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### REPORT ON DIAMOND DRILLING

on the

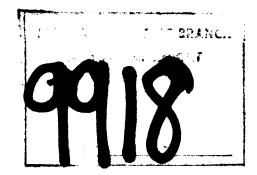
### BEAR and SI CLAIM GROUP

### OMINECA AND LIARD MINING DIVISION

NTS 94F/13W

Latitude: 57°58'N

Longitude: 125°48'W



by

R.C. Carne

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED,

for

GETTY CANADIAN METALS, LIMITED (Owner)

and

GATAGA JOINT VENTURE (Operator)

October 1, 1981

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### LIST OF CLAIMS

<u>Claim</u>	Mining Division	Record Number	Number of Units	Record Date
Bear	Omineca	666	20	July 11, 1977
Si	Liard	1154	18	December 10, 1979

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### REPORT ON DIAMOND DRILLING

#### on the

### BEAR AND SI CLAIM GROUP

### Introduction

The Bear and Si claims were staked in 1977 and 1979, respectively, by Welcome North Mines Ltd. on behalf of Gataga Joint Venture. They were subsequently transferred to Getty Canadian Metals, Limited in April,1981. The claims cover part of a northwest-trending belt of upper Devonian black shales which host lead-zinc mineralization in the nearby Driftpile Creek area on the P, D and Goof claims. Gataga Joint Venture (GJV) was formed in 1977 to explore for lead-zinc in northeast British Columbia, and is a syndicate composed of Aquitaine Company of Canada Ltd., Chevron Canada Limited, Getty Canadian Metals, Limited, Welcome North Mines Ltd. and Castlemaine Exploration Ltd. The program was managed by Archer, Cathro & Associates Limited and was directed in the field for the fifth successive season by R.C. Carne.

The claims were mapped in 1980 at 1:5000 scale to provide a basis for diamond drilling. Topographic control for the survey was established with the aid of a contoured orthophoto map produced from aerial photography flown by GJV in 1979. The 1981 drilling program was carried out between May 26 and June 7, 1981.

Previous work has consisted of geological mapping, stream sediment sampling, grid soil sampling and diamond drilling. Results of this work are summarized in a report submitted for assessment in November, 1980. Diamond drill core is stored in core racks located at a permanent camp located 15 km northwest of the property at Driftpile Creek.

#### Location and Access

The Bear and Si mineral claims are located 6 km northwest of Gataga Lakes on NTS map sheet 94F/13W. The centre of the group is located at latitude 57°58'N and 125°48'W. Access is by float-equipped, fixed-wing aircraft from Watson Lake, Yukon Territory, about 290 km to the northwest, to Mayfield Lake, located about 25 km northeast of the property. Access to the claims from the lake is by helicopter. The nearest large town, 210 km to the east, is Fort Nelson which does not have a float plane base. 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 at the headwaters of Driftpile Creek. Field work was conducted with a helicopter-supported program based from a permanent field camp located on Driftpile Creek, about 15 km to the northwest (Figure 1). Drill moves were carried out with a Bell 204 helicopter based at Finbow Airstrip, 80 km south-southeast of the property.

### Regional Geology

Regional and property geology, described in detail in a report submitted for assessment in 1980, is summarized in the following sections.

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 summaried on Figure 3.

- 3 -

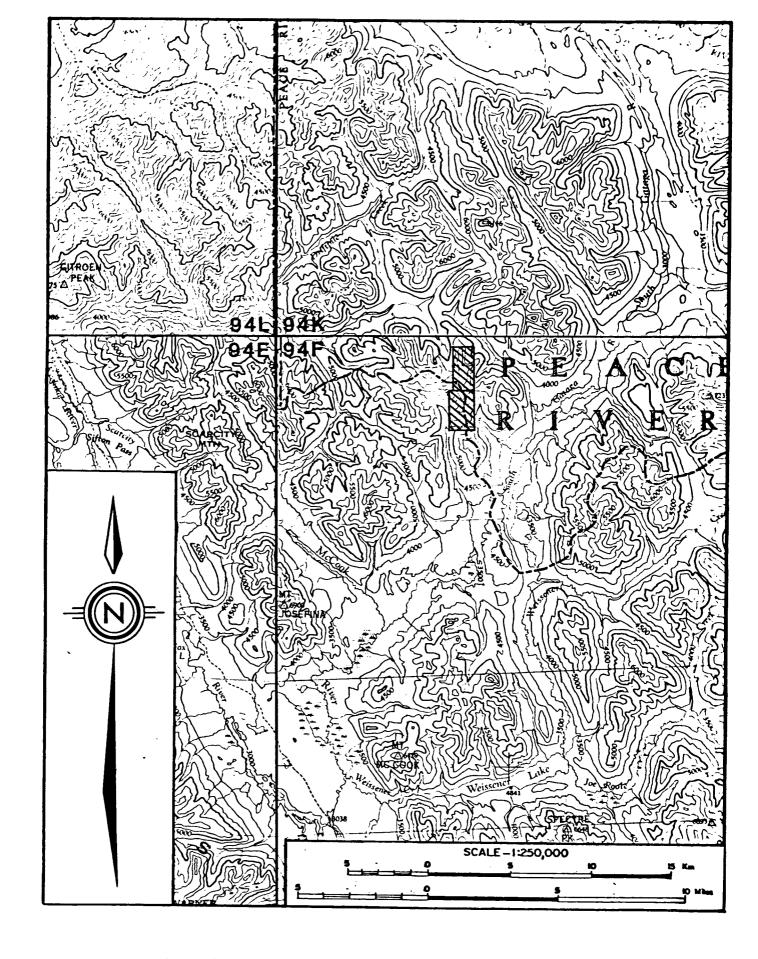
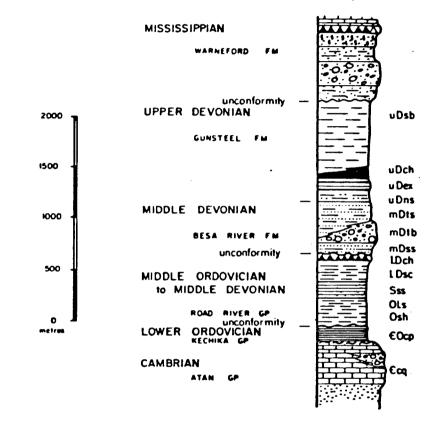


Figure 1: Location of the Bear and Si claim group

### MAP UNITS GJV CLAIMS



### FIGURE 3

ARCHER, CATHRO & ASSOCIATES LTD

# STRATIGRAPHY

GATAGA LAKES AREA

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Structural geology of the area is dominated by northwesterly-trending, easterly directed thrust faults. Pelitic sedimentary rocks within thrust sheets are complexly deformed into upright to slightly overturned isoclinal folds cut by numerous near-vertical shear zones. A penetrative axial plane foliation is commonly well developed. Structural geology is complicated by deformation initiated prior to deposition of middle Devonian clastic rocks above a pronounced unconformity.

