

78-#191-#6784

GEOLOGICAL, PROSPECTING, DRILLING REPORT

MS CLAIM (REC. NO. 544-(3))

SMITHERS, B.C., OMINECA M.D.

MAPSHEET 93L 15E Lat. 54°47'
Long. 126°43'

for:

PETRA GEM EXPLORATION OF CANADA LTD.

by:

BARRY PRICE, M.Sc.
March 22, 1978

MINERAL RESOURCES BRANCH

REPORT

6784

NO.

SUMMARY


1977 EUG

During the period June 18 - August 8, 1978, the M.S. claim was prospected by the writer and K. Coswan. From October 27 to November 2, 1978 mapping, trail cutting, and 25 feet (8 meters) of packsack diamond drilling was done in three short holes. The drilling tested a contorted unit of limestone in which clots and disseminations of galena and sphalerite occur. The mineralization occurs along a 200 foot (60 m) section of the canyon of Canyon (Carr) creek, 20 miles due east of Smithers, B.C. Additional disseminated sphalerite is present in limy tuffs thought to underlie the limestone and in felsic agglomerate farther up the canyon. Prospecting revealed additional outcrops of the agglomerate adjacent to the limestone. Rock types are considered significant in that they resemble those seen elsewhere in producing volcanogenic "stratiform" massive sulphide deposits. Further mapping and sampling is recommended.




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GEOLOGICAL REPORT - M.S. CLAIM

INTRODUCTION AND HISTORY:

During the summer of 1977 an exploration program for volcanogenic massive sulphide deposits was initiated in the Smithers area.

This area was chosen for the following reasons:

- 1) Numerous sulphide deposits of known or suspected volcanogenic origin are present in the area.
- 2) Some of the known deposits are significant in economic potential, for example the Sam Goosly deposit currently being developed for production by Granby Mining and Graenges Ltd. This deposit contains 43.5 million tons grading 2.78 oz./ton silver, 0.33% copper and 0.026 oz./ton gold.
- 3) A broad area near Smithers is underlain by favorable stratigraphic units, i.e. the "Babine Shelf facies" of the Telkwa Formation of the Hazelton Group.
- 4) The writer has examined several of the more important prospects in the project area.

During the period 1968-1972, the "Ascot" group of claims was explored by Texas Gulf Ltd. from the two base camps. Work included reconnaissance and detailed soil geochemistry, airborne magnetic surveys and airborne and ground E.M. surveys. On the basis of the geophysical surveys, three diamond drill holes were completed, one of which intersected weak, disseminated mineralization of sphalerite and galena identified as "stratiform" in nature and sedimentary in origin.

The mineralization had been staked as early as 1952, although only a few small pits were dug on one of the showings, exposing a narrow lead-zinc-barite zone.

The claims were dropped by Texas Gulf in 1977 and one area, covering some of the more significant mineralization was restaked by Kevin Coswan, Smithers, B.C. in March 1977. The property was inspected



by the writer in June 1977; during this inspection the potential for volcanogenic stratiform massive sulphides was recognized and additional zinc showings were found. The property was immediately optioned by Petra Gem Exploration (the writer's company) and during the 1977 exploration season, additional geological mapping, sampling, and packsack diamond drilling was done on the M.S. claim, and a pack trail was cut to the lowermost showing. A new claim of 16 units (Byron) was staked to cover disseminated mineralization seen in DDH-1, Texas Gulf's original drill-hole.

LOCATION AND ACCESS: (figures 1, 2)

The project area is located 20 miles due east of Smithers, B.C. at the headwaters of Canyon Creek, between Mt. McKendrick and Dome Mountain. Although a cat road was built across the property in 1968, the road is in need of repair, and access is 4 miles by foot from the Babine Lake highway at Burnt Cabin junction, or by helicopter 10 minutes from Smithers. The area lies between elevations 4000 and 5000 feet with low relief - low wooded hills and open, marshy meadows. A short section of the creek canyon is relatively steep. Till cover is extensive in most of the area, but outcrop is present on hillsides and in creek-banks.

CLAIMS:

The most important showings are covered by the M.S. and Byron claims shown on figure 3. The M.S. claim, record no 544 (3) is held by Petra Gem by option from owner Kevin Coswan. The Byron claim, record no. 698 (8) is owned by the writer for Petra Gem, but is partially covered by the perimeter clause for the M.S. claim. In February 2, additional claims were staked by the writer: MS 2 (6 units) adjacent to the MS claim and BYRON 2 (16 units) between MS and Byron claims.

