

KEYSTONE JOINT VENTURE

ASSESSMENT REPORT - 1979 FIELD WORK

GEOLOGY OF DRILL HOLES W-79-1, W-79-2, W-78-1

COQUIHALLA AREA, B.C.

NICOLA MINING DIVISION

149°41N, 121°01W

NTS 92H/11E

DRILL DATES: May 30 - NOVEMBER 30, 1979

by

L. W. SALEKEN, B.Sc.
Project Geologist

for

KEYSTONE JOINT VENTURE
Western Mines Limited
Amex Minerals Exploration

FEBRUARY 1980

7771

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SUMMARY AND RECOMMENDATIONS

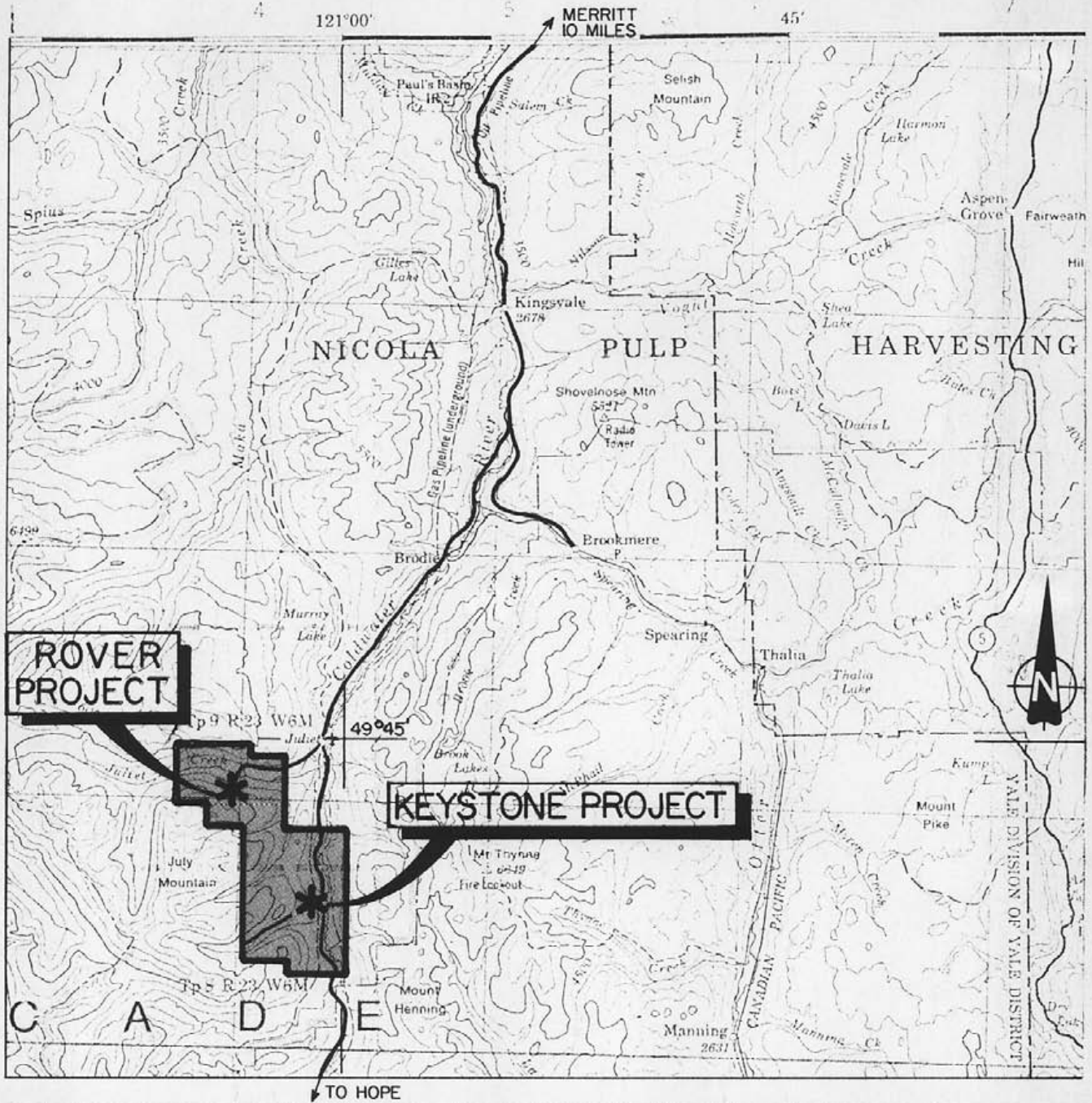
The Keystone prospect is located in the Nicola Mining Division [92H/11E] approximately 64 km southwest of Merritt, B.C. The property consists of ten claims [77 units]. The registered owner of the claims is Western Mines Limited, Vancouver, B.C.

In 1979, three drill holes were drilled to total 2,670 metres. Molybdenite mineralization was encountered in hole W-79-1. Molybdenite occurs within Keystone quartz diorite associated with quartz-pyrite-sericite-K-feldspar stockwork. The other two holes [W-79-2, W-78-1 Extension] did not intersect molybdenite mineralization.

The 1979 results were encouraging and additional work for 1980 is recommended.

Respectfully submitted,

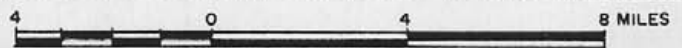

L.W. Saleken
Project Geologist
February 29, 1980



WESTERN MINES LIMITED

LOCATION MAP

ROVER - KEYSTONE JOINT VENTURE



SCALE 1:250,000

DRAWN BY: L. W. S.

DATE: JAN. 1, 1979

FIGURE 1

INTRODUCTION

The 1979 exploration program on the Keystone property was carried out in two stages; from May 24 to June 21, 1979 and from September 7 to November 15, 1979. Two new holes were drilled [W-79-1, W-79-2] and hole W-78-1 was deepened accounting for 2,670 metres [9,060 feet] of drilling. Directional drilling in W-79-1 using a HQ Dyna drill directional tool was attempted at metre 853 but without success. The holes were surveyed at specific intervals using a Sperry-Sun single shot instrumentation. All holes are cased and cased to bedrock. The core recovery from all the holes was excellent. Select core samples from W-79-1 were assayed for Mo and Cu. The core is presently stored at Western Mines warehouse in Vancouver.

During the fall, a down-hole I.P. survey was conducted in holes W-78-1 and W-79-1 under the supervision of Larry LeBel, Geophysicist, Amex Minerals Exploration. The results of the survey are pending.

The 1979 field work was supervised by L.W. Salcken, Project Geologist, and assisted by B. Downing, T. Bollinger and D. Cross, Western Mines Limited on behalf of the Keystone Joint Venture. The diamond drilling was contracted to B.W. Coates Enterprises Ltd., Vancouver. Cat work was arranged through local logging companies that are based in Merritt, B.C. The core was assayed by Min-En Laboratories, Vancouver.

The following report discusses the 1979 drill results. Drill logs and Cu-Mo assay results are included in the report.

For assessment purposes, the 1979 expenditure is subdivided into monies spent: May 24 to June 21, 1979 and September 27 to November 30, 1979. The spring expenditure [\$107,540] has been submitted for 1979 credits [Mining receipt No. 130936, July 16, 1979]. The fall expenditure [\$212,890] is submitted for 1980 credits and will be applied prior to September 26, 1980 upon regrouping.

PROPERTY LOCATION, ACCESS AND PHYSIOGRAPHY

The Keystone property is located 64 kilometres southwest of Merritt, in the Nicola Mining Division [92H/11E]. The claims are situated 6 kilometres north of the Coquihalla Lakes along the west side of the Coldwater River at an elevation of 1,060 to 1,670 metres A.S.L.

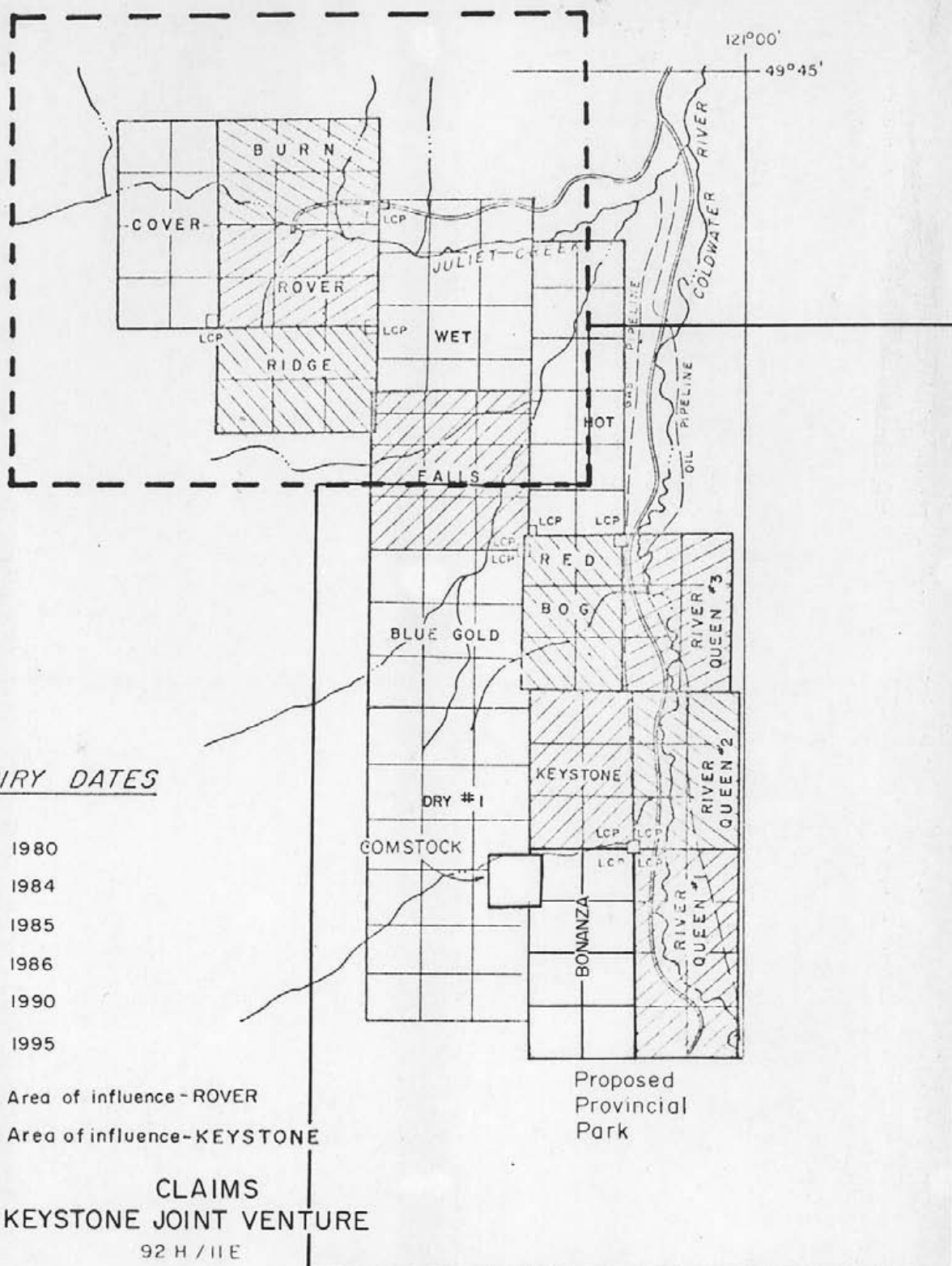
Access to the property is either from Hope [53 kilometres], or from Merritt by good gravel road. The main access is from Merritt. Road suitable for all wheel driven vehicles provides access to various parts of the claims. A railroad [C.P.R. - Kettle Valley Line] is situated 15 kilometres to the north. The claims are crossed by Trans Canada and West Coast Transmission oil and gas pipelines. An emergency airstrip is close-by.

