

82 - 293 - 10361

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REPORT ON DIAMOND DRILLING

on the

BOB 1, BOB 2, BOB 3, BOB 4, BOB 7, HAWK and HAT CLAIMS

LIARD MINING DIVISION

NTS 94K/4W

Latitude: 58°01'N

Longitude: 125°50'W

by

R.J. Cathro

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

for

GETTY CANADIAN METALS, LIMITED (Owner)

and

GATAGA JOINT VENTURE (Operator)

Submitted January 7, 1982

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

10,361
NO

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LIST OF CLAIMS

<u>Claim</u>	<u>Record Number</u>	<u>Number of Units</u>	<u>Record Date</u>
Bob 1	289	12	April 28, 1977
Bob 2	290	20	April 28, 1977
Bob 3	291	20	April 28, 1977
Bob 4	292	16	April 28, 1977
Bob 7	295	6	April 28, 1977
Hawk	285	12	April 20, 1977
Hat	976	18	September 17, 1979

REPORT ON DIAMOND DRILLING
on the
BOB 1, BOB 2, BOB 3, BOB 4, BOB 7, HAWK and HAT CLAIMS

Introduction

The Bob 1-4, Bob 7 and Hawk claims were staked in 1977 by Gataga Joint Venture in the name of Welcome North Mines Ltd. to cover a possible strike extension of stratiform lead-zinc mineralization on the nearby Driftpile Creek property (P, D, and Goof claims). The Hat claims were added in 1979. Gataga Joint Venture (GJV), formed in 1977 to explore for lead-zinc in northeast British Columbia, is a syndicate composed of Aquitaine Company of Canada Ltd., Chevron Canada Limited, Getty Mines Limited, Welcome North Mines Ltd. and Castlemaine Exploration Ltd. The Bob 1-4, Bob 7, Hawk and Hat claims are part of a larger group whose ownership was transferred to Getty Canadian Metals, Limited. The program was managed by Archer, Cathro & Associates (1981) Limited and was directed in the field for the fifth successive season by R.C. Carne.

Diamond drilling in four holes (81M-1 to 81M-4) was carried out between July 1 and July 21, 1981. Diamond drill core resulting from the program is stored in permanent core racks located 7 km to the northwest of the property on the D, P and Goof claims at Driftpile Creek.

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Location and Access

The Bob 1-4, Bob 7, Hawk and Hat claim group is located about 12 km northwest of Gataga Lakes on NTS map sheet 94K/4W (Figure 1). The centre of the group is located at latitude 58°01'N and longitude 125°50'W.

Access is by float-equipped, fixed-wing aircraft from Watson Lake, Yukon Territory, about 310 km to the northwest, to Mayfield Lake and by helicopter from



Figure 1: Location of Bob 1-4, Bob 7, Hawk and Hat claim group.

that point to the property. Fuel and camp supplies used for the 1981 program were trucked 300 km from Watson Lake to Muncho Lake (km 747 on the Alaska Highway) and ferried 100 km during mid-April, 1981 by ski-equipped, single Otter aircraft to a winter airstrip located about 15 km north of the claim group. Field work was conducted with a helicopter supported program based at a permanent field camp located on Driftpile Creek, about 7 km to the northwest.

Stratigraphy

The Gataga Lakes area lies within Kechika Trough, a southeasterly extension of the much larger Selwyn Basin. Sedimentary rocks range in age from Cambrian to lower Mississippian. Prior to upper Devonian, easterly derived clastic sedimentary assemblages reflect normal sedimentation patterns while the westerly derivation of upper Devonian to Mississippian sedimentary rocks resulted from block faulting and uplift along the continental margin. Regional stratigraphic relationships are summarized on Figure 3. Geology of the area is shown on Figure 4.

Upper Devonian siliceous and pyritic black shales are host to numerous stratiform barite and barite-lead-zinc deposits in the area, notably those at Driftpile Creek some 7 km along strike to the northwest and at the GJV Bear claim, located about 2 km southeast.

Diamond Drilling

Diamond drilling on the GJV Bob claims was undertaken during the 1981 field season to evaluate a moderately intense lead-silver soil geochemical anomaly that is 1.5 km long and elongated in a northwesterly trend. The soil anomaly, in turn, coincides with a linear vegetation anomaly consisting of a grassy, treeless meadow within the predominantly forested area. Four holes drilled

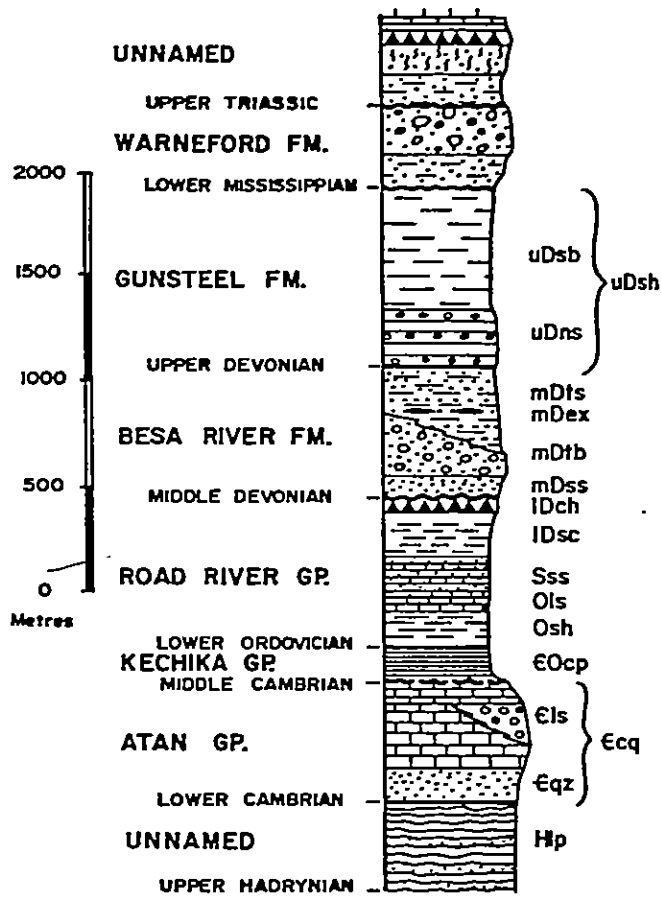


Figure 2: Generalized stratigraphy, Gataga Lakes area.

into the central one kilometre of the zone failed to discover significant mineralization. Locations of the drill holes are shown on Figure 4, while drill logs with assays are given in Appendix III. Diamond drill cross-sections are shown in Figures 5 to 8. A summary of the drilling is given below in Table II:

TABLE II - SUMMARY OF DIAMOND DRILLING

<u>HOLE</u>	<u>AZIMUTH</u>	<u>INCLINATION</u>	<u>ELEVATION</u>	<u>SIZE</u>	<u>DEPTH</u>
81M-1	065°	-65°	1406 m	NQ	152.0
81M-2	065°	-65°	1421 m	NQ	154.2
81M-3	065°	-58°	1444 m	NQ	158.5
81M-4	065°	-63°	1480 m	NQ	140.2

Drill holes 81M-1 to 81M-4 intersected an elongate horizon of very siliceous shale and pyritic cherty black argillite correlated with Map Unit uDch. Thickness variation of uDch suggests a localized development of the unit within the limits of the geochemical anomaly. A maximum stratigraphic thickness of 45 m was encountered in Hole 81M-3 while Hole 81M-1, located 685 m northwest along strike, intersected a 12 m true thickness of uDch. Hole 81M-3 cut a 5.0 m thick zone of bedded pyrite, blebby barite and cherty argillite immediately below uDch. This zone, correlated with Horizon TH, returned only trace values of lead and zinc. The interval from 139.3 m to 141.7 m assayed 45 ppm Pb, 10 ppm Zn and 0.7 g/t Ag. A central massive pyrite zone, intersected between 141.7 m and 143.9 m, returned values of 45 ppm Pb, 0.38% Zn and 5.4 g/t Ag. The underlying baritic interval to 148.1 m assayed 80 ppm Pb, 0.33% Zn and 0.6 g/t Ag. Similar mineralization is not present in adjoining areas of drilling, suggesting a very limited size potential for TH.

