

E & B Explorations Ltd.

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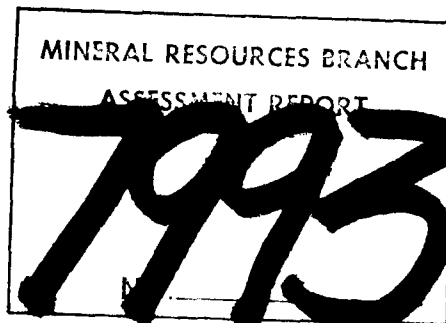
DRILL REPORT ON  
THE PIT IV CLAIM  
OMINECA M.D.--B.C.  
N.T.S. 103-I/9W

on behalf of

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by

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March, 1980  
Calgary, Alberta

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SUMMARY

The Pit IV Claim, part of the Pitman property, is located approximately 27 kilometers North 32 degrees East of Terrace, British Columbia and approximately 1.5 kilometers West from the C.N.R. and Provincial Highway 16 both along the Skeena River.

During October and November 1979, a total of 615.1 meters of NQ size diamond drilling was completed in four angle holes. The drilling was designed to test for: depth and lateral continuity of MoS<sub>2</sub> mineralization intersected in the 1965 Canex No. 6 diamond drill hole (160 to 220 feet -- 60 feet of 0.196 percent MoS<sub>2</sub> or 160 to 330 feet -- 180 feet of 0.12 percent MoS<sub>2</sub>) and the relationship of MoS<sub>2</sub> mineralization to flat lying intrusive dykes.

All holes were inclined at -60 degrees with two holes drilled at the Canex No.6 hole location and at 090 and 270 degrees azimuth. Two holes were drilled 108 meters South of hole No.6 and were at 090 degrees and 270 degrees azimuth.

Core logging indicated a sequence of silicified and weakly altered volcanic rocks intruded by various intrusive rocks.

Assay results varied from 0.002 percent MoS<sub>2</sub> to a high of 0.25 percent MoS<sub>2</sub> with the best section being 6 meters of 0.119 percent MoS<sub>2</sub> from 138 to 144 meters in DDH 79P-1. The MoS<sub>2</sub> content appears to increase with

depth in all the holes.

The drill results indicate that the MoS<sub>2</sub> mineralization occurs mainly along fractures in association with a quartz monzonite unit.

Two inclined 700 meter holes in the area of the Canex No.6 hole would check for mineralization at depth and provide a better understanding of the geology.

INTRODUCTION

Molybdenite mineralization postulated to be related to a flat lying granitic mass was drill tested for tenor and possible size dimensions.

During October to November 1979, E & B Explorations Inc. conducted a drill program to test the granitic mass for a porphyry type molybdenite deposit. This work utilized a Longyear Super 38 wireline diamond drill.

The work program was conducted by the following: diamond drilling by J.T. Thomas Drilling Ltd. and drill supervision by Harvex Management Co.

Coordination, supervision and drill hole collar locations was provided by E & B Explorations Ltd.

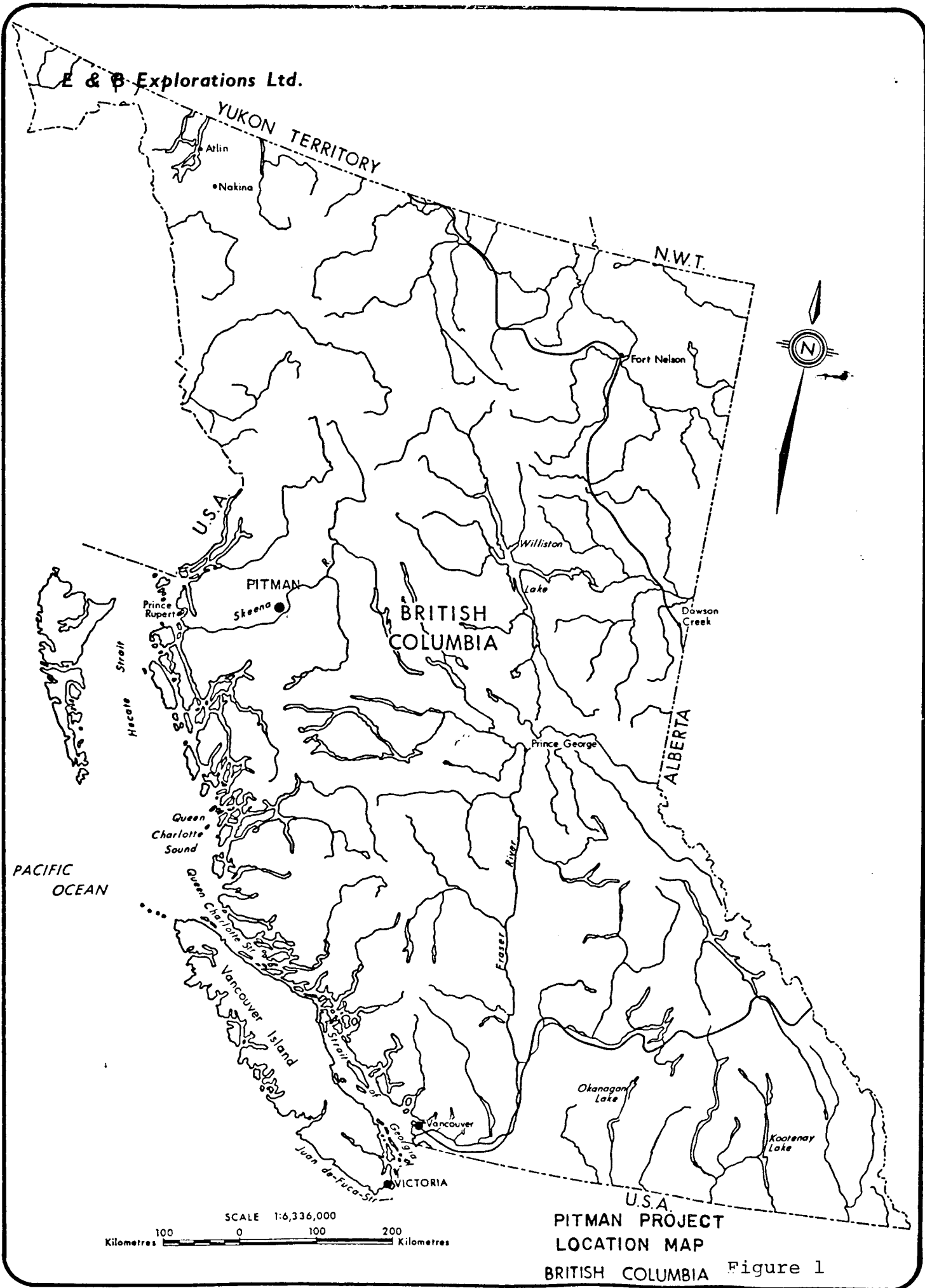
Location and Access

The Pitman property is located at  $54^{\circ} 42'$  -  $54^{\circ} 44'$  latitude and  $128^{\circ} 18'$  -  $128^{\circ} 20'$  longitude, approximately 27 kilometers northeast of Terrace, British Columbia in the Omineca Mining Division. The Pit IV Claim is part of a contiguous claim block encompassing the lower drainage systems of Sand, Bell and Carpenter Creeks. (Figures 1 and 2).

Access to the property is via a Bell 206 Helicopter based in Terrace.

Access roads built by Canex in 1964 to 1965 have been eroded and largely overgrown.

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PITMAN PROJECT  
LOCATION MAP

BRITISH COLUMBIA Figure 1





J.T. Thomas Diamond Drilling Ltd. mobilized out of Smithers, British Columbia to Highway 16 opposite the Pitman property, via transport truck. All drill equipment was slung to the property utilizing an Okanagan Helicopter Bell 206 based in Terrace.

Drill sites were cleared of trees by Harvex Management and all drill moves utilized a Bell 206 helicopter.

All personnel involved in the project were accommodated at a drill camp located 100 meters north of the first drill site and provided by J.T. Thomas Diamond Drilling.

Supplies and materials for the job were purchased in Terrace and ferried in via a Bell 206 helicopter.

Radio communications were maintained with Terrace and southern centres utilizing B.C. Telephones' radio-telephone service.

Property Ownership

The property consists of four contiguous claims comprised of thirty-nine units owned by K. Wayne Livingstone.

The following claims form the Pitman property (see Figure 2):

<u>Claim Name</u>	<u>Number of Units</u>	<u>Record Number</u>	<u>Month of Record</u>	<u>Recorded Owner</u>
The PIT I	12	1677	March	K. Wayne Livingstone
The PIT II	4	1678	"	" "
The PIT III	3	1679	"	" "
The PIT IV	20	1680	"	" "

An Exploration Agreement exists with Prism Resources Limited and Wayne Livingstone. Prism arranged for the work under an option agreement with E & B Explorations Inc.

Previous Work

Molybdenum mineralization was first discovered during 1957 in the Bell Creek area by Joe Bell who subsequently staked the O'Molly 1-6 inclusive mineral claims on the ridge between Bell and Sand Creek.

During 1958, Huestis Molybdenum Corp. acquired the O'Molly and adjoining Bell Mineral Claims and conducted geological mapping trenching and limited x-ray drilling.

Trenching resulted in the discovery of two areas of molybdenum mineralization along Bell Creek as follows: upper showing averaging 0.47 percent  $\text{MoS}_2$  across a width of 54 feet and the lower showing entirely in aplite with an average assay of 0.10 percent  $\text{MoS}_2$ . The x-ray drilling was confined to the upper showing and no results are described.

During 1963, Canex Aerial Exploration optioned the property and conducted geological mapping and geochemical sampling the subsequent year. On the basis of the geology and geochemical anomalies, Canex drilled six holes totalling, 1,621 feet, with poor results except for DDH No.6.

During 1965 Canex drilled four holes totalling 1,939 feet and conducted soil geochemical surveys.

Significant mineralization encountered in drilling by Canex is as follows:

<u>Drill Hole No.</u>	<u>Footage</u>	<u>Interval</u>	<u>Aug. Assay</u>
No. 6	160-220	60	0.196 %
	160-300	180	0.12 %
No. 7	290-320	30	0.123 %
No. 8	290-330	40	0.122 %
	400-420	20	0.135 %
No. 9	60- 70	10	0.08 %
No.10	70-100	30	0.096 %

On the basis of this drilling Canex estimated total indicated reserves at approximately 2.5 million tons grading 0.14 percent molybdenite; geologic reserves totalling about 1.2 million tons grading 0.14 percent molybdenite.

GEOLOGICAL SURVEYS

Regional Geology

The Terrace area encompasses the eastern contact of the Coast Range batholith and flanking metamorphosed sedimentary and volcanic rocks that range in age from late Paleozoic to early Cretaceous (Figure 3).

Fossiliferous Paleozoic limestones and associated greenstone are unconformably overlain by Triassic limestone-boulder conglomerate, greywacke and shale.

Volcanic and minor sedimentary rocks of the Middle Jurassic strata of the Hazelton Group conformably overlie the Paleozoic rocks.

Lying above the Hazelton Group rocks with marked angular discordance is a series of Marine and continental sedimentary rocks of Upper Jurassic age with possibly lower Cretaceous strata.

The intruded strata generally dip to the northeast, away from the main contact with local structures conforming to local configuration of the intrusive bodies.

Granodiorite and adamellite are dominant rocks of the main batholith with apophysis and stocks generally more basic and consisting of quartz diorite, diorite, gabbro and minor syenite.

Dykes varying in composition from granite, diorite, aplite, lamprophyre basalt to porphyritic variation are abundant and cut both intruded and batholithic rocks.