The claims are heavily timbered with fir, spruce, pine and cedar with the timber rights held by Nicola Valley sawmills [Balco Industries]. Parts of the claims are being actively logged. Water in ample supply for drilling and future mining and milling requirements is available throughout the year from Juliet Creek and its tributaries, Mine Creek and Coldwater River. Relief on the property is moderate but extreme along the creeks and bluffs to nil in timbered and valley-fill areas. The network of old and new logging roads on the claims has unearthed additional rock.

CLAIM STATUS

The Keystone Joint Venture holdings consist of 10 claims totalling 77 units. The registered owner of the claims is Western Mines Limited, Vancouver, B.C. The holdings have been reduced by 2 claims, totalling 18 units. The Michale [2 units] and Bonanza Lode [8 units] were abandoned and restaked as the Bonanza [8 units]. The restaking eliminated a potential fraction along the Keystone-Bonanza Lode boundary. The Pipe #1 claim was disallowed by the mining recorder due to establishment of a mineral reserve for the proposed Coquihalla area.

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Expiry Date</u>
Keystone	6	341	September 26, 1977	1990
Comstock	1	339	September 26, 1977	1985
Bonanza	8	734	October 3, 1979	1990
River Queen #1	6	311	August 5, 1977	1990
River Queen #2	6	312	August 5, 1977	1984
River Queen #3	6	313	August 5, 1977	1984
Dry #1	18	487	July 26, 1978	1985
Blue Gold	9	337	September 26, 1977	1986
Red Dog	6	310	August 5, 1977	1984
Falls	9	338	September 26, 1977	1986
TOTAL	<u>77</u>			



EXPIRY DATES

	1980
	1984
	1985
	1986
	1990
	1995

- Area of influence - ROVER
- Area of influence - KEYSTONE

CLAIMS
KEYSTONE JOINT VENTURE
92 H / 11 E



FIGURE 2
L.W.S. FEBRUARY/80

DRELL HOLE GEOLOGYDDH W-79-1Introduction

Hole W-79-1 is located 200 metres due east from baseline S+GBN and 500 metres northeast of hole W-78-1. The hole was drilled to a depth of 1,358 metres [4,454 feet]. The horizontal displacement of hole was 161.7 metres [493 feet] in the direction of $S 23^{\circ} W$. During the course of drilling, no technical difficulties were encountered with recoveries near 100% and with an average penetration rate of 22.3 metres per shift [12 hours].

Drill Log Summary

0 - 18 m.	:	Overburden
18 - 492 m.	:	BRECCIA COMPLEX
18 - 305	:	Pebble breccia, Eagle breccia and brecciated Eagle granodiorite.
210 - 295	:	Brecciated felsite dykes.
305 - 492	:	Keystone quartz diorite breccia with pyrite stockwork.
492 - 1357 m.	:	KEYSTONE QUARTZ DIORITE with quartz-pyrite stockwork
518	:	First molybdenite
810	:	Start of fracture K-spar
1000	:	100 ppm Mo
1015	:	Secondary Biotite replacement
1025	:	Rhyolite Zone
1040	:	400 ppm Mo
1357 m.	:	END OF HOLE

Alteration

The Breccia Complex is strongly argillized [white sericite, clay, carbonates, oxides] with disseminated pyrite.

The section has undergone diagenesis* as in W-78-1 whereby carbonates and oxides of Fe, Pb, Zn, Mn have formed as a post-breccia event.

The quartz diorite section consisting of stockwork sericite-quartz-pyrite-anhydrite has undergone a mild pervasive alteration. The feldspars and mafics exhibit moderate to weak green sericite [± calcite] replacement. From 818 metres, K-feldspar becomes a prominent stockwork component and intensifies with depth. Secondary biotite appears at 1,015 metres. An increase of bulk silica in the stockwork system occurs with the appearance of rhyolite feldspar porphyries first starting at 1,026 metres. The best Mo values in the hole are coincidental with the rhyolite dykes.

- * Diagenesis; implies change, facilitated by pressure, temperature and groundwater circulation, from one form to another by internal processes after breccia deposition.

Molybdenite Mineralization

Molybdenite mineralization is stockwork controlled and is best developed in the rhyolite dyke zone. Molybdenite point was first noted at 518 metres [1,699 feet] and persisted with increasing frequency to the end of the hole. Fracture pattern ranges from 010° to 060° [to core axis] with two dominating sets. Steeper fractures, 010° - 020° , [dipping $70-80^{\circ}$] generally offset the shallower fractures, 030° - 040° [dipping 050° - 060°]. Most common fracture set is the 030° - 040° . Within the rhyolite zone, the average quartz-molybdenite vein is 18 mm wide but several 150 mm veins were encountered. Average Mo vein density is 1 per 2 metres. Section from 1038 to 1358 metres [308 metres] averaged 0.044% Mo with several 3 metre sections assaying 0.100 to 0.133% Mo.

The molybdenite is accompanied by quartz, pyrite, K-feldspar, flacky sericite [muscovite] and anhydrite. The molybdenite is characteristically fine grained with a ribbon appearance within the quartz veins. Minor disseminated molybdenite occurs with the rhyolite dykes. Pyrite has a close affinity to molybdenite and averages 1.5 - 2.6%. Fluorine is associated with the molybdenite geochemically but fluorine-bearing minerals were not recognized. Chalcopyrite is neither associated with molybdenite nor with the stockwork system. Sphalerite, galena and chalcopyrite vein mineralization is a post-Breccia Complex event.

Rhyolite Feldspar Porphyry

Rhyolite was first encountered in W-79-1 although occasional fragments of this rock occur in the Pebble breccia. Several dykes ranging in width from 8 cm to 21 metres make up the rhyolite zone [1026-1358 m]. Attitude of the dykes varies: some, 070-080°; one, 090°; another 035° [to core axis]. Contacts with the Keystone quartz diorite are diversified; some are sharp with chilled margins while others are irregular and gradational. Smaller rhyolite dykes usually accompany breccia zones. Textures noted: porphyritic, massive with feldspar ghosts and fine quartz-eyes and flow banded [1,305 m]. Most common colour is gray-white but grades from pink-white to almost white. The rhyolite is low in pyrite [1% or less] but contains disseminated and fracture molybdenite. A petrographic description of the rhyolite by John Payne is as follows:

Sample taken at 1035.6 m, W-79-1

"	Rock:	Quartz-feldspar Porphyritic Rhyolite
	Veins:	Calcite, quartz, anhydrite, opaque, sericite
	Alteration:	Plagioclase replaced by K-feldspar, by anhydrite, calcite biotite altered to muscovite patches of calcite, anhydrite, quartz, opaque

Phenocrysts:

plagioclase	10-12%
quartz	5-7
biotite	minor
Ti-oxide	minor

Groundmass:

quartz, feldspars "

Plagioclase phenocrysts are from 0.5 to 1 mm in size, with a few up to 3 mm. They occur individually or in clusters of up to six. About half the phenocrysts are completely or mostly replaced by K-feldspar; replacement is selective, because in a cluster, some phenocrysts are unaffected while others are completely replaced. A few K-feldspars contain relic patches of plagioclase, and one contains what might be a ragged perthitic intergrowth of plagioclase.

Quartz forms phenocrysts ranging from 0.3 to 4 mm in size. Larger ones are irregular in outline, commonly with resorbed borders; a few small phenocrysts are nearly circular in outline.

Biotite forms two laths, 1 mm long and 0.15 mm long; they are completely altered to muscovite, the coarser one also containing abundant Ti-oxide.

Ti-oxide forms a few patches of fine grained aggregates from 0.15 to 0.6 mm across. The coarse patch is surrounded by fine grained calcite.

The groundmass is a uniform, fine grained [0.005 - 0.015 mm] aggregate of feldspars and quartz, with dusty opaque and semi-opaque alteration or interstitial grains. Composition is probably near the minimum melting composition of the granite system.

The rock contains veins and alteration patches composed of various combinations of calcite, anhydrite, quartz, sericite, and opaque. Alteration is common borders of phenocrysts and clusters of phenocrysts, with calcite and anhydrite the main alteration minerals. Quartz and opaque are mainly restricted to small alteration patches of grain size 0.05 - 0.2 mm; these patches also contain abundant calcite and anhydrite. Anhydrite is abundant in patches in feldspars, being more common with K-feldspar than with plagioclase. Calcite occurs in patches in both feldspars. "

DDH W-79-2

Introduction

Hole W-79-2 is located 350 metres northeast of W-79-1 at B+000, 3+25E. The hole was drilled to a depth of 919 metres [3,014 feet]. The horizontal displacement of hole was 13.05 metres in the direction of S 70°27' W. Core recovery was near 100% and no serious drilling difficulties occurred, although the rock is comparatively harder. With an average penetration rate of 19.2 metres per shift [12 hours], the hole took 24 days to drill.

Drill Log Summary

0 - 12.5 m	: Overburden
12.5 - 918.6 m	: KEYSTONE QUARTZ DIORITE: propylitic alteration with specularite. Alteration intensity weak to unaltered, sporadic sphalerite-pyrite veining.
59.4 - 77.1	: Pebble breccia dyke
125.9 - 148.7	: Dacite Porphyry dykes
517.9 - 519.4	: Dacite Porphyry
918.6 m	: END OF HOLE

Mineralization and Alteration

Neither significant molybdenite mineralization nor quartz-pyrite stockwork were encountered in the Keystone quartz diorite. The rock is essentially unaltered except for fracture chlorite-epidote-sperularite-carbonate-gypsum on fractures. Several sections contain magnetite veins. Sphalerite-pyrite \pm chalcopyrite, galena veining is sporadic. The hole is outside the influence of the Keystone stockwork.

BH W-78-1 Extension

Introduction

W-78-1 was extended to a depth of 1,337.8 metres [4,389 feet] from the 864 metre level. The overall horizontal displacement of hole was 139.4 metres in the direction of W 10° W. Caving and loss of water circulation were a problem. Sanding occurred at 1,251.5 metres causing drilling difficulties. Core recoveries were nearly 100% with an average penetration rate of 21.5 metres per shift [12 hours]. It took eleven days to complete the hole.

Drill Log Summary

0 - 42.7 m	:	Overburden
42.7 - 1337.8 m	:	PEBBLE BRECCIA: white to grey, indurated, poorly sorted igneous breccia. Matrix strongly argillized; variable intensity of pervasive alteration of fragments; disseminated pyrite 1-2%, sphalerite-pyrite [\pm galena, chalcopyrite] veining to 1,173.5 metres, veins from 030° - 070° [to core axis].

Alteration and Mineralization

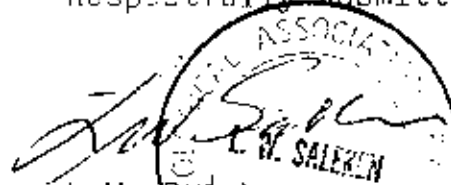
The alteration and mineralization is post-Breccia Complex and not important to the stockwork system. Fragments within the Pebble breccia were variably altered prior to

brecciation. Sphalerite-pyrite veins cut the Pebble breccia. Fragments of sphalerite that are noted in the core may represent remobilized sphalerite during diagenesis or remnants of pre-breccia mineralization. Sphalerite veins do not continue below 1,124 metres in the hole.

CONCLUSIONS AND RECOMMENDATIONS

The results of the 1979 drilling were encouraging enough to warrant further work. As molybdenite mineralization in quartz-pyrite-sericite-K-feldspar stockwork occurring in Keystone quartz diorite was encountered, additional drilling in the vicinity of W-79-1 is recommended. The holes should be to a depth of 1,220 metres.