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 15 km to the northwest and at Cyprus Anvil's Cirque claims, located about 110 km southeast of the area.

### Property Geology

Geology of the Bear and Si claims and surrounding area is shown at 1:5000 scale on Figure 4.

Oldest lithologies exposed in the area are Ordovician to lower Devonian pelitic rocks of the Road River Group (Map Units-Osh, Sss, lDsc and lDch). Medium to thick bedded calcareous black shale and mudstone of Map Unit Osh forms the basa part of the Road River section. An Ordovician age is assigned on the basis of poorly defined graptolite assemblages.

Orange-brown weathering, relatively resistant lithologies of Map Unit Sss form a distinctive marker horizon in the area. The Silurian age stratigraphic package is dominantly composed of dolomitic and ankeritic siltstone and silty mudstone with minor silty dolomite and cryptalgal laminated grey silty limestone.

- 4 -

Lower Devonian Map Unit 1Dsc occurs throughout the area although its thickness is extremely variable. The unit is primarily composed of carbonaceous, calcareous and non-siliceous black shale with lesser intervals of cherty black argillite with minor black chert successions.

Road River group is intermittently capped by a thin siliceous unit consisting of black and bluish black, thin to medium bedded chert with minor carbonaceous shale intervals (unit 1Dsc).

Middle Devonian lithologies of Besa River Formation (unit mDtb and mDss) unconformably overlie older rocks. Unit mDtb consists primarily of massive to thick bedded, very resistant chert pebble conglomerate and chert granule grit deposited as debris flows and proximal turbidites. Morphologies of channel deposits and paleocurrent indicators define an easterly direction of transport for the sediment. Coarse-grained proximal turbidites grade laterally very rapidly to thick bedded, gritty black mudstone and muddy siltstone (Map Unit mDss) probably deposited as terrace or levee deposits. Distal equivalents of proximal and lateral facies are represented by Map Unit mDts. Brown weathering, thick-bedded, gritty and fine grained mudstone and shale with thin interbeds of pyritic siltstone characterize the unit. Coarse, medium bedded intervals are scattered throughout the section.

Generally pyritic and fine grained, siliceous black shale of upper Devonian Gunsteel Formation conformably overlies coarser grained lithologies of Besa River Formation. Unlike older sedimentary units, facies changes within the formation are abrupt and bear no apparent relationship to regional trends. In simplest terms, the formation can be broken down into two members, Map Units uDns and uDsb, whose distribution is probably related to their physical environment of deposition. Discontinuous and irregular distribution of units uDch and uDex probably reflects their deposition as chemical sediments.

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Medium bedded, non-siliceous, slightly gritty black shale of Map Unit uDns forms the basal part of Gunsteel Formation throughout the Gataga District. A diagnostic feature of the member is the presence of 2 mm to 1 cm diameter, spheroidal nodules composed of silica, calcite and clay materials. Cross-bedded laminae or thin beds of a similar composition are sometimes associated with the nodules. Origin of these features is, at present, unknown but their mineralogy suggests possible derivation from water-lain tuffs in the north part of the district. Thickness of unit uDns varies from areas where it appears to be absent to over 200 m on the Bear claims.

Bulk of the Gunsteel Formation consists of medium to thick-bedded, siliceous and non-siliceous, carbonaceous black shale (unit uDsb). Stratigraphy within this member is very poorly defined because of the absence of identifiable marker horizons coupled with its generally recessive nature.

Distinctive lithologies of Map Units uDch and uDex always appear in close proximity to each other but relative ages of the two appear to vary within the district. Unit uDch consists of cherty argillite and black chert with siliceous shale partings. Thin beds of galena and sphalerite were also observed in drill core from this unit. Map Unit uDex consists of bedded barite and interbedded chert, cherty argillite, pyrite and nodular or blebby barite. Massive, pyritic sulphide deposits occur within this unit on the D, P and Goof claims at Driftpile Creek and on the GJV Bear claims. Silica, iron and barium content of uDex and uDch is thought to be derived from submarine hot-spring or exhalite activity during early deposition of the upper Devonian Gunsteel Formation.

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### Diamond Drilling

Diamond drilling on the Bear and Si claim group during June and July 1980 consisted of 817 m of drilling in five holes. The four mineralized intersections (Holes 80B-1 to 80B-4) were reported in detail in the 1980 report and will only be summarized here.