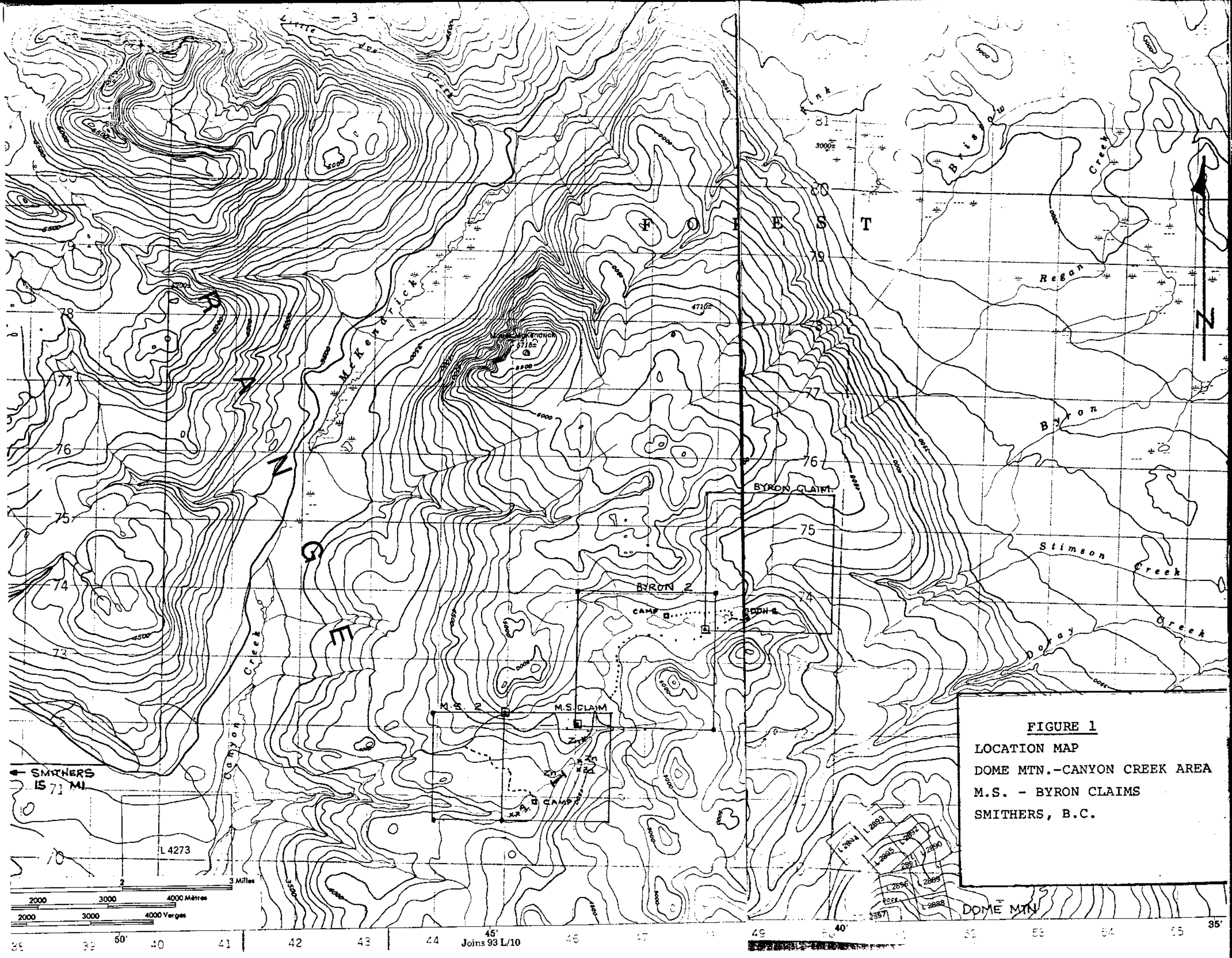


FIGURE 1
 LOCATION MAP
 DOME MTN.-CANYON CREEK AREA
 M.S. - BYRON CLAIMS
 SMITHERS, B.C.