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### Local Geology

The Pitman property covers a portion of a large stock of the Coast intrusions with volcanic rocks of the Hazelton Group to the southeast and sediments of the Bowser Group to the north.

The area of the molybdenite occurrence lies along the contact between volcanic and sedimentary rocks of the Lower Division of the Hazelton Group and intrusive rocks of the Coast intrusions (Thompson, 1965).

Figure 4 shows the approximate location of the Canex drilling and the E & B Explorations 1979 drilling.

During core logging four kinds of intrusive rocks were recognized on the basis of hand lens examination. They were:

- A) medium to coarse grained quartz monzonite,
- B) medium grained grey to pink quartz diorite,
- C) fine to medium grained grey quartz monzonite to quartz diorite,
- D) andesite dykes.

Units A to C were noted in DDH's 79P-1 to 79P-4 while the andesite dykes were only intersected in 79P-3 and 79P-4.

#### A -- Quartz Monzonite

The quartz monzonite is generally medium to coarse grained, pink with a equigranular texture. Foliated and sub-porphyrific varieties are locally present.

The quartz monzonite appears to correlate with the flat lying, pink to red, medium grained granitic dyke with associated molybdenite mineralization identified in exploration work by Canex. The best mineralization

encountered in DDH 79P-1 was associated with fractures and shears in this unit.

Age relationships of the intrusive rocks have been described by Canex as being granodiorite intruding Hazelton Group volcanic rocks with subsequent intrusion by flat lying granites. Core logging during 1979 did not define any definite contact zones between the quartz monzonite and quartz diorite.

B -- Quartz Diorite

The quartz diorite is a grey fine to medium grained rock with generally an equigranular texture. Porphyritic to sub-porphyritic varieties are common. This unit possibly correlates with the fine grey granite identified by Dudas (1964) and granodiorite logged by Canex (1965).

C -- Quartz monzonite - Quartz Diorite

The unit appears to be a gradational contact zone between the quartz monzonite and quartz diorite. The lack of chill margins would suggest a possible emplacement of the quartz diorite before cooling occurred. The lack of a defined contact makes it difficult to draw any conclusions on the structural nature of the quartz monzonite dyke.

D -- Andesite dykes

The andesite dykes are dense, green, fine grained rocks occasionally with a salt and pepper texture. Pyrozone andesite porphyry was intersected in 79P-4 from 25.6 to 33.07 meters. These dykes correlate with a zone of andesite dykes extending from the upper fork area of George Creek to the vicinity of the lower showing (Dudas 1964).

These dykes have been described as cutting all units in previous work. The presence of chill margins in the drill core verifies this cross cutting relationship.

The volcanic rocks intersected in drill core were differentiated as andesitic hornfels and siliceous hornfels possibly altered rhyolites. The volcanic rocks display various degrees of alteration including partial assimilation. Volcanic rock are present in all four holes drilled in 1979.

1. Siliceous Hornfels

This unit is generally a grey to pink, dense and hard rock; probably an altered rhyolite. K-feldspar and quartz veins are present locally. Chlorite filled fractures give the rock a streaky appearance.

2. Andesite Hornfels

This unit is generally a fine grained to porphyritic soft chloritic unit probably altered andesites. Rare K-feldspar and quartz veins are present.

Quartz veinlets were noted in all rock units but seem most predominant in the siliceous hornfels. The veining generally varied from four to eight millimeters and was commonly barren of mineralization.

Complete descriptions of the units intersected in drilling are included within drill logs in Appendix I.

Figures 5 and 6 show the geologic cross sections for DDH 79P1-2 and DDH 79P3-4 respectively.

Alteration

Alteration at the Pitman property is closely related to the Coast Range intrusives and subsequent



fracturing. The alteration products are chiefly chlorite, secondary K-feldspar, hematite and epidote with minor calcite gypsum and pyrophyllite.

Chlorite is a minor constituent of much of the intrusive rocks except for the andesite dykes. It also occurs as fracture fillings in association with hematite in most of the units. Hematite occurs as fracture fillings in the red, earthy form and as specularite associated with molybdenite in quartz veining. Secondary K-feldspar is a major constituent of the siliceous hornfels and forms selvages to K-feldspar and quartz veins. Because the K-feldspar alteration occurs in the mineralized zone, it is probably of hydrothermal origin.

Chlorite, calcite, gypsum and pyrophyllite alteration assemblages are the latest alteration products as fractures with these minerals cut and offset quartz veins.

Limonite is commonly in near surface fractures and is related to circulating, oxidizing surface waters.

### Structural Geology

During core logging, structural features noted were fracture patterns and a fault zone. The fault zone noted from 14 to 17 meters in DDH 79P-1 may have offset rocks in the area of Canex DDH 6. This may account for the lack of mineralization encountered in DDH 79P-2. No altitude is available but it is assumed that the dip is vertical, similar to that encountered in the 1965 program.

The predominant fracture pattern observed in drill core was from 20 to 40 degrees to the core axis. This suggests that the mineralized fractures are generally

vertical or almost flat lying.

### Economic Geology

Pyrite and molybdenite are the most common metallic minerals with minor chalcopyrite, magnetite and specularite.

Pyrite occurs as disseminated grains throughout all units and as blebs and grains in quartz veins. Molybdenite occurs predominantly as fracture fillings with minor amounts related to quartz veins. Chalcopyrite, magnetite and specularite occur in association with molybdenite in quartz veins.

All the core was split in 2 meter sections and analysed for  $\text{MoS}_2$  and W. Assay results indicate generally low  $\text{MoS}_2$  values except for DDH 79P-1. Results are tabulated below:

	<u>Interval</u>	<u>Width</u>	<u>Assay</u>
DDH 79P-1	4.88 to 76 meters	71.1m	0.014% $\text{MoS}_2$
	76.0 to 90 "	14.0m	0.07% "
	90 to 130 "	40 m	0.04% "
	130 to 144 "	14 m	0.08% "
	(138 to 144)	6 m	0.119% "
	144 to 158 "	14	0.019% "
DDH 79P-2	3.05 to 78 "	75 m	0.007% "
	78 to 114 "	36 m	0.033% "
	114 to 152.1 "	38.1m	0.006% "
DDH 79P-3	3.66 to 128 "	124.3m	0.004% "
	128 to 154	26 m	0.014% "
DDH 79P-4	3.35 to 126 "	123 m	0.005% "
	3.35 to 152 "	26 m	0.022% "

Figures 7 and 8 show the MoS<sub>2</sub> assay sections for DDH 79P-1 - DDH 79P-2 and DDH 79P-3 to DDH 79P-4 respectively.

Tungsten assays were not of significant importance.

MoS<sub>2</sub> and W assay results are included in Appendix II and III respectively.

DIAMOND DRILLING

J.T. Thomas Diamond Drilling was contracted to drill four (4) NQ size holes. A Longyear Super 38 wireline drill was mobilized from Smithers to a logging road above Highway 16 immediately east of the property. All gear was ferried in via an Okanagan Helicopter's Bell 206 based in Terrace.

NQ core size was selected in order to prevent drill problems encountered in the hard highly fractured siliceous volcanics.

Core recovery was greater than 95 percent and all core is presently stored at the campsite beside DDH 79P-1 and DDH 79P-2.

THE CORE IS ON THE PROPERTY

CONCLUSIONS

The Pitman project has a geological setting favourable for hosting a porphyry molybdenum property.

Diamond drilling failed to extend and verify the tenor of MoS<sub>2</sub> mineralization encountered in the Canex No.6 hole. The best intersection was 6 meters of 0.119% MoS<sub>2</sub> from 138 to 144 meters in DDH 79P-1.

The best mineralization appears to be related to fractures rather than quartz veining.

Weak secondary K-feldspar appears to be related to the mineralization.

Further exploration work should consist of deep holes in order to check for mineralization at depth. The tenor and nature of molybdenite mineralization encountered to date are inadequate for mining ventures.

RECOMMENDATIONS

No further work by E & B Explorations Inc.  
is recommended.

REFERENCES

Dudas, B.M.

1965: Report on Exploration of the Molybdenum  
Property of Huestis Mining Corporation  
Ltd. at Pitman, B.C. during 1964.

Duffel, S. and Souther, J.G.

Memoir 329 - Geology of Terrace map area  
British Columbia, 103 I E½

Thompson, W.D.

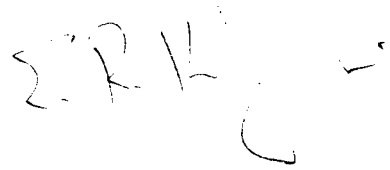
1965: Venture 64 - Pitman Huestin Molybdenite  
Prospect.

CERTIFICATE

I, EDWARD R. KRUCHKOWSKI, Geologist, residing at 23 Templeside Bay, North East, in the City of Calgary, in the Province of Alberta, hereby certify that:

1. I received a Bachelor of Science Degree in Geology from the University of Alberta, Edmonton, Alberta in 1972.
2. I have been practising my profession as an Exploration Geologist since 1972.
3. I am employed by E & B Explorations Ltd., at 2900 Cascade Building, 300 - 5th Avenue S.W., in the City of Calgary, in the Province of Alberta.
4. I hold no direct interest in, or expect to receive any of the benefits from the mineral property or properties described in this report.
5. The work described in this report was undertaken under my direct supervision.

DATED at the City of Calgary, in the Province of Alberta this      day of      , A.D. 1980.



E.R. KRUCHKOWSKI, B. Sc.  
Geologist



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APPENDIX 1  
DIAMOND DRILL LOGS  
79P-1 to 79P-4

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DRILL RECORD -- PITMAN PROJECT - PRISM

Coord. _____	Length <u>157 m</u>	Project <u>PITMAN</u>	Hole No. <u>79-P-1</u>
Elev. <u>500m</u>	Azimuth <u>090°</u>	Location <u>Helicopter pad area between Sand &amp; Bell Creeks-Redrill Canex 6</u>	Date <u>Nov.19/79</u>
Core Size <u>NQ</u>	Dip <u>-60°</u>	Purpose <u>Verify tenore of anex DDH 6 and develope structure model.</u>	Logged by <u>Colin Harivel</u>
Dip tests: 33m - 63°; 100m - 65°; 156m - 63°			

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	Quartz ASSAY						
From	To			From	To		V/m	%Py	%Mo	MoS <sub>2</sub>	W		
0	0.60									S <sub>2</sub>			
0.60	4.88	Casing in bedrock; no core.											
4.88		Grey hornfels: grey to slight pink, silificied, probably altered	16826	4.88	6.00	1.12	2-14	<1			0.002		
		rhyolite - slightly magnetic; quartz veins 60-75° to core axis; up to	7	6.0	8.0	2.0					0.007		
		20/m; average width 4 mm, up to 8 mm; commonly barren, but some have	8	8.0	10.0	2.0					0.002		
		blebs and grains of pyrite with or without MoS <sub>2</sub> + chalcopyrite (rare).	9	10.0	12.0	2.0					0.020		
		Limonite common fractures 20-30 to c.a. with chlorite + white calcite +	30	12.0	14.0	2.0					0.002		
		green gypsomand pyrophyllite (latest alteration assemblage - cuts and	31	14.0	17.0	3.0					0.002		
		off-sets quartz veins). Streaky texture @ 20° (?) to c.a.	32	17.0	18.0	1.0					0.002		
14-17		fault zone	33	18.0	20.0	2.0					0.032		
10.36	13.41	Red earthy hematite on fractures	34	20.0	22.0	2.0					0.033		
17.07	20.12	Similar to above but with fracture filling hematite + MoS <sub>2</sub> - minor	35	22.0	24.0	2.0					0.008		
		disseminated sulphide (pyrite).	36	24.0	26.0	2.0					0.007		
23.16	26.21	Similar to above increase in pink 'soar' alteration about 24 m	37	26.0	28.0	2.0	3-6	<1	0.03		0.003		
23	25	Green Hornfels	38	28.0	30.0	2.0					0.008		
		hematite mixture on fractures + increasing in amount; white to pink	39	30.0	32.0	2.0					0.005		
		carbonate + green pyrophyllite (?)	40	32.0	34.0	2.0				0.1	0.005		
25	32	Mixed zone	41	34.0	36.0	2.0					0.008		
		monzonite-quartz diorite; medium to coarse grained.	42	36.0	38.0	2.0					0.008		
31.09	32.32	Quartz monzonite	43	38.0	40.0	2.0					0.014		
		intrusive	44	40.0	42.0	2.0					0.015		
		about fractures quartz-monzonite or altered quartz diorite sub porphyritic	45	42.0	44.0	2.0	3	1	0.3		0.010		
		texture - Mixed intrusives.	46	44.0	46.0	2.0					0.007		