Respectfully submitted,


 L.W. SALEKEN
 Project Geologist
 February 29, 1980
 PROJECT GEOL. ASSOCIATES
 2220 W. 100th St.
 Edmonton, Alberta T6E 2E2

APPENDIX 1 - STATEMENT OF COSTS

CLAIM: KEYSTONE
SUMMARY OF WORK: Drilling and Supervision
WORK PERIOD: Compilation: October 1, 1978 to July 1, 1979
Supervision [on site]: May 1 - July 1, 1979
Drilling: May 24 to June 21, 1979

DRILLING:

D.W. Coates Enterprises Ltd.

1,070 metres, NQ-BQ core @ 81.31/metre \$ 87,000

Site Personnel	9,650
Senior Supervision	1,900
Maps and Reports	2,000
Transportation	2,680
Room and Board	2,500
Shipping and Freight	590
Assay; Mo-Cu, 31 samples @ \$13.50	480
Administration	800
	<hr/>
	\$107,540
	<hr/>

APPENDIX II - STATEMENT OF COSTS

CLAIM: KEYSTONE
SUMMARY OF WORK: Drilling and Supervision
WORK PERIOD: September 27 to November 30, 1979

DRILLING:

D. W. Costes Enterprises Ltd.

1,600 metres, NQ-BQ core @ 117.54/metre \$180,000

Site Personnel	11,000
Senior Supervision	3,000
Maps and Reports	4,000
Transportation	5,300
Room and Board	5,000
Shipping and Freight	600
Assay: 60, 92 samples @ \$7.50	690
Administration	800
Line Cutting	3,500
	<hr/>
	\$213,890
	<hr/>

CERTIFICATE OF QUALIFICATIONS

I, Leonard W. Salcken, B.Sc., Geology, of 6976 Laburnum Street, Vancouver, B.C., V6P 5M9, state as follows:

- 1] That I graduated from the University of British Columbia in 1968 with a Bachelor of Science Degree in Geology.
- 2] That I have prospected and actively pursued geology prior to my graduation and have practiced my profession since 1963.

Present - 1976 Project Geologist
Western Mines Limited

1976 - 1973 Senior Geologist
Brascan Resources Limited

1973 - 1969 Consultant
Geotec Consultants Ltd.

1969 - 1968 Project Geologist
Denison Mines Ltd.

- 3] That I am a member of the Canadian Institute of Mining and Metallurgy and the Geological Association of Canada [Fellow].

- 4] That I am presently employed as a Project Geologist with Western Mines Limited, 1133 Three Bentall Centre, 595 Burrard Street, Vancouver, B.C., V7X 1C4

DATED at Vancouver, British Columbia, this
day of , 19 .



WESTERN MINES LIMITED

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HOLE NO W-79-1

PROPERTY: Keystone Joint Venture	N.T.S.	LAT: 49°40'	LOGGED BY: L. W. Saleken	DATE: May/Oct. '79	COLLARED: June 1, 1979
PROJECT NO: 92H/11E	DEP: 121°00'		SURVEYED BY: L. W. Saleken	DATE: May/Oct. '79	COMPLETED: Sept. 25, 1979

COLLAR: CHAINED <input checked="" type="checkbox"/> SURVEYED <input type="checkbox"/> ESTIMATED <input type="checkbox"/>			CASING: N	CORE SIZE	DEPTH	HOLE CHARACTERISTICS		
GROUND	DRILL DECK	TOP OF CASING	LEFT IN HOLE YES <input checked="" type="checkbox"/>	NO casing	0	18.3	LOST	WATER
LENGTH			NO	N2	18.3	457	CAVING	CIRCULATION
ELEVATION	1140(m)	1140(m)		BD	457	1358	Nil	Return
HOLE COORD			0-18.3					

HOLE SURVEY (feet)								
DEPTH	COLLAR	1500	2000	2507	2800	3000	3100	3300
TOP	00	02	06	10	10	11	12	
MAG BEARING	N22E	N25E	S45E	S30E	S20E	S25E	S10E	S05E
GRD BEARING	0							
TRUE BEARING	00	N47E	S23E	S08E	S02W	S03E	S12W	S17W
INSTRUMENT	Sperry-Sun Single Shot							

OBJECTIVE / COMMENTS: W-79-1 DRILL HOLE SUMMARY

Hole Geology:	0-18.3 (m)	Overburden								
	18.3-492	Breccia Complex								
		183-305 Pebble Breccia, Eagle Breccia, Brecciated Eagle n.d.								
		305-492 Keystone Quartz Diorite breccia								
	492-1358	Keystone Stockwork Quartz Diorite								
		1026-1358 Rhyolite Zone								
	1358	E D H								
Alteration	183-492	Pervasive sericite-clay-pyrite (+ carbonate), strong argillic								
	492-1358	Fracture sericite-quartz-pyrite (+ chlorite-epidote) with patchy pervasive green sericite to unaltered								
		818-1358 k-spar with stockworks								
		1026-1358 increased silica due to Rhyolite dykes								
Mineralization	0-1358	Post-breccia sphalerite-pyrite (+ galena, chalcopyrite, rhodochrosite) veins								
	518-1358	Pre-breccia molybdenite-pyrite-quartz (- anhydrite) veins								
Rock Geochemistry	Mo (ppm)	Fe (%)	Cu	Pb	Zn	Mn	F	W	Ag	
W-79-1: Background:	4	45	1.5	10	50	125	800	700	5	0.9
Threshold:	10	100	2.0	30	60	250	1700	1100	12	3.7
Three-hole: Background	5		1.4	16	22	151	1013	530	4	0.9
Average Threshold	11		1.9	40	81	307	1700	793	8	1.8

DRILL SAMPLE RECORD

GRANITE
 METAMORPHIC
 SEDIMENT
 GCHYST
 Breccia

Hole No. W-79-1 Page No. 1/12
 Property Keystone J.V. Length 3531 feet (1070 metres) 49°41' 121°01'
 District Nicola M.D. Bearing 00 Dip 92H/11E
 Commenced May 30/79 D-p verticle Elev. 1140 metres
 Completed June 19/79

Drill Type Longyear 44
 Hole Size 80/80
 Contractor D.W. Coates Enterprises Ltd. Logged by L.W. Saleken
 Approved by _____ Date _____

N.B.: All dip angles from core axis

SAMPLE NO.	FOOTAGE (metre)		SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS										ROCK DESCRIPTION AND NOTES	DEPTH LOG	
	Feet	Metre			Mo	Cu	Pb	Zn	Ag	P	W	Mn	Fe	FOOTAGE		DEPTH	
W-79-1	0	60	60												Overburden: glacial outwash. Foliated		
	60	148	88	100											Eagle Granodiorite (EOD) with sericite		
60-90	(18)	(44)	30	100	2	24	11	92	0.9	305	3				alteration bands and K-spar flooding (weak)		
90-120			30	100	2	25	18	89	1.0	280	4				114' (050°) veinlet sphalerite-galena		
120-148			28		4	20	27	114	1.0	405	4				118.5' (040°) " " "		
															126.5-127' fault breccia		
															135-148' strong sericite-clay alteration		
															142' (020°) veinlet, quartz-sphalerite-galena.		
	148	175	27	100											Pebble Breccia (Pbx). Dyke contact gradational;		
	(45)	(53)													Mo fragments and quartz breccia fragments		
148-158			10	100	11	26	41	185	2.9	420	3				noted.		
158-168			10		37	17	52	380	2.8	340	5				Obx 2-3%)		
168-175			7		19	39	220	180	2.4	380	8				K-spar 5%) Py 1%) Mo <1%)	Fragments	

DRILL SAMPLE RECORD

GRANITE			
VOLCANIC			
SEDIMENT			
SCHIST			

Hole No. _____ Page No. 2/12

Property _____ Length _____ Lat. _____ Drill Type _____
 District _____ Bearing _____ Dip _____ Hole Size _____
 Commenced _____ Dip _____ Elev. _____ Contractor _____ Logged by _____
 Completed _____ Approved by _____ Date _____

SAMPLE No.	FOOTAGE		SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS										ROCK DESCRIPTION AND NOTES	CHEMIC LOG		
	FROM	TO			Mo	Cu	Pb	Zn	Ag	P	W	Mn	Fe	Footage		Rock Type		
W79-1	175	215	40	100												EQD; strong sericite-clay alteration with		
175-205	(53)	(65)	30		2	19	27	130	1.0	305	3					minor k-spar floods,		
205-215			10		4	21	26	150	1.3	305	2							
	215	376	160	100												Pbx and Ebx at break-up stage, argillic		
	(65)	(114)														alteration,		
215-245			30		4	25	66	130	7.8	335	4					Py 1%		
245-275			30		2	11	20	72	2.6	340	5					343' (070°) 5 mm on quartz-sphalerite-		
275-305			30		4	20	30	106	2.4	410	6					galena.		
305-335			30		4	17	25	90	1.8	335	5					357' (040°) vein Anhydrite.		
335-365			30		12	21	130	300	2.0	495	7					Pbx, fine grained <1 cm fragments, strong		
	376	439	63	100												argillic alteration		
	(114)	(133)														390' (040°) vein sphalerite-galena		
365-395			30		10	14	160	390	2.2	575	4					396' (060°) " " "		
395-426			30		21	21	190	540	3.4	510	3					399' (050°) " " "		
426-436			10		16	280	500	1360	3.0	400	5					427' (060°) " " "		
																432,437,439' No fragments noted.		
	439	587.5	148.5	100												Pbx, coarse grained (2-5 cm fragments).		
436-446	(133)	(178)	10		10	43	47	170	2.3	410	3							
446-456			10		9	11	45	180	1.0	390	6							

DRILL SAMPLE RECORD

GRANITE			
VOLCANIC			
SEGMENT			
SHEET			

Note No. _____ Page No. 3/12

Property _____ Length _____ Lat _____ Drill Type _____
 District _____ Bearing _____ Dip _____ Hole Size _____
 Commenced _____ Dip _____ Elev. _____ Contractor _____ Logged by _____
 Completed _____ Approved by _____ Date _____

SAMPLE No.	FOOTAGE		SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS										ROCK DESCRIPTION AND NOTES	GRAPHIC LOG		
	FROM	TO			Mo	Cu	Pb	Zn	Ag	F	W	Mn	Fe	FOOTAGE		% RECOVERY		
	439	587.5	48.5	100														
456-466	(133)	(178)	10		12	30	96	390	1.7	395	25				Pbx con't.			
466-496			30		10	15	38	280	1.5	385	5				449' (070°) vein sphalerite-galena-quartz			
496-526			30		14	24	60	186	1.8	385	9				456-459' grey sulphide?			
526-556			30		12	20	40	290	1.6	395	5				494' aplite fragments disseminated Py			
															496' vein galena-sphalerite			
															511' Mo fragments			
															558' (060°) vein galena-sphalerite			
															560-565' brecciated felsite dyke (?) or dyke fragment, fracture Py, sericite alteration.			
															567.5' (030°) 5 mm sphalerite vein.			
	687.5	594	6.5	100											EGD, strong argillic alteration.			
556-594	(178)	(180)	38		6	65	430	280	2.4	485	3				Possible large fragment.			
	594	605.5	11.5	100														
	(180)	(184)													Pbx with quartz fragments.			
594-605.5			11.5		23	340	1000	890	5.0	460	11				594'-596.5' Barren quartz vein fragments			
															597' (080°) vein galena-sphalerite-cov			
															601' (080°) 5 cm sphalerite-galena vein			

DRILL SAMPLE RECORD

GRANITE			
VOLCANIC			
SEDIMENT			
SCHIST			

Hole No. _____ Page No. 4/12

Property _____	Length _____	Lat. _____	Drill Type _____
District _____	Bearing _____	Dip _____	Hole Size _____
Commenced _____	Dip _____	Elev. _____	Contractor _____
Completed _____			Logged by _____
			Approved by _____ Date _____

SAMPLE NO	ELEVATION		SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS								ROCK DESCRIPTION AND NOTES	GRAPHIC LOG		
	FROM	TO			Mo	Cu	Pb	Zn	Ag	P	W	Mn		Fe	FOOTAGE	ROCK TYPE
605.5-630	605.5 (184)	669.5 (203)	64 24.5	100										EGD; buff with argillic alteration and chlorite clots.		
630-660			30		8	22	49	140	2.0	370	4			610-5' (080°) vein sphalerite-cpy 618' (030°) " "		
					10	14	24	128	1.6	415	4			618-620' Pbx dyke 646-648.5' Pbx dyke 654' (080°) quartz-py vein		
660-687.5	669.5 (203)	682 (207)	12.5 27.5	100										Pbx with galena-sphalerite-cpy vein (quartz) 3' apart.		
	682 (207)	687.5 (208)	5.5	100										EGD, strong argillic alteration contact with Pbx @ 020°		
687.5-695.5	687.5 (208)	695.5 (211)	8.0 8	100										Banded felsite dyke crackled with disseminated pyrite and quartz associated pyrite; fine grained steel-grey sulphide (sulphosalt?) pyrite content 5-7%, 687.5', quartz-Mo vein cut by galena-sphalerite vein.		