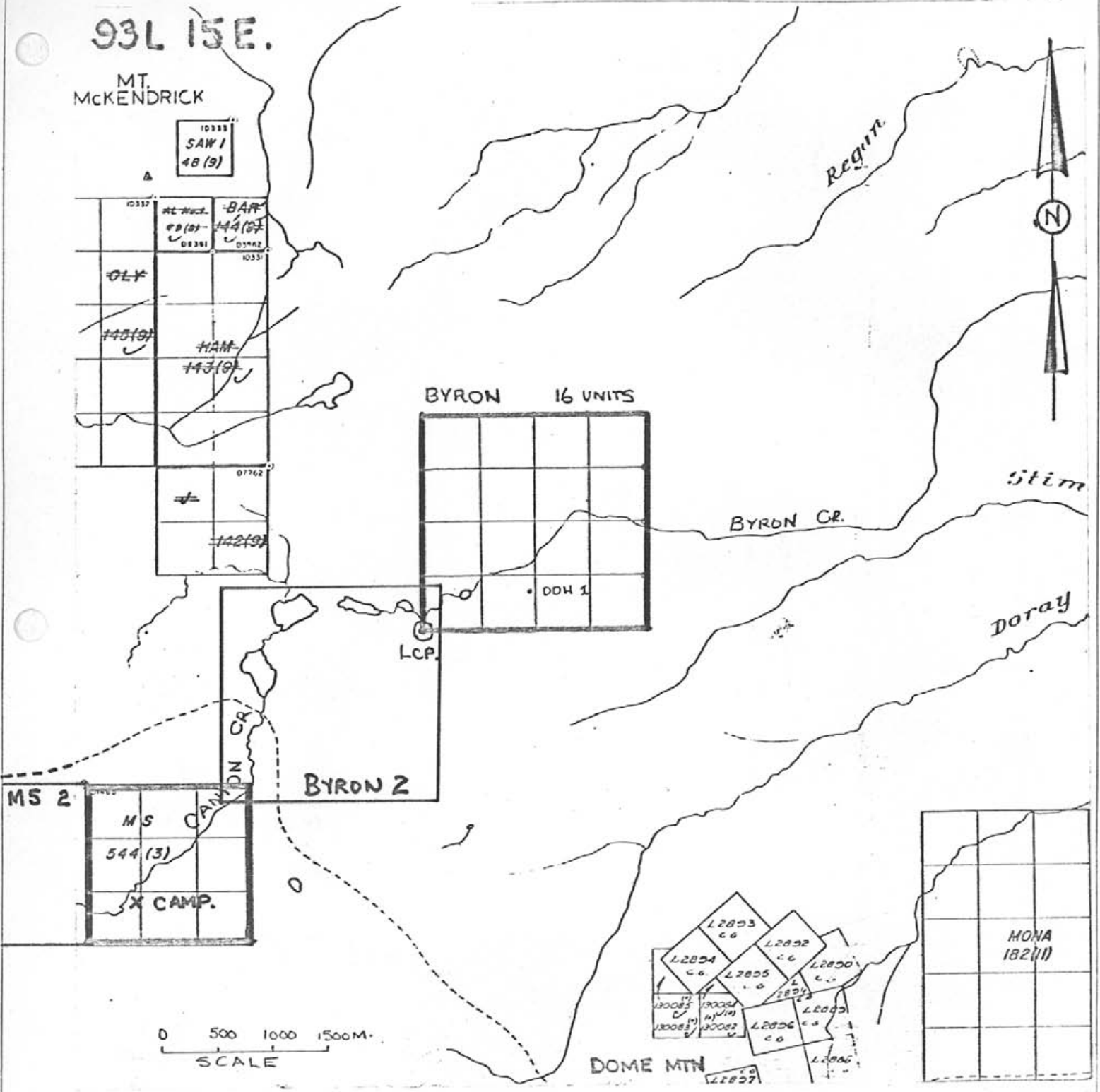


FIGURE 2

Claim Sketch - CANYON CREEK - DOME MTN.



GEOLOGY:

The project area lies entirely within the Hazelton Group, a volcanic-sedimentary sequence of middle to upper Jurassic age. The rocks in the area are believed to be the "Babine Shelf" facies of the Telkwa Formation, the areal extent of which is shown in figure 4. This "shelf" is described by Tipper and Richards (1977) as follows:

"Between Bulkley River and Babine Lake, predominant subaqueous and subaerial pyroclastic rocks are intercalated with marine sediments and intravolcanic non-marine sediments.....

"In the Dome Mountain area, two volcanic members may be present. A lower assemblage comprises interbedded red, maroon, purple, grey, and green tuff and breccia, with interbeds of shale and greywacke. Discontinuous limestone beds and lenses, in places with a pelecypod and ammonite fauna, are common. This unit is overlain by about 100m. of black shale, separating it from a second volcanic member, estimated to be 900m. thick of mainly green aquagene tuff, breccia, and flows at the base, grading upward into a mainly subaerial assemblage of reddish colored lapilli tuff and fine to medium-grained (basaltic to rhyolitic) breccia and flows.

"The transition zone between the Howson subaerial facies to the west, and the Babine shelf facies is a broad (5 km.) arcuate belt with limestone reef and reefoid bodies, marine sediments with shell coquinas, and minor aquagene tuff inter-fingered with the prominent reddish colored volcanics typical of the subaerial facies."

PROPERTY GEOLOGY:

Peatfield (1968) recognized three members in the Hazelton group and regarded the bulk of the rocks exposed on the property to belong to the Middle (mainly sedimentary) division.

Structure:

Rock units trend roughly north-easterly across the property, but, according to detailed mapping done by Peatfield, all units are tightly folded with axes trending northwest. Minor folds indicate plunge of 25 degrees toward azimuth 120 degrees. Although

