0.036
A 012	177.00	180.00	1739	0.014	0.010			0.024
A 012	180.00	183.00	1740	0.086	0.002			0.088
A 012	183.00	186.00	1741	0.133	0.003			0.136
A 012	186.00	189.00	1742	0.042	0.003			0.045
A 012	189.00	192.00	1743	0.042	0.002			0.044
A 012	192.00	195.00	1744	0.110	0.002			0.112
A 012	195.00	198.00	1745	0.032	0.050			0.082
A 012	198.00	201.00	1746	0.004	0.040			0.044
A 012	201.00	204.00	1747	0.005	0.063			0.068
A 012	204.00	207.00	1748	0.003	0.053			0.056
A 012	207.00	210.00	1749	0.004	0.143			0.147
A 012	210.00	213.00	1750	0.003	0.028			0.031
A 012	213.00	216.00	1751	0.005	0.020			0.025
A 012	216.00	219.00	1752	0.005	0.008			0.013
A 012	219.00	222.00	1753	0.003	0.050			0.053
A 012	222.00	225.00	1754	0.002	0.097			0.099
A 012	225.00	228.00	1755	0.002	0.434			0.436
A 012	228.00	231.00	1756	0.002	0.063			0.065
A 012	231.00	234.00	1757	0.003	0.070			0.073
A 012	234.00	237.00	1758	0.002	0.122			0.124
A 012	237.00	240.00	1759	0.002	0.073			0.075
A 012	240.00	243.00	1760	0.003	0.063			0.066
A 012	243.00	246.00	1761	0.089	0.017			0.106
A 012	246.00	249.00	1762	0.101	0.002			0.103
A 012	249.00	252.00	1763	0.018	0.043			0.061
A 012	252.00	255.00	1764	0.019	0.057			0.076
A 012	255.00	258.00	1765	0.013	0.008			0.021
A 012	258.00	261.00	1766	0.005	0.023			0.028
A 012	261.00	264.00	1767	0.008	0.007			0.015
A 012	264.00	267.00	1768	0.006	0.050			0.056
A 012	267.00	270.00	1769	0.101	0.025			0.126
A 012	270.00	273.00	1770	0.138	0.002			0.140
A 012	273.00	276.00	1771	0.071	0.002			0.073
A 012	276.00	279.00	1772	0.026	0.030			0.056
A 012	279.00	282.00	1773	0.004	0.027			0.031
A 012	282.00	285.00	1774	0.004	0.084			0.088
A 012	285.00	288.34	1775	0.004	0.070			0.074

				PB AU	PM AG	PM W	PM SN	PM PB	PM ZN		HASH	TOTAL
A UMM				MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN	MIN-EN			
A LAB				AQR-AA	PCL-AA	COLOR	COLOR	PCL-AA	PCL-AA			
A NTH				COMPOS	COMPOS	COMPOS	COMPOS	COMPOS	COMPOS			
A TYP												
A 013	9.00	18.00		5	0.6	20	2	10	14	51000	6	
A 013	18.00	27.00		-5	0.8	32	2	10	24	34600	6	
R ASY	18.00	27.00	DETECTION LIMIT IS PRECEDED BY A MINUS SIGN									
A 013	27.00	36.00		5	0.7	19	-2	13	31	33300	10	
A 013	36.00	45.00		-5	0.1	3	-2	6	4	14800	-1	
A 013	45.00	54.00		10	0.1	2	-2	3	3	18100	-1	
A 013	54.00	63.00		-5	0.1	-2	-2	5	4	16700	7	
A 013	63.00	72.00		-5	0.1	-2	2	2	3	21100	2	
A 013	72.00	81.00		5	0.1	-2	2	3	3	29500	11	
A 013	81.00	90.00		5	0.2	-2	2	5	10	34200	3	
A 013	90.00	99.00		10	0.6	190	2	8	16	35900	-1	
A 013	99.00	108.00		15	4.6	2	2	19	31	195000	3	
A 013	108.00	117.00		20	0.4	2	3	3	6	33100	-1	
A 013	117.00	126.00		10	0.7	-2	2	6	7	34400	-1	
A 013	126.00	135.00		15	0.1	3	3	3	7	25800	4	
A 013	135.00	144.00		15	0.1	8	2	4	5	24800	9	
A 013	144.00	153.00		10	0.1	-2	-2	6	6	36100	2	
A 013	153.00	162.00		10	0.1	-2	2	2	5	40100	-1	
A 013	162.00	171.00		20	0.1	2	-2	2	4	37300	1	
A 013	171.00	180.00		5	0.2	10	-2	3	5	35600	3	
A 013	180.00	189.00		20	0.7	31	-2	8	14	57000	-1	
A 013	189.00	198.00		5	0.2	14	2	6	17	92500	-1	
A 013	198.00	207.00		15	0.1	2	2	1	5	29400	1	
A 013	207.00	216.00		10	0.1	4	2	2	6	20800	6	
A 013	216.00	225.00		15	0.1	-2	-2	6	12	24100	-1	
A 013	225.00	234.00		15	0.1	-2	2	2	8	31900	-1	
A 013	234.00	243.00		20	0.1	-2	-2	5	11	33500	2	
A 013	243.00	252.00		5	0.6	20	-2	6	19	29800	10	
A 013	252.00	261.00		10	0.3	5	2	6	19	16600	13	
A 013	261.00	270.00		20	0.2	26	2	6	15	19000	2	
A 013	270.00	279.00		15	0.4	18	4	9	30	21100	-1	
A 013	279.00	288.34		10	0.2	2	2	6	9	20500	10	
R ASY	279.00	288.34	END OF WCDH025									