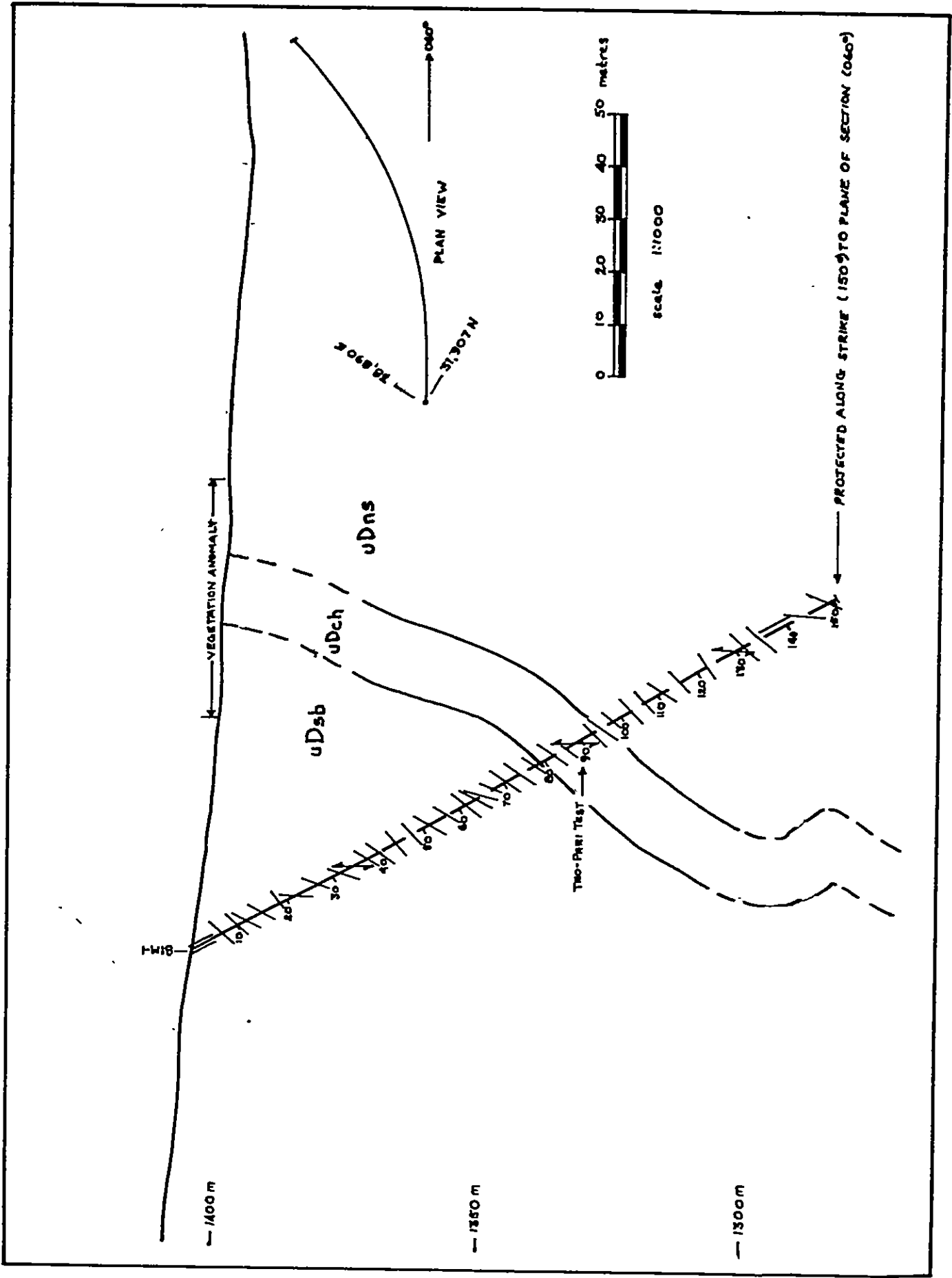


Figure 5: Cross-section, Hole 81M-1

Figure 6: Cross-section, Hole 81M-2

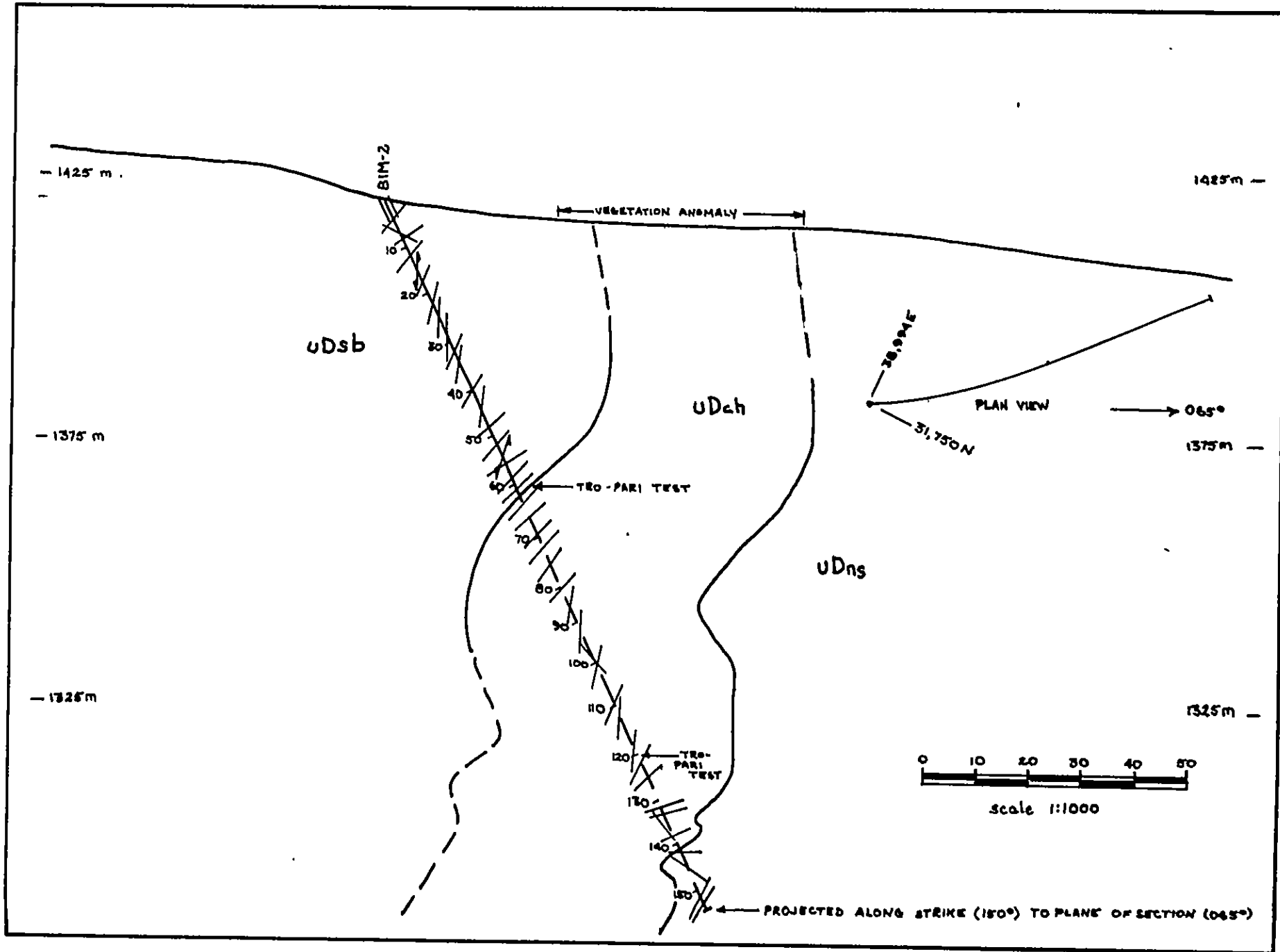


Figure 7: Cross-section, Hole BIM-3

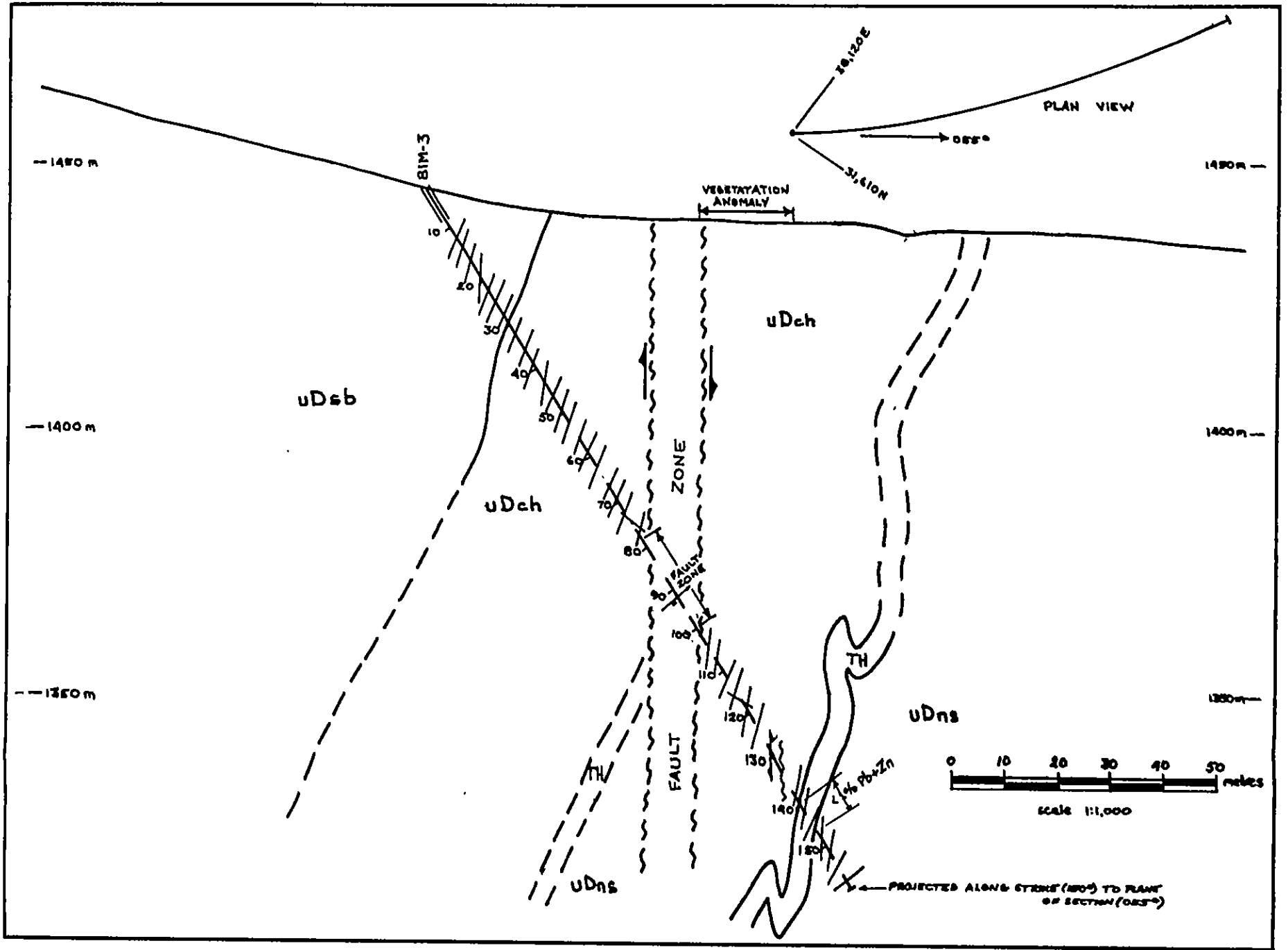
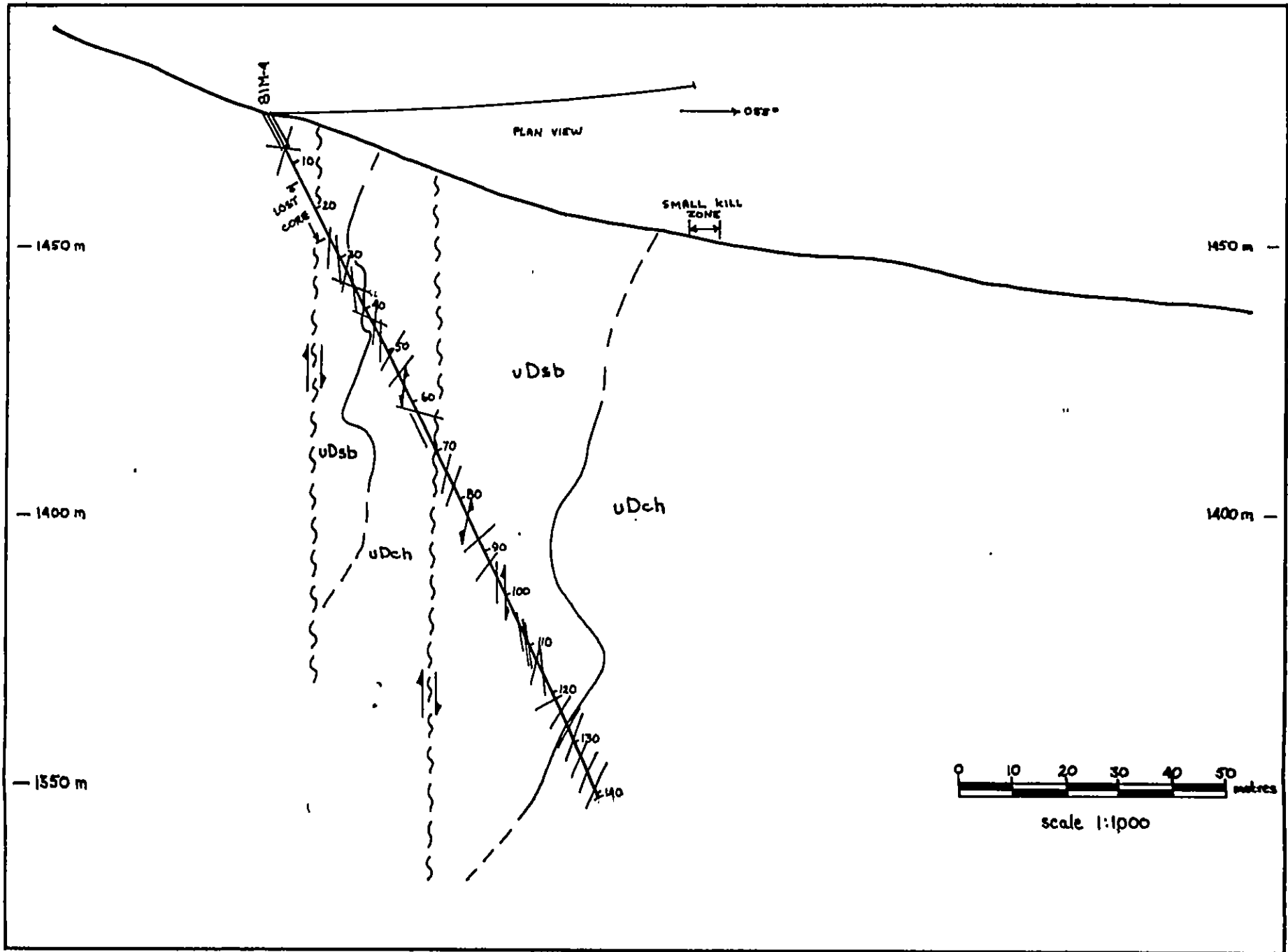