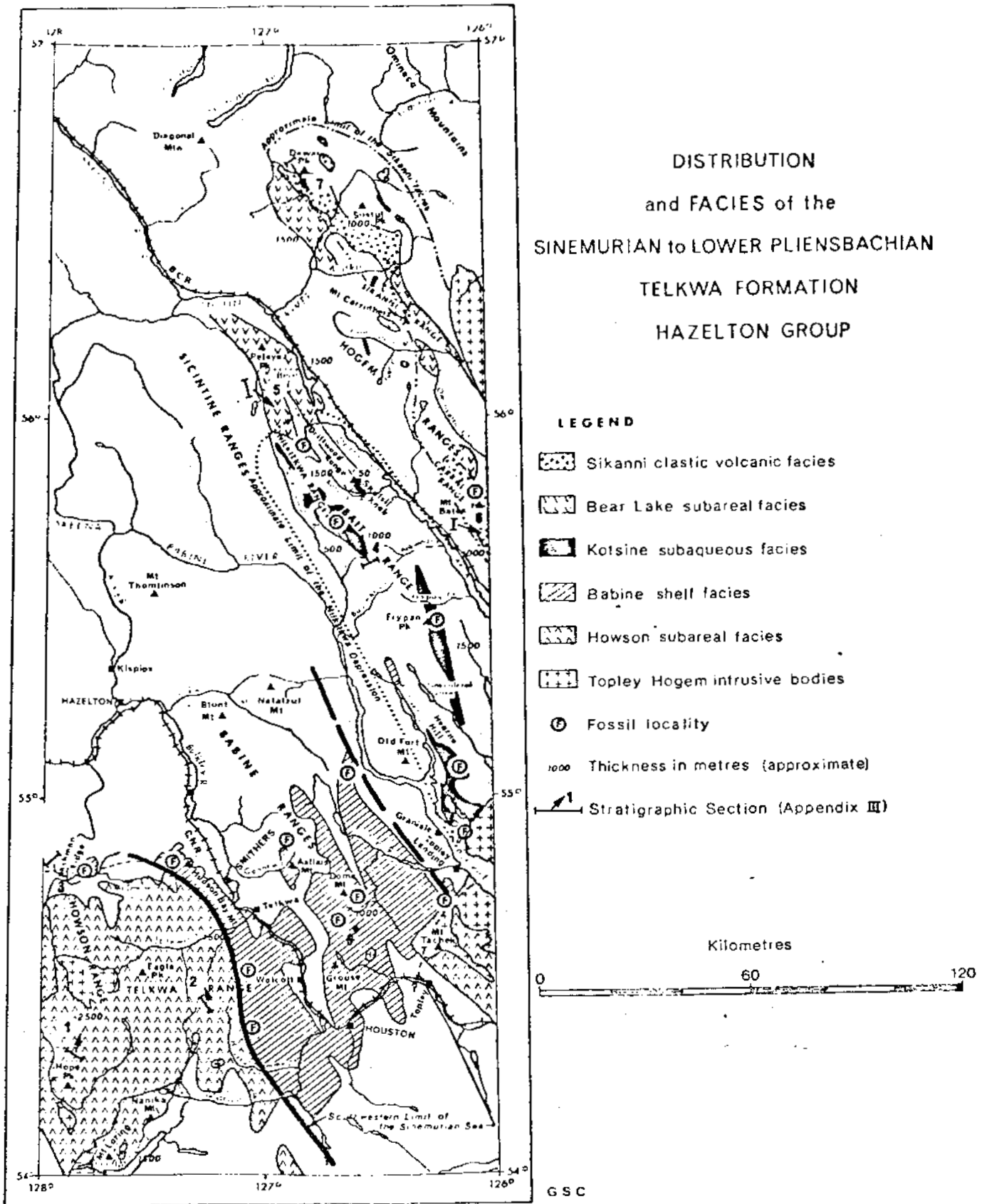


FIGURE 3

Facies Map - Telkwa Formation, showing 'Babine Shelf' area.



isoclinal folding is hypothesized for the Middle division, the more massive volcanic divisions to the north and south are less strongly folded. North-easterly trending faults and shears apparently post date folding. Richards (1977) indicates that argillaceous units in the Hazelton Group have acted as planes of decollement for thrusts.

Intrusions:

Small stocks and dykes of dioritic composition are mapped by Peatfield, as well as two sills which appear to have been folded with the sediments. The smaller "plug" east of the M.S. claim is thought by Peatfield to represent a volcanic neck. Two major dykes of basaltic-gabbroic composition cross the canyon above the M.S. showing. The material is dark, fine-grained and is magnetic.

Mineralization:

Three types of mineralization are present in the claims:

- 1) Disseminations and irregular patches of sphalerite and galena in limestones, (M.S. showing).
- 2) Disseminated galena, sphalerite, pyrite and occasionally chalcopyrite in rhyolitic or dacitic tuffs. (Byron showing).
- 3) Massive pyrite near the contact of massive rhyolite and graphitic argillite, with galena and sphalerite in associated quartz veins or silicified rhyolite (Camp showing).

Type 1 - Sphalerite and galena in limestones occur in exposures approximately 1500 feet northeast of the main camp on M.S. claim. The limestone unit outcrops for 200 feet along the creek bank, and although strongly contorted, appears to dip generally southward. Sheared blocks of amygdaloidal andesite are included. The limestone is recrystallized, and the galena and sphalerite, because of their fine-grained disseminated texture and light color (sphalerite) are difficult to see. Samples 19888 and 19892 assayed 0.885% and 1.62% zinc. respectively from large bags taken as "grab" samples.



1977 WORK PROGRAM:

A) Prospecting

During several visits to the property during the summer of 1977, the writer and K. Coswan, property owner, conducted prospecting over the M.S. claim. The prospecting resulted in the discovery of felsic breccia on the east side of the creek approximately 600 feet (180 m) northeast of camp. In addition, the limestone unit was traced northward from the canyon and was seen in the first major tributary in the canyon 3000 feet (900 m) north of camp. Disseminated pyrite in rhyolitic rocks is present in a number of outcrops along the cat road 1800 m northeast of camp (now covered by Byron 2 M.C.). During prospecting, soil samples AS-77-45 to 32S were taken along the road and along the canyon as shown on the accompanying map.

Additional prospecting is recommended for 1978 to trace the mineralized horizons.

B) Trail cutting

On October 27 and 28, 1977, the writer, D. Price and J. Hilchey, cut approximately 1000 m. of packtrail from the camp on the M.S. Claim to the showings and beyond the major tributary. Four man days were spent on this portion of the job to facilitate moving packsack drills to the showings.