R SUM DRILL HOLE CONSISTS MAINLY OF QZPP WHICH SHOWS VARIABLE QZ-MS

R SUM ALT.-GENERALLY AS EAS WITH PY VAS.QZPP HAS BEEN INTRUDED BY

R SUM QMPP,FLST AND PPAN DYKES.THE UPPER QMPP DYKE SHOWS QZ-MS ALT.

R SUM THE LOWER DYKE-CALLED QZDR IN LOG IS PROBABLY HIGHLY ALT. QMPP.

R SUM PPAN DYKES ARE VERY UNIFORM IN COMPOS. AND TEXTURE AND SHOW WEAK

R SUM T-ALT.THESE DYKES APPEAR TO BE ASSOCIATED WITH WHAT MAY BE A

R SUM SIGNIFICANT FAULT ZONE.MO MINERALIZATION IS STRONG IN THE ROCK

R SUM ABOVE THE FAULTS BUT WEAKENS SIGNIFICANTLY BELOW IT.

APPENDIX C

DRILL CORE ASSAY SHEETS

FOR CU, MO

705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
Phone: 980-5814

SAE
Files

Certificate of Assay

DDH 18

TO: Sask. Mining Dev.,
122-3rd Ave. N,
Sask., Sask.

PROJECT No. Whiting Cr. 4942

DATE Sept. 4/80.

File No. 0-830

SAMPLE No.	Mo %	Cu %		Metres
				14.94
1001	.032	.051		18
02	.030	.051		
03	.046	.092		
04	.038	.043		
05	.008	.048		30
06	.009	.048		
07	.015	.072		
08	.013	.096		
09	.016	.049		
10	.019	.072		
11	.018	.068		
12	.027	.078		
13	.030	.062		
14	.051	.062		
15	.026	.088		60
16	.016	.107		
17	.014	.094		
18	.037	.069		
19	.016	.081		
20	.017	.057		
1021	.017	.069		

MIN-EN Laboratories Ltd.

CERTIFIED BY

NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

DDH 18

TO: Sask. Mining Dev.,
122-3rd Ave. North,
Saskatoon, Sask. S7K 2H6

PROJECT No. Whiting 4942

DATE Sept.16/80.

File No. 0-821

SAMPLE No.	Mo %	Cu %		Metres
1022	.012	.052		
23	.023	.059		
24	.019	.074		
25	.012	.084		90
26	.025	.058		
27	.006	.069		
28	.014	.049		
29	.016	.040		
30	.013	.045		
31	.014	.048		
32	.029	.034		
33	.008	.027		
34	.010	.028		
35	.004	.057		120
36	.001	.040		
37	.001	.071		
38	.001	.039		
39	.008	.202		
40	.006	.042		
41	.014	.035		
42	.024	.027		
1043	.012	.019		

MIN-EN Laboratories Ltd.

CERTIFIED BY .....

NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

DDH 18

TO: Sask. Mining Dev.,
122-3rd Ave. North,
Saskatoon, Sask. S7K 2H6

PROJECT No. Whiting 4942

DATE Sept.16/80.

File No. 0-821

SAMPLE No.	Mo %	Cu %		Metres
1044	.030	.020		
45	.002	.035		150
46	.002	.056		
47	.001	.150		
48	.001	.048		
49	.001	.157		
50	.002	.164		
1051	.018	.110		
52	.018	.037		
53	.020	.036		
54	.008	.027		
55	.016	.025		180
56	.018	.044		
57	.012	.028		
58	.022	.023		
59	.013	.026		
60	.016	.027		
61	.015	.019		
62	.019	.033		
63	.012	.026		
64	.011	.019		
1065	.042	.026		210

MIN-EN Laboratories Ltd.