Figure 8: Cross-section, Hole 81M-4



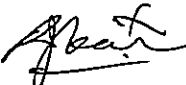
Conclusions and Recommendations


Diamond drilling on the Bob claims was undertaken in 1981 to determine the source of high lead soil values in the area. A 5.0 m thick zone of weakly mineralized baritic and pyritic rock was encountered in one hole only.

The source of the lead soil anomaly is not explained by the pyritic mineralization. Overlying cherty rocks are commonly galena-bearing on the nearby Bear claim and the D, P and Goof claims. In view of the extremely poor core recovery from this unit in Holes 81M-1 to 81M-4 (less than 60%), it is probable that minor amounts of lead and silver mineralization were present but not recovered by the drill program. No further work is recommended at the present time.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED,


R.J. Cathro



A circular professional seal for R.J. Cathro, a Professional Engineer in the Province of British Columbia. The seal features the text "PROFESSIONAL OF R.J. CATHRO BRITISH COLUMBIA ENGINEER" around the perimeter.

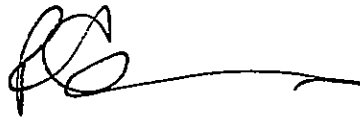
/jm

APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, geologist, with business and residential addresses in Vancouver, British Columbia, hereby certify that:

- 1) I graduated from the University of British Columbia in 1974 with a B.Sc. and in 1979 with an M.Sc. majoring in Geological Sciences.
- 2) I am a member of the Geological Association of Canada.
- 3) From 1974 to the present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory.
- 4) I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



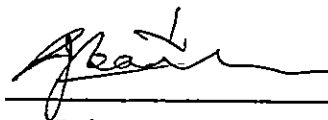
Robert C. Carne

APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Robert J. Cathro, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia, and residential address in West Vancouver, British Columbia, do hereby declare:

1. I am a 1959 graduate of the University of British Columbia in geological engineering.
2. I have been engaged in geological engineering for over twenty years, the past fifteen of which have been as a consultant.
3. I am a registered professional engineer in British Columbia and in Yukon Territory.
4. I have supervised the work described in this report.



Robert J. Cathro

SUMMARY OF COSTS

on work performed on the

BOB 1, BOB 2, BOB 3, BOB 4, BOB 7, HAWK and HAT CLAIMSSalaries and Wages

R.C. Carne (Geologist) Supervision and core logging	July 5, 15-17, 19-21 7 days @ \$230/day	\$1,610.00	
M.P. Phillips (Geologist) Supervision and core logging	July 6-9 4 days @ \$230/day	<u>920.00</u>	
			\$ 2,530.00

Camp Maintenance

Includes fixed-wing and helicopter costs	101 mandays @ \$50/day		5,050.00
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Diamond Drilling

D.J. Drilling Co. Ltd., Surrey, B.C.