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DRILL RECORD --

PAGE 2

Coord. \_\_\_\_\_

Length \_\_\_\_\_

Project PITMAN - PRISM

Hole No. 79-P-1

Elev. \_\_\_\_\_

Azimuth \_\_\_\_\_

Location \_\_\_\_\_

Date \_\_\_\_\_

Core Size \_\_\_\_\_

Dip \_\_\_\_\_

Purpose \_\_\_\_\_

Logged by \_\_\_\_\_

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	ASSAY			MoS <sub>2</sub>	W
From	To			From	To		Quartz v/m	%P	%MoS <sub>2</sub>		
33.53	35.36	Similar to above with local fresh biotite ; weak pink feldspar envelopes	16847	46.0	48.0					0.005	
		on fractures; rare quartz veins; hairline quartz fractures at 20° to c.a.	48	48.0	50.0	2	1	0.03		0.006	
38.40	41.43	Similar to above with increasing pink feldspar alteration and hairline quartz veinlets.	49	50.0	52.0					0.018	
			50	52.0	54.0					0.010	
44.50	47.55	Similar to above to 46m, then gradational change to sub-porphyrific alteration. grey-matrix monzonite-diorite similar to that at 34m;	51	54.0	56.0		3			0.005	
		decreasing in disseminated pyrite; increasing in volume of green alteration assemblage on 20-30° fractures.	52	56.0	58.0			0.03		0.007	
			53	58.0	60.0					0.017	
			54	60.0	62.0					0.015	
48		Contact: Dark green Hornfels: chloritic; hematite + calcite fractures	55	62.0	64.0			<1		0.015	
49.99		20% by area of pyrite on fracture surfaces; rare quartz + k-spar veins + chalcopryrite + pyrite (MoS <sub>2</sub> ).	56	64.0	66.0					0.022	
			57	66.0	68.0	3	7			0.015	
53.04	55.47	Similar to above; local intrusive apophysis; increasing in quartz veins and note specific hematite (with a mixed MoS <sub>2</sub> (?) on slip surfaces.	58	68.0	70.0					0.003	
			59	70.0	72.0			0.03		0.005	
58.1		Pink Monzonite 1 cm pink feldspar envelope at 45° to c.a.	60	72.0	74.0					0.042	
		Diorite	61	74.0	76.0					0.027	
58.22	61.27	At 59.6-59.9 hornfels fine grained green chloritic andesite at 60.1-60.6	62	76.0	78.0					0.100	
		hornfels fine grained green chloritic andesite (soft)	63	78.0	80.0					0.077	
60.6	63.0	Quartz diorite Grey greenish altered quartz diorite; 25% chlorite; (increasing mafics).	64	80.0	82.0	6				0.031	
			65	82.0	84.0					0.018	
63	71.2	Hornfels Green chloritic Hornfels: similar to that at 48m+	66	84.0	86.0					0.043	
63.40	65.22	K-feldspar veins at 70° to core axis.	67	86.0	88.0		2	0.05		0.022	
71.2	85.9	Quartz diorite Grey quartz diorite - grey matrix sub porphyritic to bi-modal feldspathic texture relatively fresh biotite locally foliated (40° to c.a.)	68	88.0	90.0	4	1			0.200	
			69	90.0	92.0					0.018	







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DRILL RECORD --

Coord. \_\_\_\_\_ Length 152.10 m Project PITMAN - PRISM Hole No. 79P-2  
 Elev. 500 m Azimuth 090° 210' Location Same collar as 79P-1 Date Nov.3 - Nov.5/79.  
 Core Size NQ Dip -60° Purpose Structure and assay verification Logged by Colin Harivel  
 Canex DDH-6

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	Quartz ASSAY (ppm)				
From	To			From	To		Vein/m	%Py	%MoS <sub>2</sub>	MoS <sub>2</sub>	W
0	1	overburden	16903	3.05	4	0.95				0.002	7
1	3.05	Hornfels	4	4	6	2.0				0.002	3
4.88	7.32	Uncommon quartz veins and veinlets at 30° to c.a.	5	6	8	"	4	2		0.002	5
		Streaked appearance on split surface sub parallel to c.a. - may be secondary feature..	6	8	10	"				0.003	3
			7	10	12	"				0.010	4
10.36	13.44	Pink feldspar alteration up to 20% of rock .	8	12	14	"				0.003	3
		Locally veins of K-feldspar + quartz with blebs pyrite and chlorite fractures.	9	14	16	"	5	1		0.002	4
			10	16	18	"				0.002	5
15.88	17.07 & 17.07-18.90	Quartz veins erratically have pyrite grains: still note limonite.	11	18	20	"	6-8	<2		0.003	6
20.12	23.17		12	20	22	"				0.010	3
26.21	29.26	Increasing percentage of chlorite on fractures - generally darker grey with sub porphyritic texture from pink feldspar porphyroblasts.	13	22	24	"				0.010	3
			14	24	26	"				0.008	5
31.01	32.3 & 32.3 - 33.53	Commonly earthy red hematite on fractures parallel and sub parallel to c.a. and complement at 45, 20°; quartz vein 20,45, 70°.	15	26	28	"				0.008	2
		At 32.5m MoS <sub>2</sub> with admixed hematite (?).	16	28	30	"	20-30			0.005	2
			17	30	32	"			0.1	0.011	5
38.4		Quartz veins (earthy) at 55° to c.a.; sulphides common grey-purplish mottled texture intermittent hardness.	18	32	34	"	10-15	<1		0.007	6
			19	34	36	"				0.008	2
41.45	44.50	Andesite Hornfels	20	36	38	"	5-7		0.1	0.008	4
45.72		Almost all fractures have earthy hematite with admixed (?) MoS <sub>2</sub> - streaky appearance , sub parallel and up to 40° to c.a.	21	38	40	"				0.007	3
			22	40	42	"				0.002	4
46.94	49.68	At 50 meters open space cavity pink feldspar and carbonate + limonite	23	42	44	"				0.003	2
50.60		in otherwise similar rock to above.	24	44	46	"				0.005	3
53.69	55.79	Similar to above.	25	46	48	"				0.037	2

E & B EXPLORATIONS LTD.

DRILL RECORD --

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Coord. \_\_\_\_\_  
 \_\_\_\_\_  
 Elev. \_\_\_\_\_  
 \_\_\_\_\_  
 Core Size \_\_\_\_\_

Length \_\_\_\_\_  
 Azimuth \_\_\_\_\_  
 Dip \_\_\_\_\_

Project PITMAN  
 Location \_\_\_\_\_  
 Purpose \_\_\_\_\_

Hole No. 79P-2  
 Date \_\_\_\_\_  
 Logged by \_\_\_\_\_

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	Quartz ASSAY (ppm)				
From	To			From	To		V/m	% Py	% MoS <sub>2</sub>	MoS <sub>2</sub>	W
57.61	58.83	Similar to above.	16926	48	50	2.0			0.010	2	
59.74	62.79	Green andesite agglomerate - hornfels (?) relatively soft, broken	27	50	52				0.023	2	
65.84		with 10% calcite stringers and blebs.	28	52	54				0.005	2	
68.70		Andesite fine to medium grained salt and pepper texture.	29	54	56				0.007	2	
70.71	73.46	Common and frequent hematite - coated fractures <20-40°	30	56	58				0.003	3	
76.50	77.42	Softer, finer grained texture. salt and pepper texture.	31	58	60				0.003	2	
77.42	80.20	Quartz monzonite	32	60	62				0.006	2	
		diorite: suffused with hematite fractures and shattered zones	33	62	64				0.023	2	
		andesite; altered broken, invaded; suffused with hematite.	34	64	66				0.003	2	
80.47	82.30	Quartz monzonite	35	66	68				<0.002	2	
87.17	89.61	Andesite hornfels	36	68	70				<0.002	2	
		2 cm width veins at 89m quartz vein at 40°	37	70	72				0.002	2	
89.30		Quartz veins have same MoS <sub>2</sub> plus pyrite (hematite - MoS <sub>2</sub> admixture ?)	38	72	74				<0.002	2	
89.30	91.0	Quartz monzonite	39	74	76		7-10	5	0.1	0.002	2
90.83	93.27	Altered andesite vari-textured, sub-brecciation.	40	76	78				0.003	2	
93.32	99.36	Pink medium grained to coarse grained quartz monzonite.	41	78	80				0.047		
102.41	104.24	" " " " " " " " "	42	80	82				0.036		
107.30	108.51	" " " " " " " " "	43	82	84				0.030	13	
110.34	111.56	" " " " " " " " "	44	84	86				0.020	11	
111.56	114.61	Quartz diorite	45	86	88				0.039	6	
114.61	116.74	Andesite hornfels	46	88	90				0.048	8	
116.74	123.14	Quartz diorite	47	90	92		10		0.010	7	
		quartz diorite (?)	48	92	94				0.023	7	



E & B EXPLORATIONS LTD.

DRILL RECORD --

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Coord. \_\_\_\_\_

Length \_\_\_\_\_

Project PITMAN

Hole No. 79P-2

Elev. \_\_\_\_\_

Azimuth \_\_\_\_\_

Location \_\_\_\_\_

Date \_\_\_\_\_

Core Size \_\_\_\_\_

Dip \_\_\_\_\_

Purpose \_\_\_\_\_

Logged by \_\_\_\_\_

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	Quartz ASSAY				
From	To			From	To		V/m	%Py	%MoS <sub>2</sub>	MoS <sub>2</sub>	W
123.14	130.76	Hornfels	16949	94	96	2.0	<5			0.012	6
130.76	135.94	Quartz diorite	50	96	98	"				0.052	7
		slightly coarser texture than previous similar rock; some incipient brecciation.	51	98	100	"				0.043	6
			52	100	102	"				0.007	8
135.94	136.25	Chloritic matrix brecciated zone.	53	102	104	"				0.085	6
136.25		Slightly finer grained intrusive grey	54	104	106	"				0.037	8
146		No significant quartz veins.	55	106	108	"	<5			0.027	8
149.05	152.1	Some weak k-felspar alteration.	56	108	110	"				0.030	7
			57	110	112	"	<2			0.028	9
			58	112	114	"				0.028	8
		END OF HOLE.	59	114	116	"				0.005	3
			60	116	118	"				0.004	3
			61	118	120	"	<2			0.002	6
			62	120	122	"				0.003	4
			63	122	124	"				0.005	4
			64	124	126	"				0.025	3
			65	126	128	"				0.010	3
			66	128	130	"				0.005	3
			67	130	132	"				0.037	3
			68	132	134	"				0.002	3
			69	134	136	"				0.010	3
			70	136	138	"				0.002	6
			71	138	140	"				0.002	4



E & B EXPLORATIONS LTD.

