ROBB LAKE PRELIMINARY REPORT

DIAMOND DRILLING PROGRAM

MAY - JULY, 1980

ON

CLAIMS Cleo 2, 4, 6
MV 73
Rob 16, 41, 42, 43, 44

LIARD MINING DIVISION

NTS 94B 13E

Approx. 56°55'N 123°42'W

OWNERS: Texasgulf Canada Ltd.

Arrow Inter-America Corp.

Barrier Reef Resources Ltd. (N.P.L.)

MANAGER: Texasgulf Inc.

AUTHOR: R.A.F. Graham

DATE SUBMITTED: September 26, 1980.

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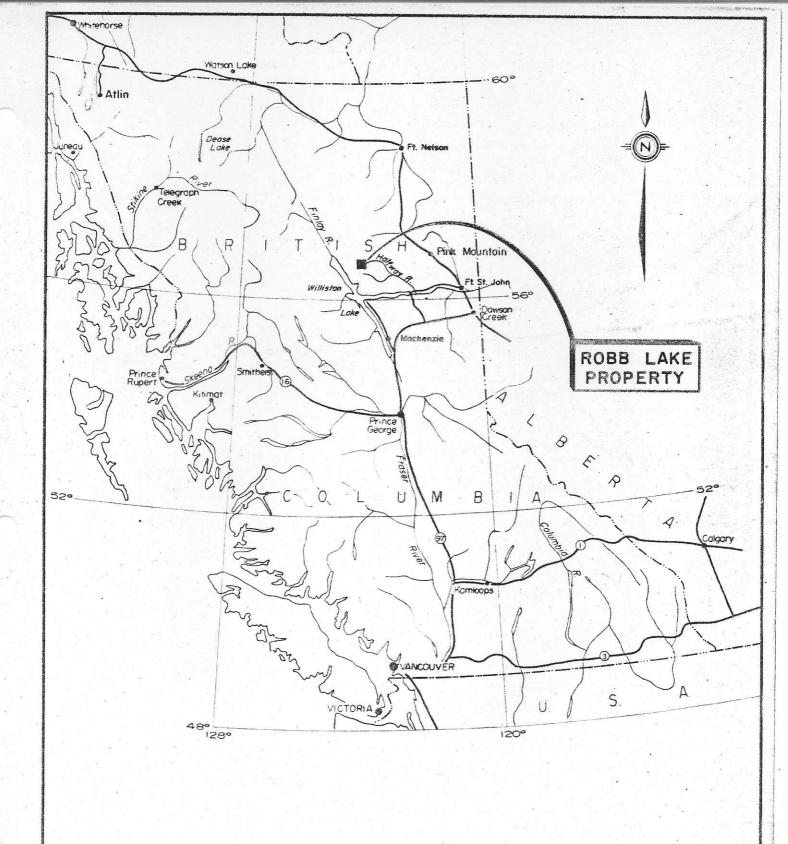
INTRODUCTION

The Robb Lake property is situated near the headwaters of the Halfway River in the Rocky Mountains of northeastern B.C. about 200 km west-northwest of Fort St. John, and about the same distance north of Mackenzie. The closest highway point is on the Alaska Highway about 72 km to the east-northeast of the property near the very small community of Pink Mountain.

Access to the property is by air and the most suitable points of departure are Fort St. John or Mackenzie. A 915 m gravel airstrip was constructed on the property in 1972 and can be used by a limited number of aircraft types. Robb Lake, 6 km west of camp, can be used to a limited extent by float planes. Good docking facilities are available at the lake.

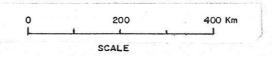
The Robb Lake claims were staked in 1971, with a few later additions, by Peregrine Exploration (now Barrier Reef Resources), Arrow Inter-America Corp. and Ecstall Mining (now Texasgulf Canada). The three companies later pooled their claims and formed a joint venture to explore them. A total of 427 two-post claims and 16 units of one mineral claim remain in good standing. Each of the three companies owns some of the claims outright. The rest are held jointly by the three. Texasgulf Inc. is manager of the project:

The claims were staked originally to cover lead-zinc showings in carbonates of assumed Middle Devonian age. From 1972 until 1975, successive field programs of geological mapping and diamond drilling added much information on the structure, stratigraphy and mineralization controls in the area. Over the four year period 91 holes totalling 43,478 ft were diamond drilled. Drilling was aimed at a number of showings and in three of them significant mineralization was found. A total of 6.1 million short tons grading 7.3% combined lead and zinc was inferred.

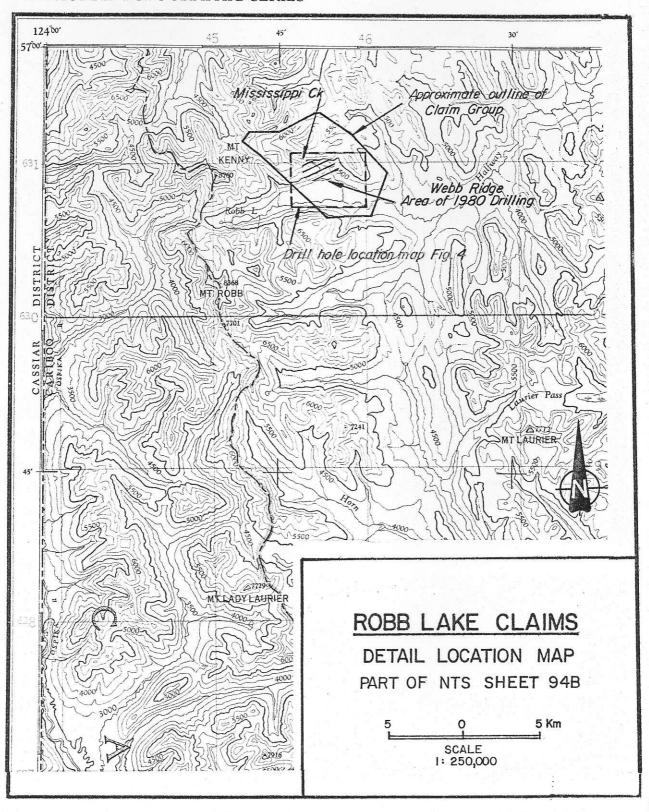


LOCATION MAP

ROBB LAKE JOINT VENTURE



NATIONAL TOPOGRAPHIC SERIES



From 1976 until 1979, the project was dormant. It was reactivated in 1980 when it was decided to carry out a grid diamond drilling program to explore for further zones of mineralization in an area where the potentially mineralized horizons lie at some depth below surface. This was a new approach to exploration at Robb Lake and was taken because mineralization associated with the known surface showings was insufficient to make a viable mining operation.

Mobilization of camp and drill equipment took palce in late May. The drilling contract was awarded to Longyear Canada Ltd. One drill machine, a Longyear 38, was engaged continuously on the program from early June till the end of July. In that time ten holes totalling 3502.77 m were drilled. The holes were drilled on nine different claims as follows:

Hole No.	Claim	Total depth (m)
81-80	Rob 16	471.53
82-80	Rob 41	370.94
83-80	Cleo 6	306.93
84-80	Cleo 4	279.81
85-80	MV 73	337.11
86-80	MV 73	325.22
87-80	Rob 44	340.16
88-80	Rob 43	385.88
89-80	Cleo 2	320.34
90-80	Rob 42	364.85

The size of all core is BQ and it is stored at the camp beside the airstrip on the property.

Near the end of the program a survey was made of the collar location and elevation of the first 9 holes.

RESULTS OF DIAMOND DRILLING

Earlier work had shown that the Devonian carbonate succession in the Robb Lake area is about 700 m thick and that it could be divided into four units: A,B,C,D in descending order. The units of particular economic interest are B and C and each is about 300 m thick. Strata on the property are only slightly folded but had been affected by extensive thrust faulting.

Previous diamond drilling had indicated that the highest grade and most extensive mineralization occurred as continuations of showings found on Webb Ridge. It was also shown that mineralization occurred at two stratigraphic levels, one in mid Unit C, the other in Unit B. Because it appeared that both these units had considerable lateral extensions at a fairly constant level below surface to the south of Webb Ridge it was decided to start a grid drilling program in 1980 to explore both units in this region for further zones of mineralization.

The first hole, No. 81-80 was drilled on Webb Ridge where Unit B mineralization had already been discovered. It confirmed the occurrence of sphalerite and galena in Unit B though grade was much lower than expected. Unit C, which was not previously explored, was found to contain extensive sphalerite and galena and the best intersection over a mineable width was 9.68% Pb and 4.65%. Zn over 4 m. Results show a high Pb:Zn ratio, a feature previously noted in Unit B mineralization of this area and so far unique to west Webb Ridge.

Hole 82-80 after passing through two sections of unidentified shale separated by a carbonate resembling Unit B, entered a major breccia body and remained in it over a depth of 298 m to the bottom of the hole. Over about 30 m the breccia contains minor sphalerite and galena. The breccia is probably of solution collapse origin and is presumably part of a body that had been encountered in previous drilling.



Hole 83-80 located close to Mississippi Creek intersected 36 m of overburden, probably morainic material, before entering bedrock of Unit B. The B-C contact was encountered at 64 m and Unit C continues to a fault at 149 m. From the <u>fault</u> to the bottom of the hole at 307 m the section is all part of Unit B. The fault repeats the section and appears to be a thrust which was not recognised during field mapping. No significant mineralization was found in hole 83-80.

Holes 84-80 to 90-80 all intersected essentially the same sequence. They were collared at slightly different stratigraphic levels in Unit B and were drilled to below the central part of Unit C. Significant mineralization was found in Units B and C in hole 84-80. The best section was 0.01% Pb and 5.87% Zn over 4 m in Unit C. In other holes mineralization, mainly sphalerite, is scattered over a thick section in the central part of Unit C but in no case does it approach ore grade. In holes 87-80 and 89-80 none was of great enough significance to assay. In most holes traces of sphalerite and galena occur in Unit B but it was rarely of sufficient importance to assay.

Characteristics of Units B and C are consistent over the area drilled. Both units consist of cyclical shallow water carbonates which have been entirely dolomitized. The base of a typical cycle is represented by sandy grainstones or mudstones deposited, probably, under fairly high energy subtidal conditions. These pass gradually upwards to supratidal carbonate mudstones. The grey colour of the carbonates becomes lighter upwards. The main differences between cycles in the two units is that in Unit B the lower and middle parts of cycles commonly contain quartz sand whereas they do not in Unit C, and the basal part of each cycle in Unit B is much darker than the corresponding part of the cycle in Unit C.

The upper parts of cycles everywhere have been affected by solution activity which has dissolved certain parts of the sedimentary sequence, led to minor stratiform collapse brecciation, and left cavities which have been filled by secondary dolomite. This type of solution effect

is particularly strongly developed in the central and upper part of Unit C. Most of Unit C mineralization occurs in association with this secondary dolomite, though large areas showing solution effects remained unmineralized.