### TABLE I

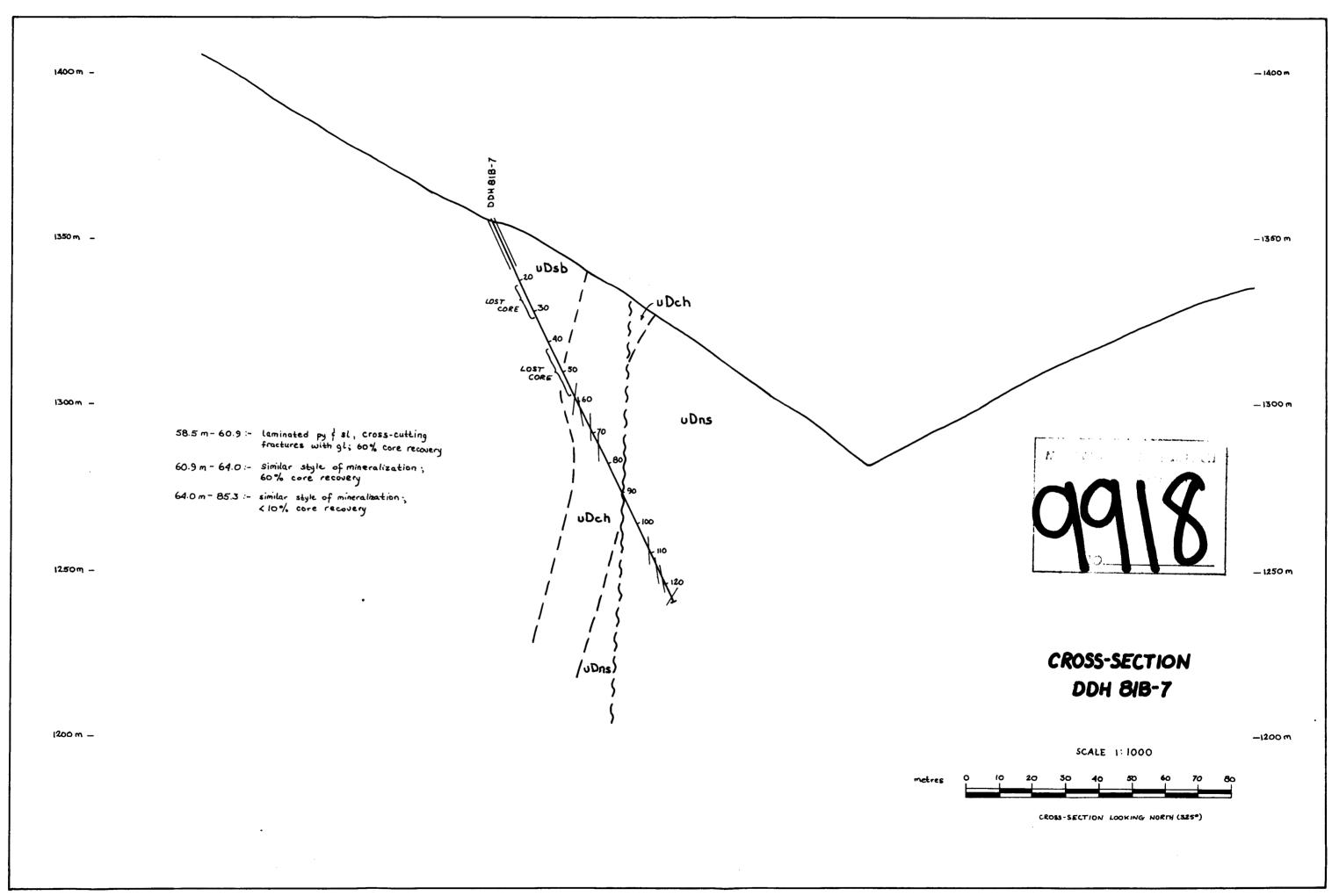
#### SUMMARY OF DIAMOND DRILLING

Hole	Depth	<u>Size</u>	Azimuth	Inclination	Elevation	Dip Tests	Date Collared	Date Completed
80B-1	128.5m	BQ	060°	-56.0°	1625m	-56.0°0119m		
80B-2 80B-3	152.5m	NQ	060°	-73.0° -53.5°	1625m	-73.0°@122m		
80B-3	130.8m 212.9m	NQ NO	056° 056°	-53.5°	1596m 1596m	-54.5°@129m -80.0°@152m		
80B-5	197.9m	NQ	057°	-62.5°	1549m			
81B-6	199.6m	NQ	055°	-65.0°	1494m	-58.0°@199m		
81B-7	125 <b>.</b> 9m	NQ	055°	-65.0°	1356m	-65.0°0125m	04/06/81	07/06/81

Detailed stratigraphy of holes 81B-6 and 81B-7 are given in the diamond drill logs (Appendix III). This information is summarized in diamond drill cross-sections given on Figures 5 and 6 on the following pages.

The main sulphide zone intersected in DDH 80B-1 and 80B-2 consists of an upper and lower body separated by an essentially barren two metre black shale interval. The upper part of the horizon consists of finely crystalline, bedded barite with interstitial sphalerite and galena overlying non-baritic massive bedded pyrite. This zone contains the best silver values (34.3 g/t over a 6.9 m true thickness) with combined lead and zinc grades between two and four percent. Silver values in the sulphide body decrease rapidly toward the base while overall lead and zinc grades do

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not show appreciable change. True thickness of the mineralized interval decreases down dip from 35 m at a vertical depth of 60 m in DDH 80B-1 to 25 m at a vertical depth of 180 m in DDH 80B-2 drilled from the same site.

Diamond drill holes 80B-3 and 80B-4 were drilled to intersect the mineralized horizon along strike 180 m southeast of the first two holes. Again two distinct mineralized intervals are present, separated by a barren black shale interval. The upper part of the pyritic mineralization grades 2.5% Pb+Zn and 0.5 grams/tonne Ag over a 10 m true thickness at a vertical depth of 65 m, and decreases rapidly down dip to a 0.9 m thickness at a vertical depth of 115 m that grades 2% Pb+Zn and 12.7 grams/tonne Ag. The lower interbedded pyrite and shale horizon averages 1.7% Pb+Zn and 0.5 grams/tonne Ag over 12.7 m in DDH 80B-3, thinning down dip to 6.5 m grading 1.5% Pb+Zn and 7.7 grams/tonne Ag in DDH 80B-4. Copper values are uniformly low (less than 50 ppm).

All four holes cut a variable thickness of hanging wall black chert and cherty argillite which is weakly mineralized. Mineralization here is non-pyritic and consists of sporadic 1-2 cm interbeds, veins and brecciafillings of galena, barite and sphalerite. Assay results were variable, ranging from 1.06% Pb+Zn and 5.4 g/t Ag over a 3.8 m true thickness to 3.79% Pb+Zn and 26.7 g/t Ag over a 4.2 m true thickness. Evaluation of this type of mineralization is difficult as core recoveries are generally less than 60% due to an extremely high fracture density in the rock.

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DDH 80B-5 was collared to intersect the mineralized horizon a further 100 m along strike southeast of DDH 80B-4 and DDH 80B-3. The hole was abandoned short of the target when the rods jammed in a fault zone.

DDH 81B-6 and DDH 81B-7 were collared along strike to the southeast of the 1980 drilling to test for potential extensions of the earlier mineralized intersections (Figure 4). DDH 81B-6 cut a faulted section, intersecting unit uDex between 179.7 m and 193.5 m, giving a true width of 9.0 m to the horizon. The weakly mineralized zone consists of interbedded non-siliceous and moderately siliceous black shale and cherty black argillite. Sulphide mineralization is weakly developed with only minor pyrite beds and traces of disseminated sphalerite occurring at the top of the interval. Nodular or "blebby" barite occurs as scattered stratiform concentrations throughout the interval. The mineralized interval, visually estimated at less than 1% Zn, was not assayed.

DDH 81B-7 was collared 730 m southeast, along structural strike, of DDH 81B-6. The drilling was designed to test a weak lead-silver soil geochemical anomaly in a heavily forested area which lies along the strike projection of the mineralized horizon. Unit uDex was not intersected, either having been faulted off or not present originally. Unit uDch, intersected between 58.5 m and 85.3 m depth is mineralized in a style similar to that observed in DDH 80B-1 to 80B-4. Thin (less than 1 cm) beds of pyrite and disseminated sphalerite in very carbonaceous cherty

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argillite and chert host rocks are cross cut by fracture and breccia fillings of sphalerite, quartz, barite, calcite, pyrite and galena. Only the interval from 58.5 m to 64.0 m was submitted for assay as core recovery in the interval 64.0 m to 85.3 m was less than 10%. Mineralization in the interval 58.5 m to 60.9 m assayed 1.48% Pb, 0.56% Zn, 33 ppm Cu and 7.0 ppm Ag (Figure6) while the interval 60.9 m to 64.0 m ran 1.30% Pb, 0.41% Zn, 35 ppm Cu and 5.8 ppm Ag.

### Conclusions and Recommendations

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Diamond drilling on the Bear claim was carried out during 1980 and 1981. Mineralization on the property in the form of massive bedded pyrite and barite with a weakly mineralized hangingwall chert was intersected at six locations over a strike length of 1.5 km. No economically significant grades of Cu, Pb, Zn and Ag were intersected. Mineralization intersected by diamond drilling satisfactorily explains geochemical anomalies discovered in the course of earlier surface surveys. No further work is recommended on the property.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

R.C. Carne.