DRILL RECORD --

Coord. \_\_\_\_\_ Length 154m Project PITMAN Hole No. 79P-3  
 Elev. 480 m Azimuth 090° Location 108 m to South of 79D1 Date Nov.7 to Nov.10/79  
 Core Size NQ Dip -61° Purpose Step out from 79P-1,2 Logged by Colin Harivel

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH V/m	Quartz ASSAY (ppm)			
From	To			From	To		%Py	%MoS <sub>2</sub>	MoS	W
0	3.66	No core - overburden to 2.5 m. casing to 3.66	16978	3.66	6.0	2.34			0.002	8
4.88	7.92	Quartz monzonite Intrusive: grey, weathered, to 13.5 then Pink altered quartz monzonite - diorite, limonite fractures.	79	6	8	2.0	1	5 (up to)	0.002	4
			80	8	10		5	1	0.004	3
9.14	10.97	At 7.16 50° quartz and heavy pyrite and pink felspar	81	10	12				0.002	4
		At 11.58 relatively fresh biotite section. All core slightly magnetic.	82	12	14		<1		0.010	6
13.11		Quartz diorite Contact with quartz diorite; k-felspar altered: green (gypsum-anhydrite pyrophyllite (?) on fractures	83	14	16				0.005	3
			84	16	18				0.003	3
15.85	18.59	Locally medium grained altered intrusive (?) strongly fractured and filled commonly calcite.	85	18	20				0.005	3
			86	20	22				0.003	3
21.64	23.17	Andesite hornfels 40-50°, 70°, 30° - similar to above varying k-felspar alteration, intensity	87	22	24			2	0.005	4
		Andesite - green, salt and pepper texture, altered - hornfels, limonite	88	24	26			1/2	0.003	3
		on fractures; significant Magnesium oxide.	89	26	28				0.002	3
26.21	28.04	Quartz diorite Pinkish grey, medium grained K-felspar pervasively altered sub-porphyritic (K-felspar phenocrysts). Limonite on fractures, looks similar to previous intrusive at collar; locally hematite and quartz + admixture	90	28	30		<1	<1	0.003	4
			91	30	32				0.007	6
			92	32	34		1-2	1	0.007	4
		MoS <sub>2</sub> (?)	93	34	36			1	0.015	3
31.55		Most fractures have calcite (30,60°).	94	36	38				0.010	3
31.55	32.31	Andesite hornfels Green altered andesite hornfels suffused with calcite stringers and veinlets.	95	38	40		1	2	0.05	0.014
			96	40	42				0.005	38
32.31		Grey, slightly purplish siliceous hornfels (altered acid volcanic).	97	42	44		2-3		0.005	6
35.36	36.58	Hornfels At 36m MoS <sub>2</sub> fractures - slickensides, green chlorite and hematite and calcite - pyrite; streaked fracture (mafics and K-felspar alteration) at 20° ro c.a.	98	44	46				0.007	3
			99	46	48				0.005	4
			17000	48	50		<1		0.06	0.011

E & B EXPLORATIONS LTD.

DRILL RECORD --

Coord. \_\_\_\_\_  
 Elev. \_\_\_\_\_  
 Core Size \_\_\_\_\_

Length \_\_\_\_\_  
 Azimuth \_\_\_\_\_  
 Dip \_\_\_\_\_

Project PITMAN  
 Location \_\_\_\_\_  
 Purpose \_\_\_\_\_

Page 2  
 Hole No. 79P-3  
 Date \_\_\_\_\_  
 Logged by \_\_\_\_\_

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	Quartz ASSAY (gpm)			
From	To			From	To		W/m	%Py	%MoS <sub>2</sub>	MoS <sub>2</sub>
		Grey, siliceous hornfels continues: very hard, limonite on fractures	15151	50	52	2.0			0.007	3
41.45		Incipient brecciation at 44.3m	52	52	54				0.010	3
44.50	45.72	Similar to above.	53	54	56		1-5	1-2	0.007	3
48.16	50.60	" " "	54	56	58				0.010	8
53.65	55.93	" " "	55	58	60				0.004	4
57.30	59.50	Andesite dyke At 59.2 to 59.4 andesite dyke	56	60	62	(up to) 10	1-2		0.008	2
59.50	59.64	Hornfels Green fine grained andesite dyke, dense, massive.	57	62	64				0.005	3
59.64	60.50	Grey siliceous hornfels, very hard (altered rhyolite)	58	64	66		5-7		0.003	3
60.50	63.55	Andesite dyke Green andesite dyke (as above)	59	66	68				0.008	6
63.55	64.62	Hornfels Grey, very hard K-felspar alteration, siliceous hornfels.	60	68	70				0.007	6
64.62	66.45	Andesite hornfels Green and pinkish K-felspar alteration andesite, porphyritic to medium grained.	61	70	72				0.005	4
			62	72	74				0.007	3
66.45	69.07	Hornfels Grey and pink siliceous hornfels (K-felspar alteration)	63	74	76		2-6	1-2	0.007	3
69.07	69.49	Mixed zone intrusive - hornfels; K-felspar altered.	64	76	78				0.007	3
69.49	71.93	Quartz monzonite K-felspar alteration medium to coarse grained, quartz monzonite	65	78	80				0.003	3
71.93	78.64	Andesite dyke Green dense-massive fine grained, andesite dyke	66	80	82				0.005	6
78.64	79.86	Zone of mixing.	67	82	84				0.003	8
79.86		Quartz monzonite Medium grained biotite quartz monzonite (b'phase with fine grained mafics).	68	84	86				0.005	4
			69	86	88				0.007	4
81.08	81.99	As above with common green, soft altered assemblage fractures.	70	88	90				0.004	6
87.48	90.22	Variably K-felspar alteration; mottley texture locally; quartz-hematite fractures, gougy hematite common.	71	90	92				0.003	6
			72	92	94				0.003	3
93.27	95.40	Relatively fresh-looking medium grained grey intrusive 20-35° epidote veinlets common; hematite and quartz at 80-90° common medium grained	73	94	96				0.003	6
			74	96	98				0.005	3

E & B EXPLORATIONS LTD.

DRILL RECORD --

Coord. \_\_\_\_\_

Length \_\_\_\_\_

Project PITMAN

Page 3

Elev. \_\_\_\_\_

Azimuth \_\_\_\_\_

Location \_\_\_\_\_

Hole No. 79P-3

Core Size \_\_\_\_\_

Dip \_\_\_\_\_

Purpose \_\_\_\_\_

Date \_\_\_\_\_

Logged by \_\_\_\_\_

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	Quartz ASSAY (ppm)				
From	To			From	To		g/m	% Pv	% MoS <sub>2</sub>	MoS <sub>2</sub>	W
		grey intrusive; locally more k-felspar alteration sub porphyritic texture.	15175	98	100	2.0			0.002	3	
			76	100	102				0.003	3	
98.45	100.58	As above.	77	102	104				0.003	3	
102.87	104.55	Andesite dyke	78	104	106				0.003	6	
104.55		Quartz monzonite	79	106	108				0.007	8	
		( pervasive) altered than above.	80	108	110				0.005	9	
110.64		more coherent (away from contact effects.	81	110	112	20		<1	0.007	8	
106.99	108.51	Coarsely granular 20-25% quartz.	82	112	114				0.007	8	
112.17	113.23	Andesite volcanic vein.	83	114	116				0.005	8	
115.21	115.98	" " " contact at 25°.	84	116	118				0.007	6	
124.97		Otherwise siliceous pink altered quartz monzonite - diorite.	85	118	120				0.002	8	
	124.97	Hornfels	86	120	122	1			0.003	3	
117.65	118.57	Green altered and shattered andesite volcanic (hornfels)	87	122	124				0.010	3	
139	142	Suffused with calcite	88	124	126				0.007	7	
145.8		Increasing quartz veins.	89	126	128				0.015	7	
148.5		Rock more competent, more fine grained.	90	128	130				0.064	18	
152.4		visible MoS <sub>2</sub> on 2mm fractures filling and slickensides.	91	130	132	2			0.003	14	
154.23m		10% pyrite dissemination - no visible MoS <sub>2</sub> (late pyrite (?))	92	132	134				0.010	11	
		END OF HOLE 154.23 meters.	93	134	136				0.007	9	
			94	136	138				0.022	23	
			95	138	140	2			0.006	18	
			96	140	142				0.007	16	
			97	142	144				0.003	8	
			98						0.010	9	



E & B EXPLORATIONS LTD.

DRILL RECORD --

Coord. \_\_\_\_\_

Length 152

Project PITMAN - PRISM

Hole No. 79P-4

Elev. \_\_\_\_\_

Azimuth 270

Location Same as 79P-3

Date Nov.10 to Nov.12/79

Core Size \_\_\_\_\_

Dip -59°

Purpose \_\_\_\_\_

Logged by Colin Harivel

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	Quartz ASSAY (ppm)				
From	To			From	To		V/m	%Py	%MOS <sub>2</sub>	MOS <sub>2</sub>	W
0	3.35	No core.	15203	3.35	6					0.003	3
3.35		Quartz diorite	4	6	8		1-2	<1	leach	0.005	6
		itized fractures 60-80 - soft green assemblage + calcite	5	8	10					0.020	3
		20-35 " " " " "	6	10						0.003	33
10.97	11.89	Epidote at 20-35 common 2-4mm wide hematite on tight fractures at 70-90°	7							0.005	58
		up to 20/m	8							0.003	4
16.46		Gradational contact from grey variable texture.	9				<1	2-4		0.005	11
16.46	17.2	Upper zone of sill (?) to slightly coarser grained pervasively K-felspar	10							0.003	3
21.34		alteration quartz monzonite; limonite on fractures.	11							0.003	3
		Grey coarse grained white felspar phenocrysts to bimodal texture,	12							0.003	6
		porphyry; variable pervasive K-felspar alteration.	13							0.002	3
25.6	33.07	Andesite dyke	14				<1			0.003	4
33.07	38.25	Quartz diorite	15							0.002	3
38.25	39.01	Hornfels	16				1			0.005	3
		vein cut by epidote veinlets at 20°; limonite.	17							0.002	3
39.01		Quartz diorite	18				2	12		0.003	4
		intrusive.	19					1		0.003	7
40.39	43.28	Similar to 33-38m 15% biotite.	20							0.004	3
45.42	48.46	Relatively fresh local variable in texture and quartz veins 30°	21							0.007	7
47.24		More pervasively altered but grey not pink porphyry at 151.5' 4 cm	22							0.007	6
		quartz and felspar porphyry vein.	23							0.007	3
47.24	49.38	Andesite dyke	24							0.003	4
49.38		Quartz diorite	25							0.002	7

E & B EXPLORATIONS LTD.