The long section of breccia encountered in hole 82-80 is probably part of a major breccia body cutting much or all of the B-C succession. The breccia appears to have a steeply dipping wall and may be related to solution and collapse along a major joint or fault. It was previously concluded that Unit B mineralization was related to margins and minor offshoots of this body. However current drilling has indicated that some Unit B mineralization may have controls similar to that in Unit C.

CONCLUSIONS

Drilling has shown that stratigraphy and structure south of Webb Ridge are close to what was predicted from surface mapping and previous drilling.

Two zones of significant mineralization were discovered in Unit C, one below known Unit B mineralization and the other remote from any previously known occurrences.

The discoveries show that reconnaissance drilling can be an effective means of exploration.

Evidence of solution activity with associated scattered mineralization is very widespread in the central and upper part of Unit C. Higher grade concentrations of mineralization are small in comparison with the extent of tho zone of "alteration". Solution features are less widespread in Unit B and mineralization is much more restricted than in Unit C in the area explored.

R.A.F. Graham

Statement of Qualficiations R.A.F. GRAHAM

Statement of Qualifications R.A.F. GRAHAM

- B.Sc. (Geology) 1962. Queen's University of Belfast
- M.Sc. (Geology) 1967. University of Western Ontario
- Ph.D. (Geology) 1970. University of Western Ontario

Since 1970, employed in mineral exploration or related geological work.

Statement of Expenditure

SUMMARY OF EXPENDITURES FOR 1980 PROGRAM

Salaries and fringe benefits		US\$ 23,530
Fees		19,780
Helicopter and fixed wing support		85,657
Diamond drilling		176,796
Supplies and equipment		34,215
Surveying		5,107
Services		18,663
Government fees		16,152
	TOTAL	US\$ 379,900

Surveyed co-ordinates and elevations of diamond drill-holes 81-80 to 89-80.



TEXAS GULF INC. ROBB LAKE JOINT VENTURE

Co-ordinates and Elevation of Drill Holes 81-80 to 89-80 (in feet)

Drill Hole	North	East	Elevation
DDH 81-80	74339	57232	5895.2
DDH 82-80	73742	56599	5616.1
¹¹ 83-80	72209	62071	4651.9
" 84 – 80	72259	60773	4775.8
" 85 – 80	72397	59627	4789.5
" 86 - 80	72245	58488	4805.5
" 87 - 80	72207	57038	4929.6
" 88-80	73248	57027	5313.8
" 89-80	73328	59397	5097.4
0, 00	. 5525		

Summary logs of diamond drill-core

PROPERTY		ake theast B.C. N	ITS 94B	TEXAS	SGUL	FIN	C.	HOLE NO. 81-80
		339N 57232E		ווופת	HOLE	LOG		CLAIM: Rob 16
AZIM:	·	5895.2 ftDIP	1 Vart	DIVILL	110	L-00		SECTION:
	471.53 m			. [DIP TEST	•		LOGGED BY: D.A. Bending
STARTED			- 09	DEPTH	AZIM	DIP		DATE LOGGED: June 1980
COMPLETED: June 13, 1980				316 m	0			DRILLING CO.: Longyear Canada Ltd.
CORE RE		10, 1300		468 m	30°	88.2°		Directing Qu. Longyear Canada Eta.
DEF				400 111				<u> </u>
FROM	TO	REC'Y	•			DESCRIPT	.ION	
0	1.22		Overburde	Overburden - residual soil and rubble.				
1.22	226.52			Unit B Dolostones and breccias				
			1.22-18.252; Dolostone: Strongly rhythmic color and texture variations. Silty, peloidal cryptalgal laminates intercalated with paler, crystalline, burrowed					texture variations
			8					ctures. Occasional amphipora
			1					tone at 9 m. Some burrows
		,						ervals characterized by weak,
						······································		ttered pyrobitumen. Sparse quartz
				fractures.				
				· · · · · · · · · · · · · · · · · · ·	: Rhythmic,	with birds	eye t	textured cryptalgal laminite
				between intervals of crystalline, porphyrtopic dolostone with pseudobreccia and zebroid textures. 36.17-48.77; Dolostone, rhythmic color and texture variations, medium-dark to medium-light grey. Largely laminated peloidal wackestones, some burrowed intervals.				
			36.17-48.					
	•		medium-li					
			Stylolite	es common. Porp	hyrtopic te	xtures comm	on ir	n light coloured sections. Scattered
			crackle b	breccia. Occasi	onal bitume	n, quartz,	and d	dolomite cemented mosaic breccia
			pods. So	ome weak fractur	ing.			
	·		48.77-62.	.17; Dolostone:	strongly r	hythmic,san	dy,s	ilty, frequently birdseye textured,with

·	SGUL	F INC. DRILL HOLE LOG	HOLE NO. 81-80	PAGE NO 2 of			
FROM	РТН то	DESCRIPTION					
r ROM	10	occasional burrowing. 160-165 is characterized by abundance of pseudobre	occia and zabroid	fabrics			
		Remainder is stylolitic, and some crackle breccia cemented by quartz and					
		sand marker.	do tomitte. 103311	Jiy paic			
		62.17-76.2; Rhythmic, silty, birdseye textured and burrowed peloidal dolo	stones Breccia	mostly			
		rubble breccia but locally crackle breccia. Pods of black insoluble res-		سمعان المادات المراجعين			
	****	zones contain sphalerite and galena. Cements are dominantly white dolom					
		75.5-76.2 is dirty rock matrix breccia.	<u> </u>				
		76.2-101.1; Dolostone: rhythmic sequence of birdseye textured, intraclast	ic intervals and	peloidal,			
		silty, burrowed intraclastic wackestones gradational to pseudobreccias.	Variable amounts	of sand			
	·	and burrows in dolomitic mudstone. Scattered stylolites increasingly common toward base of intervals					
		101.1-112.77; Dolostone: broadly rhythmic, medium and dark grey, sandy,	ilty peloidal pac	ckstone			
		with occasional burrows and birdseye textures. Some intercalated sandy a	and silty laminite	es,			
		occasional cryptalgal textures. Frequent stylolites.					
		112.77-117.95; Dolostone: light grey, peloidal, dolomitic mudstone with s	andy lamina; rel	ic			
		birdseyes in generally crystalline, porphrytopic and pseudobreccia textu	ed dolostones. I	ocally			
		silicified and pyrobituminous.					
		117.95-158.19; Dolostone: Rhythmic sequence, marginally intertidal-supra	tidal. Rarely s	ilty,			
		burrowed peloidal packstones and wackestones, some birdseyed intervals,					
		cracks. Widespread weak porphrytopic texture, locally well developed zet					
		fabrics. Stylolites common. 145.7-150.9 contains shines PbS and ZnS in contains shines shin	ackle and rubble	breccia,			
		particularly in pyrobituminous matrix at base.					
		158.19-190.19; Dolostone: Rhythmic subtidal-intertidal facies. Burrowed	eleidal wackestor	nes and			
		packstones, some amphipora, packstones and bafflestones. Occasional pelo	oid-grapestone wad	kestone.			
		Lower parts of interval characterized by birdseye texture. Porphrytopic	texture is wides	read.			

TEX/	ASGUL	F INC. DRILL HOLE LOG	HOLE NO. PAGE NO. 81-80 3 of						
DE	PTH								
FROM	TO	DESCRIPTION							
		Pyrobituminous stylolites common. Minor crackle and mosaic breccia.							
		190.19-226.52; Dolostone: uniform (only faintly rhythmic) medium to	dark grey, subtidal, burrowed						
		peloidal wackestones. Scattered grapestones, amphipora relics, intra	clasts. Lower 30 m contains						
		silty, sandy beds. Rare birdseyes. Occasional stylolites. Sparse co	rackle breccia is the only						
		secondary feature observed.							
226.52	471.53	Unit C							
		226.52-241.42; Dolostone: medium to dark grey. Sparse silt and sand. B/C contact marked by							
		intraclastic peloid-grapestone packstone with superimposed nodular annydrite texture, followed by peloidal cryptalgal boundstone/peloidal grapestone, wackestone in rhythmic repetitions.							
	ļ	241.52-263.34; Dolostone: medium to light grey rhythmic sequence of intertidal and supratidal							
		facies. Birdseye textured cryptalgal boundstones, occasionally intra	والمراجع						
		packstone. Common porphrytopic, pseudobreccia, and zebroid fabrics. Common evidence for hard-							
		ground in the form of silicified, pyrobituminous, or selectively neomorphosed burrows.							
		263.34-302.05; Dolostone: Weakly rhythmic sequence with early diagend							
		imposed over subtidal-intertidal rhythms. Burrowed pale grey peloida							
	<u> </u>	bearing minor but environmentally sensitive bioclastic elements. Spar							
		brachiopod molds. One massive stromatoporoid at 273.1 some gastropod							
		Occasional birdseye textured cryptalgal laminite. Short pseudobrecci							
		grade into rubble breccia and breccia-moldic fabrics. Common zebroid							
		Sparse pyrobitumen. Pervasive neomorphism in pale intervals. Traces							
		302.05-347.17; Dolostone: strongly rhythmic color and textural variation							
		local birdseye textures, rare grapestones. Scattered, zebroid and pse							
	 	texture widespread. Pale, crystalline rocks dominant over medium-dark	carey poloidal laminitos						

366.37-366.67; Dolostone breccia, galena and dolomite cement. Angular sand marker reby about 7% floating quartz sand grains in clasts. 366.67-386.18; Dolostone, mostly crackle to rubble breccia. Locally rich in PbS, Zn occurs alone in multiply fractured clasts and dolomite cement without contemporaneous gangue. Lower grades of ZnS and PbS occur with dolomite cements in rubble breccia. frequently neomorphic, often porphrytopic. ZnS occurs disseminated in rubble brecci impregnating small patches of zebroid fabric. Pyrobitumen occurs in breccia, fractured stylolites. Primary lithology is generally burrowed peloidal packstone with some gas amphipora relics.	4 0					
Some pods of vuggy dolomite cemented rubble and crackle breccia. Common stylolites. traces Zns, Pbs. 347.17-355.12; Dolostone: mostly breccia. Pyrobituminous pseudobreccia grading into then rubble breccia with sphalerite, pyrite, galena, and dolomite cement and some py Overall grades of Pb + Zn less than 2% for any 2 metre interval. 355.12-366.17; Dolostone, PbS and ZnS in breccia. Weakly burrowed, peloidal wackest interval dominated by crystalline, neomorphic fabrics. Some birdseye textured crypt laminites. Dolomite cemented crackle breccia with pockets of sphalerite and galena. occur in good grades as rims and void fillings with dolomite in rubble breccia 363-3 366.37-366.67; Dolostone breccia, galena and dolomite cement. Angular sand marker reby about 7% floating quartz sand grains in clasts. 366.67-386.18; Dolostone, mostly crackle to rubble breccia. Locally rich in PbS, Zn occurs alone in multiply fractured clasts and dolomite cement without contemporaneou gangue. Lower grades of ZnS and PbS occur with dolomite cements in rubble breccia. frequently neomorphic, often porphrytopic. ZnS occurs disseminated in rubble brecci impregnating small patches of zebroid fabric. Pyrobitumen occurs in breccia, fractur stylolites. Primary lithology is generally burrowed peloidal packstone with some ga amphipora relics.						
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impregnating small patches of zebroid fabric. Pyrobitumen occurs in breccia, fractur stylolites. Primary lithology is generally burrowed peloidal packstone with some ga amphipora relics.	Fragments					
stylolites. Primary lithology is generally burrowed peloidal packstone with some ga amphipora relics.	and					
amphipora relics.	s and along					
	tropods and					
386 18-402 64: Delectore generally rate resmountie with years humania and mubble b						
386.18-402.64; Dolostone, generally pale, neomorphic with vague burrows and rubble b	eccia in					
significant intervals and isolated pods. Spots of zebroid texture mineralized with	races of					
	sphalerite, pyrite, and pyrobitumen. Some intervals of pyrobituminous pseudobreccia. Stylolites					
with finely disseminated pyrite. Minor pyrite with dolomite cementing breccia. Mino	birdseye					
textured peloidal laminite.						
402.64-406.30; Dolostone: rubble and mosaic breccia. Neomorphic, vaguely burrowed c	ystalline					
clasts. Dolomite cement with abundant vugs. Late pyrobitumen and pyrite. Disseminate						