CERTIFIED BY .....

NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

DDH 18

TO: Sask. Mining Dev.,
122-3rd Ave. North,
Saskatoon, Sask. S7K 2H6

PROJECT No. Whiting 4942

DATE Sept.16/80.

File No. 0-821

SAMPLE No.	Mo %	Cu %		Metres
				210
1066	.028	.028		
67	.032	.052		
68	.018	.019		
69	.029	.040		
1070	.026	.038		225

MIN-EN Laboratories Ltd.

CERTIFIED BY

705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

DDH 18

TO: Sask. Mining Dev.,
122-3rd Ave. North,
Saskatoon, Sask.

PROJECT No. Whiting 4942

DATE Sept.16/80.

File No. 0-833

SAMPLE No.	Mo %	Cu %		Metres
				225
1071	.012	.034		
72	.007	.030		
73	.027	.066		
74	.020	.044		
75	.010	.054		240
76	.013	.056		
77	.008	.029		
78	.010	.076		
79	.006	.087		
80	.002	.066		
81	.010	.041		
82	.006	.038		
83	.007	.045		
84	.001	.140		
85	.001	.182		270
86	.004	.210		
87	.009	.017		
88	.008	.031		
89	.008	.018		
90	.009	.020		
91	.002	.032		
1092	.012	.037		

MIN-EN Laboratories Ltd.

CERTIFIED BY .....

705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

DDH 18

TO: Sask. Mining Dev.,
122-3rd Ave. North,
Saskatoon, Sask.

PROJECT No. Whiting 4942
DATE Sept.16/80.
File No. 0-833

SAMPLE No.	Mo %	Cu %		Metres
1093	.016	.072		
94	.013	.023		
95	.006	.027		300
96	.008	.061		
97	.001	.443		
98	.001	.232		
99	.002	.130		
1100	.013	.074		
01	.015	.033		
02	.007	.029		
03	.004	.378		
04	.006	.057		
1105	.024	.031		330

MIN-EN Laboratories Ltd.

CERTIFIED BY .....

NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

DDH 18

TO: Sask. Mining Dev.,
Box 669,
Houston, B.C. V0J 1Z0.

PROJECT No. Whiting 4942

DATE Sept.26/80.

File No. 0-862

SAMPLE No.	Mo %	Cu %		Metres
				330
1106	.040	.049		
07	.019	.040		
08	.024	.114		
09	.010	.147		
10	.004	.073		
11	.004	.258		
12	.001	.080		
13	.001	.050		
14	.001	.079		
15	.001	.094		360
16	.001	.316		
17	.001	.086		
18	no sample			
1119	.001	.070		
				367.57 End of Hole

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Certificate of Assay

DDH 19

TO: Sask. Mining Dev.,
Box 669,
Houston, B.C.

PROJECT No. Whiting 4942

DATE Sept.26/80.

File No. 0-892

SAMPLE No.	Mo %	Cu %		Metres
				12
1120	.004	.072		
21	.002	.069		
22	.002	.058		
23	.001	.051		
24	.002	.066		
25	.002	.061		30
26	.006	.050		
27	.006	.049		
28	.004	.064		
29	.006	.072		
30	.006	.100		
31	.002	.069		
32	.001	.070		
33	.003	.052		
34	.001	.053		
35	.002	.039		60
36	.001	.050		
37	.004	.062		
38	.002	.052		
39	.002	.071		
40	.006	.057		
1141	.002	.080		

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TO: Sask. Mining Dev.,
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Houston, B.C.

PROJEC No. Whiting 4942
DATE Sept. 26/80.
File No. 0-892

SAMPLE No.	Mo %	Cu %		Metres
				78
1142	.004	.098		
1143	.005	.067		84

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DDH 19

TO: Sask. Mining Dev.,
Box 669,
Houston, B.C.