DRILL RECORD --

page 2

Coord. \_\_\_\_\_

Length \_\_\_\_\_

Project PITMAN

Hole No. 79P-4

Elev. \_\_\_\_\_

Azimuth \_\_\_\_\_

Location \_\_\_\_\_

Date \_\_\_\_\_

Core Size \_\_\_\_\_

Dip \_\_\_\_\_

Purpose \_\_\_\_\_

Logged by \_\_\_\_\_

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	ASSAY				
From	To			From	To		Qz.V.	%Py	%MoS <sub>2</sub>	MoS <sub>2</sub>	W
		at 49.84 - 50.90 andesite dyke	15226						0.003	3	
		* xenolith at 51m of pink coarser grained intrusive (similar to top of hole).	27						0.002	3	
		Grey porphyritic quartz-diorite	28						0.003	3	
		Grey porphyritic quartz-diorite	29						0.003	3	
49.84	53.65	Grey relatively fine grained; fractures pink assemblage anhydrite + dolomite + minimum hematite + minimum epidote	30						0.003	3	
		epidote 60-80°.	31						0.002	3	
		epidote 60-80°.	32						0.003	2	
55.47	58.52	Fresher yet sparsely porphyritic; less tendency to bi-modal felspar texture. (because of fracture altered assemblage (pink not green) this intrusive may be post mineral.	33						0.003	2	
		Fresh generally relatively fine grained, grey, biotite to chlorite (15%).	34						0.003	3	
68.89	70.71	Fresh generally relatively fine grained, grey, biotite to chlorite (15%).	35						0.002	3	
		chlorite (15%).	36						0.002	2	
76.51		Darker grey - pervasive chloritized gypsum - anhydrite	37						0.002	3	
		at 25° to c.a. at 77.57 open space pink assemblage.	38						0.002	3	
		79.40 chilled contact.	39						0.003	2	
79.40		Quartz monzonite Pink intrusive; irregular contact. Quartz monzonite	40						0.003	3	
83.21	86.26	similar to previous wispy hematite and chlorite fractures and stringers throughout 20-40°	41						0.005	3	
		and stringers throughout 20-40°	42						0.005	20	
92.35		Green alteration assemblage + calcite.	43						0.003	3	
		Grey sub-porphyritic white felspar.	44						0.020	3	
95.10	93.73	Quartz feldspar porphyry quartz-feldspar porphyry, 3 cm wide 80° to c.a.	45						0.005	3	
93.73	98.61	Andesite hornfels Green altered andesite.	46						0.003	3	
98.61	104.68	Hornfels Grey to pink siliceous streaked texture hornfels - altered rhyolite	47					<1	0.003	3	
		<10° to c.a.	48				4-10	2	0.023	3	



E & B EXPLORATIONS LTD.

DRILL RECORD --

Page 3

Coord. \_\_\_\_\_  
 \_\_\_\_\_  
 Elev. \_\_\_\_\_  
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 Core Size \_\_\_\_\_

Length \_\_\_\_\_  
 Azimuth \_\_\_\_\_  
 Dip \_\_\_\_\_

Project PITMAN  
 Location \_\_\_\_\_  
 Purpose \_\_\_\_\_

Hole No. 79P-4  
 Date \_\_\_\_\_  
 Logged by \_\_\_\_\_

METER		DESCRIPTION	SAMPLE NUMBER	INTERVAL		SAMPLE LENGTH	ASSAY				
From	To			From	To		Qt.	SPY	MoS <sub>2</sub>	MoS <sub>2</sub>	(ppm) W
104.68	106.38	Andesite dyke	15249							0.012	3
106.38	115.52	Hornfels	50				5-7	2-4		0.012	3
115.52	120.70	Quartz diorite	51				1-2	5		0.008	3
120.70	121.1	Andesite dyke	52							0.008	13
		Grey and pink streaky texture siliceous hornfels.; Pyrite in stringers	53				5			0.007	13
		of re-mob quartz and fractures.	54							0.003	8
121.1	128.17	Hornfels	55							0.007	3
128.17	131.37	Andesite dyke	56							0.007	3
129.23			57							0.019	3
131.37		Hornfels	58							0.007	3
139.60		" " " " " " " " " " " "	59				3-4	5		0.007	2
139.60	140.82	Quartz monzonite	60							0.003	2
		altered intrusive xenolith altered rhyolite.	61					2-4		0.007	3
142.04		Green andesite dyke,	62							0.007	3
142.04	143.25	Hornfels	63							0.007	3
		incipient stockwork, minimum pyrite + MoS <sub>2</sub> , MoS <sub>2</sub> on slickensides at	64				6	2	0.05	0.027	3
		143.87.	65							0.005	3
146.0		Pink hornfels altered and shattered rhyolite hornfels with local	66				10	3	0.06	0.015	3
		incipient stockwork, at 149.66-151.18 shattered; K-felspar and	67							0.027	3
		chlorite incipient brecciation. at 151.79 MoS <sub>2</sub> on slickensides.	68							0.008	3
153.31	154.23	Andesite salt and pepper texture - intrusive (?)	69				0	5	trace	0.007	3
			70							0.022	3
			71							0.010	3
			72							0.030	3



APPENDIX 11  
ASSAY RESULTS - MoS<sub>2</sub>

3015 - 400 - 4th Avenue SW  
 Calgary, Alberta T2P 0J4

CERTIFICATE OF ASSAY

Samples submitted: November 6, 1979  
 Results completed: November 16, 1979

I hereby certify that the following are the results of assays made by us upon the herein described.....core.....samples.

MARKED	GOLD		SILVER		MoS <sub>2</sub>						
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
16826					0.002						
16827					0.007						
16828					0.002						
16829					0.020						
16830					0.002						
16831					<0.002						
16832					<0.002						
16833					0.032						
16834					0.033						
16835					0.008						
16836					0.007						
16837					0.003						
16838					0.008						
16839					0.005						
16840					0.005						
16841					0.008						
16842					0.008						
16843					0.014						
16844					0.015						
16845					0.010						
16846					0.007						
16847					0.005						
16848					0.006						
16849					0.018						

NOTE:  
 Rejects retained three weeks  
 Pulps retained three months  
 unless otherwise arranged.

  
 Registered Assayer, Province of British Columbia



geochemists • assayers • analytical chemists

BONDAR-CLEGG & COMPANY LTD.

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.

PHONE: 988-5315

TELEX: 04-54554

CERTIFICATE OF ASSAY

TO E & B Explorations Ltd.

A29 - 1490

400 - 4th Avenue South West

November 19, 1979

Calgary, Alberta T2P 0J4

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	MoS <sub>2</sub> Percent	MARKED	MoS <sub>2</sub> Percent	MARKED	MoS <sub>2</sub> Percent
16850	0.010	16872	0.007	16894	0.078
16851	0.005	16873	0.250	16895	0.133
16852	0.007	16874	0.038	16896	0.146
16853	0.017	16875	0.047	16897	0.013
16854	0.015	16876	0.022	16898	0.017
16855	0.015	16877	0.035	16899	0.020
16856	0.022	16878	0.027	16900	0.022
16857	0.015	16879	0.060	16901	0.012
16858	0.003	16880	0.018	16902	0.030
16859	0.005	16881	0.058		
16860	0.042	16882	0.017		
16861	0.027	16883	0.013		
16862	0.100	16884	0.028		
16863	0.077	16885	0.003		
16864	0.031	16886	0.010		
16865	0.018	16887	0.005		
16866	0.043	16888	0.023		
16867	0.022	16889	0.016		
16868	0.200	16890	0.078		
16869	0.018	16891	0.030		
16870	0.022	16892	0.050		
16871	0.027	16893	0.060		

NOTE: Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

Registered Assayer, Province of British Columbia



**BONDAR-CLEGG & COMPANY LTD.**

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.  
PHONE: 988-5315

TELEX: 04-54554

**CERTIFICATE OF ASSAY**

TO E & B Explorations Ltd.  
400 - 4th Avenue South West  
Calgary, Alberta T2P 0J4

A29 - 1507

November 22, 1979

*I hereby certify* that the following are the results of assays made by us upon the herein described **core** **samples.**

MARKED	MoS <sub>2</sub> Percent	MARKED	MoS <sub>2</sub> Percent	MARKED	MoS <sub>2</sub> Percent
16903	0.002	16925	0.037		
16904	0.002	16926	0.010		
16905	<0.002	16927	0.023		
16906	0.003	16928	0.005		
16907	0.010	16929	0.007		
16908	0.003	16930	0.003		
16909	0.002	16931	0.003		
16910	0.002	16932	0.006		
16911	0.003	16933	0.023		
16912	0.010	16934	0.003		
16913	0.010	16935	<0.002		
16914	0.008	16936	<0.002		
16915	0.008	16937	0.002		
16916	0.005	16938	<0.002		
16917	0.011	16939	0.002		
16918	0.007	16940	0.003		
16919	0.008	16941	0.047		
16920	0.008	16942	0.036		
16921	0.007				
16922	0.002				
16923	0.003				
16924	0.005				

**NOTE:**  
Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

Registered Assayer, Province of British Columbia



BONDAR-CLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.

PHONE: 988-5315

TELEX: 04-54554

CERTIFICATE OF ASSAY

TO E & B Explorations Ltd.

A29 - 1582

2900 Cascade Building

December 7, 1979

300 - 5th Avenue South West - Calgary, Alberta

T2P 3C4

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	MoS <sub>2</sub> Percent	MARKED	MoS <sub>2</sub> Percent	MARKED	MoS <sub>2</sub> Percent
16943	0.030	16965	0.010	16987	0.005
16944	0.020	16966	0.005	16988	0.003
16945	0.039	16967	0.037	16989	0.002
16946	0.048	16968	0.002	16990	0.003
16947	0.010	16969	0.010	16991	0.007
16948	0.023	16970	0.002	16992	0.007
16949	0.012	16971	0.002	16993	0.015
16950	0.052	16972	0.003	16994	0.010
16951	0.043	16973	0.003	16995	0.014
16952	0.007	16974	0.002	16996	0.005
16953	0.085	16975	<0.002	16997	0.005
16954	0.037	16976	0.003	16998	0.007
16955	0.027	16977	0.002	16999	0.005
16956	0.030	16978	0.002	17000	0.011
16957	0.028	16979	0.002	15151	0.007
16958	0.028	16980	0.004	15152	0.010
16959	0.005	16981	0.002	15153	0.007
16960	0.004	16982	0.010	15154	0.010
16961	0.002	16983	0.005	15155	0.004
16962	0.003	16984	0.003	15156	0.008
16963	0.005	16985	0.005	15157	0.005
16964	0.025	16986	0.003	15158	0.003

NOTE:

Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

Registered Assayer, Province of British Columbia



BONDAR-CLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.

PHONE: 988-5315

TELEX: 04-54554

CERTIFICATE OF ASSAY

TO E. & B. Explorations Ltd.

A29 - 1582

PAGE 2

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

Table with 7 columns: MARKED, MoS2 Percent, MARKED, MoS2 Percent, MARKED, MoS2 Percent, MARKED. Rows contain sample numbers (15159-15180) and their corresponding MoS2 assay results.

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Handwritten signature of the assayer

Registered Assayer, Province of British Columbia





BONDAR-CLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.

PHONE: 988-5315

TELEX: 04-54554

CERTIFICATE OF ASSAY

TO E & B Explorations Ltd.

A29 - 1582


PAGE 3

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	MoS <sub>2</sub> Percent	MARKED	Percent	MARKED	Percent
15225	0.002				
15226	0.003				
15227	<0.002				
cc Mr. Colin Harivel					

NOTE:

Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

  
Registered Assayer, Province of British Columbia



**BONDAR-CLEGG & COMPANY LTD.**

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.  
PHONE: 988-5315

TELEX: 04-54554

**CERTIFICATE OF ASSAY**

TO ..... E & B Explorations Inc. ....  
..... 400 - 4th Avenue South West .....  
..... Calgary, Alberta ..... T2P 0J4 .....

A29 - 1555  
November 29, 1979

*I hereby certify* that the following are the results of assays made by us upon the herein described core samples.