DRILL SAMPLE RECORD

GRANITE			
VOLCANIC			
SED. MENTS			
SCHIST			

Hole No. _____ Page No. 5/12

Property _____	Length _____	Lat. _____	Drill Type _____
District _____	Bearing _____	Dip _____	Hole Size _____
Commenced _____	Dip _____	Elev. _____	Contractor _____
Completed _____			Logged by _____
			Approved by _____ Date _____

SAMPLE No	FOOTAGE		SAMPLE LENGTH	No. Recovery	SULPHIDE ANALYSIS										ROCK DESCRIPTION AND NOTES	GRAPHIC LOG		
	FROM	TO			Mo	Cu	Pb	Zn	Ag	F	W	Mn	Fe	FOOTAGE		ROCK TYPE		
	695.5	720	24.5	100														
695.5-720	(211)	(218)	24.5		6	48	380	710	2.0	500	6				EGD			
															665' fault gouge 15 cm wide with py.			
															701' fault gouge			
															705.5' (030°) galena-sphalerite vein			
															718.5' (080°) galena-sphalerite-cpy vein			
	720	785.5	65.5	100											Dyke Swarm, felsite dykes cutting EGD, cut by			
720-736	(218)	(238)	16		6	37	28	168	1.5	635	4				galena-sphalerite veins			
															720'-728' Felsite dyke banded, brecciated,			
															no pyrite contact @ 720' (040°)			
															727.5' (070°), 3 mm galena-sphalerite-cpy			
															vein.			
															728-736', EGD strong argillic alteration			
															729.5 (070°), 5 mm galena-sphalerite-cpy			
															vein.			
736-744			8		182	52	270	1170	2.3	595	9				736-745.5' Felsite dyke, banded,			
															brecciated with quartz-pyrite-sulphosalt?			
															pyrite 5-10%, sulphides as crackle filling			
															cut by galena-sphalerite-cpy vein (060°)			

DRILL SAMPLE RECORD

GRANITE			
VOLCANIC			
SEDIMENT			
SCHIST			

Hole No. _____ Page No. 6/12

Property _____	Length _____	Lat. _____	Drill Type _____	
District _____	Bearing _____	Dip _____	Hole Size _____	
Commenced _____	Dip _____	Elev. _____	Contractor _____	Logged by _____
Completed _____				Approved by _____ Date _____

SAMPLE NO.	FOOTAGE		SAMPLE LENGTH	% RECOVERED	SULPHIDE ANALYSIS										ROCK DESCRIPTION AND NOTES	GRAPHIC LOG	
	FROM	TO			Mo	Cu	Pb	Zn	Ag	P	W	Mn	Fe	FOOTAGE		ROCK TYPE	
744-763	720	785.5	65.5	100											74.5-746.5' Ebx and felsite dyke fragments (rotated).		
	(221)	(238)	19		40	65	35	193	1.4	555	5						
763-773			10		102	61	1200	800	3.7	465	13				746.5-785.5' mixed breccia zone of EGD & felsite dyke fragments; felsite dyke fragments variable (pyrite and barren), grey sulphosalt present; cut by galena-sphalerite-cpy veins.		
773-786			13		58	29	86	860	1.8	635	8						
786-796	785.5	831	45.5	100											Pbx with grey matrix, coarse fragments (2-5 cm) cut by galena-sphalerite veins ranging from 080° - 040°.		
	(238)	(252)	10		26	50	760	580	2.0	580	9						
796-831			35		54	39	1240	670	3.8	480	7						
831-861	831	882	51	100											EGD, strong argillic alteration with brecciation pyrite <1%.		
	(252)	(267)															
861-882			21		4	19	60	166	1.2	360	4				832' (070°) galena-sphalerite-cpy vein (2 mm)		
					3	32	30	96	1.5	325	2				835' (070°) galena-sphalerite-cpy vein (5 mm)		
															845' (060°) " " " " (2 mm)		
															874' (060°) " " " " (2 mm)		

DRILL SAMPLE RECORD

GRANITE _____
 VOLCANIC _____
 SEDIMENT _____
 SCHIST _____

Ho's No. _____ Page No. 7/12

Property _____ Length _____ Lat. _____ Drill Type _____
 District _____ Bearing _____ Dip _____ Hole Size _____
 Commenced _____ Dip _____ Elev. _____ Contractor _____ Logged by _____
 Completed _____ Approved by _____ Date _____

SAMPLE No.	CONTACT		SAMPLE LENGTH	% Recovery	ELEMENT ANALYSIS								ROCK DESCRIPTION AND NOTES	GRAPHIC LOG			
	FROM	TO			Mo	Cu	Pb	Zn	Ag	F	W	Mn		Fe	CONTACT	ROCK TYPE	
	882	888	6	100													
882-888	(267)	(269)			138	5	38	162	2.5	490	8			Pbx dyke with Mo fragments. Copper contact @ 050°.			
	888	979	101	100													
888-918	(269)	(297)	30		2	31	52	112	0.7	360	2			EGD; strong argillic alteration; minor brecciation going to Ebx sections; cut by			
918-948.5			30.5		3	10	66	70	0.9	435	3			galena-sphalerite veins and felsite dykes.			
														900-901' buff fine-grained dyke (sericite) contact @ 040°			
948.5-954			5.5		5	90	300	5700	3.0	450	5			948.5-954' siliceous grey felsite dyke, brecciated contacts @ 080°, sulphosalt.			
954-956			2		4	13	43	320	1.6	495	5			954-956' buff felsite dyke, brecciated with			
956-957			1		4	14	25	160	0.9	420	4			disseminated py and sulphosalt (2%) contact @ 030°.			
957-959			2		5	17	86	300	1.4	495	3			957-958' buff felsite dyke with disseminated			
959-977			18		2	17	160	480	1.4	475	4			pyrite (3%) contact @ 080°.			
														963-963.5' buff felsite dyke.			

DRILL SAMPLE RECORD

GRANITE			
VOLCANIC			
SEDIMENT			
SCHIST			

Hole No. _____ Page No. 8/12
 Property _____ Length _____
 District _____ Bearing _____
 Commenced _____ Dip _____
 Completed _____

Lat. _____ Drill Type _____
 Dip _____ Hole Size _____
 Elev. _____ Contractor _____

Logged by _____
 Approved by _____ Date _____

SAMPLE No.	ELEVATION		SAMPLE LENGTH	% Recovery	SULPHIDE ANALYSIS										ROCK DESCRIPTION AND NOTES	DIAGRAM LOG	
	FROM	TO			Mo	Cu	Pb	Zn	Ag	P	W	Mn	Fe	ELEVATION		ROCK TYPE	
	979	1006.5	27.5	100													
977-980.5	(297)	(305)	3.5		2	25	440	1180	2.5	480	2				Eagle Breccia (Ebx), strong argillic alteration.		
980.5-983			2.5		4	81	510	4500	4.7	655	3				py 10-15%, with stockworks by fractures and massive pyrite veins.		
983-993			10		10	55	410	3500	3.4	495	2				sulphosalts.		
993-1000			7		8	67	600	2800	9.3	610	3				978-978.5' grey siliceous felsite dyke		
1000-1006.5			6.5		21	105	56	4400	2.0	715	6				980' (050°) galena-sphalerite		
															980.5-983' grey, siliceous felsite dyke		
															disseminated sulphosalt 3-5%		
															991.5 (050°) galena-sphalerite vein (2 mm)		
															993.5 (050°) galena-sphalerite vein (5 mm)		
															996' quartz-pyrite (2 cm)		
															1006-1006.5' foliated contact @ 050° with KQD breccia.		
	1006.5	1624.5	518	100											Keystone Quartz Diorite Breccia (KQD breccia),		
1006.5-1016	(305)	(492)	10.5		1	13	22	192	1.0	635	<2				milled to crackle brecciated, generally strong		
1016-1028			12		2	37	110	1500	3.1	685	2				argillic alteration with 5% or less pyrite		
1028-1030.5			2.5		3	250	310	2100	5.6	740	2				content (variable), cut by galena-sphalerite-		
1030.5-1060			30.5		4	4	78	250	1.9	480	2				py veins, quartz-pyrite.		
1060-1376.5			16.5		4	5	29	84	1.0	415	2						

DRILL SAMPLE RECORD

GRANITE			
NO. 2410			
SEGMENT			
56-57			

Hole No. _____ Page No. 9/12

Property _____	Length _____	Lat. _____	Drill Type _____
District _____	Bearing _____	Dip _____	Hole Size _____
Commerced _____	Dip _____	Elev. _____	Contractor _____
Completed _____			Logged by _____
			Approved by _____ Date _____

SAMPLE No	FOOTAGE		SAMPLE LENGTH	# of Recovered	SULPHIDE ANALYSIS										ROCK DESCRIPTION AND NOTES	CHEMICAL LOG	
	FROM	TO			Mo	Cu	Pb	Zn	Ag	P	W	Mn	Fe	FOOTAGE		ROCK TYPE	
	1006.5	1624.5	618	100													
1076.5-1084	(305)	(492)	7.5		3	5	1000	1260	2.1	600		2			Stockworks fragments, KQD varies from medium grained to fine grained.		
1084-1091.5			7.5		2	3	48	152	1.4	610		3					
1091.5-1100			8.5		5	75	110	1300	3.5	640		3					
1100-1110			10		2	460	132	8000	5.1	785		4					
1110-1119			9		7	750	225	7600	17.0	495		5		1006.5-1091.5' KQD strong argillic alteration, weak crackle breccia, pyrite 5%.			
1119-1149			30		2	9	40	490	1.7	460		3					
1149-1165.5			16.5		3	8	42	800	1.6	635		3		1091.5-1119': KQD breccia, pyrite 15%			
1165.5-1172			6.5		1	395	200	14000	18.5	440		2		1119-1165.5': KQD brecciated, pyrite 3-5%			
1172-1180			8		3	550	240	18000	15.0	410		5		1165.5-1180': KQD breccia			
1180-1210			30		2	9	110	640	1.5	430		6		1180-1284': KQD, strong argillic alteration			
1210-1240			30		2	16	66	1100	1.2	480		11		1284-1297': buff felsite dyke, py 10-15%			
1240-1624.5			384.5		FOR GEOCHEM RESULTS ON THIS SECTION, REFER TO GEOCHEMICAL ANALYSIS DATA SHEETS.										1297-1326': KQD, strong argillic alteration		
														1326-1406': KQD breccia with quartz-pyrite			
														stockworks fragments, pyrite 10%			
														1376' - quartz-pyrite vein @ 030° with Mo			
														1406-1446': leucocratic KQD, 5% pyrite			
														1446-1466': KQD breccia			
														1466-1624.5': KQD breccia (leucocratic)			
														pyrite 3-5%.			