PROJECT No. Whiting 4942
DATE Oct. 7/80.
File No. 0-939

SAMPLE No.	Metres	Cu %	Mo %
WCDH-19	87-90, 1145	.041	.009
	90-93, 1146	.056	.003
	93-96, 1147	.038	.007
	96-99, 1148	.081	.004
	99-102, 1149	.053	.004
	102-150, 1150	.035	.004
	105-108, 1151	.038	.006
	108-111, 1152	.075	.006
	111-114, 1153	.041	.007
	114-117, 1154	.057	.006
	117-120, 1155	.047	.008
	120-123, 1156	.034	.002
	123-126, 1157	.050	.005
	126-129, 1158	.037	.005
	129-132, 1159	.046	.006
	132-135, 1160	.033	.004
	135-138, 1161	.036	.016
	138-141, 1162	.037	.004
	141-144, 1163	.034	.008
	144-147, 1164	.047	.003
	147-150, 1165	.035	.011
WCDH-19	150-153, 1166	.032	.008

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TO: Sask. Mining Dev.,
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Houston, B.C.

PROJECT No. Whiting 4942
DATE Oct.7/80.
File No. 0-939

SAMPLE No.	Metres	Cu %	Mo %
WCDH-19	-153-156,1167	.032	.011
	156-159,1168	.035	.004
	159-162,1169	.055	.002
	162-165,1170	.070	.003
	165-168,1171	.040	.005
	168-171,1172	.041	.004
	171-174,1173	.024	.003
	174-177,1174	.026	.004
	177-180,1175	.037	.006
	180-183,1176	.049	.005
	183-186,1177	.084	.003
	186-189,1178	.046	.003
	189-192,1179	.034	.005
	192-195,1180	.037	.002
	195-198,1181	.085	.006
	198-202,1182	.050	.015
	202-205,1183	.053	.012
	205-208,1184	.016	.012
	208-211,1185	.070	.006
	211-214,1186	.044	.003
	214-217,1187	.050	.004
WCDH-19	-217-219,1188	.039	.005

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DDH 19/20

TO: Sask. Mining Dev.,
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Houston, B.C.

PROJECT No. Whiting 4942
DATE Oct. 9/80.
File No. 0-978

SAMPLE No.	Metres		Cu %	Mo %
WCDH-19-	219-222	1189	.057	.004
	222-225	1190	.021	.005
	225-228	1191	.023	.003
	228-231	1192	.055	.003
	231-234	1193	.021	.004
	234-237	1194	.033	.006
	237-240	1195	.036	.010
	240-243	1196	.037	.005
	243-246	1197	.006	.006
	246-249	1198	.010	.012
	249-252	1199	.044	.006
	252-255	1200	.013	.008
	255-258	1201	.020	.008
	258-261	1202	.010	.005
	261-264	1203	.044	.004
WCDH-19-	264-266.7	1204	.053	.001
WCDH-20-	7.62-10	1205	.014	.002
	10-13	1206	.025	.032
	13-16	1207	.028	.007
	16-19	1208	.018	.003
	19-22	1209	.014	.013
WCDH-20-	22-25	1210	.022	.024

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DDH 20

TO: Sask. Mining Dev.,
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Houston, B.C.

PROJECT No. Whiting 494?

DATE Oct.9/80.

File No. 0-978

SAMPLE No.	Metres		Cu %	Mo %
WCDH-20	25-28	1211	.017	.044
	28-31	1212	.016	.006
	31-34	1213	.007	.042
	34-37	1214	.006	.017
	37-40	1215	.046	.014
	40-43	1216	.017	.016
	43-46	1217	.019	.021
	46-49	1218	.053	.009
	49-52	1219	.031	.022
	52-55	1220	.014	.015
	55-58	1221	.025	.012
	58-61	1222	.027	.010
	61-64	1223	.082	.037
	64-67	1224	.038	.021
	67-70	1225	.020	.012
	70-73	1226	.042	.060
	73-76	1227	.017	.017
	76-79	1228	.041	.014
	79-82	1229	.008	.006
	82-85	1230	.035	.007
	85-88	1231	.093	.008
WCDH-20	88-91	1232	.054	.009

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PROJECT No. Whiting 4942
DATE Oct.9/80.
File No. 0-978

SAMPLE No.	Metres		Cu %	Mo %
WCDH-20	91-94	1233	.025	.012
	94-97	1234	.015	.008
	97-100	1235	.042	.010
	100-103	1236	.022	.028
	103-106	1237	.068	.023
	106-109	1238	.021	.024
	109-112	1239	.052	.016
	112-115	1240	.031	.015
	115-118	1241	.011	.010
	118-121	1242	.020	.008
	121-124	1243	.045	.026
	124-127	1244	.033	.012
	127-130	1245	.008	.041
	130-133	1246	.046	.010
	133-136	1247	.049	.006
	136-139	1248	.021	.020
	139-142	1249	.028	.010
	142-145	1250	.031	.008
WCDH-20	145-148	1251	.033	.007

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TO: Sask. Mining Dev.,

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PROJECT No. _____

DATE Oct.14/80.