MARKED	MoS <sub>2</sub> Percent	MARKED	MoS <sub>2</sub> Percent	MARKED	MoS <sub>2</sub> Percent
15228	0.003	15250	0.012	15272	0.030
15229	0.003	15251	0.008	15273	0.062
15230	0.003	15252	0.008	15274	0.022
15231	0.002	15253	0.007	15275	0.007
15232	0.003	15254	0.003	15276	0.017
15233	0.003	15255	0.007	15277	0.023
15234	0.003	15256	0.007		
15235	<0.002	15257	0.019		
15236	0.002	15258	0.007		
15237	0.002	15259	0.007		
15238	<0.002	15260	0.003		
15239	0.003	15261	0.007		
15240	0.003	15262	0.007		
15241	0.005	15263	0.007		
15242	0.005	15264	0.027		
15243	0.003	15265	0.005		
15244	0.020	15266	0.015		
15245	0.005	15267	0.027		
15246	0.003	15268	0.008		
15247	0.003	15269	0.007		
15248	0.023	15270	0.022		
15249	0.012	15271	0.010		

cc Mr. Colin Harivel

NOTE:  
Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

  
Registered Assayer, Province of British Columbia

APPENDIX 111  
ASSAY RESULTS - W







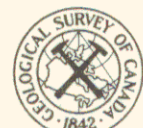






APPENDIX IV  
STATEMENT OF COSTS

Diamond Drilling	\$ 57,784.20
Assaying	3,505.87
Helicopter Support	8,896.34
Geological Costs	2,594.00
Crew Board (dates see P.4)	722.00
	<hr/>
	\$ 73,502.41
	<hr/> <hr/>



LEGEND

- CENOZOIC**
- QUATERNARY**  
PLEISTOCENE AND RECENT
- 8 Sand, gravel, clay, alluvium
- CRETACEOUS OR LATER**  
UPPER CRETACEOUS OR LATER  
COAST INTRUSIONS
- 7 Undifferentiated: granodiorite, diorite, quartz diorite, quartz monzonite, adamellite, granite, gabbro  
Border Facies: 7a, hornblende and hornblende-biotite granodiorite; 7b, hornblende diorite, quartz diorite, migmatite  
Inner Facies: 7c, white granodiorite; 7d, green granodiorite;  
7e, pink granodiorite  
Pyroxene Quartz Diorite Facies: 7f, border phase; fine-grained, non-porphyrific, pyroxene quartz diorite; 7g, coarse-grained, non-porphyrific phase; pyroxene granodiorite 7h, porphyritic phase; pyroxene granodiorite and adamellite;  
7i, central phase; adamellite and granophyre  
Gabbro Facies: 7j, olivine gabbro, pyroxene gabbro diorite
- JURASSIC AND (?) CRETACEOUS**  
UPPER JURASSIC AND (?) LOWER CRETACEOUS  
BOWSER GROUP
- 6 Greywacke, conglomerate, argillite; minor tuff
- JURASSIC**  
LOWER (?) AND MIDDLE JURASSIC  
HAZELTON GROUP
- 5 Andesite, basalt, rhyolite, dacite
- 4 Andesite, breccia, tuff, greywacke, argillite
- TRIASSIC (?)**
- 3 Limestone-boulder conglomerate, greywacke, banded volcanic sandstone, chert
- CARBONIFEROUS AND PERMIAN**
- 2 White crystalline limestone
- 1 Greenstone, shale, argillaceous limestone, limestone

- Bedding (inclined, vertical) . . . . .
- Schistosity (inclined, dip unknown) . . . . .
- Fault (defined, approximate) . . . . .
- Anticline (defined, approximate) . . . . .
- Syncline (defined, approximate) . . . . .
- Glacial striae . . . . .
- Fossil locality (leaves, shells) . . . . .
- Mineral property . . . . . 34.

Geology by S. Duffell and J.G. Souther, 1953, 1954 and 1955

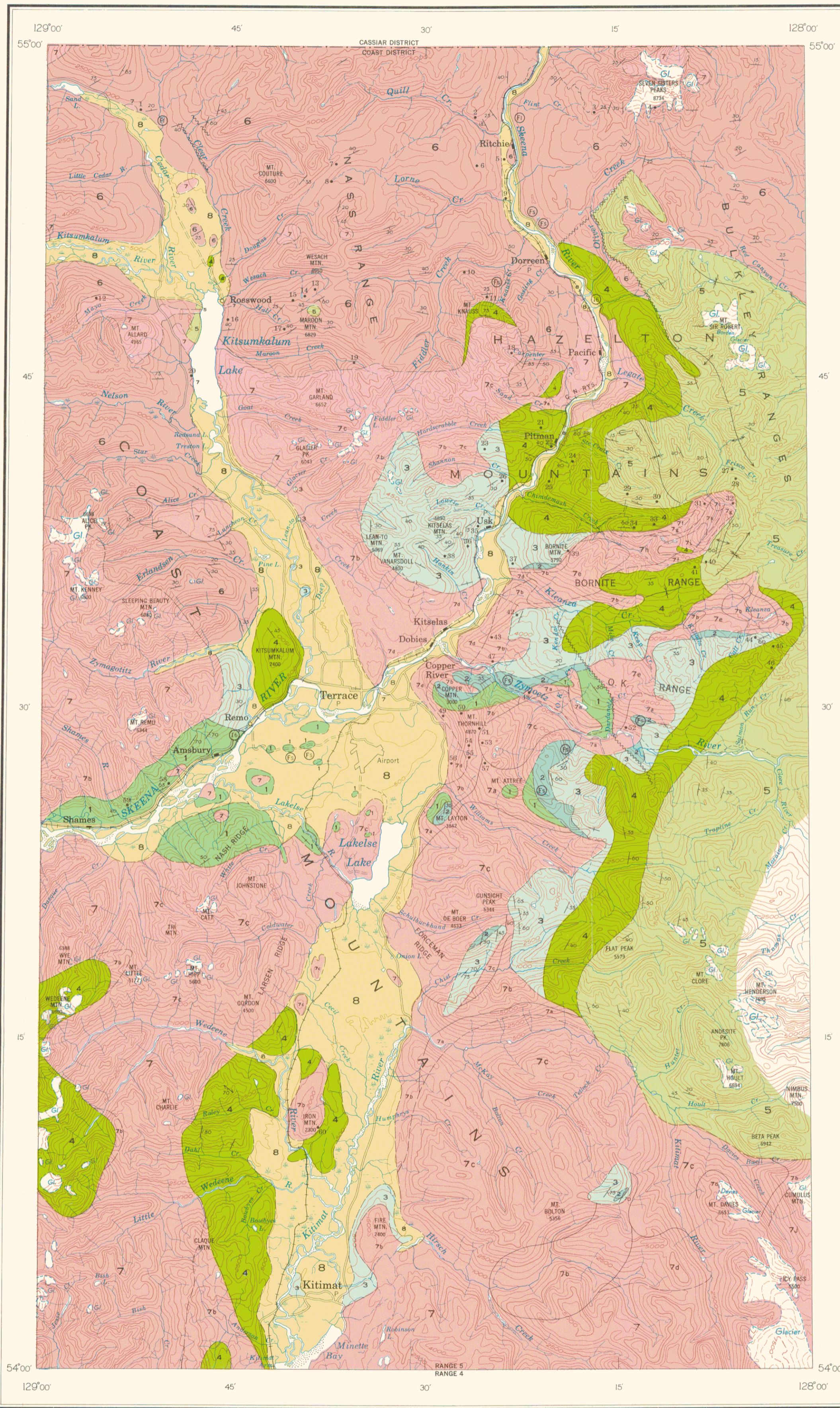
To accompany G.S.C. Memoir 329 by S. Duffell and J.G. Souther,

- Road, all weather . . . . .
- Other roads . . . . .
- Trail . . . . .
- Post Office . . . . . P
- District boundary . . . . .
- Intermittent streams and lakes . . . . .
- Marsh . . . . .
- Sand . . . . .
- Contours (interval 500 feet) . . . . .
- Height in feet above mean sea-level . . . . . 7500

Cartography by the Geological Survey of Canada, 1963

Base-map by the Surveys and Mapping Branch.  
Revisions by the Geological Survey of Canada

Mean magnetic declination, 26° 56' West, decreasing 3.3' annually. Readings vary from 26° 30' in the SE corner to 27° 17' in the NW corner of the map-area.



INDEX TO MINING PROPERTIES

1. Silver Plate and Silver Cup group
2. Windfall group
3. Seven Sisters group (D and W)
4. Caledonia group
5. Buccaneer of the North group
6. Canadian Swede group
7. September group
8. July group
9. Dry Hill Placer group
10. Patmore group
11. Dorreen Gold Mine
12. Martin group
13. Guld claim
14. Bear claim
15. Black Wolf claim
16. Belway and Rex group
17. Motherlode claim
18. Gold Dome group
19. Keystone and Lucy O'Neil claims
20. Portland claims
21. Groto group
22. Diorite group
23. A-B group
24. Bradle Bane group
25. St. Elmo group
26. Nicholson Creek Mining Corporation
27. Frisco group
28. M and K group
29. Shenandoah group
30. United Ste-Croix group
31. Zona May group
32. M and M claims
33. Galena group
34. Silver Mitts group
35. Cordillera group
36. Lucky Luke group
37. Independence group
38. Nugget group
39. Singlehurst claim
40. Silver Crown group
41. Silver Basin group
42. Columario Consolidated Gold Mines Ltd.
43. Silver Bow and Silver Cliff groups
44. Avon group
45. Wells group
46. Montana group
47. Zymoetz group
48. Providence group
49. Globe claim
50. La Libertad claim
51. Parmigan claim
52. Dardanelle group-Omineca Gold Quartz
53. St. Paul and X claim
54. A-claim
55. B-claim
56. Coin claim
57. Eureka claim
58. Autumn group
59. A. E. Barr-Limestone quarry
60. Iron Mountain magnetite deposit