DRILL SAMPLE RECORD

GRANITE			
MOLECULAR			
SEDIMENT			
SCHIST			

Hole No. _____ Page No. 10/12
 Property _____ Length _____ Lat. _____ Drill Type _____
 District _____ Bearing _____ Dip _____ Hole Size _____
 Commenced _____ D.p. _____ Elev. _____ Contractor _____ Logged by _____
 Completed _____ Approved by _____ Date _____

SAMPLE NO.	EQUIVALE		SAMPLE LENGTH	% RECOVERED	ELEMENTAL ANALYSIS										ROCK DESCRIPTION AND NOTES	GRAPHIC LOG	
	IPCW	EO			Mo	Cu	Pb	Zn	Ag	P	W	Mn	Fe	FOOTAGE		ROCK TYPE	
	1624.5	3531	1906	5											Stockworks Keystone Quartz Diorite: quartz-pyrite stockworks with molybdenite mineralization (fracturing 040°-050°). Alteration intensity varies from weak to strong fracture and pervasive sericite. Chlorite pyrite (phyllite) to fracture k-spar-secondary diorite alteration starting weak @ 2320' and increased intensity @ 2700'; molybdenite fracture and quartz-pyrite related with best mineralization developed with strong k-spar flooding. Anhydrite replaces molybdenite-quartz-pyrite veins readily; late-stage galena-sphalerite veins cross cut stockworks.		
	(492)	(1070)		100													
1624.5-3531					FOR GEOCHEM RESULTS, REFER TO GEOCHEMICAL ANALYSIS DATA SHEETS FOR DETAILS												
															1624.5-2707': No background 5-7 ppm range.		
															2707-3531': No background 30-40 ppm range, k-spar alteration has increased.		

WESTERN MINES LIMITED

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HOLE NO. W-79-1

FEET/METRES	ROCK TYPE / ALTERATION	GRAPHIC LOC.	MINERALIZATION / STRUCTURE			% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS	
			Mo V	WIDTH	ANGLE					Mo %	Cu ppm
3531	4454										
	KEYSTONE QUARTZ DIORITE (KQD) :										
			3532	2 cm	010			3531			
			3533	2 cm	010						
			3536	2 cm	010						
			3544	2 cm	020			3340	10	.032	8
			3546	3 cm	040						
			3550	3 cm	040			3550	10	.112	6
			3559	1 cm	020						
			3568	3 cm	020			3560	10	.034	4
			3578	5 mm	030			3570	10	.052	6
			3582	ff	020			3580	10	.038	4
			ah 3586	1 cm	050						
			ah 3592	1 cm	050			3590	10	.033	8
			ah 3596	5 mm	030						
			3600	2 cm	040			3600	10	.042	4
			ah 3608	2 cm	020			3610	10	.042	4
			3623	3 cm	010			3620	10	.023	4
			3628	5 mm	010						
			3634	5 mm	010			3630	10	.096	2
			3644	5 mm	010			3640	10	.024	2
			ah 3651	3 cm	010			3650	10	.019	4
			3669	3 cm	010			3660	10	.111	2
			3676	1 cm	010			3670	10	.077	2
			3680	1 cm	040			3680	10	.042	4
			3686	3 cm	040			3690	10	.052	4
			3700	3 cm	010			3700	10	.028	4
			3701	5 mm	040						
			3703	5 mm	040						
			3709	3 cm	030			3710	10	.068	4
		3704-3705:									
		aplite flooding with Mo fractures @ 010°	3710	2 cm	010						
			3715	2 cm	010						
			3722	1 cm	030			3720	10	.036	2
		Mo veins cut by fracture pyrite (chalcopyrite) @ 010°	3725	2 cm	040						
			3727	5 mm	030						
			3729	1 cm	030			3730	10	.046	2
			ah 3733	1 cm	11 axis						
			3736	5 mm	030						
			3739	5 mm	030			3740	10	.035	2

WESTERN MINES LIMITED

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HOLE NO. W-79-1

FEET/METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE			% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS	
			Mo V	WIDTH	ANGLE ^o					Mo %	Cu ppm
	KQD		ah	3749	5 mm	020	3740	10		.035	2
	Magnetite, chlorite, chalcopyrite			3759	2 cm	030	3750	10		.025	4
	Magnetite, chlorite, chalcopyrite			3769	2 cm	030	3760	10		.021	6
	Magnetite, chlorite; vein cut by fracture pyrite			3784	5 mm	040	3770	10		.009	2
			ah	3789	1 cm	010	3780	10		.021	2
				3794	5 mm	050	3790	10		.038	2
				3798	2 cm	020					
	Magnetite			3800	1 cm	030	3800	10		.024	2
				3810	2 cm	020	3810	10		.030	4
				3810	2 cm	020	3820	10		.022	4
				3844	2 cm	030	3830	10		.013	2
							3840	10		.011	4
	3848-3862: Shatter Zone:						3850	10		.015	4
	Pervasive SiO ₂ , fracture & vein Mo @ 15 cm intervals		ah	3849	1 cm	030					
	vein breccia,		ah	3853	15 cm	030					
				3867	3 mm	040	3860	10		.067	18
				3871	1 cm	030	3870	10		.024	8
			ah	3884	2 cm	030	3880			.024	6
	fracture pyrite & lobbly sulphide @ 060 ^o			3888	2 cm	030					
				3890	4 mm	030	3890			.025	6
				3902	2 mm	030	3900			.013	6
	Shatter Zone		ah	3903	2 mm	030					
				3903.5	15 cm	030					
				3909	3 mm	030	3910			.036	4

WESTERN MINES LIMITED

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HOLE NO. W-79-1

FEET / METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE			% SURFACE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS	
			Mo V	WIDTH	ANGLE °					Mo %	Cu ppm
	KQD		4 total	1 cm	040		4140	10		.058	8
				2	020						
		ah	4153	4 cm	030		4150	10		.084	4
	4153-4159 pervasive sericite, A		5 total	1 cm	030						
	4153, sphalerite with Mo veins										
			4162	1 cm	040		4160	10		.133	32
			4163.5	1 cm	040						
			4165	1 cm	040						
			4166	1 cm	040						
			4167	1 cm	040						
	020 Mo veins cutting 040		4167.5	2 cm	040						
4173-4178	Crackle zone with RFP dykes & veins; pervasive SiO ₂ , chl, mag, py-Fault zone; 4173-4178 crackle zone; pervasive SiO ₂ , fracture chlorite;		4174	5mm	030		4170	10		.041	4
	4174, RFP vein										
	4176, RFP dyke, 7 cm wide @ 080°		4178	5 mm	030						
	4177, mag-py-chl-qtz vein, 4 cm wide @ 030		4179	5 mm	030						
			4180	5 mm	030		4180	10		.049	16
			4185	5 mm	030						
	k-spar pegmatite @ 070° cut by Mo fracture		4186	f	030						

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HOLE NO. W-79-1

FEET/METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG	MINERALIZATION / STRUCTURE			% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS				
										Mo V	WIDTH	ANGLE	Mo V	Py
	KQD						4180	10		.049	16			
			4189.5	f	020		4190	10		.028	10			
	Shatter zone over 15 cm with later pr-sp-		4193.5	f	030									
			4203	5 mm	040		4200	10		.035	20			
	qtz-fractures & veins													
	4209.5, sphalerite-pyrite-quartz veins @													
	010° (2 mm)		4211.5	4 cm	030		4210	10		.014	150			
	Shatter zone (30 cm)		4214	5 mm	030									
			4217	1 cm	030		4220	10		.058	20			
	5 veins		4225	1 cm	030									
	magnetite		4228	2 mm	030									
		ah	4231	1 cm	020		4230	10		.016	8			
			4232	1 cm	030									
			4234	2 cm	040									
	4235; quartz-sphalerite 2 mm @ 020													
	4239 - 4241 stockworks Mo fractures & veins @ 8 cm intervals		4239.5	5 mm	030		4240	10		.031	12			
		ah	4247	4 cm	040									
			4251.5	5 mm	030		4250	10		.033	12			

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HOLE NO. W-79-1

FEET/METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS					
								Mo %	Cu PPM				
	KOD		Mo V WIDTH ANGLE°		4250	10		.033	12				
			4254 f 030										
			4257 1 cm 030										
			4261 3 cm 030		4260	10		.017	4				
	4265-4273; shatter zone, pervasive white sericite		f/vl 030/040										
	A ₂ fracture chlorite		4272 2 cm 040		4270	10		.054	6				
4273	4283		Pebble Breccia Dyke with Qtz-Mo fragments, sericite alteration (A ₃); contact at 080°; strong										
			4273-4283 Pbx										
	4282-4203		Rhyolite F.P., flow banding @ 070/080 parallels Pbx; no fracture Mo, cutting dyke or porphyry both cut by py-sp fractures @ 020										
			ah 4284 3 cm 020		4280	10		.019	890				
			ah 4288 4 cm 040		4290	10		.079	76				
			4295 1 cm 030										
			4297-4300: 1 cm 010										
			SDX MO										
4300	4303		Light brown amygdoloidal andesite dyke, contact @ 060, andesite cuts Mo mineralization		4300	10		.059	20				
			4300-4303 Andesite dyke										
			4304.5 2 cm 040										
			4316 2 cm 040		4310	10		.029	16				
			4330 1 cm 030		4320	10		.029	14				
					4330	10		.030	6				
			4338 1 cm 030		4340	10		.032	14				

WESTERN MINES LIMITED				Page 8 of 8			HOLE NO. W-79-1				
FEET/ METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE			% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS	
			Mo V	WIDTH	ANGLE					Mo %	Cu ppm
	KQD		4344	1 cm	030		4340	10		.032	14
			4346	2 cm	050						
			4348	1 cm	040		4350	10		.043	4
	4351-4354:										
	3 vuggy qtz-py + veins @ 020, hematite		4357.5	f	020						
			4358	2 cm	040						
			4361	5 cm	060						
			4368	5 mm	040						
			4370	5 mm	040		4370	10		.026	4
			4375	1 cm	040						
4386-4454	Fine grained rhyolite dyke (or silicified		4379	1 cm	040		4380	10		.043	4
			4384	1 cm	030		4390	10		.042	6
	KQD); grey, ghost feldspars & mafics, fracture Mo; contacts gradational	cut by	4400	5 mm	020		4400	10		.100	6
		020 f Mo	4412	5 mm	// axis		4410	10		.033	6
		cut by	4419.5	1 cm	040						
		020 f Mo	4422	2 cm	040		4420	10		.110	6
			4425	1 cm	// axis						
							4430	10		.114	6
							4440	10		.050	4
							4450	10		.028	4
							4454	4		.107	4

WESTERN MINES LIMITED

Page 2 of 8

HOLE NO. W-79-1

FEET/METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE			% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS			
										Mo %	Cu	PPM	
	KQD		Mo V	WIDTH	ANGLE		3740	10		.035	2		
		ah	3749	5 mm	020		3750	10		.025	4		
	Magnetite, chlorite, chalcopyrite		3759	2 cm	030		3760	10		.021	6		
	Magnetite, chlorite, chalcopyrite		3769	2 cm	030		3770	10		.009	2		
	Magnetite, chlorite; vein cut by fracture pyrite		3784	5 mm	040		3780	10		.021	2		
		ah	3789	1 cm	010		3790	10		.038	2		
			3794	5 mm	050								
			3798	2 cm	020								
	Magnetite		3800	1 cm	030		3800	10		.024	2		
							3810	10		.030	4		
			3819	2 cm	020		3820	10		.022	4		
							3830	10		.013	2		
			3844	2 cm	030		3840	10		.011	4		
	3848-3862: Shatter Zone:						3850	10		.015	4		
	Pervasive SiO ₂ , fracture & vein Mo @ 15 cm intervals												
		ah	3849	1 cm	030								
	vein breccia,	ah	3853	15 cm	030								
			3867	3 mm	040		3860	10		.067	18		
			3871	1 cm	030		3870	10		.024	8		
		ah	3884	2 cm	030		3880			.024	6		
	fracture pyrite & rubbly sulphide @ 060°		3888	2 cm	030								
			3890	4 mm	030		3890			.025	6		
			3902	2 mm	030		3900			.013	6		
	Shatter Zone		3903	2 mm	030								
		ah	3903.5	15 cm	030								
			3909	3 mm	030		3910			.036	4		

Ex File. ()
Keystone. 92 H/11
Assays

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

Certificate of Assay

RECEIVED
JUN 21 1979

WESTERN MINES LTD.
(HEAD OFFICE)

TO: Western Mines Ltd.,

PROJECT No.