C) Packsack drilling

Mobilization for the drilling job began October 25, 1978 and from October 27 to November 2, 1978 23 feet of packsack drilling in three holes was completed by the writer, D. Price and J. Hilchey. Snow and freezing conditions slowed the project considerably but drilling proved effective in the limestone when water circulation could be maintained. All material drilled was folded and sheared

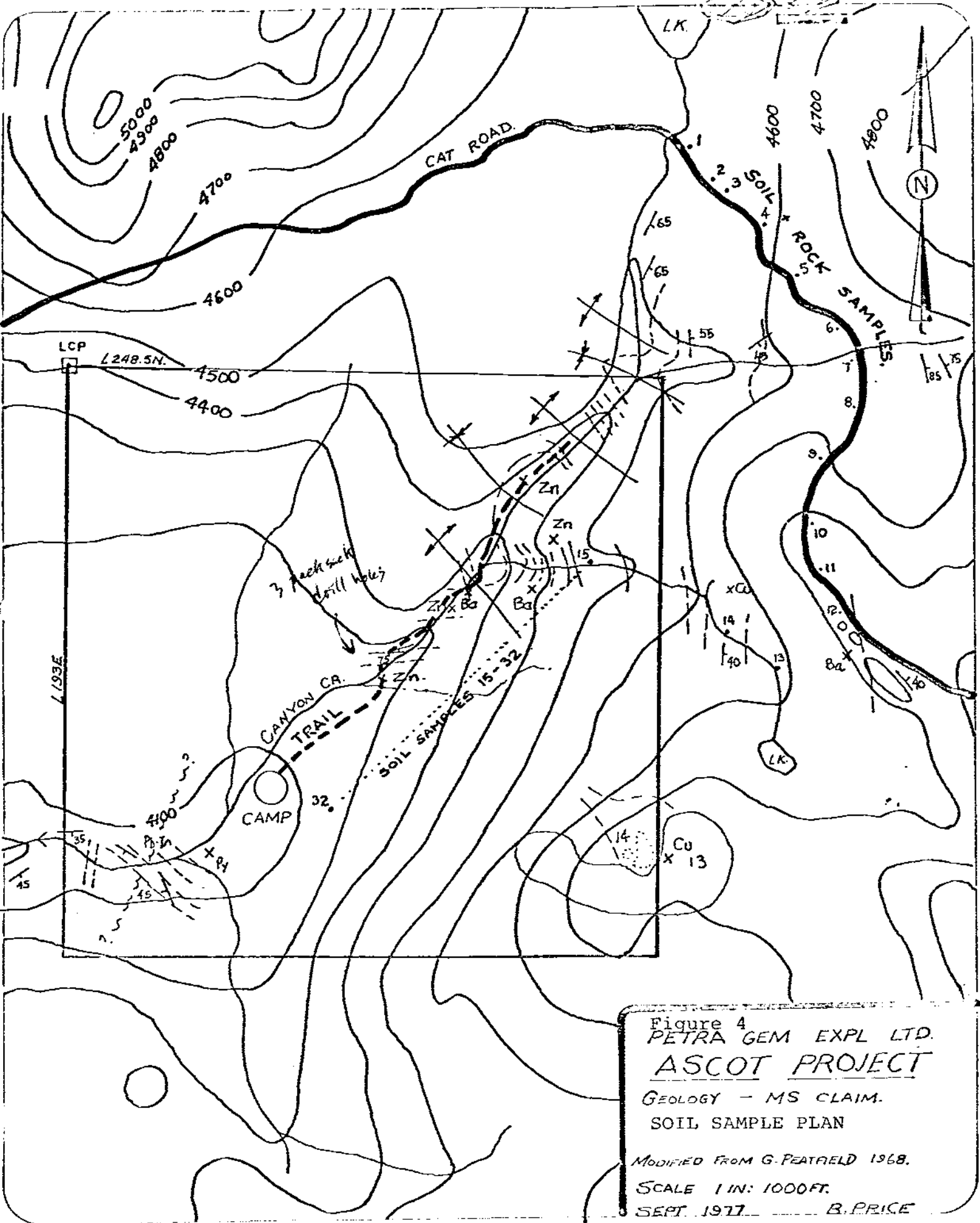


Figure 4
 PETRA GEM EXPL LTD.
 ASCOT PROJECT
 GEOLOGY - MS CLAIM.
 SOIL SAMPLE PLAN
 MODIFIED FROM G. PEATFIELD 1968.
 SCALE 1 IN: 1000 FT.
 SEPT. 1977. B. PRICE