PUBLISHED, 1964  
COPIES OF THIS MAP MAY BE OBTAINED FROM THE  
DIRECTOR, GEOLOGICAL SURVEY OF CANADA, OTTAWA

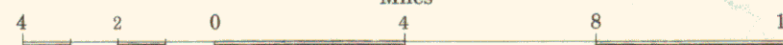
MAPI36A

PRINTED BY THE SURVEYS AND MAPPING BRANCH

GEOLOGY  
**TERRACE**  
BRITISH COLUMBIA

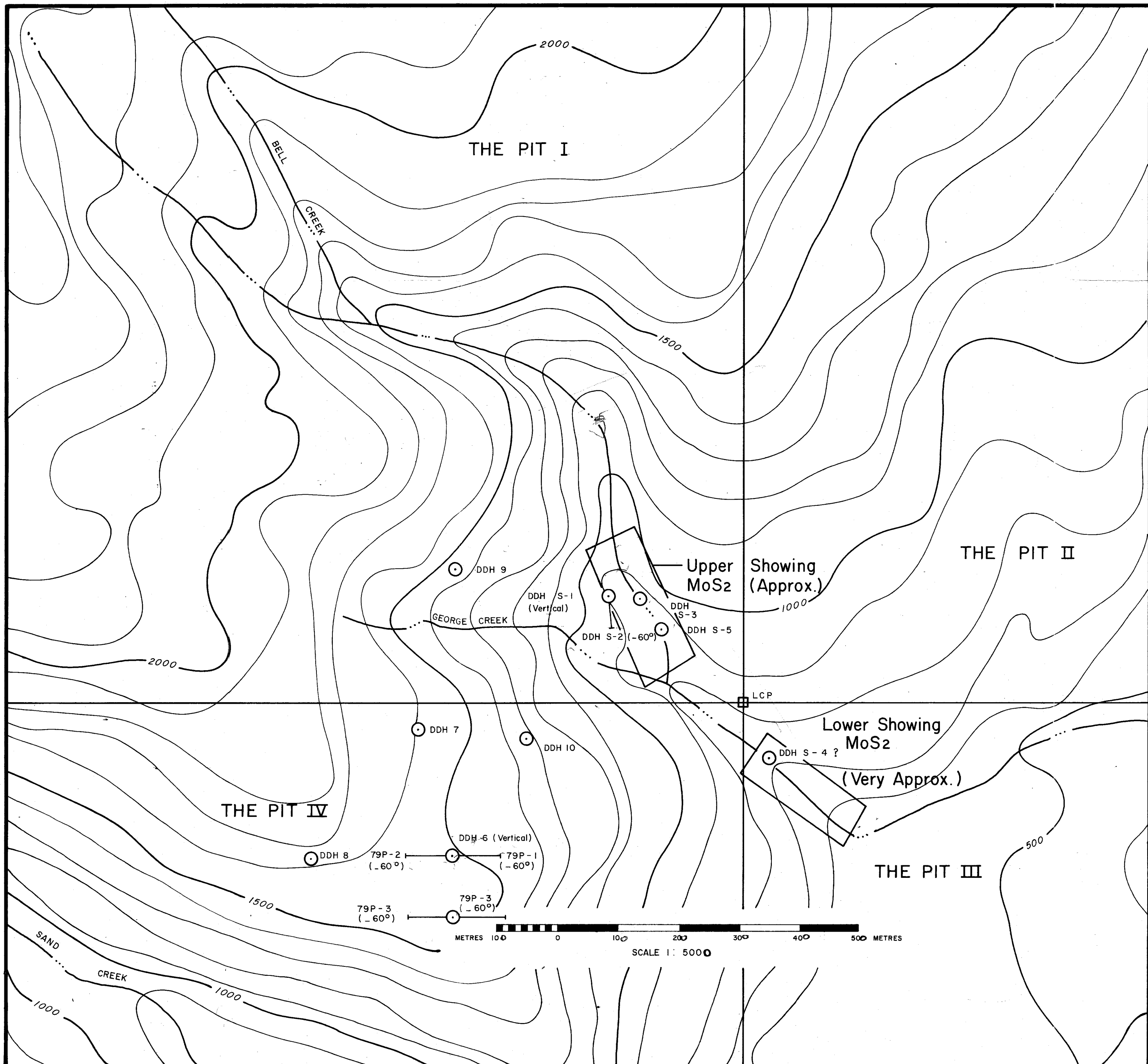
FIGURE 3

Scale: One Inch to Four Miles =  $\frac{1}{253,440}$   
Miles



MINERAL RESOURCES BRANCH

7993



MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**7993**  
 NO.

LEGEND

- Drill Hole Collar Location
- ⊕ Legal Corner Post
- Claim Boundary

*E.R. 128*

E & B EXPLORATIONS INC.

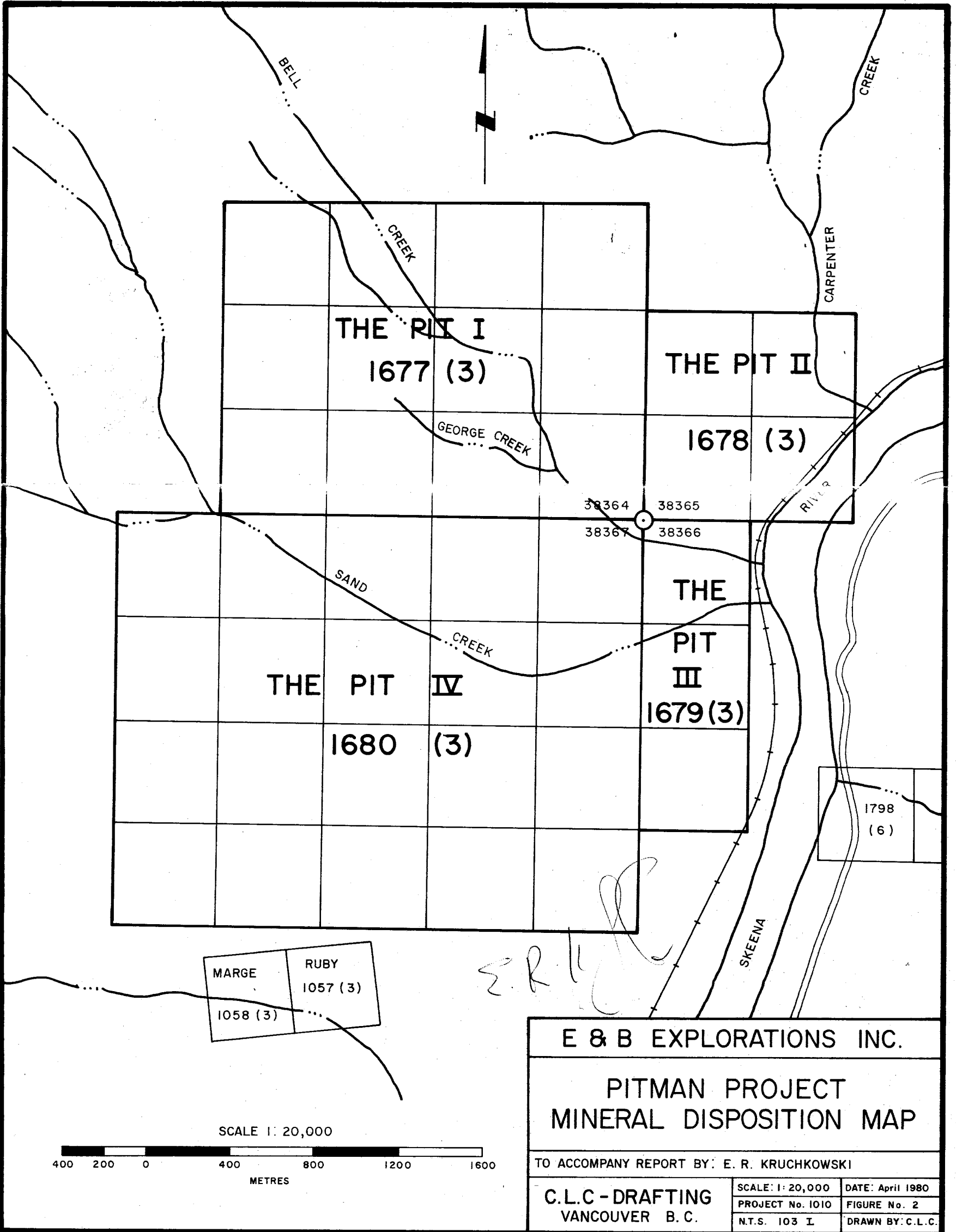
PITMAN PROJECT  
 DRILL HOLE COLLAR  
 LOCATION MAP

TO ACCOMPANY REPORT BY: E. R. KRUCHKOWSKI

C. L. C. DRAFTING VANCOUVER B.C.	Scale: 1: 500	Date: April, 1980
	Project No. 1010	Figure No. 4
	N.T.S. 103 I	Drawn by: C. L. Cory

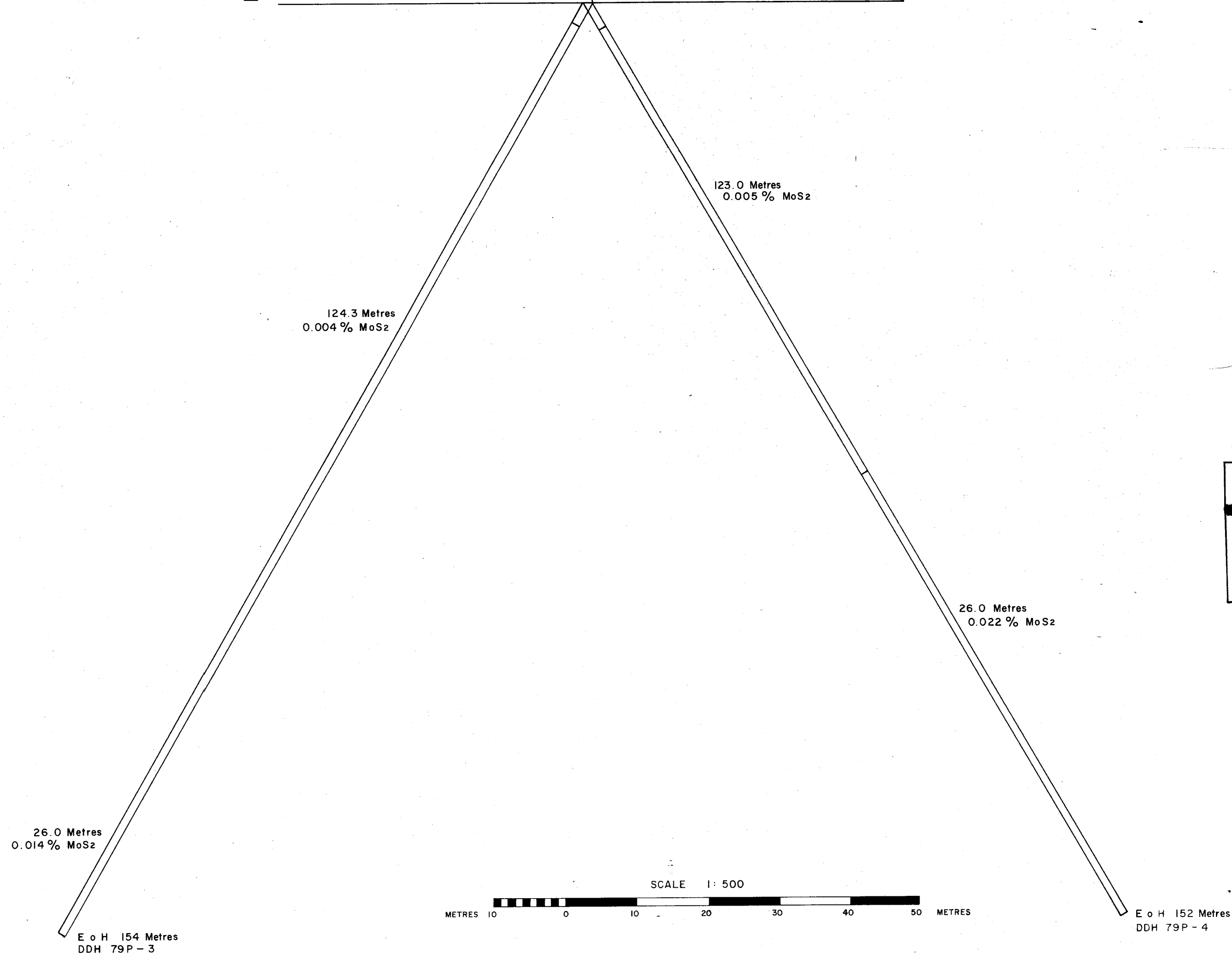
MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