595 Burrard St.,

DATE June 20/79.

Vancouver, B.C.

File No. 9-228

SAMPLE No.		Total Mo	Cu %	
		%		
W79-1-2756-2766		.002	.003	
	2766-2776	.003	.002	
	2776-2786	.004	.003	
	2809-2819	.007	.003	
	2827-2837	.007	.003	
	2837-2847	.003	.003	
	2851-2861	.010	.005	
	2861-2871	.004	.003	
	2871-2881	.008	.004	
	2881-2891	.004	.005	
	2902-2912	.005	.004	
	2927-2937	.003	.008	
	2937-2947	.004	.007	
	2947-2957	.011	.008	
	2957-2967	.007	.005	
	2967-2977	.088	.003	
	3017-3027	.015	.003	
W79-1-3027-3037		.012	.012	

MIN-EN Laboratories Ltd.

CERTIFIED BY

Carroll D. ...

MIN-EN LABORATORIES LTD.

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

Certificate of Assay

TO: Western Mines Ltd.,

PROJECT No. _____

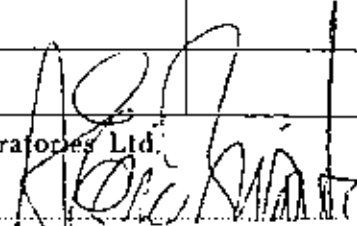
595 Burrard St.,

DATE June 22/79.

Vancouver, B.C.

File No. _____

SAMPLE No.	Total Mo %	Cu %
3399 3399-1-3411	.029	.018
3441-3451	.025	.017
3451-3461	.027	.015
3461-3471	.028	.023
3471-3481	.008	.009
3481-3491	.018	.012
3491-3501	.021	.020
3511-3521	.057	.022
3521-3531	.074	.048


 MIN-EN Laboratories Ltd.
 CERTIFIED BY *A.D. Smith*

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

Certificate of Assay

TO: Western Mines Ltd.,
595 Burrard St.,
Vancouver, B.C.

PROJECT No. KEYSTONE W-74-1

DATE Oct. 15/79.

File No. 9-688R

SAMPLE No.	Total Mo		
	%		
3531-3540	.032		
3540-3550	.112		
3550-3560	.034		
3560-3570	.052		
3570-3580	.038		
3580-3590	.033		
3590-3600	.042		
3600-3610	.042		
3610-3620	.023		
3620-3630	.096		
3630-3640	.024		
3640-3650	.019		
3650-3660	.111		
3660-3670	.097		
3670-3680	.042		
3680-3690	.052		
3690-3700	.028		
3700-3710	.065		
3710-3720	.036		
3720-3730	.045		
3730-3740	.035		
3740-3750	.026	(1.084)	0.049

MIN-EN Laboratories Ltd.

CERTIFIED BY

[Handwritten Signature]

1.084
2.2

MIN-EN LABORATORIES LTD.

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

Certificate of Assay

TO: Western Mines Ltd.,

PROJECT No. _____

595 Burrard St.,

DATE Oct. 17/79.

Vancouver, B.C.

File No. 9-712R

SAMPLE No.	Total Mo %		
3850-3860	.067		
3860-3870	.024		
3870-3880	.024		
3880-3890	.025		
3890-3900	.013		
3900-3910	.036		
3910-3920	.022		
3920-3930	.038		
3930-3940	.095		
3960-3970	.059		
3970-3980	.014		
3980-3990	.034		
3990-4000	.027	(8.478)	
4000-4010	.030		
4010-4020	.023		
4020-4030	.046		
4030-4040	.012		
4040-4050	.038		
4050-4060	.054		
4060-4070	.102		
4070-4080	.055		
4080-4090	.029	(286)	

MIN-EN Laboratories Ltd.

CERTIFIED BY *[Signature]*

.039

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 NORTH VANCOUVER, B.C.
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Certificate of Assay

TO: Western Mines Ltd., PROJECT No. _____
595 Burrard St., DATE Oct. 15/79.
Vancouver, B.C. File No. 9-688R

SAMPLE No.	Total Mo		
	%		
3750-3760	.021		
3760-3770	.009		
3770-3780	.021		
3780-3790	.038		
3790-3800	.024		
3800-3810	.030		
3810-3820	.022		
3820-3830	.013		
3830-3840	.011		
3940-3950	.111		
3950-3960	.052	.352	0.032
		11	

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TO: Western Mines Ltd.,

PROJECT No. _____

595 Burrard St.,

DATE Oct. 17/79.

Vancouver, B.C.

File No. 9-712R

SAMPLE No.	Total			
		Mo %		
4090-4100		.088		
4100-4110		.046		
4110-4120		.027		
4120-4130		.029		
4130-4140		.058		
4140-4150		.084		
4150-4160		.133		
4160-4170		.041		
4170-4180		.049		
4180-4190		.028		
4190-4200		.035		
4200-4210		.014		
4210-4220		.058		
4220-4230		.016		
4230-4240		.031		
4240-4250		.033		
4250-4260		.017		
4260-4270		.054		
4270-4280		.019		
4280-4290		.079		
4290-4300		.057		
4300-4310		.029	1.0715	.046

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

Certificate of Assay

TO: Western Mines Ltd.,

PROJECT No. _____

595 Burrard St.,

DATE Oct. 17/79.

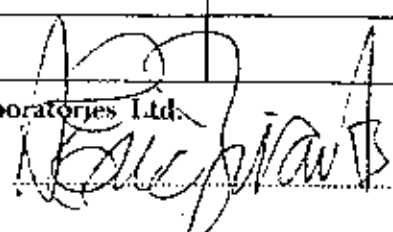
Vancouver, B.C.

File No. 9-712R

SAMPLE No.	Total			
		Mo %		
4310-4320		.026		
4320-4330		.030		
4330-4340		.032		
4340-4350		.043		
4350-4360		.067		
4360-4370		.026		
4370-4380		.043		
4380-4390		.042		
4390-4400		.100		
4400-4410		.033		
4410-4420		.110		
4420-4430		.114		
4430-4440		.050		
4440-4450		.028		
4450-4454		.107	.051	.057
			15	

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WESTERN MINES LIMITED

PAGE 1 OF 10

HOLE NO W-79-2

PROPERTY: Keystone Joint Venture N.T.S. LAT 49° 10' LOGGED BY L. W. Saleken DATE Oct.-Nov./79
 PROJECT NO: 92H/11E DEP 121'00" SURVEYED BY L. W. Saleken DATE COLLARED Oct. 22, 1979
 COMPLETED Nov. 14, 1979

COLLAR CHAINED X SURVEYED ESTIMATED			CASING N		CORE SIZE	DEPTH	HOLE CHARACTERISTICS			
GROUND	DRILL DECK	TOP OF CASING	LEFT IN HOLE YES X	NO			LOSS	WATER	SPINLS	RETURN
LENGTH					N casing	0	12.5			
ELEVATION	1130	1130m	1130m	0-12.5m	NQ		542.5			
HOLE COORD					BN		918.6			
HOLE SURVEY (feet) DEPTH COLLAR 1000 1500 1780 2200 2540 3014 SP 00 02 01.5 02 01 01 01 MAG BEARING 22E S23W S15W S41W S80W S25W N52W GPD BEARING 0 TRUE BEARING 0 S45W S17W S63W N15W N43W N10W INSTRUMENT Sperry-Sun Single Shot (corrected)										
HOLE CHARACTERISTICS LOSS: WATER: SPINLS: RETURN: RETURN: RETURN:										

J. W. Coates Enterprises Ltd.
 Boyles 56A
 Poor bit performance with NQ
 hard rock

OBJECTIVE / COMMENTS:

W-79-2 DRILL HOLE SUMMARY

Hole Geology: 0-12.5(m) Overburden
 12.5-918.6 Keystone Quartz Diorite
 56.4-77.1 Pebble Breccia dyke
 125.9-148.7 Dacite Porphyry Dykes
 517.9-519.4 Dacite Porphyry Dyke
 918.6 E O II

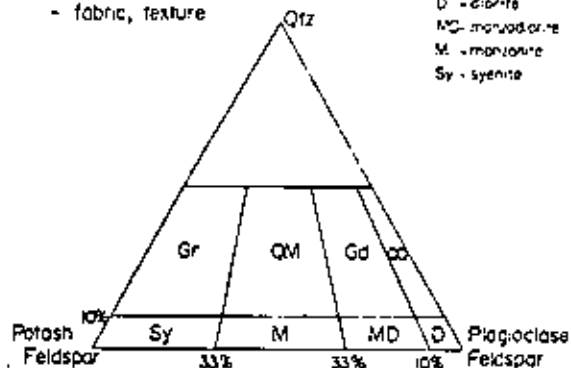
Alteration and Mineralization: 12.5-918.6 Propylitic-type with specularite generally weak to unaltered.
 Sporadic sphalerite-pyrite veining.

Rock Geochemistry	Mo	Fe(t)	Cu	Pb	Zn	Mn	F	W	Ag
W-79-2 b	1	1.5	11	12	88	840	360	< 2	0.6
t	4	1.9	17	34	150	1700	620	5	1.5
Three-hole b	5	1.4	16	22	151	1013	530	4	0.9
Average t	11	1.9	40	81	307	1700	793	8	1.8

ROCK TYPES

- GRANITIC**
- phenocryst mineralogy
 - color
 - fabric, texture

- Gr - granite
- Gd - granodiorite
- Qd - quartz diorite
- D - diorite
- MD - monzoniorite
- M - monzonite
- Sy - syenite



- ALTERATION**
- silicification
 - sericitization
 - K-feldspar
 - biotite
 - chlorite
 - carbonate
 - argillie
- stratobound, pervasive, fracture or vein controlled, other.