File No. 0-1000

SAMPLE No.	Metres		Mo %	Cu %
WCDH-20	-148-151	1252	.023	.049
	151-154	1253	.022	.027
	154-157	1254	.010	.009
	157-160	1255	.036	.015
	160-163	1256	.028	.017
	163-166	1257	.050	.036
	166-169	1258	.024	.019
	169-172	1259	.022	.013
	172-175	1260	.142	.042
	175-178	1261	.053	.019
	178-181	1262	.011	.033
	181-184	1263	.020	.020
	184-187	1264	.012	.033
	187-190	1265	.027	.014
	190-193	1266	.024	.012
	193-196	1267	.018	.029
	196-199	1268	.024	.033
	199-202	1269	.022	.030
	202-205	1270	.024	.048
	205-208	1271	.018	.038
	208-211	1272	.013	.028
WCDH-20	-211-214	1273	.010	.038

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PROJECT No. _____

DATE Oct. 14/80.

File No. _____

SAMPLE No.	Metres		Mo %	Cu %
WCDH-20	214-127	1274	.037	.042
	217-220	1275	.014	.012
	220-223	1276	.010	.019
	223-226	1277	.014	.025
	226-229	1278	.022	.019
	229-232	1279	.020	.023
	232-235	1280	.018	.016
	235-238	1281	.010	.027
	238-241	1282	.015	.023
	241-244	1283	.009	.042
WCDH-20	244-247	1284	.069	.065

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DDH 20/21

TO: Sask. Mining Dev.,
Box 669,
Houston, B.C.

PROJECT No. _____

DATE Oct.16/80.

File No. 0-1006

SAMPLE No.	Mo %	Cu %		Metres
1285	.016	.117		250
86	.019	.026		
87	.008	.058		
88	.023	.039		
89	.024	.010		
90	.012	.044		
91	.075	.043		
92	.022	.032		
93	.020	.028		
94	.050	.022		
95	.030	.044		280
96	.005	.035		
97	.008	.018		
98	.016	.033		
99	.036	.032		
1300	.011	.018		
01	.012	.112		
02	.072	.041	End of DDH 20	302.36
03	.009	.025	DDH 21	14.33
04	.005	.190		20
05	.014	.119		
1306	.042	.126		

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Certificate of Assay

DDH 21

TO: Sask. Mining Dev.,
Box 669,
Houston, B.C.

PROJECT No. _____

DATE Oct. 16/80.

File No. 0-1006

SAMPLE No.	Mo %	Cu %		Metres
				26
1307	.020	.067		
08	.014	.044		
09	.092	.038		
10	.079	.041		
11	.038	.050		
12	.029	.031		
13	.012	.025		
14	.008	.039		50
15	.010	.038		
16	.017	.036		
17	.021	.037		
18	.008	.040		
19	.043	.026		
20	.018	.031		
21	.019	.030		
22	.022	.034		
23	.010	.022		
24	.012	.028		80
25	.011	.034		
26	.019	.042		
27	.028	.034		
1328	.013	.033		

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TO: Sask. Mining Dev.,
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PROJECT No. _____

DATE Oct.16/80,

File No. 0-1006

SAMPLE No.	Mo %	Cu %		Metres
1329	.012	.021		
30	.038	.015		
31	.015	.013		
32	.020	.058		
33	.016	.018		
34	.030	.022		110
35	.010	.025		
36	.010	.016		
37	.011	.018		
38	.008	.010		
39	.014	.010		
40	.020	.015		
41	.112	.026		
42	.013	.019		
43	.011	.011		
1344	.002	.002		140

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DDH 21

TO: Sask. Mining Dev.,

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PROJECT No. _____

DATE Oct. 16/80.

File No. 0-1006

SAMPLE No.	Mo %	Cu %		Metres
				140
1345	.001	.002		
46	.001	.003		
47	.001	.002		
48	.001	.002		
49	.001	.003		
50	.001	.001		
51	.003	.005		
52	.024	.008		
53	.004	.022		
54	.011	.005		170
55	.014	.024		
56	.030	.032		
57	.018	.025		
58	.010	.110		
59	.011	.019		
60	.008	.015		
61	.013	.014		
62	.014	.024		
63	.007	.014		
64	.016	.014		200
65	.016	.008		
1366	.018	.040		

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DDH 21

TO: Sask. Mining Dev.,

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Houston, B.C.

PROJECT No. _____

DATE Oct.16/80.