Direct Costs	604.9 m NQ @ \$75.13/m	\$45,446.14	
Indirect Costs (extra wages, drilling mud, consumable drill supplies and fuel)	604.9 m NQ @ \$60.00/m (est.)	<u>36,294.00</u>	
			\$ 81,740.14

Bulldozer (includes fuel costs on site)

John Deere 450C (leased from D.J. Drilling Co. Ltd.)	61.0 hrs @ \$65/hr		3,965.00
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Helicopter (includes fuel costs on site)

Northern Mountain Helicopters Ltd., Prince George, B.C. Bell 206B	39.7 hrs @ \$450/hr	\$17,865.00	
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Helicopter (cont'd.)

Shirley Helicopters Ltd., Edmonton, Alberta		
Bell 204	2.5 hrs @ \$1200/hr	\$ 3,000.00
Frontier Helicopters Ltd., Abbotsford, B.C.		
Bell 205	2.2 hrs @ \$1400/hr	<u>3,080.00</u>
		<u>\$ 23,945.00</u>
		\$117,230.14
<u>Report Preparation and Administration (@ 10%)</u>		<u>11,723.01</u>
		<u>\$128,953.15</u>

APPENDIX III

DIAMOND DRILL LOGS
HOLES 81M-1 to 81M-3

Project	NTS	Scale	Page of	Traverse
Sampler	Location, Target (words)		Sample Nos	
Date	photo no.	Cert. Nos		

STRUCTURES

MODERATE SHEARING

STRONG SHEARING, FAULT GOUGE

BRECCIATED

BRECCIA HEALED WITH QZ-CO₂ VEINS

VERY CONTORTED ROCK

QZ-CO₂ VEIN SWARMS

QZ-CO₂ VEIN INTERSECTIONS

GJV

DRIFTPILE PROJECT

DIAMOND DRILL CORE

VISUAL LOG KEY

JULY 19, 1979

LITHOLOGIES

THIN (<2cm) RADIOLARIAN CHERT OR CHERY ARGILLITE BEDS

THICK (>2cm) CHERY ARGILLITE BEDS

LOW-VERY SILICEOUS BLK SHALE

SLIGHTLY GRITTY BLACK SHALE

CALCAREOUS BLACK SHALE

BLACK LIMESTONE BEDS

BLACK SHALE WITH IRREGULAR PYRITE-CARBONATE-HYDROCARBON MASSES OR "SWEATS"

"TUFF" OR "TUFFACEOUS" SILTSTONE, OFTEN CALCAREOUS

MIN'D MASSIVE SULPHIDE OR BARITIC MINERALIZATION

NODULAR OR "BLEBBY" BARITIC SHALE

BARITE-SILICA CONCRETIONS OR "BEADS"

BARITE - BARUM(?) CARBONATE-CALCITE SEPTARIAN NODULES

UNIDENTIFIED CARBONATE MINERAL (PROBABLY CaCO₃) SEPTARIAN NODULES

CaCO₃ NODULES (BOUND BEDS?); LARGE (>4cm), SMALL (<4cm)

"BAUNDED", BLACK AND DARK GREY SHALE

THIN PYRITE LAMINAE (CONFORMABLE TO BEDDING); ~ EVERY 3-6 MM, - ~ EVERY 1-3 MM

BARITE

SPIRALERIE

THIS MINERALIZED BEDS IN OTHERWISE BARREN SECTIONS.

LEGEND

ATTITUDES (100/40 N)

SANDSTONE SILTSTONE

CONGLOMERATE

VOLCANIC

CHERT

SHALE

LIMESTONE DOLOMITE

INTRUSIVE

GOSSAN, MINERALS

SILT X SOL. ROCK

PAN Δ WATER O

DO NOT WRITE ON OTHER SIDE OR USE COLOURS

SPECIMEN SITE A, B, ...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS

DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED --- INFERRED - - - ASSUMED - - -

ARCHER, CATHRO & ASSOCIATES LTD DAILY TRAVERSE REPORT

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 81 M/1

COORD.		DIP	AZIM.	ELEV.	SIZE	STARTED	COMPLETED	LOGGED BY													
VISUAL LOG	FOOTAGE		PRIMARY LITHOLOGY	SECONDARY INTERBEDS	% CORE ANGLE	CORE ANGLE		PYRITE		BARITE		CO ₃		OTHER	ANALYSES						
	Inter-section	True Depth				Bedding W	Structure E	Lam. Thickness	% Diss. Size	Bed. % Thickness	Bleb. % Size	Type % Size	Description		% Pb	% Zn	% Cu	oz. Ag	% Ba		
		METERS	S.O.S.	SOFT-WEAKLY SILICIOUS	20	40°/W.	50°/E.	DISC LAM	<0.5	DISS	TR	-	-	-	-						
	240	73.2	S.O.S.	QZ-CARBONATE FRACTURES-CALCS	<1	15°/W.	60°/E.	DIS LAM	<0.5	DISS	CO.5										
	260	79.3	S.O.S.	STRONG SIL-CHESTY BED IN PLACES	3	25°/W.	70°/W.	DIS LAM	0.5	DISS	CO.5	-	-	-	-						
	280	85.3	S.O.S.	SOFT BLACK SHALE AT 286 START DOL LMSN. BEDS.	3	20°/W.	60°/E.	DIS LAM	2	DISS	1	-	-	-	-	BEDS 20					
	295	90	S.O.S.	CHERTY SHALE.	16	30°/W.	55°/E.	LAM	5	DISS	<0.5	Bed	10	-	-	Bed	40				
	295.3	90	BLACK, NON-CALC STRONG-TENDING TO CHERTY SHALE	CHERTY SHALE BANDS	5	15°/W.	65°/E.	DIS LAM	1	DISS	<0.5	-	-	-	-	-					
	298.7	91.1	QUARTZ-CARBONATE SEGREGATING - 50% IL BEDS	SILICIOUS SHALE	50	40°/W.		LAM	1	DISS	CO.5	-	-	-	Sec	10					
	305	93	BLACK, STRONG SILICIOUS, NON-CALC MASSIVE SHALE	CHERTY BEDS SOFT SHALE	5	25°/W.	75°/W.	LAM	<1	DISS	<0.5	-	-	-	-	-					
	320	97.6	S.O.S.	BLACK SOFT SHALE	15	20°/W.	65°/E.	LAM	<1	DISS	<0.5	-	-	-	Bed	10					
	340	103.6	BLACK, MOD-STRONG SILICIOUS, NON-CALC SHALE, MASSIVE	BLACK SOFT SHALE - AV. 1-10CM. CALC SHALE	5	10°/W.	45°/W.	DIS LAM	<1	DISS	<0.5	-	-	-	Bed	2					
	360	110	S.O.S.	BLACK SOFT SHALE MOD. NARROW OCC. LIGHT SHALE BEDS.	3	15°/W.	50°/W.	DIS LAM	<1	DISS	<0.5	-	-	-	Bed	2					
	380	115.8	S.O.S.	WEAK-MOD SILICIOUS	2	15°/W.		DIS LAM	<1	DISS	<0.5	-	-	-	Bed	1.					
	400	122																			

4033
 251
 260
 4041

Possible Mylonite? Fault zone

10mm. Calc. shale

10mm.