ABBREVIATIONS (GSC M.sc. Rept 16, p.8)

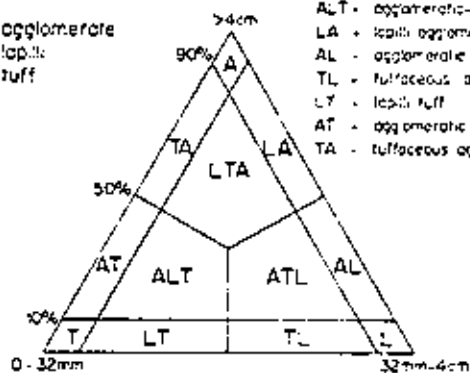
cp	chalcopyrite	gyp	gypsum
sp	sphalerite	ah	anhydrite
gn	galena	Kspar	potash feldspar
py	pyrite	Pspar	plagioclase
po	pyrrhotite	hm	hematite
tet	tetrahedrite	cino	clinzoisite
ba	barite	mt	magnetite
mo	molybdenite	kaol	kaolinite
Au	gold	fl	fluorite
Ag	silver	phenos	phenocrysts
bn	bornite	xll	crystals
lm	limonite	porph	porphyry (F.P., Q.P.)
ten	tennantite	v	veins
pn	pentlandite	str	stringers
aspy	arsenopyrite	vl	veinlets
fsp	feldspar	bx	breccia
hb	hornblende	stk	stockwork
chl	chlorite (chl/c)	diss	disseminated
qtz	quartz	ff	fracture filling
ser	seric (ser/c)	amyg	amygdale
ep	epidote	mssv	massive
bi	biotite	lam	laminated
mu	muscovite	c	contact
leuc	leucokene	bc	broken core
carb	carbonate	gc	ground core
C	carbon		

- STRUCTURE**
- type, degree or intensity, orientation to core axis, sequential character.
 - schistosity, gneissosity, foliation
 - cleavage
 - fractures & jointing
 - bedding
 - gouge and/or sheared (distinct from schistosity)

VOLCANIC

- A - agglomerate
- L - lapilli
- T - tuff

- LTA - lapilli-tuff agglomerate
- ATL - agglomeratic-tuffaceous lapillstone
- ALT - agglomeratic-lapilli tuff
- LA - lapilli agglomerates
- AL - agglomeratic lapillstone
- TL - tuffaceous lapillstone
- LT - lapilli tuff
- AT - agglomeratic tuff
- TA - tuffaceous agglomerate



- MINERALIATION**
- % sulphides (mineralogical breakdown)
 - habit
 - texture, grain size
 - gangue association
 - sequential development, paragenesis

ASSAY ORDER
Au/Ag/Cu/Pb/Zn

- most least east most
- ↓ ↓ ↓ ↓
- DAC - MAF - RHY - ATL**
- % fragments
 - fragments type
 - fabric (sorting, rounding, lamination)
 - color

WESTERN MINES LIMITED

Page 8 of 9

HOLE NO. W-77-2

FEET/METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SURFACE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS
1699	1704	Feldspar Biotite Porphyry (dacite):							
		contact @ 020, cut by fracture-filled chlorite-							
		epidote							
1704	1895	KQD, generally A ₀							
1895	1941	Fine grained KQD with pervasive sericite							
	1925-1943	Andesite dykes (2) cutting fine grained KQD							
	2166	pyrite-chlorite veins @ 020							
2214	2240	Andesite porphyry dyke cut by epidote fractures							
		fine epidote cut by chlorite fracture							
2240	3014	KQD: fresh with fracture chlorite + epidote,							
		specularite, gypsum, bands of pervasive green							
		sericite, minor occurrence of quartz-pyrite							
		veins							
	2314	quartz-pyrite veins @ 060, 5 mm							

WESTERN MINES LIMITED

PAGE 1 OF 4

Extension
HOLE NO. W-78-1

PROPERTY: Keystone Joint Venture			N.T.S.	LAT: 49°40'	LOGGED BY: L. W. Saleken		DATE: Oct. /79		COLLARED: Sept. 26, 1979	
PROJECT NO:			92H/11E	DEP: 121'00"	SURVEYED BY: L. W. Saleken		DATE:		COMPLETED: Oct. 7, 1979	
COLLAR CHAINED x SURVEYED ESTIMATED			CASING: W		CORE SIZE	DEPTH		HOLE CHARACTERISTICS		
GROUND	DRILL DECK	TOP OF CASING	LEFT IN HOLE: YES X		W casing	0	42.7	LOSS	WATER	
LENGTH	1140		NO		NO	42.7	45.7	SAVING	CIRCULATION	POINTS
ELEVATION	1140		0-42.7m		NO	45.7	1337.8	1251.5	853.4	Nil
HOLE COORD										
HOLE SURVEY (feet)										
DEPTH	COLLAR	3600	4160							
O.P.	00	010	013							
MAG BEARING	N22E	N50W	N45N							
GRD BEARING	0									
TRUE BEARING	0	N28W	N23W							
INSTRUMENT	Sperry-Sun		Single Shot							

EQUIPMENT: RODS 5" ~~XXXXXXXXXX~~
D.W. Coates Enterprises Ltd.
Boyles 56A

No rods in hole from 213-457
sanding from 1251.5 to 1337.8
metres

OBJECTIVE / COMMENTS:

W-78-1 DRILL HOLE SUMMARY

Hole Geology: 0-42.7 Overburden

42.7-1337.8 Pebble Breccia

Alteration and Mineralization: 42.7-1337.8 Argillic-type; strong pervasive sericite-clay-pyrite + carbonate.
Post breccia sphalerite-pyrite (= galena, chalcopyrite) veining.

Rock Geochemistry

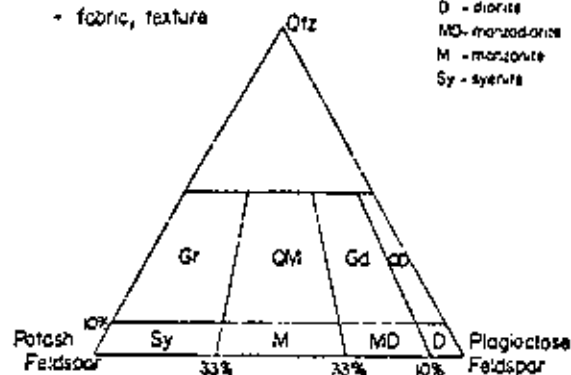
	Mo	Fe(4)	Cu	Pb	Zn	Mn	F	W	Ag
W-78-1 b (ppm)	9	1.3	26	25	240	1400-4300	470	4	1.3
t (ppm)	18	1.75	74	150	470	1700-6000	660	8	2.0
Three-hole b	5	1.4	16	22	151	10.3	530	4	0.9
Averages t	11	1.9	40	81	307	1700	793	8	1.8

ROCK TYPES

GRANITIC

- phenocryst mineralogy
- color
- fabric, texture

Gr - granite
Gd - granodiorite
QD - quartz diorite
D - diorite
MD - monzonite
M - monzonite
Sy - syenite



ALTERATION

- silicification
- sericitization
- K-feldspar
- biotite
- chlorite
- carbonate
- argillite
- stratabound, pervasive, fracture or vein controlled, other.

STRUCTURE

- type, degree or intensity, orientation to core axis, sequential character.
- schistosity, gneissosity, foliation
- cleavage
- fractures & jointing
- bedding
- gouge and/or sheared (distinct from schistosity)

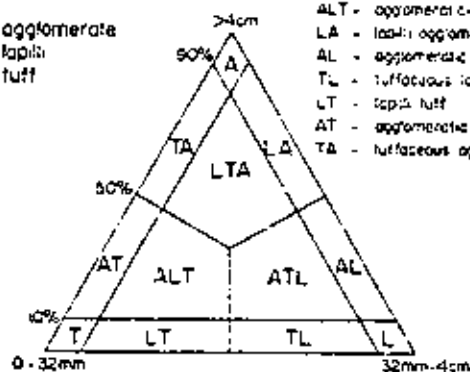
ABBREVIATIONS (GSC Misc. Rept 6, p.8)

cp	chalcopyrite	gyp	gypsum
sp	sphalerite	an	anhydrite
gn	galena	Kspar	potash feldspar
py	pyrite	Plspar	plagioclase
po	pyrrhotite	hm	hematite
tet	tetrahedrite	clno	clinzoisite
ba	barite	mt	magnetite
mo	molybdenite	kaol	kaolinite
Au	gold	fl	flourite
Ag	silver	phenoc	phenocrysts
bn	bornite	atl	crystals
lm	limonite	porph	porphyry (EP, Q, P)
ten	tennantite	v	veins
pn	pentlandite	str	stringers
aspy	arsenopyrite	vl	veinlets
fsp	feldspar	bx	breccia
hb	hornblende	stk	stockwork
chl	chlorite (chl'c)	diss	disseminated
qtz	quartz	ff	fracture filling
ser	sericite (ser'c)	amyg	amygdale
ep	epidote	msv	massive
bi	biotite	lam	laminated
mu	muscovite	ct	contact
leuc	leucokera	bc	broken core
carb	carbonate	gc	ground core
C	carbon		

VOLCANIC

A - agglomerate
L - lapilli
T - tuff

LTA - lapilli-tuff agglomerate
A*L - agglomerate-lutaceous lapillstone
ALT - agglomerate-lapilli tuff
LA - lapilli agglomerate
AL - agglomerate lapillstone
TL - lutaceous lapillstone
LT - lapilli tuff
AT - agglomerate tuff
TA - lutaceous agglomerate



mass ↓ mass ↓ mass ↓ mass ↓

DAC - MAF - RHY - ATL

- % fragments
- fragments type
- fabric (sorting, rounding, lamination)
- color

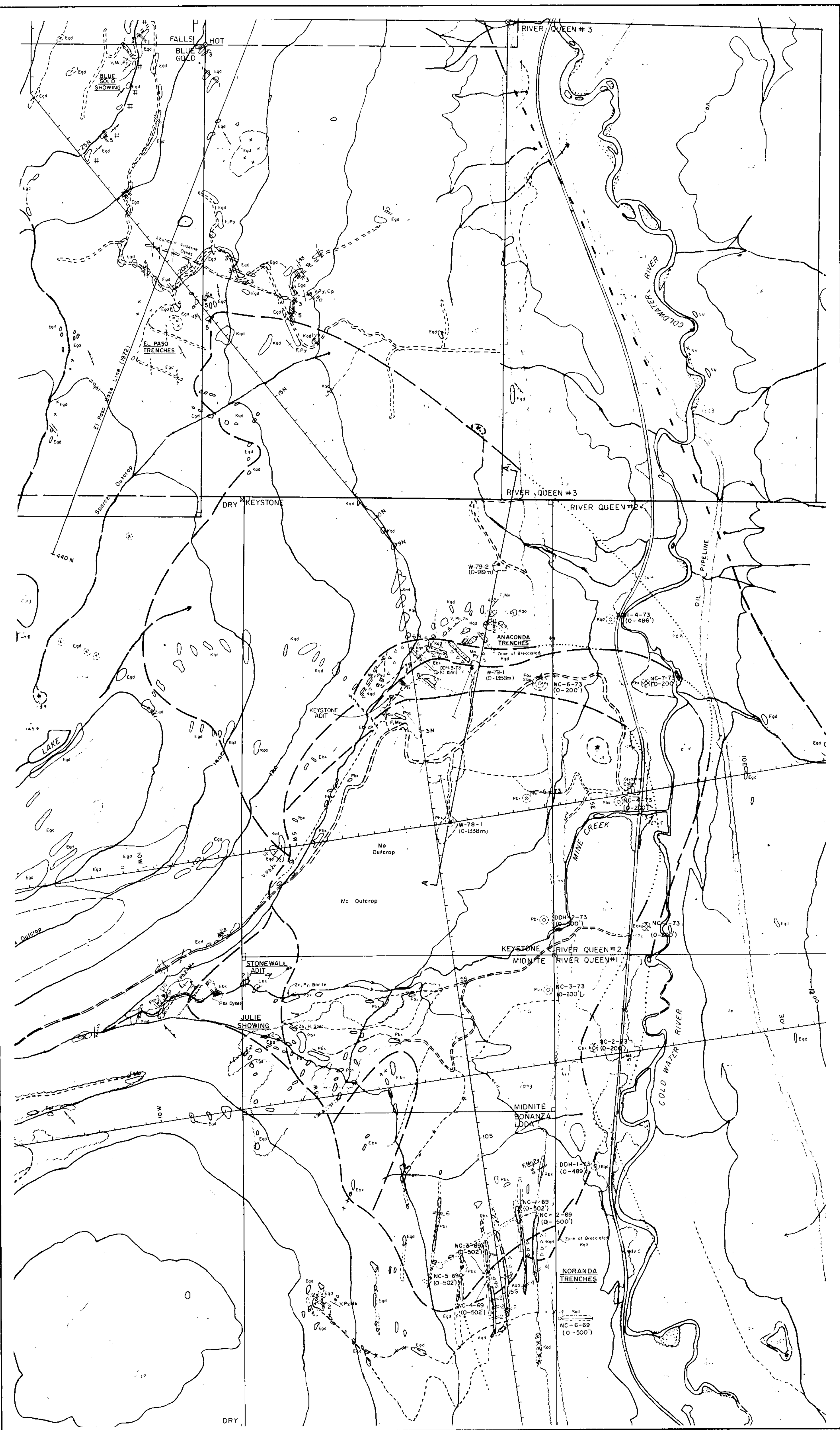
MINERALIATION

- % sulphides (mineralogical breakdown)
- habit
- texture, grain size
- gangue association
- sequential development, paragenesis