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### 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

### SUMMARY OF COSTS

on work performed on the

### BEAR AND SI CLAIMS

between May 26 and June 9, 1981

Salaries and Wages

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R.C. Carne (Geologist) Drill site preparation Logging drill core	May 26 June 3,4			
D. Billard (Sr. Assistant) Drill site preparation	May 26-28 May 30	4 days @ \$	\$110/day 440.00	
B. Riehl (Jr. Assistant) Drill site preparation	May 28-30	3 days @ S	\$ 86/day 258.00	
L. Ramsay (Jr. Assistant) Drill site preparation	May 30	1 day @ S	\$101/day <u>101.00</u>	¢ 1 480 00

\$ 1,489.00

### Camp Maintenance

Includes fixed-wing aircraft costs 7 mandays @ \$ 50/day 350.00

Diamond Drilling

D.J. Drilling Co. Direct costs			@ \$67.25/m		\$21,889.88	
Indirect costs	camp suppor consumable	rt for dril drill supp	l crew,	(est)	26,040.00	\$47,929.88

Helicopter (includes fuel costs on	site)	
Northern Mountain Helicopters Ltd., Bell Jet Ranger 206B	Prince George, B.C. @ \$450/hr x 20.8 hrs	\$9,360.00
Shirley Helicopters Ltd., Edmonton, Bell 204B 2.3	Alberta @ \$1200/hr	2,760.00
		\$12,120.00
		\$61,888.88
Report Preparation and Administration	on	6,188.89
	TOTAL EXPENDITURES	\$68,077.77