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Texture and color is progressively more uniform as depth increases. 434.03-437.4; Dolostone: mosaic and rubble breccia. Light grey, crystalline burrowed pel wackestones in clasts of breccia with finely disseminated sphalerite in cement and along and a secondary clay seam. Pyrobitumen in vugs and stylolites. 437.4-470.92; Dolostone: crystalline grey and light grey, peloidal wackestones with vague	PAGE N 5 of					
than 1%. Unbrecciated septa contain stylolites. 405.8-406.w has abundant dark matrix. 406.3-343.03; Dolostone: uniform, with diffuse rhythmic grey and light grey subunits. Ge burrowed peloidal packstone-wackestone with occasional grapestones. Most is crystalline, porphrytopic, with 1-2 cm isolated vugs lined with grey isopachous dolomite. Several sho intervals of rubble and crackle breccia contain ZnS (less than 2%), pyrobitumen, traces o Texture and color is progressively more uniform as depth increases. 434.03-437.4; Dolostone: mosaic and rubble breccia. Light grey, crystalline burrowed pel wackestones in clasts of breccia with finely disseminated sphalerite in cement and along and a secondary clay seam. Pyrobitumen in vugs and stylolites. 437.4-470.92; Dolostone: crystalline grey and light grey, peloidal wackestones with vague and occasional intraclasts. Sparse dolomite cemented crackle breccia. Scattered interva porphrytopic.nodular, and pseudobreccia texture. Numerous stylolites. 1-2 cm elipsoidal lined with grey isopoachous dolomite.						
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porphrytopic.nodular, and pseudobreccia texture. Numerous stylolites. 1-2 cm elipsoidal lined with grey isopoachous dolomite.	burrows					
lined with grey isopoachous dolomite.	and occasional intraclasts. Sparse dolomite cemented crackle breccia. Scattered intervals of					
	vugs					
471.53 END OF HOLE						
471.53 END OF HOLE						
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HOLE NO. PROPERTY: ROBB LAKE TEXASGULF INC. 82-80 LOCATION (grid) Northeast B.C. N.T.S. 94B DRILL HOLE LOG CLAIM: Rob 41 LOCATION(survey) 73742N 56599E AZIM: ELEV: 5616.1 DIP: vertical SECTION: DIP TEST CORE SIZE: BO LOGGED BY: DEPTH 370.94 m D. Bendina DIP STARTED: DEPTH AZIM DATE LOGGED: June 1980 June 14, 1980 COMPLETED: June 19, 1980 DRILLING CO.: Longyear Canada Inc. 346 m 355° 88.3 CORE RECOVERY: 368 m 18° 88° DEPTH REC'Y DESCRIPTION FROM TO 5.6 0 Overburden. 5.6 21.2 Besa River Shale (?) Very dark grey and black, with lenses and laminae of disseminated pyrite. Lower contact is brecciated. Probably Besa River Fm., infilling a sinkhole in the karsted upper surface of the carbonates. 21.2 47.1 Unit B dolostone. Minor rubble breccia at contact with shale. 2 generations of fractures; early, dolomite cemented, and later, quartz cemented. Primary lithology is rhythmic repetitions of sandy, silty, subtidal dark grey, burrowed, peloidal dolostone and pale crystalline peritidal dolostone with cryptalgal and evaporitic textures. Scattered gastropods and amphipora relics. Small shears at 29 m are the beginning of a weakly sheared interval that continues with gradually increasing intensity to a tectonic breccia at 47.1 m that comprises the Lower contact. 47.1 48.6 Tectonic Breccia, the Lower contact of which is a fault plane. 48.6 76.2 Besa River Shale (?) Dark grey to black shale. Well laminated, locally deformed but generally gently dipping. Some synsedimentary breccias and slumps. Common wisps and disseminations of pyrite. Scattered traces of pale brown sphalerite. Interpreted as infilling a large sink hole in the upper surface of the carbonate platform

TEXA	ASGUL	F INC. DRILL HOLE LOG	HOLE NO. PAGE NO. 82-80 2 of 4								
DEPTH		DESCRIPT	TON								
FROM	TO	DESCRIPT	10N								
76.2	272	Brecciated Unit B dolostones									
		76.2-80.2: Rubble Breccia. Sandy, burrowed, and birdseye	textured clasts, mixed and randomly								
		oriented in a dirty, dark grey, pyrobituminous matrix with s	sphalerite, galena, and abundant								
		pyrobitumen in voids between 76.2 and 78.									
		80.2-103.8: Rubble Breccia. Dark grey insoluble residue ma	atrix and sparry dolomite cement are								
		present in variable quantities but cement is dominant. Class	nt in variable quantities but cement is dominant. Clasts are mixtures of sandy and birdseyo tone. Sparry dolomite fragments indicate several episodes of brecciation. Zebroid fragments								
		dolostone. Sparry dolomite fragments indicate several episo	parry dolomite fragments indicate several episodes of brecciation. Zebroid fragments g collapse, indicated collapse followed destruction of early diagenetic cements.								
		rotated during collapse, indicated collapse followed destruction	ction of early diagenetic cements.								
		102-103.8: breccia is less collapsed, grading into mosaic ha	abit.								
		103.8-146.2: Rubble and Mosaic breccia with consistent lit	Rubble and Mosaic breccia with consistent lithologies, in contrast to more chaotic								
		collapse structure above. Color varies in a broadly rhythm	ructure above. Color varies in a broadly rhythmic pattern more diffuse than an								
		unbrecciated "B" unit. Generally sandy, silty birdseye tex	"B" unit. Generally sandy, silty birdseye textured peloidal packstones and wackestones.								
		Scattered stylolites and pyritic seams. Two distinct phases	ylolites and pyritic seams. Two distinct phases of dolomite cement; early light grey								
		along contacts between these phases at 119.0-121.9. Pyrite	ts between these phases at 119.0-121.9. Pyrite occurs as disseminations in sandy								
		clasts and in fractures. Nodular anhydrite moulds occur at	n fractures. Nodular anhydrite moulds occur at 116. Zebroid and pseudobreccia fabrics								
		occur more frequently towards base of interval. Pale sands	tone clasts at 118 may be collapsed								
		relics of the pale sand marker.									
		146.2-150: Rubble Breccia. Cements distinctive and signif	icant. Early, isopachous grey dolomite								
		is similar to elsewhere in the breccia. Later, dark grey p	yrobituminous dolomite fills remaining								
		voids. Sparry grey cement is locally rebrecciated. Clasts	are mixed, light colored, finely								
		crystalline, sandy, silty, variably burrowed. Some birdsey	es.								
		150-200: Rubble Bneccia. Late, pyrobituminous cement is le	ess abundant, but hydrocarbon stain and								
		residue persists. Clast color varies in a weakly rhythmic pa	attern as above. Primary lithologies								
		are silty, locally sandy, burrowed or birdseye textured dole	omite mudstones and wackestones. Some								

TEXASGUL		F INC.	DRILL HOLE LOG	HOLE NO. 82-80	PAGE NO
DE	РТН	,	DESCRIPTION		
FROM	TO		DESCRIPTION		
		birdseye textured cr	rysalgal boundstones. Rare pseudobreccia. Some	e late voids are filled	with
		pyrabituminous, lami	inated internal sediments, which at 180 is rebro	ecciated. Some post-bro	ecciation
		stylolites exist at	188.	·	· · · · · · · · · · · · · · · · · · ·
·		200-204.6: Rubble b	preccia. Same as 150-200 except pyrabitumen is	grading down to minor	amounts
		(traces). Slickensi	ided fractures at 90° to core suggest minor disp	olacement.	
		204.6-250: Rubble b	preccia, overprinted by crackle breccia and sma	ll faults. Traces of p	yrite
		sphalerite and galer	na 206-210, 226-250. Sulphide occurrences sign	ificantly occur below h	ydro-
		carbon stain interva	al. Thin, tight faults $212-213$, 35 , 30 , and 32	° to core; pervasîve ha	irline
		fractures 220-221, 2	225-228; small faults at 227, with 15 cm of tec	tonic breccia; 240.8, 8	O°
		to core, 246, 25° to	core. Primary Lithologies show weakly rhythm	ic variation typical for	r lower
		parts of Unit "B", y	with pattern blurred by mixing and collapse. S	ilty, peloidal, sometim	es
		birdseyed mudstone,	scattered crystalized, birdseyed, bourdstones,	parpyrtopic and zebroi	d
		fragments, some sand	dy intervals.		
		250-267.5: Rubble B	Breccia, white sparry dolomite cement, with pro	portions of grey insol	uble
		residues irregularly	y increasing with depth. Porphyrtopic fabric in	n some clasts is gradat	ional
		with early cements.	264-267.5 weakly mineralized with PbS and ZnS.	. (about 2% sulphide -	1.2%
		combined metals). L	ower contact defined by coallescence of rock f	abrics to mosaic brecci	a. Primar
···		lithologies general	y uniform, silty, variably laminated peloidal,	burrowed dolostone typ	ical
- 		for lowest parts of	Unit B.		
		267.5-272: Mosaic E	Breccia; probably large broken blocks within a	rubble breccia. Burrow	ed
		peloidal medium grey	y finely crystalline wackestone.		
272	370.0	Unit C Lithologies	in Breccia Body		
			lized by uniform silty interval above and change	e to clean birdseved car	rbonate
		below.			