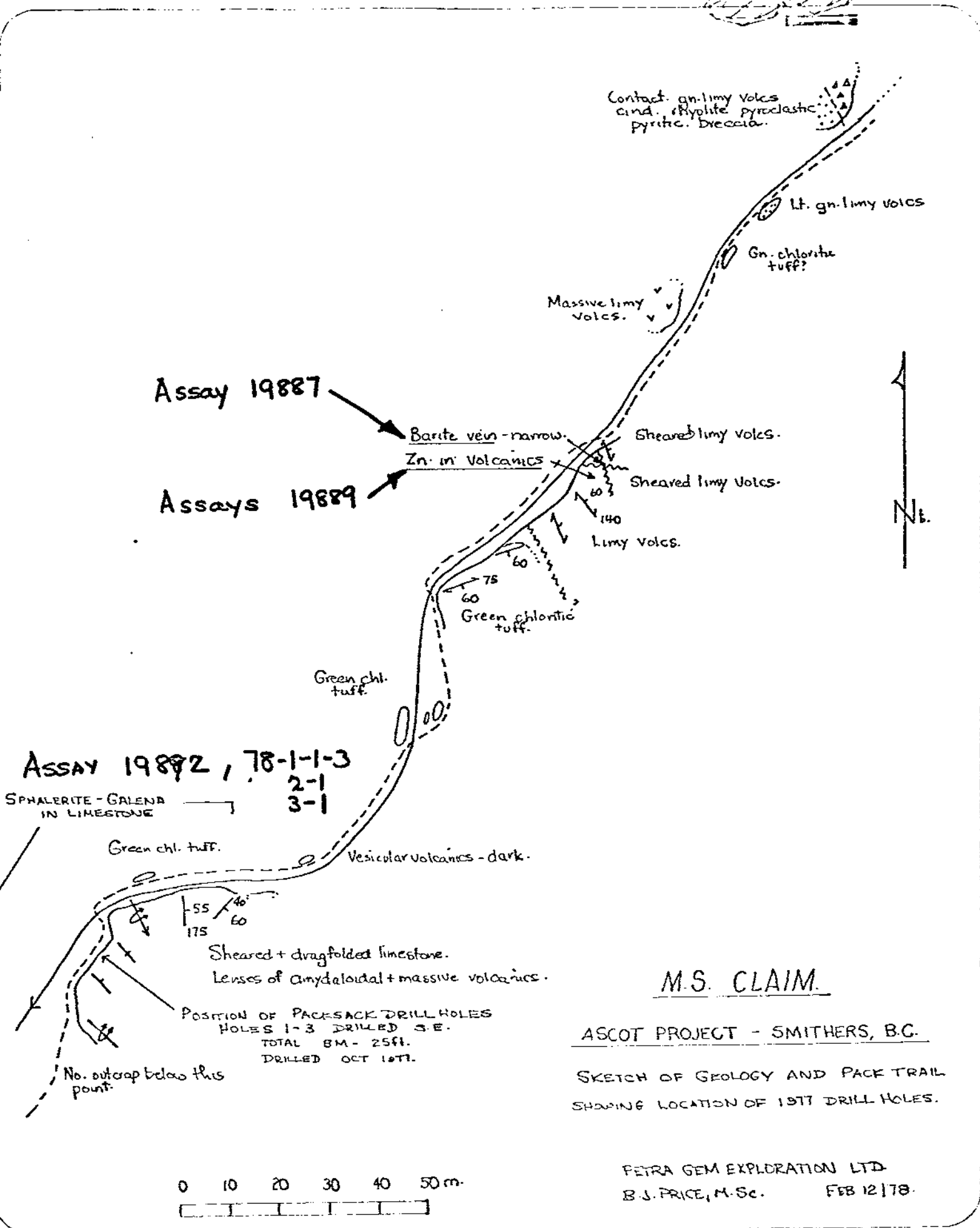
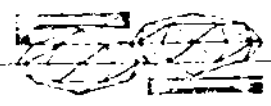


Figure 5



limestone with fragments of dark, hematitic, amygdaloidal andesite and wisps of buff to greenish volcanic ash (?). Sphalerite and galena in clots and fine specks are scattered throughout the core. Assays are shown on the following page. All core is stored in the company office in Vancouver. The holes were drilled southward, somewhat parallel to foliation, but bedding is very contorted here and cores cross cut some strata. Location of the holes is shown in figure 5.

D) Geology

Mapping done during trail cutting and drilling is shown in figure At the main showing, mineralized limestone is underlain by dark greenish strongly altered tuff, consisting now of chlorite and epidote. In probable fault contact are light green limy volcanic rocks which may be lithic tuffs or welded tuffs. The rocks, now predominantly chlorite and carbonate contain greenish disseminated sphalerite, and are cut by a fault zone containing barite and sphalerite. Approximately 240 meters above the M.S. showing the contact of the limy volcanics and a felsic breccia or "lahar" is seen in the canyon. The breccia has a fine matrix which contains pyrite and occasionally sphalerite. Fragments are dacitic or rhyolitic with quartz eyes and veinlets. Identical breccias occur to the south, presumably stratigraphically above the mineralized limestones. This significant rock type is similar to the breccias seen at many volcanogenic massive sulphide deposits, and major efforts should be made during the 1978 season to map the distribution of this unit.