APPENDIX III

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### DIAMOND DRILL HOLE LOGS

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TIL DU	-		1	"	100						CO.SCH		1	4	┟┯╌┖━		<u>∤</u>	┼──┸──	┼╾┸╼┥
	2300	70.1	ļ		RA			11			scattered								
2~22		1.0.1	sos	505 T	5	المحرجة مح							01						
	1	ļ	HALLOP FIT C -			63 5							Boto L.R.					1	
~~~	241.0	73.5	1	4E C BASE								<u> </u>					I	<u> </u>	┞━┯╼┫
2-1-2-3	-		SOS	505 Tr	II CA	53/	k				l	ļl		Ļ	l	᠆᠆᠆᠆			+-
A		71 -	4		SE SCA								OVERTURA	עפי					
	250.0	16.2		A		<b>4</b>						I	1			4	L	۱ <u> </u>	<u> </u>
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GJV-DRIFTPILE	CREEK	PROJECT:	LOG	DDH_818-6	

Page <u>3</u> of \_\_\_\_

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	COORD.			DIPAZII	M ELEV	SI	ZE	STARTE	D	C (	OMPLETE	)	- ιος		D BY_	الزجرة بالمتقصي			<u></u>	
	VISUAL	FOOT	AGE	PRIMARY	SECONDARY	CORE AN	IGLE CH	PYF	ITE		RITE	C03	OTHER				LYSE	-		
		Inter- section		LITHOLOGY			Structure	Lam. %	Diss. %	Bed. %	6 Bleb. % Ss Size	Type %		_	% ppr Pb	1% ppr	% ppr Cu			피
	<u></u>	Section		slightly arith.	SLSNJ, CREMO			Thickness	DISS Tr			Size	Descriptio			Zn		PA .	Ba	-
		-		slightly gritty, ned - The bld carb, non-sil, non-calc blk shar	scattered, gre	76	SA	┟╼╼╾┵╼━╸	IN SLSA	l		I	1			┝╼┹╌╴			╎┍┛╴	-
		21 - 0	70.0	Non-cale blk SHAI			Y													
	Statistics.	260.0	11.2	non-sil, v.carb	1) I	· * *	541	An Tr	DISSTA		NODTE									]
	00000	-		fg to slyith griby, medibad blk SHAL		<b>~</b> "		LANN IRREC	10 1		L Loca Bedded								1	
		270.0	82.3	J JOIK SHAL				icceg				 				<del> </del>		<del> </del>		4
i	10000	21010					531		AS Tr		NOT									
						50/FLAT			1.1		•									
		280.0	85.3		Fr		1		DSS Tr		AIDA TO	BEDOS	ł	<u> </u>		+				1
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			h	y "	E 86 eca	531	┟──┴──		<u>↓</u>		288.0-	1		┨━┺━	┼╼┸──	<u>1</u>	┨──┛──	<u> </u>	-
15	~~~~~			MINDR FLT	DKGYLISN	2-6 "	Y				м	288.0- 288.9								
		294.0	82.6			T 27/E MAT	174		DEST		NDDTO			Γ						-
	00000			505	sos -	nar	47			· · · ·	n	/_	1	·						
		310.0	045			10	<u> </u>			ļ						<u> </u>		<u> </u>		_
	000000		54.5	٩		5 19/2	481		DOS TO		NODTO	<u> </u>								-
				sos	Sos	05/0	17	ĺ	14	,									{	ſ
		320.0	97.5	}	scattered 0			<u>}</u> ;	DISSTE		NODTO	<u> </u>	TOPSUP	<u> </u>	<u> </u>	+	┼─┬─		<u> </u>	-
	20000			Sos	thele (cacin	<b>T</b> .	47/	┟╌╾╌┟──	1	┟──┴	1-0114	<b>}</b>	SANDCCAN	5	┟╼┈┻╼╍	<u> </u>	┟──┸──┈	┟╼╾┻╾╸	┼╌╾╀╼	-
		1200			SLSN	) og/w			n				324.2-324.	Ś						_
		330.0	100.6	Sos	505	F 26/W	STRENKITH		DESTE		NODT	-								_
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		340.0	103.6	- 	1	27 LCA	51		<u> </u>			<u> </u>		<u>.</u>		+			+	-
	200000	<u> </u>		Sos	505 1	11 CA	47/	<b> </b>	ASS Te	ļl.	MODITE	<u> </u>	4			$\left  - \right $	<u> </u>	<u>                                      </u>	<b> </b> _	-
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	000.00%	1 <u>360.0</u>	104.7		MINOR THE	F 13/w	49/		JSS Tr		J OON	BEDa								_
		ŧ.		505	(Laca) SLSA	57 /	7/		u		as 1	36605-								-
		370.0	112.8				<b>/</b>	-{;		<u> </u>	asbore	1-207.1		1	<u> </u>	<u> </u>	<u> </u>	<del> </del>	<del> </del>	-
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	1-1-1-1-1-1		ļ	MED-THICK	L4 HM SLS	34/0	4.9													
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COORD.			DIP AZI	M ELEV	SI	ZE	STARTED					LO		D BY_				
VISUAL	FOOT		PRIMARY	SECONDARY %		GLE CN	PYR			RITE	CO3	OTHEF		9/ h		LYSE		<b>%</b> 1977
LOG	section	metres	LITHOLOGY		W E		Thickness				Size	Description	_	Pb	<u>76 pp</u>	<u>/• ppn</u> Cu	Aq	<u>7. pp</u>
00000			non-sil caxp.	thin ( L. SentTe	39/20	521		DASS TE		NODTE								
HAT	390,0		non-sil carb. slightly grity med- ether bod non-car blkshar	thin (L. Sen) Te graded, gray See interbud	48/00			in Nod.		L. den beded								
00000	5 10,0	119.9	505	505 to		651		Q55 Tr		NODTO								
	4		ι,	17	27/FLAT	1		.t		.4								
100.00	400.0	121.9	२०४	SOS TO	18/2			USS Tr		NODT								
				schttereb c 4cm Beds,	13/2	591		14		11								
	410.0	125.0	SDS	SOS TO				DISSTE		NODTE								
			10	as above	10/15	501		.(		.1								
	420.0	128.0	5051	SOS T				Des Tr		NODITO								
0000			of mierbeds		2000	61		11		()			<b>L</b>			<b>1</b>		
	430.0	131.0	Sos	SOS T	39/w			US Tr		NONT								+
200 200 200			as above	" "	31/10			"	<b>H</b>	"	<u> </u>	•,	<b></b>	<b>!</b>	┥╌┸╌			<u> </u>
0000	440.0	134.1	Sos	<b>১৩৯ ট</b>	- 36/12			DISS Tr		NODTE							$\frac{1}{1}$	+
			asabove	· · ·	37/SW	581		11		11	l 		<u> </u>			<b> !</b>	<u> </u>	
11000 ~	45000	137.2	SOS	Sos I				DISSTr		NOUTO	BEDAS		T			<u> </u>		
1000			ce abour	FLT GOUGE BAS	100			••	· ·	<u> </u>	451.0-					<u> </u>	1	2
7122	460.0	140.2			1	EE 1	<u> </u>			NODT	451.9				+		<u> </u>	+
0000			505	sos L	44/00	55	┠━━┻╼╍┤	DISS Tr	l		<u> </u>			l	╉╌┻╌	┟╌╌┸╌╴	┨╌┛┛╍	┼╾┸╼╸
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0000			SØS	sos L	53/JERT	51/	┟╼╼╾┟	DISCITE		NOD +	L		Ц	┝──└──	<u></u>	┥ <u></u>	┨──┨──	┼╌└╴
	180 0	141.2	· · · ·		62/Jest	Y		۱۱		"								
0000	-00.0	140.5		Sos L	60/sect			Diss tr		NOD tr								
	4900	149.4	() 		63/vert			n		•								
LAP DO		1024	Sos.	sos L	- 41/w .		BEDTF	Dess Tr		NOD+								
1 Turney	500.0	152.4	•	N N			Amme ant			15								
	0.000	152.4									•					•		•

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		(	GJV	-DRIFTPI	LE CREE	K PR	OJE	CT:	LOG	DD	0H 817	B-6.			Paç	je _5	_ 0	f <u>6</u>
	COORD.			DIPAZI	M ELEV	<u> </u>	ZE	and the local division of the local division		C	OMPLETE	)	LOGO	SED BY_				
	VISUAL			PRIMARY	SECONDARY %	CORE A	IGLE C		RITE		ARITE	CO3	OTHER			LYSE		
	LOG	Inter-	metres	LITHOLOGY		Bedding	Structure						1	% % ppr			02.00	- <u>% ber</u>
		section	4		() ····································	W E		Thicknes			ss Size	Size	Description	РЬ	Zn	Cu	Aq.	Ba
	12.2.2.1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			nied to slightly	sisn heds, or graded, < 50m, scattered	44/2	701		DISST		╺┥───┤──	ļ	TOPS UP L			i	┝╍┷╸	$\downarrow$
•	71.5.2.2.2.			non-sil, mat.cont med to slightly gatty blk SNAL minur up this bed	scattered '	43/w	1	23 MM	INSLA	٢								
		510.0	155.5			46/0			Destr								$\vdash$	+
	~			Sos	$\infty$ S -	55/5		┟╼╾┻	1005110	·	┉┼╌╌╌┤╌╴	┟╼──┻──	l L	╺┝╌┖╴		┟╺┈┹──╌	┢┷┷	<u> </u>
	ૻૣ૽ૼૻૣ૾ૡ	518.0	1570	•	۱۰ ۱۰	55/w	•											1
-	FAULT	210.0	157.9	FAULT GOUGE														1
~~	ZONE			\$ highly sheared rock	_		ک	·····								·	<b>t</b>	+
		528.0	160.9		 		60		<u> </u>	_ <u> </u>	_			_				
	~~ ~~ ~~			vfg. v. carb, non-														
wsb		-		sil, non-cale blk SHAL, sating" textures		-al	160		1									
		5400	164.6	textured	 	54/100	7 60			- <u> </u>	···	<b> </b>		_ <b> </b>	ļ		┟━┅┯━╼	╇
				202		43/sw	621											
				ned to thick,		43/500		[		1								
1		550.0	167.6	SOS, NOW		4.3500				·		<u> </u>					┼╌┯━	╉╼╍┯╼╸
ĺ				Massive		-	60/	l	<u> </u>	┥──┴			l L					┿┷┷
							Y								( <sup>1</sup> )	1		
		2002	170.7	as above		$44/\omega$			1				·					+
							61/		<u> </u> t			<b>-</b>			<u> </u>	<b>!</b>	<u>├</u> ──┴──	+
		570.0	173.7	505	· · · · · · · · · · · · · · · · · · ·		V.			-								
				sos		4		l										
	~~~			as above			58}			1								
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	581.0	177.1		us bulled by	- 25/				╉╍╍┰╸								<del> </del>
<b>、</b> ,				Sos u.corp	intertects of 15 mod sil to dert	$\Delta = \frac{3}{\omega}$	561	BEDTr	ļl	<u> </u>		<u> </u>	Pyrobitumen _	╌┼──└─╸		<sup> </sup>	<b>↓</b>	┽┷┷╸
ulch !				-	blk ARGL 1-10cm	44/00		K6cm					- Sweets	ł		ļ		
-	11120000	589.6	119.7	Interbedded non- sil e nwd sil blk SHAL, 2.6 CM	u. sil to chady it	46/w			DISS TT-		Rebbs	BKb TF-	minier SL					+
uder				blk SHAL, 2.6	U. sil to charty				T BAR		flattered	- W	in BART	╌┼═╾┸╼╍		<u>_</u>	┟━┻━	+
		1000	182.9	<u>Cm</u>	blk ARGL	47/w			W ISHKI		ŀ'	PART	blebs				1	
	000000	600.0	102.2	505	Sos 10	43/w		BEDT	UST.	-	BKPOS	BlebTr	minter SL-					
	1000000					1 ,		23 cm scattered	- 1		( <sup>1</sup>	11	not e iem beds					1
		610.0	185.9			<u>60/w</u>		SVQ. HT HE	· · · · · · · · · · · · · · · · · · ·					_ <u>_</u>				<u> </u>
	200000			Sos	Sos P	46/0		<b>-</b>	DISSIT	<u> </u>	iBleb os		. L					┽╾┖╾
	00100000	1700			SUGNETLY CALL	40/w			1			U.						
		w10.0	189.0	<b></b>	•				•	. <b>.</b>		A	L		J			<b>L</b>