TEXAS	SGULI	INC.		DRILL HOLE	E LOG		HOLE NO. 82-80	PAGE NO 4 of 4
DEPT				C	DESCRIPTION	٠		
ROM	то	070 004 5 14 1		···		7	1	• • • • • • • • • • • • • • • • • • •
		272-284.5: Mosaic						
		ZnS, PbS, and white	<u> </u>	· · · · · · · · · · · · · · · · · · ·				
		lithologies typical	······					
		grapestones, short stachyodes relics.						and
	·	343-370: Rubble Br						
		crystalline, unifor						
		intervals; generall						
		370-370.9. Pseudob					······································	
				<u> </u>				
	370.9	END OF HOLE.				·		
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HOLE NO. PROPERTY: ROBB LAKE TEXASGULF INC. 83-80 LOCATION (grid) Northeast B.C. NTS 94B DRILL HOLE LOG CLAIM: Cleo 6 LOCATION(survey) 72209N 62071E AZIM: ELEV:4651.9 ftDIP: Vert. SECTION: DIP TEST LOGGED BY: D.A. Bending DEPTH: 306.92 m CORE SIZE: ΒÒ DEPTH AZIM DIP DATE LOGGED: June 1980 STARTED: June 20, 1980 COMPLETED: 310° DRILLING CO.: Longyear Canada Inc. June 26, 1980 203 m 89.5 89° 307 M 345° CORE RECOVERY: > 95% DEPTH REC'Y DESCRIPTION FROM TO 36.62 Morrain; large boulders and sand. 0 41.1 Tectonic Breccia; 36.4 Intensely sheared dolostone gouge and dolomite cement with fragments of Unit "B" dolostone showing peloidal, birdseye textures and diffuse pseudobreccia. Unit B pelostones 41.1 63.6 41.1-46.45: Dolostone. Medium to dark grey rhythmic variations roughly 2 metres thick, silty, peloidal, bearing indistinct birdseye textures, scattered intervals of pseudobreccia and zebroid fabrics, some pyrobituminous stain. 46.45-49.0: Dark grey dolostone. Several lithologies; Pyrobituminous slump breccia with lithoplasts, dark matrix, white dolomite cement; lenses of amphipora packstones. Many dark pyritic partings. Diffuse sedimentary bandinage. 49.0-63.6 (Basal part of Unit B). Uniformly medium to dark grey, weakly rhythmic silty peloidal packstone with sparse sandy lenses, rare pelecypod and thamnopora relics. Widespread, weak dolomite cemented crackle breccia is overprinted by locally prominent shattering and shearing, with distinct faults at 52 M (45° to core), 53 (80°), 55 (50°), and 57. 62.25-62.5 is 60% quartz sand and silt with traces sphalerite. 62.5-63.6 is burrowed dolomitc quartz sandstone. Lower contact is marked by pronounced

color change and scour surface.

TEX	ASGUL	F INC. DRILL HOLE LOG	HOLE NO. 83-80	PAGE NO								
DE	PTH	D E CODIDEION										
FROM	то	DESCRIPTION										
63.6	157.9	Unit C. Dolostones.										
		63.6-66.2. Very light grey orthoquartzite. Some worn pelecypod clasts.										
		66.2-79.8. Sandy dolostone. Small pockets of pseudobreccia and zebroid texture. Occasional gastropod, pelecypod, and rugose coral relics. Quartz and dolomite cementing crackle breccia and occasionally filling vugs. 78.9-125, Dolostone. Frequently silty, with weakly rhythmic color and texture variations.										
·		Birdseye textured, peloidal, silty intervals alternating with amphipora bearing, burrowed, peloidal,										
		lithologies. Occasional zebroid, pseudobreccia, and porphyrtopic intervals. Crackle and rare										
· · ·		rubble breccia cemented with white sparry dolomite and, in two locations (100, 105-106) traces										
		of sphalerite and galena.										
		125-156.3. Dolostone, with rare siliciclastics (present in silty, sandy la	minations 152.	4-153.9).								
		Rhythmic medium and light grey color variation, repeated transgressive-prog	progradational sequences.									
		Transgressive phases are peloidal, medium grey birdseye textured, locally a	y amphipora bearing									
		wackestones. Prograding sequence is progressively lighter, peloidal, sometimes burrowed, with										
		pseudobreccia and zebroid fabrics dominant specially at tops of rhythmic subunits. Weak crackle										
······································		breccia 133-135. Tectonic brecciation increases gradually from weak fracturing at 147 to tectonic										
		breccia at 156.3.	T-T									
		156.3-156.65. Tectonic breccia, dolomite and quartz cement										
		156.65-157.9. Heavily sheared zebroid dolostone.										
		157.9-158.45. Tectonic breccia, dolomite and quartz cement.										
58.45	306.93	Unit B Dolostone										
		158.45-188,9. Rhythmic, only occasionally sandy and silty dolostone. Stro	ngly rhythmic									
		alternations of sandy, silty, peloidal, birdseye textured sections with bur	rowed interval	s, and								
		variably (rarely well) developed porphyrotopic pseudobreccia, and zebroid f	abrics. Spars	e								

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TEXASGUL		FINC. DRILL HOLE LOG HOLE NO 83-80								
			DESCRIPTION							
ROM	то									
			ited with white dolomite. Common stylolites.							
····			rhythmic silty. peloidal. locally sandy. local							
 			wackestone. 197-198 is dinstinctive yuggv. b							
			llar massess suggestive of anhydrite relics.	Many well developed stylolites.						
	·		oseudobreccia texture.							
			ic. frequently silty. locally sandy dolostones							
·		cryptalgal boundstones, peloidal wackestones, commonly burrowed. Occasional amphipora relics. Locally prominent porphyrtopic and pseudobreccia textures. Widespread crackle and mosaic								
		breccia with numerous 1-2 metre sections of rubble breccia. Pyrite occurs along stylalties and								
			nating clasts. Rare quartz cement.							
			breccia with short intervals of mosaic brecc							
			dational cycles, in contrast to the breccia in							
			f breccia contains a "trash zone" with lamina							
			s, carbonate mud, and fine pyrite. Primary	fabrics identical to rhythmic						
		sequence above.								
			one: several rhythmic color sequences of medi							
 			stone, some sandy, silty laminae. Some inter							
			ite cement. Occasional stylolites with local	ized bleaching of host dolostone						
		along lower margin o								
			one, dominantly rubble breccia with some mosa							
····			ow by prominent pseudobreccia. Spotty pods o							
		and post-breccia sty	lalties. Scattered galena euhedra - very low	percentages. Finely crystalline						
		pyrite impregnating	and rimming clasts. Primary fabrics generall	y silty, burrowed, peloidal,						
	1	light grey; 259-260	is sandy, silty intraclastic packstone.							

DEPTH FROM TO 269.6-277: Dolostone: mostly mosaic breccia with intervals of rubble and crackle be some pseudobreccia. Primary lithology is silty, locally sandy, frequently burrowed percent wackestone. 277-287.5. Dolostone: Sparse crackle breccia, dolomite cement. Rhythmic (medium variations in silty, burrowed, peloidal, locally birdseve textured wackestones wite grapestones. 287.5-293.5: Dolostone. Primary lithology same as above. Mosaic and rubble breccianement, some fragments impregnated and rimmed with finely crystalline pyrite, scate (about 1% sulphide) PbS and Zns. 293.5-299.5. Dolostone. Grey and light grey rhythmic repetitions of silty crypt boundstones and burrowed peloidal wackestones with pods of pseudobreccia. Occasion Very weak, sparse, crackle breccia. 299.5-306.9. Dolostone. Rubble and mosaic breccia. Primary lithology as above. ZnS and PbS in dolomite cement. Interpreted as representing Unit B mineralization to West Webb Zone.	
269.6-277: Dolostone: mostly mosaic breccia with intervals of rubble and crackle be some pseudobreccia. Primary lithology is silty, locally sandy, frequently burrowed pewackestone. 277-287.5. Dolostone: Sparse crackle breccia. dolomite cement. Rhythmic (medium variations in silty, burrowed, peloidal, locally birdseve textured wackestones with grapestones. 287.5-293.5: Dolostone. Primary lithology same as above. Mosaic and rubble breccianement, some fragments impregnated and rimmed with finely crystalline pyrite, scate (about 1% sulphide) PbS and Zns. 293.5-299.5. Dolostone. Grey and light grey rhythmic repetitions of silty crypt bourdstones and burrowed peloidal wackestones with pods of pseudobreccia. Occasion Very weak, sparse, crackle breccia. 299.5-306.9. Dolostone. Rubble and mosaic breccia. Primary lithology as above. ZnS and PbS in dolomite cement. Interpreted as representing Unit B mineralization.	
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299.5-306.9. Dolostone. Rubble and mosaic breccia. Primary lithology as above. ZnS and PbS in dolomite cement. Interpreted as representing Unit B mineralization	nal stylolites.
ZnS and PbS in dolomite cement. Interpreted as representing Unit B mineralization	Casthanad
LO NEST NESD ZONE.	, equivalent
	<u>, , , , , , , , , , , , , , , , , , , </u>

חפספרטדי									HOLE NO.			
PROPERTY		Lake	NTC OAD		EXAS	GUL	FIN	C.	84-80			
LOCATION(grid) Northeast B.C. NTS 94B LOCATION(survey) 72259N 60773E						•	,	-	CI AINI			
				ľ	DRILL	HOLE	LUG		CLAIM: Cleo 4			
AZIM: ELEV: 4775.8ft DIP: Vert.									SECTION:			
DEPTH: 279.81 m CORE SIZE: BQ				DIP TEST				LOGGED BY: D.A. Bending				
STARTED: June 26, 1980					DEPTH	AZIM	DIP		DATE LOGGED: July 1980			
COMPLET	ED: Jui	ne 30, 1980			154 m	130°	89°		DRILLING CO.: Longyear Canada Ltd.			
CORE RE	COVERY:	> 95%			276 m	160°	89°					
DEF	PTH	nach					D = 0 0 0 1 D T	LON				
FROM	TO	REC'Y	DESCRIPTION									
20.4	82.8		Unit B. [olo	stones, mino	r mineraliz	ation					
								wad	ckestone; Rubble, crackle, and mosaic			
			,		,			-,	te cement. Many stylolites in			
					a at base of							
			25-35.2;	Do1	ostone: med	ium and dar	k grey (weal	kly i	rhythmic on broad scale) burrowed			
silty pe			silty pelo	peloidal packstone-wackestone. Small pods of mosaic and rubble breccia with								
			disseminat	eminated pyrite, dolomite cement. Stylolites and secondary clay seams. Weak								
crackle b					breccia.							
35.2-4			35.2-41.2	5.2-41.2; Dolostone: medium to dark grey silty peloidal wackestone, in clasts in								
			rubble bre	cci	a with .5 m (of dolomite	fill open s	space	e at 35.2. Dolomite cement.			
			disseminat	sseminated PbS and AnS (traces).								
			41.2-82.8	D	olostone: S	ilty, local	ly sandy, pe	eloid	dal wackestone. Generally uniform,			
			weakly rhy	/thm	nic medium an	d medium to	dark grey.	0c	casional grapestone, amphipora			
			relics, sh	nort	intervals o	f intraclas	tic packstor	ne.	Sparse, very delicate stylolites.			
	·		Widespread	d we	ak dolomite	cemented cr	ackle brecc	ia.	Traces of sphalerite and galena			
			in crackle	e an	d rubble bre	ccia 60-66	m. 30 cm te	ector	nic breccia at 68 metres.			