File No. 0-1006

SAMPLE No.	Mo %	Cu %		Metres
				206
1367	.022	.016		
68	.022	.009		
69	.017	.015		
70	.011	.026		
71	.034	.022		
72	.023	.015		
73	.018	.032		
74	.015	.090		230
75	.023	.030		
76	.020	.053		
77	.028	.031		
78	.018	.017		
79	.014	.016		
80	.017	.014		
81	.013	.012		
1382	.004	.011		254

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Certificate of Assay

DDH 21/22

TO: Sask. Mining Dev.,
Box 669,
Houston, B.C.

PROJECT No. Whiting 4942

DATE Nov.3/80.

File No. 0-1050

SAMPLE No.	Metres		Mo %	Cu %
WCDH-21	-254-257,	1383	.011	.028
	257-260,	1384	.016	.017
	260-263,	1385	.010	.030
	263-266,	1386	.007	.022
	266-269,	1387	.005	.039
	269-272,	1388	.014	.053
	272-275,	1389	.008	.105
	275-278.	1390	.004	.025
	278-281,	1391	.010	.033
	281-284,	1392	.004	.016
	284-287,	1393	.003	.018
	287-290,	1394	.006	.048
	290-293,	1395	.014	.054
WCDH-21	-293-294.72	1396	.026	.080
WCDH-22	-13.72-17,	1397	.001	.008
	17-20,	1398	.001	.008
	20-23,	1399	.005	.009
	23-26,	1400	.020	.007
	26-29,	1401	.028	.006
	29-32,	1402	.026	.007
	32-35,	1403	.022	.006
WCDH-22	-35-38,	1404	.040	.006

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Certificate of Assay

DDH 22

TO: Sask. Mining Dev.,
Box 669,
Houston, B.C.

PROJECT No. Whiting 4942

DATE Nov. 3/80.

File No. 0-1050

SAMPLE No.	Metres		Mo %	Cu %
WCDH- 22	38-41, 1405		.021	.005
	41-44, 1406		.046	.011
	44-47, 1407		.013	.008
	47-50, 1408		.014	.006
	50-53, 1409		.005	.008
	53-56, 1410		.003	.008
WCDH- 22	56-59, 1411		.004	.022

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DDH 22

TO: Sask. Mining Dev.,
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Houston, B.C.

PROJECT No. Whiting 4942

DATE Nov.5/80.

File No. 0-1071

SAMPLE No.	Mo %	Cu %		Metres
				59
1412	.005	.064		
13	.010	.023		
14	.017	.028		
15	.008	.013		
16	.011	.015		
17	.004	.055		
18	.008	.058		80
19	.006	.036		
20	.012	.026		
21	.013	.028		
22	.013	.053		
23	.009	.042		
24	.008	.142		
25	.032	.100		
26	.049	.131		
27	.045	.040		
28	.003	.024		110
29	.012	.028		
30	.006	.019		
31	.013	.029		
32	.009	.019		
1433	.005	.026		125

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TO: Sask. Mining Dev.,
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PROJECT No. Whiting 4942

DATE Nov.5/80.

File No. 0-1071

SAMPLE No.	Mo %	Cu %		Metres
				125
1434	.005	.020		
35	.008	.031		
36	.011	.034		
37	.007	.056		
38	.006	.033		140
39	.005	.126		
40	.001	.018		
1441	.001	.010		

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DDH 22

TO: Sask. Mining Dev.,
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Houston, B.C.

PROJECT No. Whiting Ck.

DATE Nov.5/80.

File No. 0-1071

SAMPLE No.	Mo %	Cu %		Metres
1442	.001	.049		
43	.001	.066		
44	.003	.036		
45	.006	.012		
46	.017	.013		
47	.008	.018		
48	.002	.015		170
49	.003	.037		
50	.008	.070		
51	.024	.010		
52	.017	.020		
53	.009	.025		
54	.011	.009		
55	.014	.070		
56	.015	.017		
57	.026	.011		
58	.012	.010		200
59	.010	.014		
60	.004	.012		
61	.005	.055		
62	.022	.007		
1463	.018	.016		

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PROJECT No. Whiting Ck.
DATE Nov.5/80.
File No. 0-1071

SAMPLE No.	Mo %	Cu %		Metres
1464	.006	.017		
65	.012	.016		
66	.015	.018		
67	.032	.019		
68	.011	.018		230
69	.014	.009		
70	.008	.033		
71	.006	.017		
72	.007	.023		
73	.003	.055		
74	.002	.033		
75	.008	.019		
76	.002	.014		
77	.021	.036		
78	.010	.020		260
79	.004	.025		
80	.005	.055		
81	.006	.038		
82	.004	.029		
83	.003	.053		
84	.002	.086		
1485	.001	.060		

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DDH 22/23

TO: Sask. Mining Dev.,

Box 669,

Houston, B.C.