**7993**  
NO.



SECTION SHOWING DDH 79P-3, 79P-4 LOOKING SOUTH

E \_\_\_\_\_ DRILL COLLARS \_\_\_\_\_ W

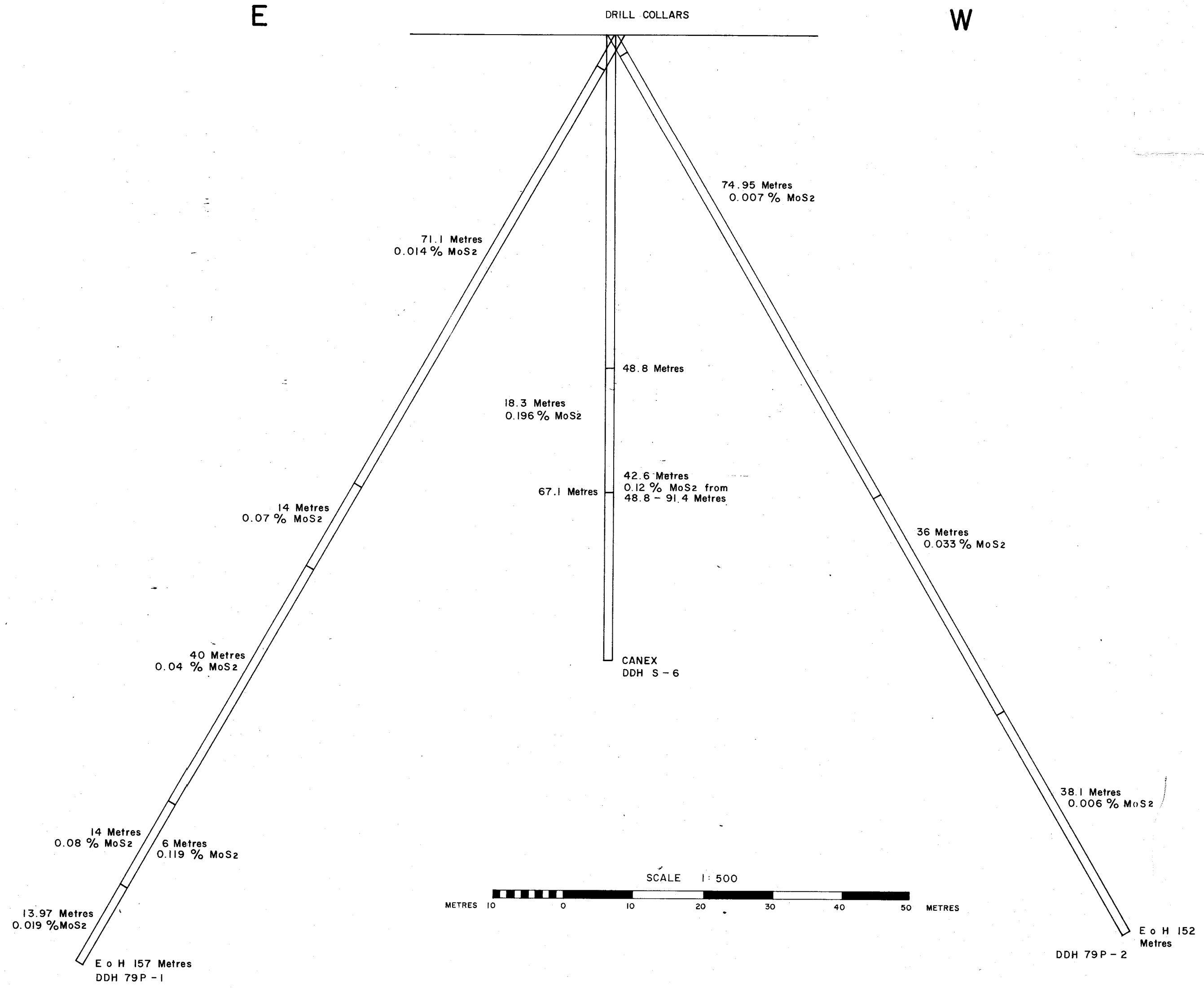


MINERAL RESOURCES BRANCH  
**7993**  
 NO.

*E.R. Kruckowski*

E & B EXPLORATIONS INC.		
PITMAN PROJECT ASSAY SECTION SHOWING DDH 79P-3, and 79P-4		
TO ACCOMPANY REPORT BY: E. R. KRUCKOWSKI		
C. L. C. DRAFTING VANCOUVER B.C.	Scale: 1:5,000	Date: April, 1980
	N.T.S. 103 I	Figure No. 8 Drawn by: C. L. Cory

SECTION SHOWING DDH S-6, 79P-1, 79P-2 LOOKING SOUTH



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**7993**  
NO

*E.R.K.*

E & B EXPLORATIONS INC.		
PITMAN PROJECT ASSAY SECTION SHOWING DDH 79P-1, and 79P-2, S-6		
TO ACCOMPANY REPORT BY: E. R. KRUCKOWSKI		
C. L. C. DRAFTING VANCOUVER B. C.	Scale: 1:5,000	Date: April, 1980
	Project No. 1010	Figure No. 7
	N.T.S. 103 I	Drawn by: C. L. Cory

470 — Metres above sea level

460 —

450 —

440 —

430 —

420 —

410 —

400 —

390 —

380 —

370 —

360 —

350 —

340 —

330 —

320 —

310 —

300 —

DDH 79P-3

DDH 79P-4

Ground level

AZIMUTH 090°  
DIP - 61°

AZIMUTH 270°  
DIP - 59°

See drill log note

LEGEND

Pre - Intrusive Rocks

- 1 Grey to sl. pink siliceous hornfels. alt'd acid volc.
- 2 Green andesite hornfels and chloritized andesite

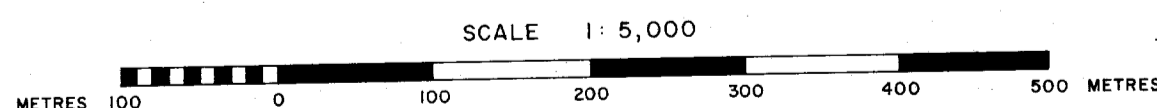
Intrusive Rocks

- D Andesite dykes
- C Fine - to med - gr. grey qtz. monz. qtz. dior.
- B Med - gr. grey to pink feldspar porphyry qtz. dior - qtz. monz.
- A Med. to coarse - gr. qtz. monz. - qtz. dior.

- ~ Fault zone
- Geological contact

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**7993**

*E.R. Kruckowski*



154 Metres

152 Metres

E & B EXPLORATIONS INC.

PITMAN PROJECT  
GEOLOGICAL SECTION SHOWING  
DDH 79P-3 and 79P-4

TO ACCOMPANY REPORT BY: E. R. KRUCKOWSKI

C. L. C. DRAFTING VANCOUVER B. C. Scale: 1: 5,000 Date: April, 1980  
Project No. 1010 Figure No. 6  
N.T.S. 103I Drawn by: C. L. Cory

470 — Metres above sea level

460 —  
450 —  
440 —  
430 —  
420 —  
410 —  
400 —  
390 —  
380 —  
370 —  
360 —  
350 —  
340 —  
330 —  
320 —

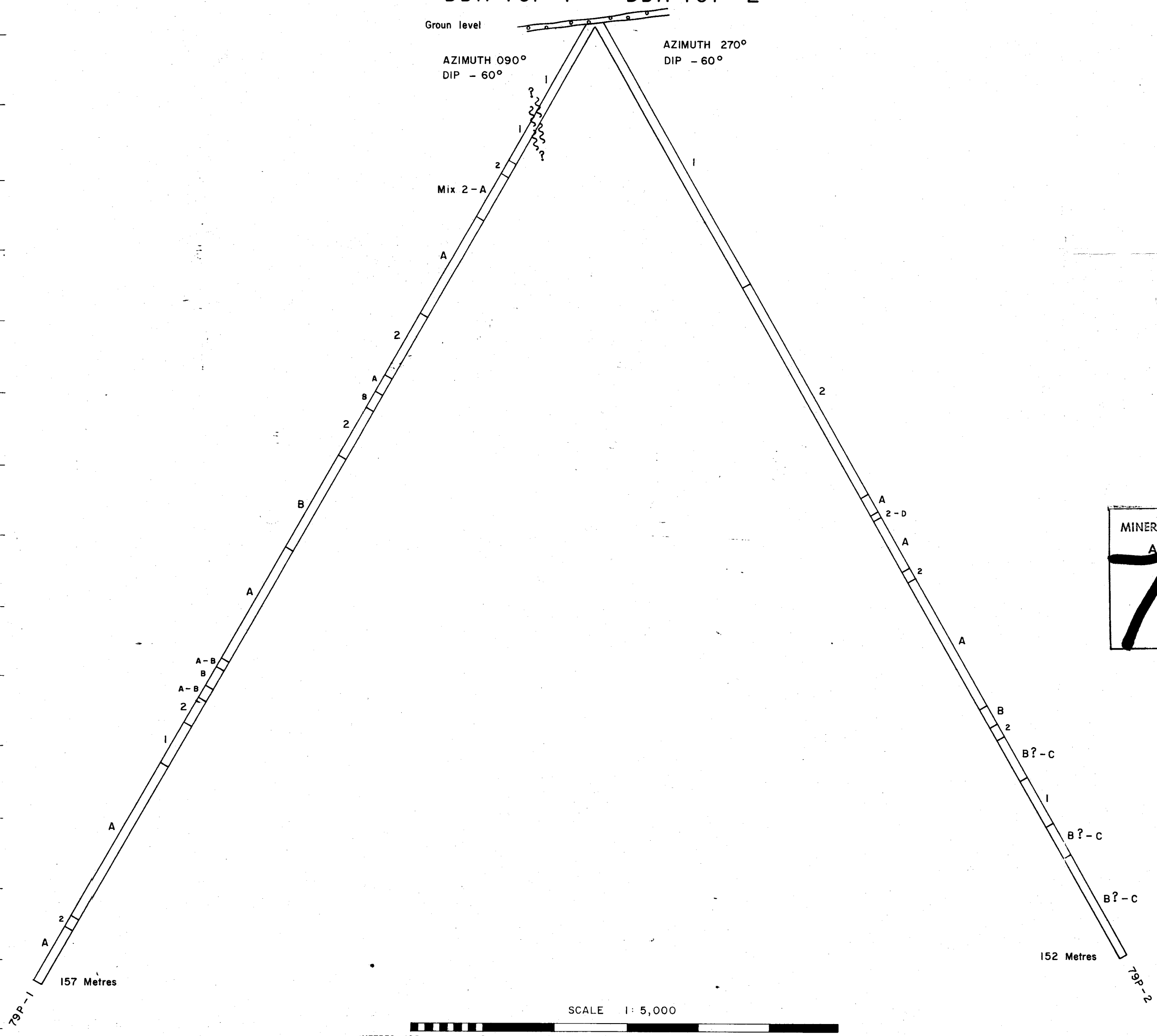
DDH 79P-1 DDH 79P-2

Ground level

AZIMUTH 090°  
DIP - 60°

AZIMUTH 270°  
DIP - 60°

Mix 2-A



LEGEND

Pre - Intrusive Rocks

- 1 Grey to sl. pink siliceous hornfels: alt'd acid volc.
- 2 Green andesite hornfels and chloritized andesite

Intrusive Rocks

- D Andesite dykes
- C Fine - to med - gr. grey qtz. monz. qtz. dior.
- B Med - gr. grey to pink feldspar porphyry qtz. dior - qtz. monz.
- A Med. to coarse - gr. qtz. monz. - qtz. dior.

- ~ Fault zone
- Geological contact

MINERAL RESOURCES BRANCH  
ASSOCIATED REPORT  
**7993**

*E.R. Kruckowski*

E & B EXPLORATIONS INC.

PITMAN PROJECT  
GEOLOGICAL SECTION SHOWING  
DDH 79P-1 and 79P-2

TO ACCOMPANY REPORT BY: E. R. KRUCKOWSKI

C. L. C. DRAFTING VANCOUVER B. C.

Scale: 1:5,000  
Project No. 1010  
N.T.S. 103 I

Date: April, 1980  
Figure No. 5  
Drawn by: C. L. Cory