3-5mm

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 81M/1

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE		PRIMARY LITHOLOGY	SECONDARY INTERBEDS	% CORE	ANGLE CH		PYRITE		BARITE		CO ₃	OTHER	ANALYSES						
	Inter-section	True Depth				Bedding W	Structure EW	Lam. Thickness	% Diss. Size	Bed. % Thickness	Bleb. % Size			Type % Size	Description	%	% ppt	% ppt	% ppt	% ppt
			S.O.S AOT O BLACK, MASSIVE CARBONACEOUS WEAK TO MOD SILICIOUS SHALE	CHERT BANDS TO 10MM. BLK CALC AND LIGHT GRAY CALC SHALE	2	40°W	55°E	PIU STRIP 1' 10.5MM	Diss 40.5 10.5MM	-	-	Bed 5 240MM A 10MM	BLACK CHERT 10MM	1						
	420	128	MOD-STRONG SILIC BLACK, CARBONACEOUS MASSIVE SHALE	SOFT BLK SHALE BLACK AND MOD GRAY NOD & BEDS (10MM) LMSN	10	5°W	60°E	PIU STRIP 2' 20.5MM	Diss 40.5 10.5MM	-	-	Bed Nod 3 10MM AU								
	440	134.1	BLACK, MASSIVE CARB. NON CALC SOFT SHALE.	SILICIOUS SHALE ASS. 5-0.5 FT WHITE QUARTZ SEC	5	15°W 10°W	60°W 60°W	PIU STRIP 1-2' 10.5MM	Diss 0.5 10.5MM 492-20MM NODULE	-	-	-								
	460	140.2	BLACK, MASSIVE, U CARB, NON CALC SOFT-WEAKLY SILIC SHALE	WEAK-MOD SILICIOUS SHALE 471-473-92 BRN	3	≈ 11CA	≈ 11CA	PIU STRIP 1' 10.5MM	Diss 0.5 10.5MM	-	-	Nod 4.5 CHERT-(E-2) QUARTZ 3MM								
	480	146.3	ENT 100 BLACK, MASSIVE MOD-STRONG, SILICIOUS MASSIVE SHALE NON CALC	DEGREEY CHERT 10V 10MM; SOFT BLACK SHALE - 5%	2	40°W 45°W 45°W	60°W 45°W 65°W	PIU STRIP 1' 10.5MM	Diss 40.5 10.5MM	-	-	Nod 40.5 5MM								
	END	499	152.1																	

uDel
407

uDas

461
HYDRATE
465
95°

485
HYDRATE
492

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 81M-2

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE		PRIMARY LITHOLOGY	SECONDARY INTERBEDS	% CORE	CORE ANGLE		PYRITE		BARITE		CO ₃		OTHER	ANALYSES					
	Inter-section	True Depth				Bedding W	Structure EW	Lam. Thickness	% Diss. Size	Bed. Thickness	Bleb. Size	Type	%		%	%	oz.	%	%	%
			cherty blk ARGL 710cm intervals	mod. v. sil variably calc blk SHALE, slightly gritty	10	63/vert		LAM Tr												
	400.0	121.9	SOS	SOS dec d/s	5	21/w 05/w	SS/	LAM Tr						LOST CORE 417'-426' 50% CR 407-417'						
	420.0	128.0	SOS	SOS	25	" 10/w/FLAT	SS/	LAM Tr						LOST CORE 432'-438'						
	440.0	134.1	variably non-sil to cherty non-calc to v. calc. ufg, carb blk SHALE	cherty blk ARGL < 4cm	05	12/w " E/B0 < CA 00/w		LAM Tr					BED 01 457.2- 457.6	LOST CORE 451'-455'						
	461.5	140.7	grey, ufg, v. siliceous LISN										BED 100							
	463.2	141.2	variably non to v. sil, calcareous, v. carb. blk SHALE calc dec d/s			24/w/loose E/B1 < CA		LAM Tr every 13 mm					BED Tr v. scattered < 3cm rare							
	480.0	146.3	SOS thick bdd. now non-sil			0/80 " E/55 "		LAM Tr					BED Tr							
	492.0	150.0	Grey, ufg, v. sil. LISN	v. sil, slightly gritty, mod calc blk SHALE, 400- 500'	20								BED 80							
	502.0	153.0		SOS	100	37/w		LAM Tr												
	506.0	154.2																		
			END																	

uDch
uDs

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 81M-3

COORD. $31,428^{\circ}N$ $39,135^{\circ}E$ DIP -63° AZIM. 055° ELEV. $1444^{\circ}M$ SIZE NQ STARTED 12/07/81 COMPLETED 16/07/81 LOGGED BY R.C. Carne

VISUAL LOG	FOOTAGE		PRIMARY LITHOLOGY	SECONDARY INTERBEDS	% CORE	CORE ANGLE α		PYRITE		BARITE		CO ₃		OTHER	ANALYSES						
	Inter-section	metres				Bedding W	Structure EW	Lam. Thickness	% Diss. Size	Bed. Thickness	Bleb. Size	Type	%		% ppm	% ppm	% ppm	oz. ppm	% ppm		
	0.0	0.0	CASING																		
	22.0	6.7	Low-mob. sil, vfg to slightly gritty, non-calc. blk SHALE	cherty blk ARGIL < 3cm	Tr	35/w		LAM Tr						25%							
	40.0	12.2	SOS	SOS < 10cm	Tr	38/w 40/w	55/	LAM Tr						50%							
	60.0	18.3	SOS	SOS	10	38/w		LAM Tr													
	80.0	24.4	SOS	SOS	10	34/sw 37/w		LAM Tr													
	93.0	28.3	CHERTY BLK ARGIL, med. blk vfg	v. sil, slightly gritty blk SHALE	10	40/w		LAM Tr				BED 5									
	110.0	33.5	SOS	2cm rad. cherty ARGIL	LS	32/w		LAM Tr				BED 10									
	130.0	39.6	SOS	< 1cm rad cherty ARGIL	Tr	37/w	65/	LAM Tr				BED 10		30% CR							
	150.0	45.7	SOS	SOS	Tr	38/w 50/w		LAM Tr				BED 10									
	170.0	51.8	SOS DEC D/S	v. sil to med sil, slightly gritty, low-mob. calc. blk SHALE	20	35/w 41/w		LAM Tr				BED 10									
	190.0	57.9	SOS	cherty carbon. DEC D/S.	05	38/w 38/w		LAM Tr				BED 10									
	198.0	60.4	SOS			33/w		LAM Tr				BED 05									