PROJECT No. Whiting Ck.

DATE Nov.5/80.

File No. 0-1071

SAMPLE No.	Mo %	Cu %		Metres
1486	.005	.118		
87	.003	.112		
88	.001	.039		End of DDH 22 291.38
89	.023	.034	DDH 23	19.70 22
90	.026	.029		
91	.021	.034		
92	.050	.021		
93	.023	.023		
94	.016	.011		
95	.025	.019		40
96	.022	.015		
97	.018	.018		
98	.008	.014		
99	.024	.043		
1500	.019	.013		
1501	.006	.021		58

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DDH 23

TO: Sask. Mining Dev.,
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Houston, B.C.

PROJECT No. Whiting Ck.

DATE Nov.5/80.

File No. 0-1071

SAMPLE No.	Mo %	Cu %		Metres
				58
1502	.021	.031		
03	.046	.169		
04	.008	.088		
05	.008	.039		70
06	.023	.052		
07	.011	.018		
08	.002	.076		
09	.009	.074		
10	.010	.039		
11	.002	.059		
12	.004	.037		
13	.008	.033		
14	.004	.012		
15	.007	.008		100
16	.007	.095		
17	.004	.018		
18	.008	.011		
19	.007	.015		
20	.014	.007		
21	.029	.011		
22	.014	.015		
1523	.008	.017		

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PROJECT No. Whiting Ck.

DATE Nov.5/80.

File No. 0-1071

SAMPLE No.	Mo %	Cu %		Metres
1524	.010	.007		
25	.011	.005		130
26	.012	.009		
27	.015	.019		
28	.018	.014		
29	.013	.006		
30	.013	.010		
31	.006	.008		
1532	.008	.014		151

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Phone: 980-5814

Certificate of Assay

DDH 23

TO: Sask. Mining Dev.,
122-3rd Ave. North,
Saskatoon, Sask.

PROJECT No. Whiting Ck.

DATE Nov.17/80.

File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
1533	.010	.010		
34	.006	.010		
35	.005	.038		160
36	.011	.070		
37	.008	.044		
38	.013	.048		
39	.007	.060		
40	.008	.021		
41	.008	.012		
42	.008	.011		
43	.007	.016		
44	.005	.011		
45	.014	.072		190
46	.008	.078		
47	.009	.027		
48	.018	.023		
49	.008	.031		
50	.022	.028		
51	.015	.015		
52	.007	.019		
53	.015	.016		
1554	.014	.022		

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PROJECT No. Whiting Ck.

DATE Nov.17/80.

File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
1555	.023	.027		220
56	.007	.014		
57	.024	.015		
58	.008	.024		
59	.017	.026		
60	.007	.037		
61	.014	.019		
62	.017	.019		
63	.018	.005		
64	.015	.005		
65	.024	.006		250
66	.010	.007		
67	.018	.007		
68	.014	.012		
69	.008	.007		
70	.018	.006		
71	.025	.013		
72	.016	.011		
73	.010	.012		
74	.016	.009		
75	.017	.010		280
1576	.015	.016		

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PROJECT No. Whiting Ck.

DATE Nov.17/80.

File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
				283
1577	.015	.017		
78	.014	.011		
79	.016	.072		
80	.018	.059		
81	.009	.036		298
82	.022	.062		
83	.031	.071		
84	.016	.035		
85	.011	.088		
86	.014	.058		
87	.010	.055	End of DDH 23	316.99
88	.102	.049	DDH 24	6.86
89	.147	.072		9
90	.062	.024		
91	.108	.060		
1592	.040	.038		21

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PROJECT No. Whiting Ck.

DATE Nov. 20/80.

File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
				21
1593	.068	.024		
94	.068	.043		
95	.184	.144		30
96	.052	.084		
97	.038	.050		
98	.028	.035		
99	.080	.186		
1600	.036	.089		
01	.019	.120		
02	.058	.048		
03	.044	.114		
04	.018	.067		
05	.052	.034		60
06	.051	.024		
07	.012	.025		
08	.017	.018		
09	.004	.033		
10	.006	.026		
11	.005	.023		
12	.006	.045		
13	.005	.024		
1614	.003	.020		87

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PROJECT No. Whiting Ck.
DATE Nov.20/80.
File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
1615	.005	.032		90
16	.007	.070		
17	.008	.030		
18	.005	.029		
19	.008	.038		
20	.008	.078		
21	.009	.084		
22	.010	.230		
23	.012	.123		
24	.014	.263		
25	.012	.280		120
26	.010	.194		
27	.012	.089		
28	.007	.042		
29	.014	.043		
30	.016	.047		
31	.014	.054		
32	.009	.020		
33	.009	.039		
34	.011	.076		
35	.007	.109		150
1636	.011	.101		

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DATE Nov.20/80.