IEXA	ASGUL	F INC. DRILL HOLE LOG HOLE NO. PAGE 2 of											
DEI	РТН	DESCRIPTION											
FROM	то	DESCRIPTION											
82.8	279.9	<u>Unit C</u>											
		82.8-100; Dolostone: medium to dark grey peloidal birdseye textured laminites, peloidal											
		(grapestone) wackestone. Common crackle breccia, short intervals mosaic and rubble breccia.											
	\	Scattered traces ZnS in dolomite cement. Wispy disseminated pyrite.											
	·	100-134; Dolostone: Rubble breccia. Clasts mixed and chaotic. Lithologies include peloidal,											
	ļ	grapestone wackestones, birdseye textured laminites. Pseudobreccias. 100-101.5 is open, coarse											
ļ		breccia with light grey and white dolomite cements. 101.5-114 is a rubble breccia with high											
	 	proportion of fine (3-4 cm) clasts, often platy. Also re-brecciated sparry dolomite. Spotty pyrobitumen in vugs. 114-125 grey insoluble-rich matrix is increasing in proportion. Spotty											
	 		-										
		disseminated sphalerite occurs between grey and white cement phases. Breccia-moldic fabric											
		locally prominent. 125-127 contains up to 3% reddish orange ZnS. Insoluble residues increase											
		to a "trash zone" 127-134 in which almost all sparry dolomite is rebrecciated and surrounded											
	 	by grey insoluble residues.											
		134-140.3; Dolostone: weakly rhythmic, medium and light grey, crystalline. Upper contact is											
	 	pseudobreccia gradational to breccia body. Some small rubble breccia pods, locally moldic											
		textures. Sparse crackle breccia.											
		140.3-163.8; Dolostone: rhythmic alternations of birdseye textured laminites and burrowed	 -										
	 	peloidal wackestones. Some amphipora bafflestone, possible moldic relics of cabbage strometoporo											
·····	-	Sparse grapestones. 158-163.8 dominantly birdseye textured. Numerous stylolites. Sparse crackl											
	<u> </u>	breccia. Minor pseudobreccia. Small pods dolomite cemented rubble breccia. Traces sphalerite.											
		163.8-164; Tectonic breccia											
· · · · · · · · · · · · · · · · · · ·		164-166; Dolostone: burrowed peloidal wackestone, stylolites, crackle breccia.											
·		166-169.5; Dolostone: Rubble breccia. Clasts are peloidal wackestones and birdseyed laminites.											
		Dolomite cement with sparse sphalerite. 168.5-169.5 shows small pockets of pyrobituminous	-										

DEPTH							
O L I I I I	DESCRIPTION 1 3 of 4						
ROM TO	DESCRIPTION						
	residues with neomorphic rhombs.						
	169.5-181; Dolostone: generally neomorphic peloidal wackestones. Irregular pseudobreccia and						
	porphrytopic intervals. Fine pockets of rubble breccia. Evaporitic, weakly nodular towards						
	lower contact. Common stylolites. Finely disseminated pyrite, traces sphalerite.						
	181-207; Dolostone: rhythmic alternation of burrowed peloidal wackestones and birdseye textured						
	cryptalgal boundstones. Selective oxidation of burrows gives locally prominant color variations.						
	Locally coarse pseudobreccia. Frequent stylolites, frequently pyrobituminous, occasionally with						
	disseminated sphalerite. Fine dolomite cemented fractures.						
	207-231.3; Dolostone: Weakly rhythmic, frequently neomorphic. No primary textures 217-231.						
	Burrowed, peloidal wackestones, occasional grapestones; numerous gastropods up to 3 cm in						
	diameter. Occasional short intervals of birdseyed cryptalgal laminites. Finely porphrytopic						
	and pseudobreccia textured intervals. Common stylolites. Pyrite as disseminations and a						
	colloform cement in small breccia pod at 214.4-214.6. Matrix-rich rubble breccia 217.6-220.6,						
	with sphalerite and pyrite disseminated in insoluble-rich matrix. 225.6-229.8 is a weakly mineralize						
	rubble breccia with fabric that suggests collapse of pseudobreccia, gradational downward into						
	pseudobreccia.						
	231-255; Dolostone: weakly rhythmic, grey and light grey burrowed peloidal wackestones.						
	234.5-235 is intraclastic packstone. 236-floating sand grains are the angular sand marker.						
	Common porphrytopic, neomorphic textures, occasional pseudobreccias and patches of zebroid fabric.						
	Common stylolites and stylolitic clay seams.						
	255-256.38; Mislatch: remaining material is weakly mineralized rubble breccia-about 5% ZnS-						
	but very little remains.						
	256.38-260.2; Dolostone: Strongly mineralized matrix-rich rubble breccia. Sphalerite with						
	dark grey insolubles and variably porphrytopic clasts. 2 cm of tectonic breccia crosscutting						

TEXASGUL		F INC.		DRIL	·	HOLE NO. 84-80	PAGE N 4_of 4			
	PTH	DESCRIPTION								
FROM	ТО					·				
		mineralization.								
		dropping as it be		finely crys	talline.	7-10% (esti	imate) pale bro	own sphalerite o	ver	
		interval of 3.8 m		* - 1 7 d ala			1 3 3 3 3 3 3 4 5	- 0		
		260.2-267; Dolos				· · · · · · · · · · · · · · · · · · ·				
	 	birdseye tëxture. form tectonic bre								
		267-279.9; Dolos								
		of pseudobreccia.					 			
		silt in fracture		10116695 00.	IIIC Gair 3.	Cy Scomou.	y cluy scams,	Millor Paropres	MITTOUS	
										
	279.9	END OF HOLE.								
				<u></u>						

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	<u> </u>							•	· · · · · · · · · · · · · · · · · · ·	
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HOLE NO. PROPERTY: Robb Lake TEXASGULF INC. 85-80 LOCATION (grid) Northeast B.C. NTS 94B DRILL HOLE LOG LOCATION(survey) 72397N 59627E CLAIM: MV 73 AZIM: ELEV:4789.5 ftDIP: Vert. SECTION: DIP TEST LOGGED BY: DEPTH: 337.11 m CORE SIZE: BO D.A. Bending DEPTH AZIM DIP STARTED: July 1, 1980 DATE LOGGED: July 1980 COMPLETED: July 4, 1980 285° 86.6° DRILLING CO.: Longyear Canada Ltd. 163 m CORE RECOVERY: 325 M 322° 85° >95% DEPTH REC'Y DESCRIPTION FROM TO 13.9 0 Overburden. 82 13.9 Unit B Dolostone 13.9-24.2; Dolostone, strongly rhythmic medium to light grey, generally burrowed, locally birdseye textured, peloidal wackestones. Many stylolites. Some intervals of coarse, locally vuggy pseudobreccia. Variably neomorphosed. Sparse dolomite cemented fractures. 24.2-82; Dolostone: weakly rhythmic, generally uniform grey and dark grey, burrowed (some places delicately laminated) silty. Locally sandy peloidal (grapestone) wackstones. Abundant, often pyritic stylolites that inplaces coallesce to secondary pryobituminous clay seams. Sparse dolomite cemented fractures. Traces sphalerite and pyrite. Unit C 82-84; Dolostone: silty, locally sandy grey and dark grey. Locally birdseye textured. crackle breccia and a small pod of rubble breccia are cemented with dolomite, quartz, galena and sphalerite. Some tight tectonic breccia. 84-113.8; Dolostone: Rubble and mosaic breccia. Angular fragments. Dolomite cement Silty, birdseye textured, peloidal, sometimes burrowed. Weakly rhythmic color and texture variations. Traces pyrite, sphalerite. 113.8-143.4; Dolostone: rubble breccia. Clasts mixed and randomly oriented. Light grey and white dolomite cement. Primary lithologies dominantly peloidal wackestones, birdseve

TEXA	SGUL	F INC. DRILL HOLE LOG	HOLE NO. PAGE NO. 85-80 2 of 3						
DEPTH		DESCRIPTION							
FROM	то								
		textured laminites. Crystallinity increases with depth. Some ch							
<u>.</u>		especially toward base of interval. Several 10-20 cm intervals o	f grey insoluble residue matrix,						
	·	increasing common near base of interval. Some fragments platy, 1	ike collapsed zebroid bands,						
		traces pyrite.							
	•	143.4-193.1; Dolostone: rubble breccia short intervals of mosaic breccia at 165-							
		165.5, and 177.5-180; Clasts consist of grey and light grey cryst							
		peloidal wackestones, birdseye textured, sometimes amphipora bear	- prii 						
		and moldic textured spar. Occasional short intervals with abundant grey matrix, some of which has							
		geopetal structures indicating rotation after brecciation. Scattered post brecciation stylolites,							
		locally pyrobituminous.							
		193.1-205.4; Dolastone: medium-light grey peloidal, occasionally	amphipora-bearing contact defined						
		by increase in crystallinity and lighter dolor. Some well develo							
		breccia, dolomite cemented fractures. Pryobituminous stylolites.							
		205.4-236.8; Dolostone: light grey, unifrom, medium to finely cry	stalline. Scattered faint burrows						
		and peloids. Some pseudobreccia, locally corase, gradational wit	h pods of rubble breccia. Widesprea						
		porphrytopic texture. Many cm-sized voids with rotated geopetals							
		236.8-237; Angular sand marker. Light grey peloidal crystalline	dolostone with 10% floating sand						
		grains.							
		237-253.2; Dolostone: mottled (variably oxidized) grey and light	grey burrowed peloidal wackestone.						
		Several slump structures, forming matrix-rich breccias with defor	med clasts occur toward base of						
		interval. Weak crackle breccia, small pods of pseudobreccia, occ	asional stylolites.						
		253.2-253.5; Dolostone grading to very dark grey shale. Conforma	ble gradation from burrowed						
		peloidal light grey dolostone, through increase in organic compon	ents and clays. to shale.						