1977 DRILLING ASSAYS

<u>HOLE 1</u>		<u>Pb%</u>	<u>Zn%</u>	<u>Ag (oz/T)</u>
78-1-1	1 ft. fine-grained limestone. Fine Sphalerite	0.13	1.46	0.38
1-2	2 ft. dark amygdaloidal to massive volcanics. Some limy sections and narrow qtz.-carb veins	0.01	0.03	0.12
1-3	3½ ft. Grey limestone -some volcanic fragments	0.01	0.03	0.09
<u>HOLE 2</u>				
78-2-1	11½ ft. Limestone with fine grey-green sphalerite. Several sections of amygdaloidal volcanics	0.02	1.60	0.35
<u>HOLE 3</u>				
	5½ ft. mixed limestone and volcanics. Fine grained grey-green sphalerite.	0.03	0.21	0.06



CONCLUSIONS AND RECOMMENDATIONS:

From the material examined to date from the M.S. Claim, the writer concludes that lead-zinc mineralization is of stratiform and volcanogenic origin, and is similar to "distal" type mineralization seen at other volcanogenic deposits. Rock types (i.e. the felsic breccia or agglomerate, and limy volcanics) are favorable; contacts of rhyolitic flows and argillaceous units are known from previous mapping, and dispersed galena and sphalerite are present in a thick dacitic tuff unit north of the M.S. claim (on the BYRON Claim). The writer recommends that mapping and sampling continue on the M.S. and adjacent claims to pinpoint targets worthy of diamond-drill holes.

Barry Price

BARRY PRICE, M.Sc.



BIBLIOGRAPHY

Assessment Reports 1702 A,B,C, 2139, 2140, 2141


Tipper, H.W. and Richards, T.A. (1976)
Jurassic stratigraphy and history of
north-central British Columbia.
GSC Bull. 270, 73p.

Price, B. J. (1972) Minor Elements in Pyrite.
Unpublished M.Sc. thesis.
University of British Columbia



APPENDIX I

COST BREAKDOWN



Employee Information

<u>Name</u>	<u>Dates Worked</u>	<u>Rate</u>	<u>Amount Paid or Claimed</u>
B. Price	June 18 July 10 Aug. 8 Oct. 25 - Nov. 2	\$150/day	\$ 1500.00
D. Price	Oct. 26 - Nov. 2	\$50/day + bonus	425.00
J. Hilchey	Oct. 26 - Nov. 2	\$50/day + bonus	425.00
K. Coswan	June 18, July 10	\$50/day	<u>100.00</u>

Rentals

Powersaw	8 days @ \$5/day	40.00
Truck	2 wks. @ \$157.82/mo.	78.91
Drills	2 @ \$10/day x 8 days	160.00
Camp	1 wk. @ \$200/mo	50.00

Transportation

Airfare	B. Price, Vancouver to Pr. George	90.00
	J. Hilchey, Vancouver to Smithers	138.00
Helicopter	Oct. 27 Inv. #21132	270.72
	Nov. 2 21138	203.54

Disbursements

Groceries	86.34
Propane	5.47
Gas & Oil	42.33
Motel 4 days @ \$22/day	88.00
Meals 8 mandays @ \$15/day	120.00
Drill bits 3 @ \$23.65 Inv. #265-7-7	70.95

<u>Assays</u>	Invoice No.'s 4205	156.00
	4261	35.00
	4281 part.	93.40
	4301	19.35
	4345	12.25

<u>Freight</u>	Invoice No. GO 10763	12.00
	TOTAL	<u>\$4,222.26</u>

Amount claimed - Statement of Exploration and
Development. March 22, 1978

\$ 1,800.00

Trail cutting	4 mandays @ \$50/day	200.00
Prospecting	4 days @ \$150/day	600.00
Drilling	23 ft.	300.00
Geology, mapping, sampling etc.		1,000.00

Barry Price

BARRY PRICE, M.Sc.



APPENDIX II

ASSAY DATA



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 988-2172
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Petra Gem Exploration Ltd.
 #200-3540 West 41st Ave.,
 Vancouver, B.C. V6N 3E6

Attention:

Report No: 78 72 001 Page 1 of 1
 Samples Arrived: March 9, 1978.
 Report Completed: March 14, 1978.
 For Project: --
 Analyst: E.T. S.C.
 Invoice#1867 Job#78012

Sample Marking	Pb %	Zn %	Ag oz/ton			
Ascot 78-1-1	0.13	1.46	0.38	} DRILL CORE		
78-1-2	0.01	0.03	0.12			
78-1-3	0.01	0.03	0.09			
78-2-1	0.02	1.60	0.35			
Ascot 78-3-1	0.03	0.21	0.06			
* Assay costs not included for assessment. BP.						

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REMARKS:

Signed:

% Mo x 1.6683 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VAN GEOCHEMICALS LTD
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

936-5211
 TELEPHONE: ~~222-2122~~
 AREA CODE: 604

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Petra Gea Exploration Ltd.,
 # 200 - 3540 West 41st Avenue,
 Vancouver, B. C. V6N 3E6

Attention:
 Mr. Barry Price

Report No: 77 01 013 Page 1 of 1

Samples Arrived: June 22, 1977

Report Completed: June 28, 1977

For Project

Analyst:

Invoice # 4205 Job # 77-062-1

Sample Marking	Pb %	Zn %	Ag oz/ton	Au oz/ton	Ba %	
19885	0.006	0.021	0.029	trace		C77-6, 18-2
86	0.003	0.022	0.029	trace		C77-6, 18-4
87		1.330			0.013	Ascot, Barite w Zn stain
88	0.114	0.885	0.116			LST - Zn stain
89	0.013	1.200	0.029			Ascot, Altered Volca w py Zn stain
90	0.115	0.670	trace	trace		Ascot, Hole 1, 0-50' grab
91	0.010	0.023	0.029			Ascot, Hole 1, Box 5, 105-130' Black phylite grab
19892	0.147	1.620	0.174			77-6-18 LST #1
Driftwood # 1	0.003	0.030	0.029			30 E 630' N
Driftwood #2	0.003	0.068	0.812			Upper trench RX' Aeritized volca L' bands?