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COORD.		DIP AZI	LE CRE		SI	ZE	STAR	TED.		c	OMPLETE	D	LOC	GGE	D BY_				
VISUAL	FOOTAGE	PRIMARY	SECONDARY	%	CORE AN	IGLE CN	P	YRI	TE	BA	RITE	CO3	OTHER				ALYSE		
LOG	Inter- section	LITHOLOGY	INTERBED	S.	Bedding	Structure	Lam.	<u>%  </u> [	Diss. %	Bed. %	6 Bleb. %	Туре %					η % թթ		
		interbreid non-sil	intertreils of	01	50/.	<u>w e</u>		vesa	DISSTE	Inickne	sa Size	Blebtr	Descriptio		РЬ	Zn	- Cu	Ag	+
0 22		interbreid non-sil Anod. sil. blk SHAL, slocktly cake	U.SIL tochet	( <u>91</u>	50/00		<u>├</u>	-+	BART	┨───┛─	Spliered	The second	ł	L		┼╼┹╾	┥╼┹╾	+	┽┯
Zerenteinze	6300 192.0						<b> </b> ,									ļ	1	1	
2000000		Sos	Sos		ł		l	‡	DISS TO		BLEDO	36HT-							
					34/0				**										
	635.0 1939	non-sil, v. ento,		Τ		†	11		JUSS Tr		BONT	- Biel Tr				+	┼─┬─	+	+-
2000.000		MAN-sil v. emb. UG to slightly Denting these		·	a				" "	┟───┟─		1	• •	L		┼╾┺╾	╉╾┸╾	┼╼┸╼	+-
	645.0 196.0	- S. S. Marsha	\			ļ	ļ	_			"								
		J SAC	Į	L_	$\approx$	501			Des Tr		Beb Tr	Blootre							
					47/4	Y			r		••	•					1		
	655,0 199.1	END		T	<u> </u>		<u> </u>	-+-			+	<u> </u>		┍╼┥			+	+	┿
1		END				ļ	┟───┥		<u>I</u>	L	┽╾╍┸╍	╉━━━┻━━┥		└─┤		┟╌╌┛╌╸	┽╼┵╾	┽┈┸┈	+
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			G.IV	DRIFTPI	F CRF	F	K PR	OJEC	CT:	10	CG	DD	н б	317	3-7				_	Pag	е⊥	_0	of I
	COORD.	13016	É luni		M. <u>055</u> ° ELEV.」	35	56 m SI	ZE NQ	START	ED_	Alle	EL C	OMPLE	TED	67/04	<u>r</u>	LOGG	ED BY	_<	<u>2.C</u>	<u>. Co</u> .	me	<u> </u>
	VISUAL		TAGE	PRIMARY	SECONDARY	8	CORE AN		PY	RIT	Έ.	B <i>i</i>	ARITE		CO3	Ι ΟΤΗ	ER	1		ANA	LYSE	5	- 7 5
	LOG	Inter-	metres	LITHOLOGY	INTERBEDS		Bedding W E	Structure W E	Lam.j 7 Thickne	se D	ss. <u>%</u> Size	Bed.	<u>% Bleb.</u> ss Siz	e	Type 76 Size	Descri				Zn Zn	Cu	A g	Ba
																				T			
																							1
	υ,	0	0	CASING									_					+	-+-				
				OUBE BRIKEN										*		1	L.	+	-†-				
	1111	50.0	15.2	GROUND		!				+-		<del> </del>	_					+-	-			┝───	