TEXA	SGULF	INC.	INC. DRILL HOLE LOG HOLE NO. 85-80									
DEP						DESCF	RIPTION					
FROM	то			·				· · · · · · · · · · · · · · · · · · ·				
		253.5-269.35: Sh							•			
		shale. Finely di										
		25° but not defor										
		269.35-283; Delo	ostone: bu	urrowed pr	<u>eloidal wac</u>	kestone.	Primary	textures di	iffuse, due to	<u>crystalli</u>		
		uniform light gre	ey color.	Numerous	short (les	s than 1	metre) in	tervals of	dolomite ceme	ented mosai		
		and rubble brecci	ia, some wi	ith platy	clasts suc	<u>igestive</u>	of settlir	g of zebroi	d fabrics. [3reccias		
		locally matrix-ri	ich. Lower	r contact	is defined	by a sm	all fault,	75° to cor	·e			
		283-310; Dolosto	one: grey	and medi	um to light	grey bu	rrowed pel	oidal wacke	stone. Weak]	v rhvthmic		
		color variations.	and the second s					•				
		slumps 283-288. 10 cm tectonic breccia at 294.6. Spotty pyrobitumen and relic chicken-wire fabric										
		306-309.										
		310-328.25; Dolo	ostone: Pr	rimary te	xtures very	/ faint.	Uniformly	finely cry	stalline, lic	ht arev.		
		weakly defined bu										
		rubble breccias.										
	328.25	END OF HOLE			,	·····		······································				
		LITE OF HOLE				***						
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PROPERTY	ایوی کا اما کیا بخدادی صدیب میبرد.	Lake theast B.C.	NTS 94B	T	EXAS	SGUL	FIN	C.	HOLE NO. 86-80		
		2245N 58488E			DRILL	HOLE	LOG	•.	CLAIM: MV 73		
AZIM:		:4805.5 ftDIF		SECTION:							
DEPTH:	325.22 m	CORE SIZ	E: BQ	BQ DIP TEST LOGGED BY: D.A. Bending							
STARTED	· Jul	y 5, 1980			DEPTH	AZIM	DIP		DATE LOGGED: July 1980		
COMPLET	ED: Jul	y 8, 1980			160 m	75°	89°		DRILLING CO. : Longyear Canada Ltd.		
CORE RE	COVERY:	> 95%			318 m	218.5°	88.5°	,			
DE	PTH	25014		2			000000	101			
FROM	70	REC'Y					DESCRIPT	ION			
0	11		0verburder	l	·		1				
11	131.9	• .	Unit B. [Dolos	stones.						
				1-22.6: Dolostone: strongly rhythmic color and texture variations, burrowed peloid							
		·	ł .	ckestones, occasional birdseye textured cryptalgal laminite. Common, locally							
			L		l bands. Lo	_					
			22.6-54.5;	Do	lostone; st	rongly rhytl	nmic color a	nd t	exture variations reflecting		
			transgress	ive-	progradation	nal sequence	es. Burrowe	d, s	ilty, peloidal wackestones, well		
			laminated	silt	ty peloidal mudstone, birdseye textured cryptalgal laminites. Occasional						
			grapestone	. D	essication (cracks at 29	9-30. Rubb]	e br	eccia 25.5-27.5. Common pseudobreccia,		
			frequent s	tylo	lites. Some	e very ligh	t grey inter	vals	display no primary texture. 51-53		
			contains n	umer	ous banded	void filling	gs that cros	scut	the zebroid fabric. 53-54.5 is		
			dolomite o	emen	ted rubble	breccia.		والمالية والمساورة			
				.5-82.6; Dolostone: strongly rhythmic color and texture variations. Dark to light							
			grey. Dor						e and birdseye textured cryptalgal		
		<u> </u>	laminites			ls pseudobr	eccia best o	le ve 1	oped at 69-72. Sparse crackle breccia		
			fine style	olite	es.	•					
	<u> </u>		82.6-125.8	3; [Dolostone: r	hythmic, wi			bunits progressively less common		
.	1	1				•					

TEXASGUL	F INC. DRILL HOLE LO)G	HOLE NO. 86-80	PAGE NO 2 of 3						
DEPTH	DECC	DIDTION								
FROM TO	DESCI	RIPTION								
	with depth, and 115-125.8 uniformly grey and medium to	dark grey. Frequentl	y silty, some s	andy						
	intervals (sand less than 10%). Occasional birdseye te	extures progressively	less common, wi	th						
	none below 107.2. Lithologies dominantly burrowed var	<u>iably silty peloidal w</u>	ackestones, sil	ty						
	delicately laminated dolomite mudstones. Common stylo									
	secondary clay seams. Small pods of mosaic and rubble	breccia with shones o	f pyrite and sp	halerite						
	in snow-on-the-roof habit.									
	125.8-131.9; Dolostone: B/c contact zone. Silty, med	ium to dark grey, occa	sionally birdse	ye						
	textured; some purrowed, some delicately laminated.									
31.9 328.2	Unit C . Dolostones.									
	131.9-140.82; Dolostone: medium and medium-dark grey, silty, birdseye textured cryptalgal laminite,									
	minor dolomitic sandstone, some delicately laminated silty dolostone. Weak dolomite cemented									
	crackle breccia. 140.82-166; Dolostone, breccia and pseudobreccia. Ligh grey, variably crystalline, generally									
	neomorphic. Relic primary textures include peloids, gr									
	well developed pseudobreccia and rubble breccia, 140.8			ith						
	pseudobreccia and crackle breccia intervals. Multiple									
	by brecciated dolomite cement. Traces sphalerite. Weak but widespread shearing.									
	166-175; Dolostone: medium and light grey; sparse bird	dseve textures, peloid	s. occasional o	rapestone						
	166-175; Dolostone: medium and light grey; sparse birdseye textures, peloids, occasional grapestones Much is neomorphic. Stylolites, sparse sphalerite cemented crackle breccia, nodular sparry dolomite									
	pods, pseudobreccia; rubble breccia 171-172.5.									
	175-198.6; Dolostone: medium to very light grey weakly rhythmic, dominantly neomorphic. Faint									
	birdseye textures, amphipora, pelecypod, and peloid relics in crystalline dolostone. Dominantly									
	porphrytopic, with pods of pseydobreccia, minor rubble									
										

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328.2 END OF HOLE	328.2 END OF HOLE		porphrytopic texture. Numerous small (1-2 cm) ovoid vugs line	d with uniform light grey dolomite.										
		328.2	END OF HOLE											

PROPERT			NTC OAD		EXAS	GUL	F IN	C.	HOLE NO. 87-80			
		rtheast, B.C.				•	• •					
		72207N 57038			DRILL	HOLE	LOG	• .	CLAIM: Rob 44			
AZIM		:4929.6 ft DIF				VID TEAT			SECTION:			
DEPTH:			E: BQ									
STARTE		9, 1980		·	DEPTH	AZIM	DIP		DATE LOGGED: July 1980			
COMPLE.	TED: July	13, 1980			169.2 m	50°	-89.5°		DRILLING CO. Longyear Canada Ltd.			
CORE RE	COVERY:	95% حـ			326.9 m	. 65°	-89°					
DE	НТЯ	REC'Y		•	•		DESCRIPT	TON				
FROM	TO	RECT	•				DESCRIP	ION				
0	17.4		Overburden				•					
17.4	163		Unit B Do	Inst	ne							
						vthmic cold	r and textu	re va	riations. Generally silty, with			
									rey burrowed silty peloidal wackestones,			
			1	birdseye textured laminites. Occasional pelcypod fragments. Some grapestones. Frequent								
			1						udobreccia. 32-35 is coarsely			
									ia textured.			
	·		47.7-72.55	, Do	olostone: Rhy	ythmic colo	r and textu	re va	riations, dominantly light grey,			
			neomorphic	, fir	nely crystall	ine. Burrow	ed peloidal	wack	estone, some intervals birdseye			
			textured c	rypta	algal bourds	tone, local	ly silty.	Spott	y pseudobreccia, locally pervasive			
			and coarse	, wie	despread por	phrytopic t	exture, sma	11 po	ds rubble breccia. Many dry, tight,			
			weakly lead	weakly leached fractures. Traces sphalerite.								
			72.55-76.8; Fault-dominant shear direction is about 30° to axis of core. Completely									
			shattered and leached.									
			76.8-96.5; Dolostone: medium to light grey, rhythmic sequence of burrowed peloidal									
	·							.,	Widespread pseudobreccia, zebroid,			
								-	te and dolomite cement.			
·			'	,					- A Company of the Co			
				-			And the latest and th	A. Section 14				

TEX	ASGULF	F INC. DRILL HOLE LOG	HOLE NO. PAGE NO. 2 of 4								
	тн Т		87-80 2 of 4								
FROM	то	DESCRIPTION	•								
		96.5-110.1; Dolostone: rhythmic, medium-dark grey to medium-ligh	t grey, dominantly burrowed								
		peloidal packstone and wackestone. 101-101.8 is finely laminate									
		short (20 cm) intervals of birdseye textures. Pervasive crackle									
		rubble breccia with gradations into mosaic and pseudobreccia hab									
		and ZnS occur with dolomite, quartz, and pyrite as cements. Num									
		for sulphides is 104.2-105.2, with estimated 1.0 to 1.5% combine									
		110.1-111.2; Gouge-Fault zone. Shears about 10° to core.									
		111.2-123.5; Dolostone: rhythmic color and texture variations f	rom grey, peloidal birdseye-								
		textured bourdstones, light grey burrowed peloidal wackestones,	and pale crystalline dolostone.								
		Fine zebroid and pseudobreccia textured pockets, widespread crackle breccia with traces of galena									
		in dominantly dolomite cement.	olomite cement.								
		123.5-140.6; Dolostone: weakly rhythmic, dominantly birdseye textured, grey, peloidal.									
		Occasional grapestones. Sparse crackle breccia, pods of dolomite cemented rubble breccia.									
		140.6-163; Dolostone: weakly rhythmic, generally very uniform	silty peloidal wackestone.								
		Burrowed, massive intervals alternate with delicately laminated	beds. Sparse dolomite cemented								
		crackle breccia. Occasional stylolites.									
163	341.2	Unit C									
		163-177; Dolostone: silty, weakly rhythmic, peloidal, medium an	d dark grey, frequently birdseye								
		textured dolostone. Sparse crackle breccia cemented with dolomi	te and pyrite. Traces sphalerite,								
1		galena.									
		177-219; Dolostone; rhythmic color and texture variation but d	lominantly light grey. Light grey								
,		burrowed and peloidal wackestones, grey and medium-dark grey bir	dseye textured cryptalgal laminite								
											
		interbeds. Pelecypod moulds up to 15 cm in diameter. Short int	ervals intraclastic wackestones.								