File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
				153
1637	.010	.089		
38	.008	.131		
39	.011	.128		
40	.009	.163		
41	.032	.349		
42	.020	.443		
43	.015	.320		
44	.011	.318		
45	.011	.232		180
46	.016	.213		
47	.012	.290		
48	.033	.238		
49	.024	.358		
50	.015	.142		
51	.016	.151		
1652	.013	.207		201

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PROJECT No. Whiting Ck.

DATE Nov. 20/80

File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
1653	.015	.252		
54	.019	.397		
55	.014	.131		210
56	.012	.177		
57	.008	.162		
58	.009	.253		
59	.011	.150		
60	.010	.090		
61	.012	.239		
62	.012	.143		
63	.012	.132		
64	.016	.119		
65	.011	.110		240
66	.016	.039		
67	.010	.072		
68	.024	.207		
69	.028	.194		
70	.020	.146		
71	.018	.135		
72	.028	.079		
73	.022	.080		
1674	.020	.133		267

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TO: Sask. Mining Dev.,
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PROJECT No. Whiting Ck.

DATE Nov. 20/80.

File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
1675	.047	.132		270
76	.029	.154		
77	.023	.102		
78	.026	.110		
79	.032	.068		
80	.024	.112	End of DDH 24	285.29
81	.001	.027	DDH 25	3.05
82	.002	.069		6
83	.001	.049		
84	.001	.098		
85	.001	.123		
86	.001	.183		
87	.001	.158		
88	.001	.082		
89	.001	.080		30
90	.002	.030		
91	.008	.005		
92	.023	.003		
93	.014	.002		
94	.015	.002		
95	.020	.003		
1696	.040	.003		51

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DDH 25

TO: Sask. Mining Dev.,
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PRC No. Whiting Ck.
DATE Nov 20/80.
File N 0-1104

SAMPLE No.	Mo %	Cu %		Metres
1697	.011	.002		
98	.065	.002		
99	.021	.003		60
1700	.024	.003		
01	.040	.006		
02	.021	.005		
03	.038	.002		
04	.194	.003		
05	.047	.003		
06	.046	.003		
07	.071	.029		
08	.016	.011		
09	.010	.015		90
10	.002	.030		
11	.021	.007		
1712	.016	.242		

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DDH 25

TO: Sask. Mining Dev.,
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PROJECT No. Whiting Ck.

DATE Nov.21/80.

File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
				99
1713	2.190	2.730		
14	.030	.022		
15	.023	.045		
16	.051	.014		
17	.043	.007		
18	.217	.015		
19	.220	.068		120
20	.112	.006		
21	.017	.010		
22	.026	.008		
23	.015	.005		
24	.030	.018		
25	.016	.009		
26	.025	.006		
27	.036	.004		
28	.038	.005		
29	.013	.007		150
30	.006	.006		
31	.038	.007		
32	.072	.005		
33	.024	.004		
1734	.119	.006		165

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PROJECT No. Whiting Ck.
DATE Nov.21/80.
File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
1735	.066	.009		165
36	.114	.011		
37	.019	.012		
38	.018	.006		
39	.006	.014		180
40	.001	.086		
41	.002	.133		
42	.002	.042		
43	.001	.042		
44	.001	.110		
45	.030	.032		
46	.024	.004		
47	.038	.005		
48	.032	.003		
49	.086	.004		210
50	.028	.003		
51	.012	.005		
52	.005	.005		
53	.030	.003		
54	.058	.002		
55	.260	.002		
1756	.038	.002		231

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PROJECT No. Whiting Ck.

DATE Nov. 21/80.

File No. 0-1104

SAMPLE No.	Mo %	Cu %		Metres
				231
1757	.042	.003		
58	.073	.002		
59	.044	.002		240
60	.038	.003		
61	.010	.089		
62	.001	.101		
63	.026	.018		
64	.034	.019		
65	.005	.013		
66	.014	.005		
67	.004	.008		
68	.030	.006		
69	.015	.101		270
70	.001	.138		
71	.001	.071		
72	.018	.026		
73	.016	.004		
74	.072	.004		285
1775	.042	.004	End of DDH 25	288.34

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