				U. SOFT, UFG, U.CARB FRIABLE' BLK SHALE		L					l	<u>├</u> ────└				20%. C.R			-+-	-4		┼──┴─	-+
		67.0	204	SHALE	ļ					_			_					_	_			<u> </u>	
ς.	LOST		<u> </u>	LOST								<u> </u>				LOST	<u> </u>		_				$\square$
uQsb	-	107	2.01	CORE								1				CORE	-			1			
		107.0	32.6	Mod. sil, u.carb												20%		T				T	$+ \top$
		·		blk SHAL												C.R.							
		110.0	33.5	V. Sil. DIK SHAL	cherty blk	30			LAMT	= D	ec To			Ţ		10%. C.	2	+	+			+	
				v. sil. blk SHAL Thin-med bdd	ARGE				40.5		nutered	┟╾╾╾┸╸		┺╼╼┥		Tr. SI		+	┽			+	
-		137.0	41.8		CHRT				<u> </u>	+-		<u> </u> -							+				
	LOST			LOST					┝╌╌╾┻╌			┟╼═╾┸╸		┶╌┤		LOST		╌┼╾╌┶				┼╌┶	- <del> </del>
		192.0	58.5	CORE						_		 				CORD	_					1	
~ .				Cherty blk ARGE :	Lam pil sl, x-tutting gl +H(3)in QS		56/00	751	LAMIT					$\square$		60-7	c.eL					$\Box$	ŢŢ
uDeh		2000	60.9	CHRT	gl + HODin QE	7	75/00	V	20.5 cm	sc	allerd												
		120.0	60.9	505	505		ILCA.		LAM T	F D	55 Tr					60%	2		+		1		+
			<u> </u>	305			• = • •		"		11		_			Corr			Τ				
			64.0		505		1.1		LAN TO	1	ISSTr					210%			+			+	
		L		505	505		15/0			+	4	<u>_</u>		┶╾┦		210%		╶┨═╍┸	-+-				+
	~ ~	280.0	85.3	, SHEARED			<u> </u>											╶┼╾┯	_		<del></del>		- <del> </del>
~	2.2			SEPOKEN,			ł			+-		┝─────		┻┥			L					$\vdash$	+
	~~~	300.0		THULT Gaigi mod.v.sil						<u>_</u>								1					
	~~			61k Sypt ile. Ly Mitribdd ele. Ly blk ARC-L			,		<b>L</b>	_	517	<u> </u>		1			L	╉╼┸				μL	1L
_	~~	3/8.0	96.9	blk ARGL						`	rrig												
		01010	1.01	1																			

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m Dss?	/				Sections.		1 45		IN Fe-					60 /  C. 1	۲.					
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- <b>V</b>	ORCANE			az & SHAL	· · ·	· · ·								10% C.R	<b>.</b>					
	222-	121.0	36.9	non-sil, non-cale	chert (grey)		6.0%		DISET					=1 =		┝╼┯╾┥				
				ufg, carb Black SHAL	intervats -	1	RRI	┟╼╼╾┶───	ENRT				<u> </u>	50% c.z.	<b></b>		l	┟╌╾┸──	┟┈┵╼╴	╉╼┸╼┥