TEXA	ASGUL	F INC.		DRILI	L HÖLE	LOG		HOLE NO. 87-80	PAGE NO		
DE	РТН										
FROM	то	DESCRIPTION									
		texture, pseud	obreccia. local	lly coarsel	y crystalli	ne. crackle	breccia, shor	t (1-2 m) into	ervals		
			cia. Traces sp								
		219-231; Dolo	stone, medium a	and light g	rey, rhythm	nic, grapest	one-peloid pac	kstones and w	ackestones,		
		locally silty,	sparse sand, b	oirdseye te	xtures prom	ninant in so	ome intervals.	Burrowing lo	cally		
·	·	prominant. No	dular anhydrite	moulds 230	0-231. Per	vasive dolo	omite cemented	crackle brecc	ia, some		
		mosaic breccia	, pods pseudobr	reccia and	zebroid fab	ric.			·		
			lostone: Rubbl								
			crystallinity.						<u></u>		
			s dominantly li	ight grey,	peloidal, g	enerally ne	omorphic but s	ome peloidal	grapes tone		
· · · · · · · · · · · · · · · · · · ·		wackestone.							**************************************		
		245.4-281.05;	15.4-281.05; Dolostone: weakly rhythmic, light grey and very light grey. Grapestone bearing								
		peloidal packstones, some birdseye textured intervals, mostly burrowed peloidal rocks. Amphipora									
		rubble, one gastropod 5 cm in diameter, and lpelecypod 10 cm indiameter occur in this sequence.									
		Two short sandy intervals occur, one of which is labelled as the angular sand marker. 2701.1-									
		270.4 - angular sand marker; 273.0-274.1 - sandy, silty interval. Pseudobreccias occur in several									
		2-3 metre inte	rvals. 250-252	2.5 is rubb	le breccia,	gradationa	l at both cont	acts with pse	udobreccia		
		Scattered styl	olites. Short	intervals	crackle bre	ccia. Trac	es ZnS in stee	p fracgures 2	77-279.		
		281.05-312; D	olostone: grey	and light	grey, rhyth	mic, domina	ntly neomorphi	c, burrowed pe	eloidal		
		wackestone wit	h short birdsey	/e textured	laminated	intervals.	Generally por	phrytopic, som	ne zebroid		
		and collapsed	zebroid structu	ıres, commo	n pseudobre	ccias that	vary from spot	ty to coarse a	and well		
		developed.		,							
		312-216.85; D	olostone: rhyth	ımic, grey a	and light g	rey, silty,	with sand con	tent varying	(up to		
			of dolomitic sa								
		textured inter									
		316.85-341.2;	Dolostone; li	ight grey,	uniform (be	coming proc	essively more	uniform with	don+h)		

TEX.	ASGUL	F INC.	DRILL HOLE LOG	HOLE NO. PAGE NO 87-80 4 of 4
DE	PTH		DESCRIPTION	
FROM	то			
		burrowed, peloidal	. finely crystalline. Occasional dessication cr	acks. Small pods pseudobreccia.
			c texture. Many stylolites, some of which form	secondary clay seams. Minor
		mosaic and rubble	breccia.	
	341.2	END OF HOLE.		
	341.2	LIND OF HOLL.		

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PROPERT		Lake		TEXAS	SGIII	= INC	HOLE NO. 88-80					
LOCATION	N(grid) Nort	theast B.C. I	NTS 94B	·	•		1					
LOCATIO	N(survey) 7	73248N 57027E		DRILL	HOLE	LOG	CLAIM: Rob 43					
AZIM:	ELEV	: DIP	¹ Vert	,			SECTION:					
DEPTH	385.88 m	CORE SIZE	: BQ	DIP TEST LOGGED BY: D.A. Bending								
STARTEC): Jul	y 15, 1980		DEPTH	AZIM	DIP	DATE LOGGED: July 1980					
COMPLE.	TED: Jul	y 19, 1980		190.5	315°	-88°	DRILLING CO.: Longyear Canada Ltd.					
CORE RE	COVERY:	> 95%	·	382.9	330°	-87.5						
DE	PTH	proly	, .		,	0500000	ON					
FROM	TO	REC'Y	• ,	•	·	DESCRIPTI	ON					
0	2.5		0verburder	1.								
2.5	167.5		Unit B									
			2.5-17.4;	Dolostone: med	ium and ligh	nt grey, rhyt	thmic; silty, sometimes birdseye textured					
			peloidal v	vackestones, som	e crystalli	ne intervals:	; many fire zebroid banda, pseudobreccia					
			that is us	sually patchy bu	t locally c	parse and gra	adational with mosaic breccia. Scattered					
			traces py	robitumen. Very	weakly dev	eloped crackl	le breccia.					
		·	17472;	Dolostone: gene	lostone: generally silty and sandy, with some very pale intervals devoid							
			of silt.	Strongly rhythmic color and texture variations; medium-dark grey to light								
			grey. Si	lty, sandy birdseye textured cryptalgal laminites, laminated silty peloidal								
			packstones	ones (bedding 63° to core), crystalline, vaguely peloidal wackestones. Small								
			areas of a	zebroid and pseu	dobreccia f	abric, accomp	panied by pyrobitumen. Hairline fractures.					
	•		Sparse sty	se stylolites.								
			72-107.0;	Dolostone: (un	it distinct	ion is freque	ency of breccias). Primary lithology					
			, is a weak	ly rhythmic sequ	ence, mediu	n dark grey i	to light grey, silty, peloidal, burrowed					
			or delicat	tely laminated.	Some slump	textures ove	er short intervals occasional interclasts.					
			The inter	terval is mostly sparse crackle breccia with numerous intervals of rubble and								
		·	mosaic bro	eccia: 72-77.5 i	s dolomite	cemented rubb	ole breccia with disseminated pyrite					
						11.00	1989 to the control of the control o					

*************************************	SGUL	F INC. DRILL HOLE LOG	HOLE NO. 88-80	PAGE NO 2 of 4							
DEP		DESCRIPTION									
ROM	то			_							
		in and rimming clasts, traces of sphalerite, traces of pyrobitumen. Seve	<u>eral other interv</u>	/als							
		are matrix-rich mosaic and rubble breccia:									
		89-91 has traces sphalerite, 92.5-93.5 has traces ZnS, 95-97 contains sph									
		a maximum of 1.5 metres with 0.5% Pb, 0.5% Zn. Spotty pseudobreccia and	zebroid textures	are							
		scattered through the crackle breccia and unbrecciated intervals.	deleteration object								
		107.0-128.0; Dolostone: silty, peloidal, rhythmic, medium-dark grey to li									
		with diffuse birdseye textures. Locally well laminated. 10 cm amphipora									
	, 	Many stylalites, sparse crackle breccia, short intervals pseudobreccia, m 128.0-136.6; Dolostone: Generally silty, peloidal. Dominantly rubble br									
		cement. 131.2-133.9 is not brecciated, is characterized by peloidal wacket									
		birdseye textured cryptalgal laminite.	25 CORE OVER TAIL	y perorua.							
		136.6-148.5; Dolostone: strongly rhythmic texture and color variations. Burrowed peloidal wackestone									
		interbedded with birdseye textured cryptalgal laminites. Some short intervals silty. Zebroid,									
		pseudobreccia, and crackle breccia textures occur irregularly.									
		148.5-167.5; Dolostone: weakly rhythmic, very finely crystalline. Burro	owed silty peloid	dal wackest							
		some sandy intervals, rare stylolites. Locally delicate laminae.									
67.5	385.1	Unit C									
	***************************************	167.5-174; Dolostone: Rhythmic, medium and dark grey, silty, birdseye t	textured cryptal	gal laminit							
		and peloid-grapestone wackestones. Sparse fractures, dolomite cement.									
		174-186.9; Dolostone: grey silty, locally sandy, birdseye textured cryp	ntalgal laminite								
		Lower contact is a sharp hiatus, overlain by very sandy, silty, dolostone.		1 a							
		186.9-198.5; Dolostone: medium and light grey, (occasionally silty, sand		aintly							
		burrowed peloidal wackestones, short intervals birdseye textured laminite									
	-	cemented crackle breccia below an interval 186.9-190 that is crystalline,									

·	•	•				•	•			
TEXA	ASGUL	F INC.		DRILL	HOLE L	OG .		HOLE NO. 88-80	PAGE NO. 3 of 4	
DE	PTH				2 7 2					
FROM	то				DESC	CRIPTION				
		with zebroid, pseud	obreccia, an	d rubble bre	ccia textur	es. Upper	contact is a	scour surface,	with	
		a truncated nodular	texture. S	cattered tra	ces ZnS, Pb	S. Widesp	read, irregul	lar rubble and m	osaic	
		breccia, zebroid a	nd pseudobre	ccia texture	s. Pyrobit	uminous st	ylolites.			
		198.5-228; Dolostor	e: dominant	ly rubble bro	eccia, some	intervals	crackle and	mosaic breccia.		
	·	Primary lithologies	weakly rhyt	hmic, light	to medium-d	lark grey;	short interv	als with birdsey	'e-	
		textures. Occasion	al sand, sil	t. 217-225	contains sc	attered gr	apestones in	peloidal wackes	tone.	
		Breccias cemented w	rith dolomite	-grey and wh	ite sequenc	e common t	o major brec	cia bodies. Some	tabular	
		neomorphosed clasts	. Sparse di	sseminated p	yrite, some	brecciate	d pyrobitumer	n, traces sphale	rite.	
		228-246.65; Dolosi	one: Peloida	l wackestone	, birdseye	textured p	eloidal lamin	nites, vaguely m	nottled	
		crystalline dolostone. Textures frequently neomorphic, secondary. Zebroid and pseudobreccia								
		fabrics are promina	nt. Scatter	· probitumino	us stylolit	es. 239-2	42 is rubble	and mosaic bred	cia,	
		pyrite and dolomite	cement, tra	ces sphaleri	te with gre	y and pyri	tic residues	along stylolite	:s.	
		246.65-272.5; Dolostone: rhythmic color and texture variations; medium dark grey to medium light								
		grey. Birdseye textured cryptalgal laminites intercalated with burrowed peloidal wackestones.								
		Occasional grapestone. Short intervals with floating sand grains. Occasional hairline fractures,								
		stylolites. Widespread weakly porphrytopic texture; well developed zebroid and pseudobreccia								
		textures in some in				ccia and r	ubble brecci	a in the interva	.1	
		259.5-260.5 to grades of about 2% Zn over 1 metre.								
		272.5-302.9; Dolos	tone: Rhythm	nic. Medium-l	ight grey t	o medium-d	ark grey. Mo	ostly burrowed p	eloidal	
		wackestones, short	intervals bi	rdseye textu	red laminit	es, occasi	onal grapest	ones. Widesprea	ıd	
		crackle breccia. S	Sparse, spott	y zebroid an	d pseudobre	ccia textu	res. Widesp	read prophrytopi	С	
		texture. Widesprea	nd, trace amo	ounts of spha	lerite. Nu	merous pyr	itic styloli	tes.		
		302.9-304.05; Sand	ly, peloidal	packstone.	Angular san	ıd marker.	.Mosaic brec	cia, stylolites.		
		304.05-312.8; Dolo	ostone: Pale	e, generally	crystalline	. Promina	nt pseudobro	eccia, rubble br	eccia	

ΓEΧΑ	SGULF	INC. DRILL HOLE LOG	HOLE NO. 88-80	PAGE NC								
DEF	אדי	DECORIDEION										
ROM	то	DESCRIPTION		· · · · · · · · · · · · · · · · · · ·								
		with dolomite cement and matrix of dark insoluble residues at base	Traces sphalerite, wi	ith								
		best concentrations at 307-309 with two metres about 0.9% Zn.										
		312.8-324.7; Dolostone: Rhythmic, medium light grey to medium dark of	grey, burrowed peloida	1]								
		wackestone. Some pseudobreccia, widespread prophrytopic texture. Se	everal black styloliti	ic								
		clay seams.										
		324.7-359.5; Dolostone: light grey, locally very light grey, dominantly neomorphic, but pr										
		lithology is peloidal, burrowed wackestones, occasional grapestones,	one pelecypod mould a	it 338.								
		Porphrytopic and pseudobreccia textures are prominant; sparse, patchy	7 zebroid texture. Nu	ımerous								
		stylolites. Sphalerite occurs finely disseminated in prophrytopic in	ntervals, as cement wi	th pyrite								
		in rubble breccia, and along pyritic secondary clay seams.		41 Carlo								
		359.5-370.5; Dolostone: Rhythmic color variations, very little primary fabric. Faint burrows,										
		possible amphipora relics. Rubble breccia, short intervals undisturbed porphrytopic dolosto										
		Breccias has dolomite cement, pyrobituminous matrix, traces and shine										
		370.5-385.1; Dolostone: Weakly rhythmic, tending toward uniform, 1										
		and birdseye textured, frequently porphrytopic dolostone. Irregular,										
		Many fine vugs lined with isopachous grey dolomite. Traces pyrite in	ı late voids in pseudo	breccia.								
		Some pyrobituminous stylolites.										
	385.1	END OF HOLE.										
			· .									