u/sb

u/dh

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 81M-3

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE		PRIMARY LITHOLOGY	SECONDARY INTERBEDS	% CORE	CORE ANGLE		PYRITE		BARITE		CO ₃		OTHER	ANALYSES					
	Inter-section	metres				Bedding W	Structure EW	Lam. % Thickness	Diss. % Size	Bed. % Thickness	Bleb. % Size	Type % Size	Description		%	% ppm	% ppm	% ppm	oz. ppm	Assay #
FAULT GOUGE			SHEARED SHAL & FAULT GOUGE				25		VEN Tr					55% CORE REC						
	340.0	103.6	v. carb, slightly gilly, non-sil, calc. blk SHAL			50/w			LAM Tr				BED 5	70% CORE REC						
	360.0	109.7	SOS	minor non-calc, v. carb, non-sil blk SHAL	01	37/w			LAM Tr				BED 5	80% CORE REC						
	380.0	115.8	v. carb, slightly gilly, non-sil, non-calc blk SHAL			50/w	60		LAM Tr				Bed Tr							
	400.0	121.9	SOS			50/w			LAM Tr				Bed Tr							
	416.0	126.8	SOS			45/w			SOS				4cm scattered							
	431.0	131.4	SOS			00/w			LAM Tr				Bed Tr	50% CORE REC						
	433.0	132.0	LOST CORE						"				" SOS	0% CORE REC						
	433.0	132.0	BADLY BROKEN & SHEARED											25% CORE REC						
	446.0	135.9	SOS cherty											28% CORE REC						
	457.0	139.3	cherty blk ARGL, med bdd, non. calc			48/w			LAM Tr				Bed 5	60% CORE REC	X	X	X	X		
	465.1	141.7	minor sl @ 469'	slightly calc cherty blk ARGL <10cm, scattered	25	47/w			3ED Tr				42cm 2nd							45 10 26 0.7 1953
	472.0	143.9	v. sil. to cherty blk ARGL dec d/s.	mod. sil gilly blk SHAL inc d/s	30	37/w			2 20cm sections				BLEB Tr	NO 25	X	X	X	X		45 3850 55 5A 1954
	486.0	148.1			40	43/w			4 6mm scattered				BLEB Tr	NO 20	X	X	X	X		20 3300 29 26 1955

u/dch

rip

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GJV-DRIFTPILE CREEK PROJECT: LOG DDH 81M-3

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE		PRIMARY LITHOLOGY	SECONDARY INTERBEDS	% CORE ANGLE CH		PYRITE		BARITE		CO ₃		OTHER	ANALYSES						
	Inter-section	metres			Bedding W	Structure E/W	Lam. % Thickness	Diss. % Size	Bed. % Thickness	Bleb. % Size	Type % Size	Description		%	% ppm	% ppm	% ppm	oz. ppm	% ppm	
			non-sil. to mod sil, Mod. congl, slightly gilly blk silty	v. sil. interbeds silty 2-4 cm scattered	10	4														
							55/w													
	500.0	152A	SDS	silty 4-1cm scattered	02	30/w														
							05/w													
	520.0	1585	END																	

uDas

GJV-DRIFTPILE CREEK PROJECT: LOG DDH 81M-4

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE		PRIMARY LITHOLOGY	SECONDARY INTERBEDS	% CORE	CORE ANGLE CH			PYRITE		BARITE		CO ₃		OTHER Description	ANALYSES					
	Inter-section					Bedding W	Structure EW	E	Lam. Thickness	% Diss. Size	Bed. Thickness	Bleb. Size	Type	%		% ppt	% ppt	% ppt	oz. ppt	% ppt	
~			cherty blk ARGL med-thin bdd	vert. slightly g. silty blk shale 2-3 cm rad. cherty ARGL	20	1-7/8 (ca)			LAM Tr				Bed 05	50% CORE REC							
~	210.0	64.0	SOS	SOS	10	11 ca			LAM Tr					40% CORE REC							
~	222.0	67.7	LOST CORE		10				"					0% CORE REC							
~	227.0	69.2	FAULT											10% CORE REC							
~	238.0	72.5	GLUC. F.																		
~	238.0	72.5	med-u. sil blk SHAL non-calc. med. emb.			50/w			LAM Tr					50% CORE REC							
~	268.0	81.7	cherty blk ARGL med-thin bdd			15/w			LAM Tr					20% CORE REC							
~	280.0	85.3	slightly gully non-silty non-calc med-u. carb blk SHAL			15/w	55		LAM Tr					50% CORE REC							
~	300.0	91.4	cherty blk ARGL med bdd	slightly gully non-calc, mod. silty blk SHAL, dec. silty	30	25/w			LAM Tr					25% CORE REC							
~	320.0	97.5	QZ-CA UCN SWARMS	cherty blk ARGL	20	65/w			Bed Tr					50% CORE REC							
~	340.0	103.6	SOS	SOS	10				Bed Tr	Diss Tr				60% CORE REC							
~	360.0	109.7	SOS	SOS	10				"	scattered 2.0 mm											
~	376.0	114.6	med-u. silty to slightly gully, u. carb blk SHAL	minor cherty intervals	05	E/80 (ca)	63		LAM Tr												
~	390.0	118.9				E/75 (ca)			comp 3.4 mm												

u/d: h
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 u/d: h?
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 u/d: h
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GJV-DRIFTPILE CREEK PROJECT: LOG DDH 81M-4

COORD. _____ DIP _____ AZIM. _____ ELEV. _____ SIZE _____ STARTED _____ COMPLETED _____ LOGGED BY _____

VISUAL LOG	FOOTAGE		PRIMARY LITHOLOGY	SECONDARY INTERBEDS	% CORE	ANGLE α			PYRITE		BARITE		CO ₃		OTHER	ANALYSES					
	Inter-section					Bedding W	Structure EW	E	Lam. % Thickness	Diss. % Size	Bed. % Thickness	Bleb. % Size	Type	%		Description	%	Pb	Zn	Cu	Ag
			slightly quartz, mod sil to non-sil, non-carb blk SHALE	minor cherty intervals < 3 cm	Tr	55/w		45/	LAM Tr						80% CORE REC						
	410.0	125.0	SOS vfg section	SOS < 1 CM	Tr	05/w		45/w	LAM Tr						90% CORE REC						
	430.0	131.1	SOS now mostly vfg			30/w		20/w	LAM Tr						90% CORE REC						
	443.4	135.1	massive, grey, siliceous LISN gradational lower part	overturned? basitic?		31/w							BED	LOS							
	446.2	136.0	vfg, non-sil, blk SHALE, mod. v. carb.			33/w		44/w	LAM Tr					BED Tr							
	460.0	140.2	END																		