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LOG	Inter	metres				Structure	Lam. % Diss. Thickness Size		ed. %		Type % Size	Descript		<u>%</u> ррл Ръ	% ppn Zn	% ppn Cu		т <u>% р</u> ет Ва
74.000			mod. Gnily, non-sil, cash bike shal	FLT GOUGE	44/00		Bleb	tr		Blabter D Py		50% c						
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0000	1 10:0	57.9	now fine grand		44/00		Des	Тс		NODTO	1	TOPS						
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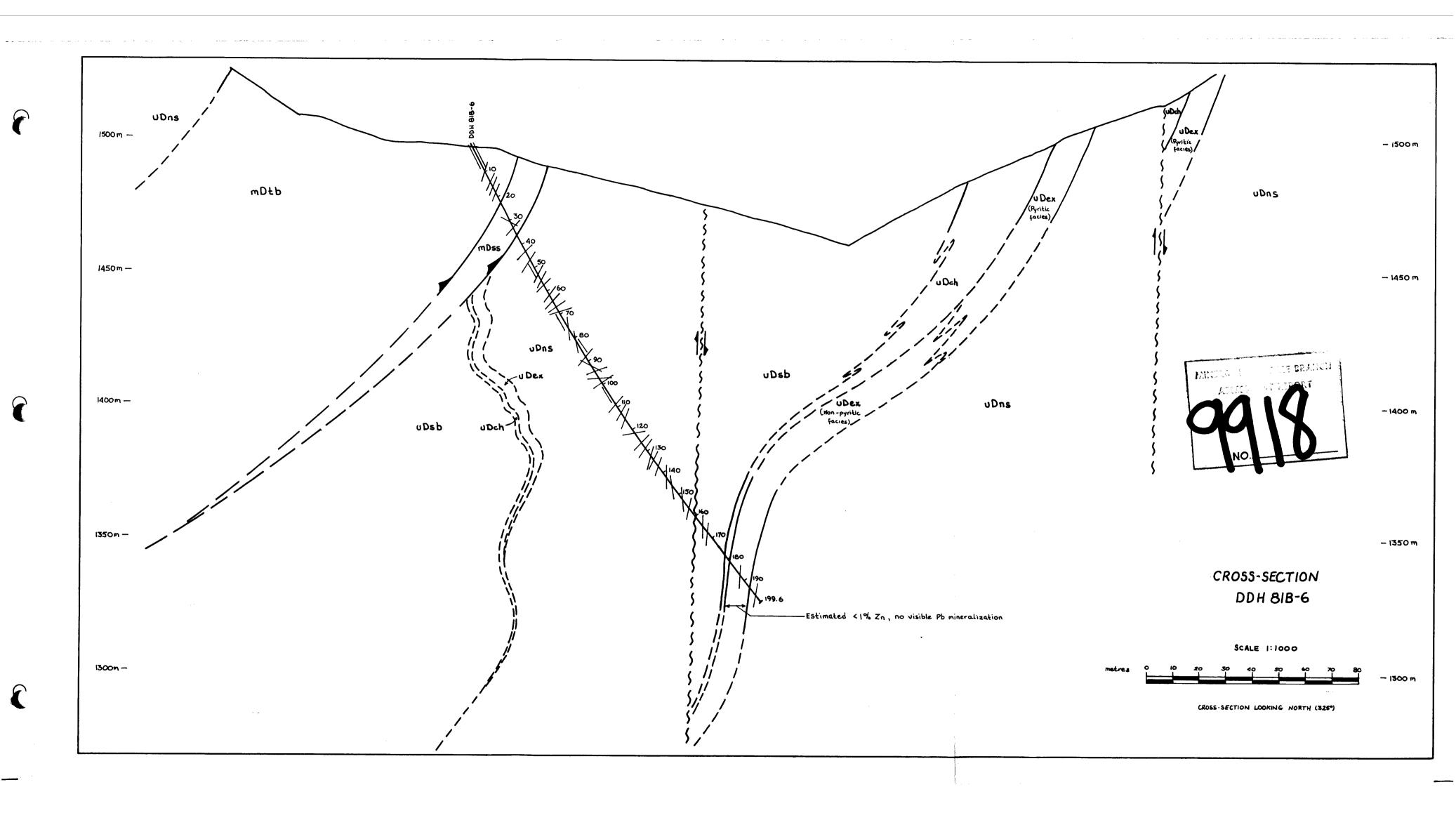
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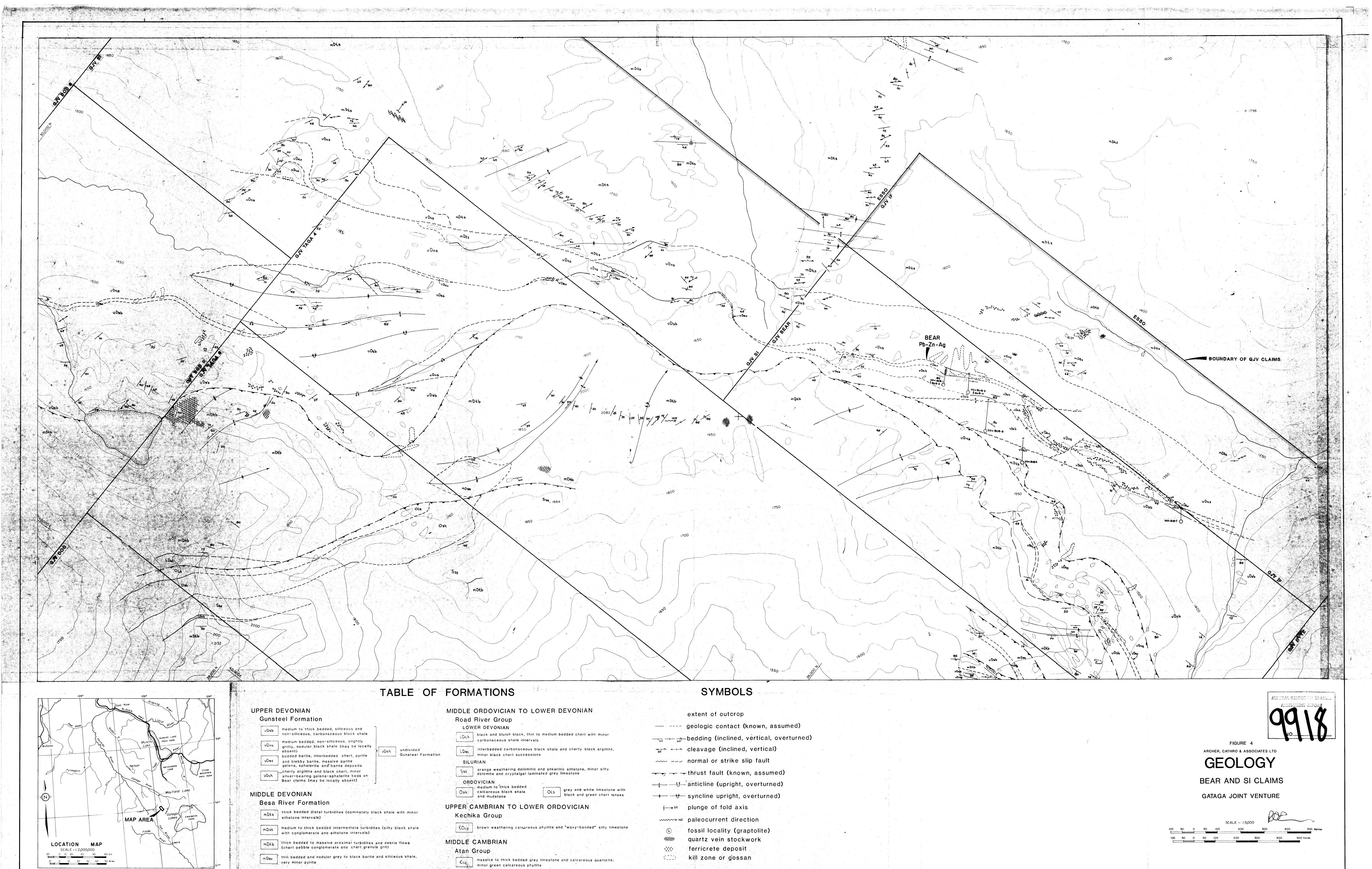
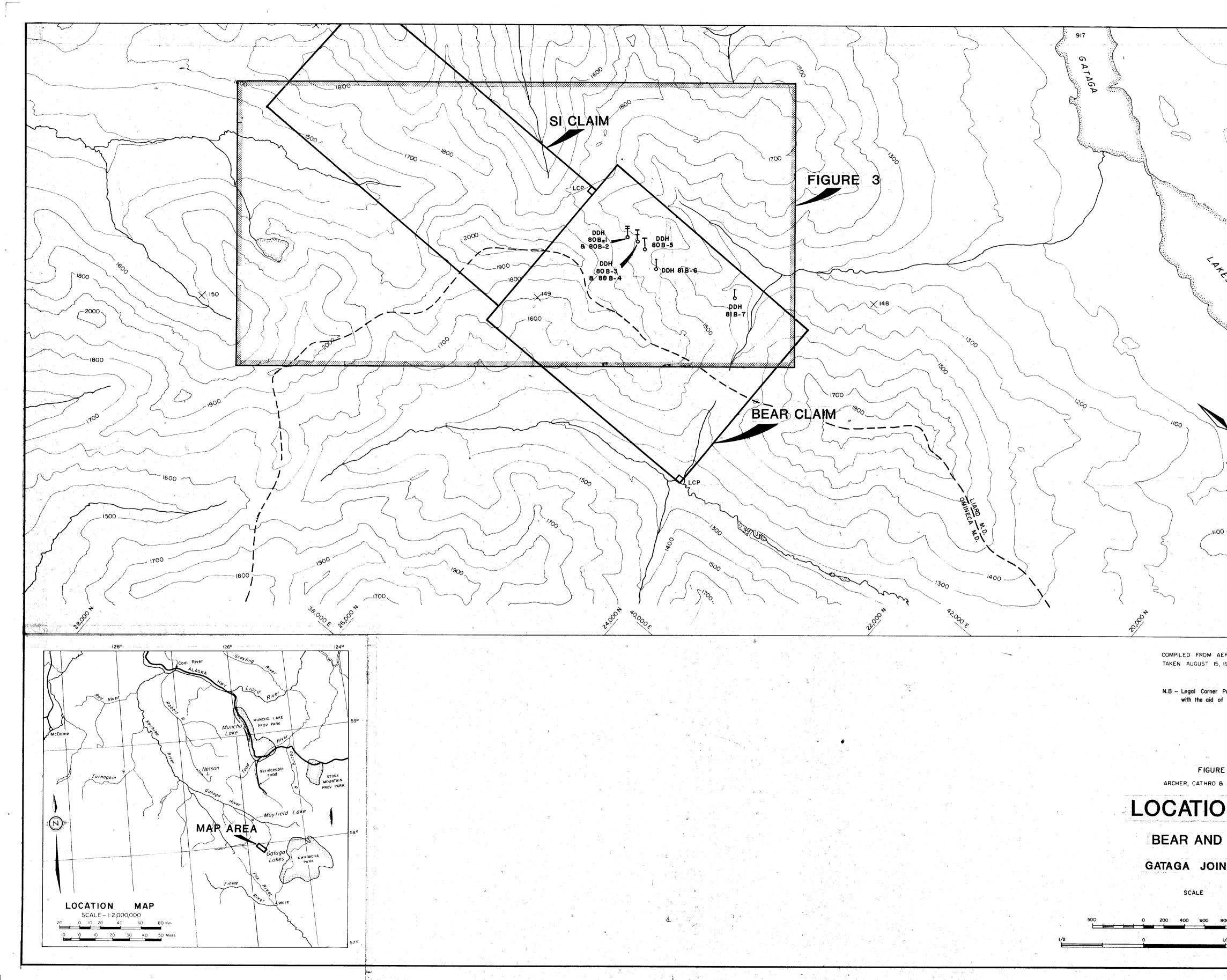


TABLE OF	FORMATIONS	SYMBOLS
	MIDDLE ORDOVICIAN TO LOWER DEVONIAN Road River Group	extent of outcrop
	LOWER DEVONIAN	geologic contact (known, assumed)
nale y	LDch black and bluish black, thin to medium bedded chert with minor carbonaceous shale intervals	
rite vDsh undivided Gunsteel Formation	LDsc interbedded carbonaceous black shale and cherty black argillite,	cleavage (inclined, vertical)
rite Gunsteel Formation	SILURIAN	normal or strike slip fault
s on	Sss dolomite and cryptalgal laminated grey limestone	
	ORDOVICIAN medium to thick bedded	
	Osh calcareous black shale and mudstone OLS grey and white limestone with black and green chert lenses	-+ ↔ syncline upright, overturned)
	UPPER CAMBRIAN TO LOWER ORDOVICIAN	}→35 plunge of fold axis
itely black shale with minor	Kechika Group	
turbidites (silty black shale vals)	EOcp brown weathering calcareous phyllite and "wavy-banded" silty limestone	fossil locality (graptolite) .
pidites and debris flows	MIDDLE CAMBRIAN	www quartz vein stockwork
t granule grit)	Atan Group	ferricrete deposit
barite and siliceous shale,	Ecq massive to thick bedded grey limestone and calcareous quartzite, minor green calcareous phyllite	CCC> kill zone or gossan

To accompany report dated October 1, 1981



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To accompany report dated October 1, 1981		
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