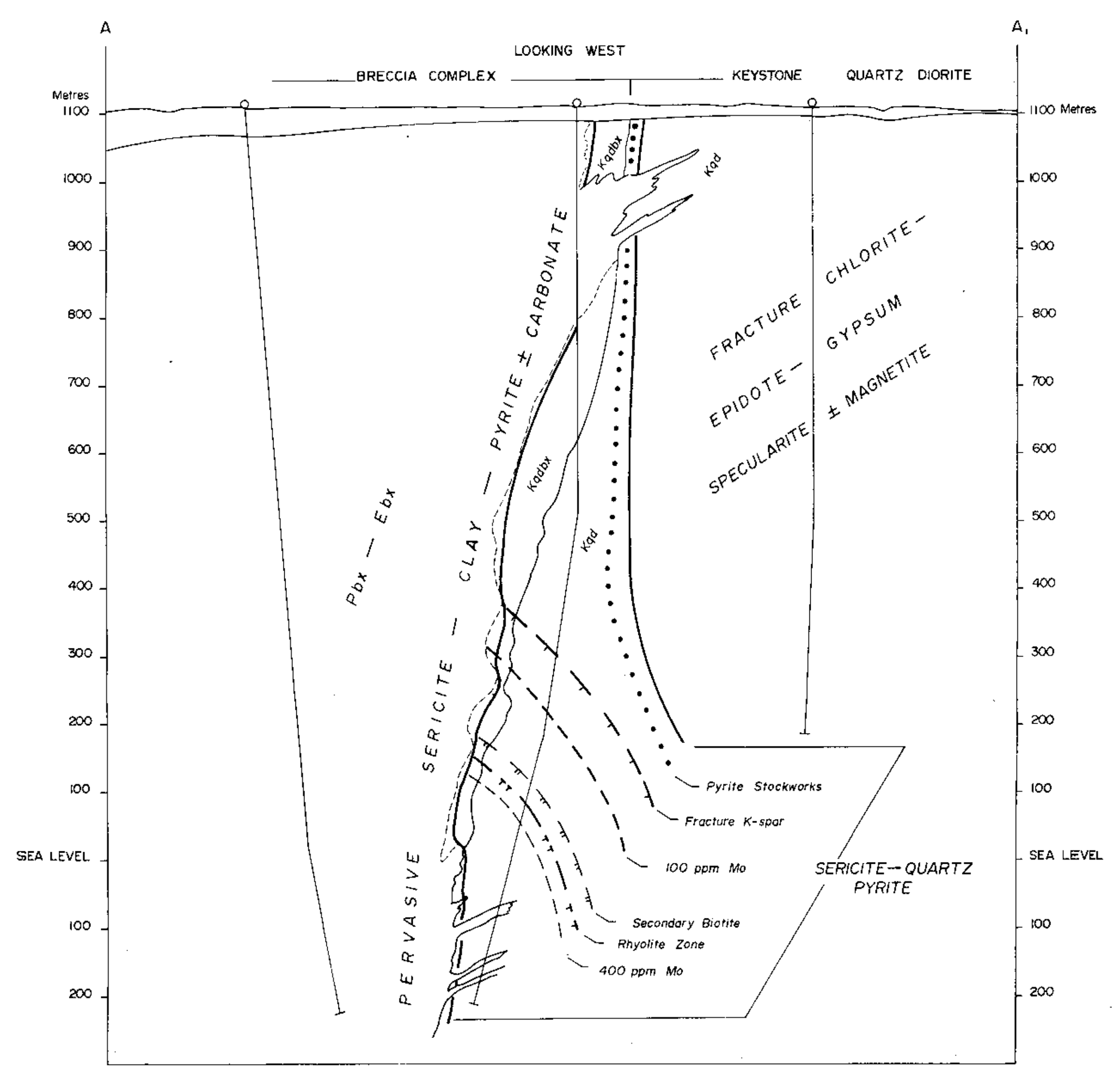
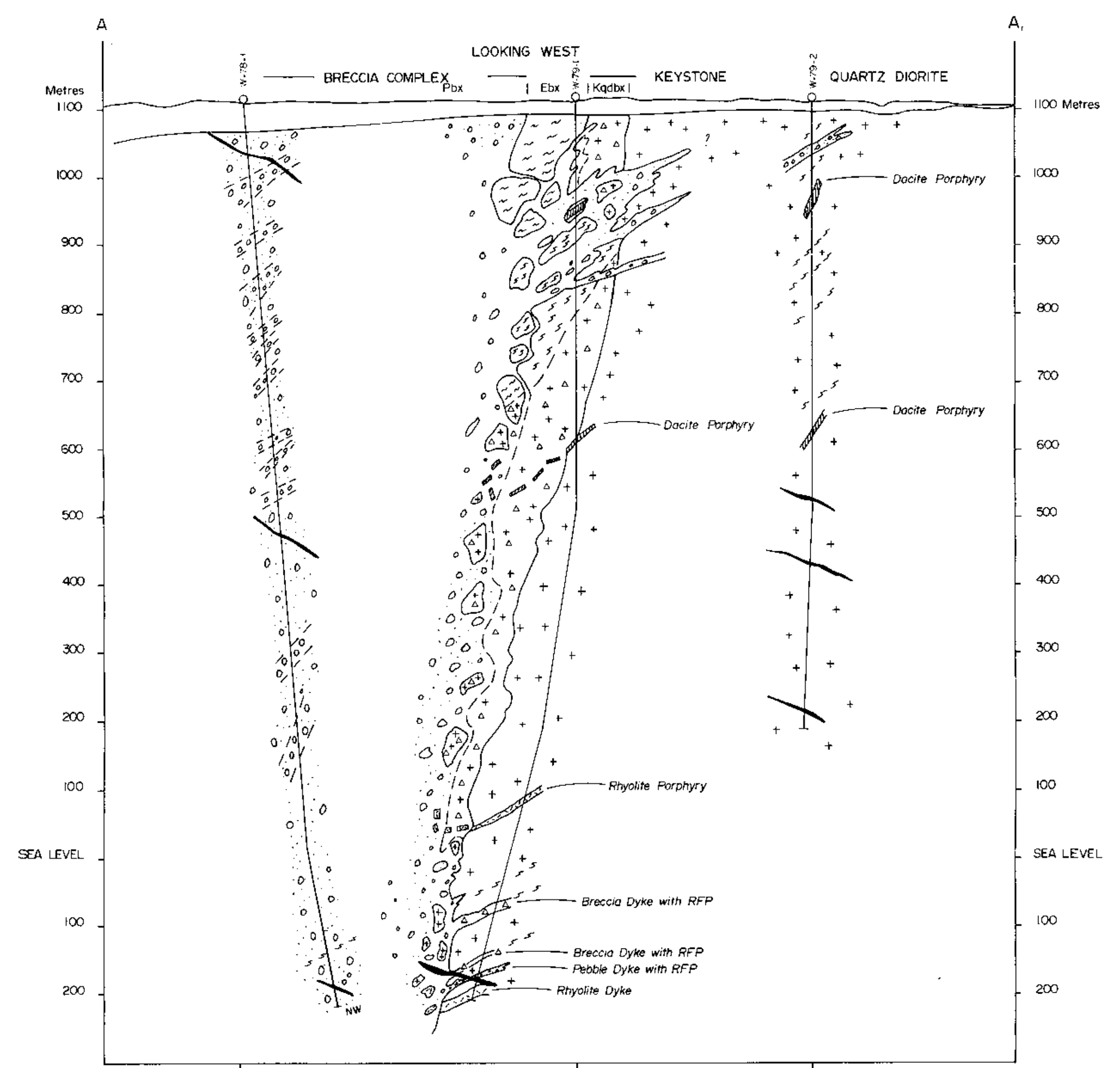
ASSAY ORDER

Au/Ag/Cu/Pb/Zn

WESTERN MINES LIMITED				Page 1 of 3				HOLE NO. 78-1						
FEET / METERS	DEPTH	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS					
									Sp-pym	Other	Grade			
0	140	Overburden: glacial & fluvial outwash; casing												
		set 140 to 161												
140	2836	PEBBLE BRECCIA (Pbx)												
2836	2866	Set casing in Pbx												
2866	4389	PEBBLE BRECCIA: white to greyish, indurated,		Breccia generally massive,										
		poorly sorted, angular to sub-angular, "sand"		layering observed @ 040°. Veining						2871		060		
		to "pebble" size, igneous breccia exhibiting		cutting Pbx. Contain sphalerite,						2895		060		
		coarse fragmental layering: matrix, sand size		pyrite, quartz, galena,						2918	cp	060		
		(1 mm) or less, 90% fragments, pebble size		chalcopyrite, carbonate manganese						2935	cp	060		
		(5 mm) or greater, 10% matrix material:		(rhodochrosite)						2956	cp	070		
		sericite (+ clay), quartz pyrite, coarser								2981		030		
		material: KQD (70%), EGD (20%), RFP, dacite								2989		030		
		porphyries, felsites, Qbx								2991		010		
										2994	cp	080		

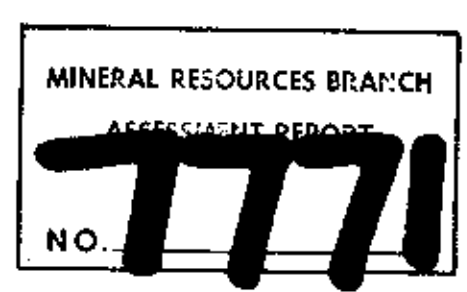


GEOLOGIC SCHEMATIC CROSS - SECTION



- LEGEND**
- Pebble Breccia
 - Keystone Quartz Diorite Breccia
 - Keystone Quartz Diorite (non-foliated)
 - Eagle Breccia and/or Brecciated Eagle Granodiorite
 - Eagle Granodiorite (foliated)
 - Nicola Volcanics: Andesite Flows and Tuffs
- DYKES**
- Andesite
 - Felsite
 - Biotite Feldspar Porphyry and/or Dacite
 - Diorite Dyke
 - Aplite and/or Pegmatite
 - Rhyolite Feldspar Porphyry (RFP)

- SYMBOLS**
- Outcrop
 - Sparse Outcrop
 - Geological Contacts (defined, assumed)
 - Foliation
 - Dominant Fracture (F), Quartz Vein (V) or Mineralized Structure (S) with Pyrite (Py), Manganese Oxide, Molybdenite (Mo), Chalcocopyrite (Cp), Lead, Zinc (Pb, Zn), Hematite (H), Barren (B).
 - Dyke
 - Fault or Shear Zone
 - Brecciated
 - Intense Shearing
 - Sample Location
 - DDH vertical
 - DDH angled
 - Drill Hole name, number, year drilled and depth
 - Down Hole geology
 - LCP
 - Corner Post
 - Claim Boundary
 - Cabins
 - Usable Roads
 - Trails or old Roads
 - Adit, Shaft



WESTERN MINES LIMITED
 KEYSTONE JOINT VENTURE
 NICOLA MINING DIVISION, BRITISH COLUMBIA.
 CHIQUHALLA LAKES AREA
 GEOLOGY & CROSS SECTION
 HOLES 78-1, 79-1, 79-2
 SCALE 1:5000
 MAILED 28th JANUARY 1980
 To accompany the report THE KEYSTONE JOINT VENTURE
 BY L. W. SALTER