SCOT

MAXIM PRINTING LTD

REMARKS:

Signed:

• Mn = 1.6683 % MnS, 1 Troy oz./ton = 34.28 ppm, 1 ppm = 0.0001%, and none detected ppm = parts per million
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.
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 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

506-5211
 TELEPHONE: ~~XXXXXX~~
 AREA CODE: 604

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-IN ACCOUNT WITH-
 Petra Gem Exploration Ltd.,
 # 200 - 3540 West 41st Avenue,
 Vancouver, B. C. V6N 3E6
 Attention:
 Mr. Barry Price

Report No: 77 72 008 Page 1 of 1
 Samples Arrived: August 11, 1977
 Report Completed: August 17, 1977
 For Project: Bar
 Analyst:
 Invoice # 4301 Job # 77-140-3

Sample Marking	Cu ppm	Ag ppm			
1	14	1.0	Soil	} ASCOT BAR I	
2	58	0.8	Soil		
3	26	0.8	Soil		
4	43	0.8	Soil		
8-8-77-5	88	2.8	Zn close by Soil	} ASCOT	
6	30	1.0	Soil		
7	75	1.6	Soil		
1	4700*	26.0*	high grad Cu stn (Rock)	} BAR I	
2	2900*	20.0*	chip 3m (Rock)		
3	1000*	7.2*	Grab (Rock)		
4	350	5.4	Grab (Rock)		
	20	3.6	LST Grab (Rock)	} ASCOT	
	33	1.4	altered amyg volcs ASCOT (Rock)		
	55	1.4	ASCOT Daste Lap Tuff (Rock)		
	86	4.8	ASCOT upper Zn occurrence (Rock)		
					Pb Zn
8-8-77-5					70 100
- 6					40 108
- 7					215 119
Lst					36 2500
Alt amyg					45 202
Ascot					43 253
Ascot					580 5800

REMARKS: *Samples have been repeated for analysis and checked O.K.

Signed:

% Mo x 1.0683 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

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 TELEPHONE: 0007777
 AREA CODE: 604

ASCOT

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Petra Gem Exploration Ltd.,
 # 200 - 3540 West 41st Ave.
 Vancouver, B. C. V6N 3E6
 Attention: Mr. Barry Price

Report No: 77 72 005 Page 1 of 4
 Samples Arrived: August 4, 1977
 Report Completed: August 9, 1977
 For Project: Ascot
 Analyst:
 Invoice #4281 Job #77 - 124

Sample Marking	Pb ppm	Zn ppm	Ag ppm			
AS - 77 - 3Rx	42	44	1.6	Rock	ROAD	TRAVERSE
AS - 77 - 26Rx	49	178	1.1	"	# 4 -	14
AS - 77 - 1200Rx	20	92	0.9	"		
AS - 77 - 2150Rx	21	138	0.6	"		
AS - 77 - 4S	31	224	1.2			
5	20	115	0.8			
6	29	207	1.0			
7	28	181	1.0			
8	21	102	0.7			
9	26	134	0.8			
10	27	150	0.9			
11	32	177	0.8			
12	21	85	0.9			
13S	37	334	0.8			
14	35	263	0.8	Silt		
15S	24	98	0.8		LINE PARALLEL CREEK	
16	34	163	0.8		DN S. SIDE TOWARD	
17	25	133	0.7		CAMP.	
18	21	223	0.6			
AS - 77 - 19S	23	150	0.7			
AS - 77 - 20S	23	144	0.6			
21	25	192	0.8			
22	27	241	0.8			
23	27	153	0.7			
AS - 77 - 24S	38	255	0.8			
AS - 77 - 24 + 35	34	168	0.8	Silt		
AS - 77 - 25S	27	217	1.2	rocky clay till		
AS - 77 - 26S	29	227	0.8			
27	23	138	0.6			
28	32	163	0.8			
29	27	147	0.8			
30	20	225	0.9			
31	32	129	1.2			
AS - 77 - 32S	22	103	0.7			

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REMARKS: copy to Barry Price, General Delivery, Smithers, B.C. V0J 2N0

Signed:

g Mo x 1.5533 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB. LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: ~~XXXXXX~~
 AREA CODE: 604-986-5211

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Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Petra Gem Explorations Ltd.
 #200 - 3540 West 41st. Avenue,
 Vancouver, B C V6N 3E6

Attention: Mr. Berry Price

Report No: 77 72 009 Page 1 of 1
 Samples Arrived: Sept. 7, 1977
 Report Completed: Sept. 8, 1977
 For Project: ASCOT
 Analyst: ET, SC.

Invoice # 1345 Job # 720126

Sample Marking	Pb ppm	Zn ppm			
8-8-77-5	70	100			
6	40	108			
8-8-77-7	215	119			
LST Grab	36	2500			
Altered Amyg. Volco	45	202	ascot		Rock
Ascot Date lap Tuff	43	253			"
Ascot upper Zn Occur.	580	5800			"

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REMARKS:

Signed:

1 Troy oz. = 31.1035 gms. 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million

All values are considered to be correct to the best knowledge of the analyst based on the method and instruments used.