uDb

uDef LISN MARKER

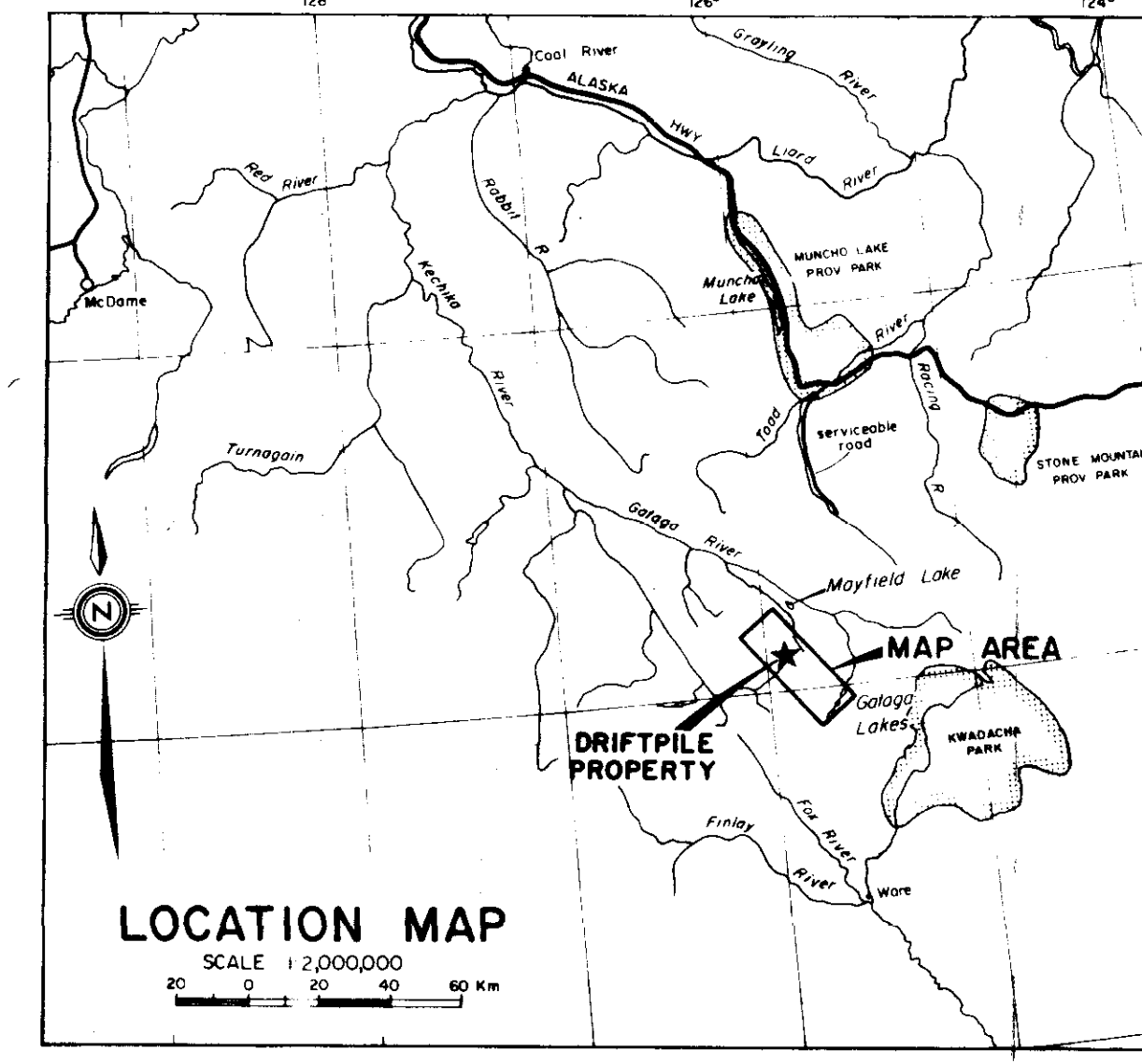
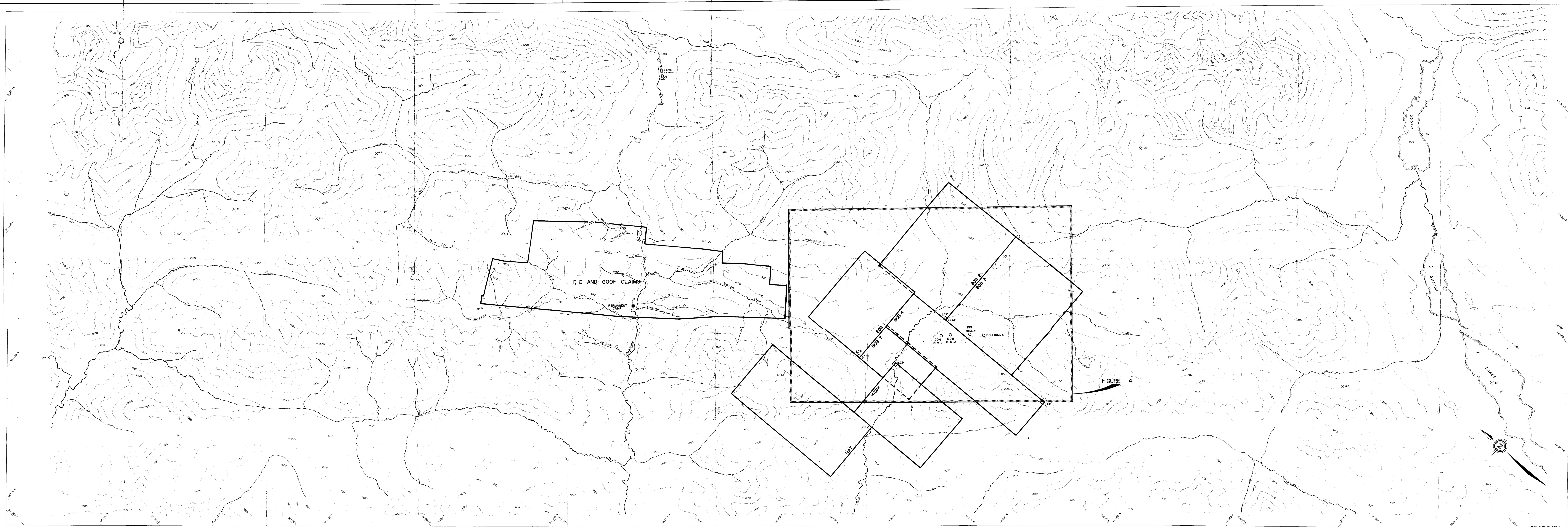


FIGURE 4

COMPILED FROM AERIAL PHOTOGRAPHY
 MAPS 5-6-67 AT A SCALE OF 1:25,000

10,361

FIGURE 2
 LOCATION PLAN
 BOB 1-4, BOB 7, HAWK AND HAT CLAIMS

GATAGA JOINT VENTURE
 SCALE 1:25,000