•											
	PROPERTY: Robb Lake LOCATION(grid) Northeast B.C. NTS 94B LOCATION(survey) 73328N 59397E AZIM: ELEV: 5097.4ftDIP: Vert DEPTH: 320.34 m CORE SIZE: STARTED: July 20, 1980					EXAS			C.	CLAIM: Cleo_2	HOLE NO. 89-80
						DEPTH AZIM DIP				SECTION: LOGGED BY: D.A. Bending DATE LOGGED: July 1980	
	COMPLETED: July 23, 1980 CORE RECOVERY:					160 m 318.6	190°	-89° 90°		DRILLING CO. 1 Long	year Canada Ltd.
	DE FROM	HT9	REC'Y	•		· .		DESCRIP	TION		•
	0	21.4		0verburde	n						
	21.4	142.4			Dolostones						
			·	21.4 45.1	.15; Dolostone: rhythmic. peloidal. burrowed, some places silty, wackestone.						
				i '						t 37 m. 30-35 is neomo	
				pseudobre	ccia	, with many s	stylolites.				
				45.15-64;	Dolostone: rhythmic color and texture variations. Silty, peloidal,						
•				locally l	laminated but generally burrowed grey, light grey, and medium to dark grey						
				wackeston	es a	nd packstones	s. Some st	ylolites.	Spars	e crackle breccia. Sh	ort interval
						50.2-50.8.					
										stone-packstone clasts	
					اخددن الماجينية	بمرسط تزعمه فبالأمي وسائله اسائنا الأسانده بجشنده		impregnati	ons.	Dolomite cement excep	t for short
•				intervals	wit	h pyrite ceme	ent.				
				70-121.2;	Do 1	ostone: str	ongly rhyth	mic color a	nd te	xture variations; medi	um dark grey
,										faintly birdseye textu	
				at 90-95)	bir	dseye texture	ed cryptalg	al laminite	s, bu	rrowed peloidal wackes	tones and
										l sparse crackle brecci	
							والمراجعة المحمر الباليان بالمحمولية والمحمولية			ed pockets of pseudobr	eccia and
	1 .	1		porphryto	pic texture.						

		•	•	•					•.				
		•	•		•	,		•					
TEX	ASGUL	F INC.	ν.	DRILL	HOLE	LOG		HOLE NO. 89-80	PAGE NO. 2 of 4				
DE	EPTH					COOLDTI	ON						
FROM TO					<u>U</u>	ESCRIPTI	ON						
		121.2-128; Dol	ostone: silty.	peloidal.lo	cally bi	rdseye tex	tured. freque	ently delicately	/				
		laminated; clas	ts in rubble b	reccia with d	dissemina	ited pyrite	. scattered s	phalerite and o	alena				
		laminated; clasts in rubble breccia with disseminated pyrite, scattered sphalerite and qa subhedra, minor quartz, dolomite cement.											
	128-142.4; Dolostone: (generally a B/C contact zone, in this hole the contact is di												
		pinpoint). Silty, peloidal, locally burrowed, rarely birdseye textured grey and medium-dark											
		grey wackestone. (139.2-142.4 contains sphalerite, up to 1.5% Zn over 1 metre)											
142.4	322.8	Unit C					·	·					
		142.4-148.5; Dolostone. Medium-dark grey, silty, locally birdseye textured wackestone. Upper											
		contact is mosaic breccia, grading into crackle breccia, with traces sphalerite in dolomite											
		cement. 147.5-148.5 is rubble and crackle breccia with pyrobitumen clasts and traces sphalerite.											
		148.95-191.6; Dolostone: rubble breccia, short intervals of mosaic breccia and pseudobreccia.											
		Primary litholo	gy very weakly	y rhythmic in	color ar	nd crystall	inity; textur	es dominantly p	oeloidal,				
		locally silty,	some birdseye	s, some interv	vals prim	ninantly bu	rrowed. The	characteristic	sequence				
		of early grey i	sopachous cem	ent, traces sp	phalerite	e, and late	r white spar	occurs, but is					
·		dominated by the	ne early isopa	chous cement.	Some po	ds contain	abundant gr	ey insolubles.	165-170				
		is characterize	d by abundant	pyrobituminou	us matrix	k, and subr	ounded fragme	ents of early sp	parry				
		dolomite cement	. The matrix	grades downwa	ard to gr	rey, more c	arbonate-rich	material that	is neo-				
		morphosed in pl	aces. 174-17	shows brecci	ia-moldic	fabric.	173-175 conta	ins disseminate	ed sphalerite				
		and honey-color	ed sphalerite	euhedra in vu	ugs. 175	5-190 is ch	aracterized b	y pods of grey	matrix				
		in dominantly s	par-cemented	oreccia, and s	scattered	l sphalerit	e euhedra in	vugs in dolomit	te.				
		191.6-223; Dol	ostone: weak	ly rhythmic se	equence o	of grey and	light grey,	birdseye textur	red				
		cryptalgal lami	nites, occasi	onally sandy b	burrowed	peloidal w	ackestones; o	occasional grape	estones				
		and intraclasts	. Primary te	ktures become	less dis	stinct with	depth, with	progressive inc	reases				
		in crystallinit	ty along with I	orecciation, t	to 223.	Crackle br	eccias are wi	despread; 197-1	199.2,				
1	1	1							•				

	SGULF	INC. DRILL HOLE L	LOG	HOLE NO. 89-80	PAGE NO 3 of 4								
ROM	H TO	DESCRIPTION											
ROM		02 1 202 9 204 205 2 212 0 212 4 210 0 210 6 am	4 210 E 220 0 wibble	broccia Sc	*++orod								
		202.1-202.8. 204-205.3. 212.9-213.4. 218.0-218.6. and 219.5-220.8 are rubble breccia. Scatter porphrytopic and pseudobreccia lenses. Traces sphalerite.											
		223-240.6; Dolostone: grey and light grey, weak color variations. Primary textures lost											
		crystallinity, excepting zebroid and pseudobreccia fabrics gradational with rubble brec Most clasts in rubble breccias that dominate the interval are zebroid textured. Light											
		and white dolomite cement, with milimetre sized sphalerite euhedra and scattered traces of galena. 240.6-242.3; Sandy peloidal wackestone-dolostone: Angular sand marker.											
		242.2-289.8; Dolostone: dominantly burrowed peloidal wackestone, locally in crackle and											
		ubble breccias, with porphrytopic and pseudobreccia			S								
		rystalline dolostone, with porphrytopic, pseudobrec											
		oldic fabric. Traces ZnS in breccia at 298-249.5.	Numerous pyritic stylol	ites 261.5-264	١,								
		everal short, strata-bound rubble breccia pods occu	r between 266-289, none	of which is th	nicker								
		han 2 metres. Traces of sphalerite occur in brecci	as.	,									
		89.8-201.9; Dolostone: light grey, uniform, finel	y crystalline dolostone	fragments and	un-								
		otated septa in a rubble breccia body. 291-292, ov	erlying an unbrecciated	septum at 292-	292.5,								
		as a dark matrix and some breccia moldic texture.											
		0% of the interval displays a dark grey matrix. Py	rite and sphalerite are	present in tra	ice								
		mounts.											
		01.9-322.9; Dolostone: faintly rhythmic color and		 									
		niformly medium-light grey towards base of interval											
		extures, in dominantly burrowed wackestones. Burrow											
		nd color variations. Short intervals (less than l			fabric,								
		hort intervals of weakly mineralized pseudobreccia,	widespread porphrytopic	texture.	•								

		•		
·	·			The Table 19405 NO
TEXA	SGUL	F INC.	DRILL HOLE LOG	HOLE NO. PAGE NO. 89-80 4 of 4
,	РТН		DESCRIPT	TION
FROM	то			
		,	v crystalline peloidal. with numerous day	rk grev secondarv clav seams along
		stylolites.		
		-		
			terranium and antique (1900 antique) and a conservation of the con	
I	1	•		

						•	,						
PROPERT	Y: Rol	hh Lake		enth a	- From () 15 mm		pane 1 6, 1		HOLE NO.				
		rtheast B.C.	NTS 94B		EXAS	GUL	T IIV	U.	90-80				
ł .		not surveyed			DRILL HOLE LOG				CLAIM: Rob 42				
AZIM		:6813.3ft DIP			SECTION:								
DEPTH:	364.92 m				DIP TEST				LOGGED BY: D.A. Bending				
STARTE): <u>J</u>	ulv 24, 1980	***************************************		DEPTH	AZIM	DIP		DATE LOGGED: July 1980				
COMPLE	TED: J	uly 29, 1980			. 207.30	50°	-88.5		DRILLING CO.: Longyear Canada Ltd.				
CORE RE	COVERY:	> 95%	 		364.92	50°	-88°						
. DE	PTH	REC'Y				·	DESCRIP	TION					
FROM	ТО	1.60							rey to light grey, silty, locally lated with peloildal, occasional				
0	7.6	`	Overburder)		·							
7.6	217.8		<u>Unit B</u> Do	olostones									
	 		7.6-46.8;	Do	lstone: stro	ngly rhyth	mic, medium	-dark	grey to light grey, silty, locally				
			sandy; bir	rdseye textured cryptalgal laminites intercalated with peloildal, occasional									
				bearing wackestone. Locally delicately laminated. Occasional gastropod									
	ļ		·	ypod relics. Some intervals are very sandy, gradational with dolomitic									
				never more than 0.2 metres). Some spotty pseudobreccia and zebroid textures.									
			 					quart	tz cement. Traces sphalerite.				
	·				common toward								
				·	 	والمناطق وا			ght grey, silty, locally sandy,				
									rcalated with burrowed, sometimes				
									d silty peloidal wackestone-packstone.				
									quantities. Short (less than 3				
	•								Gradational through				
							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		crystalline dolostone. Occasional				
***************************************							-		le breccia in the dolomite and rarely				
			quartz cer	ment	. 82.6-87.3	is coarse			pale, pseudobreccia.				

TEXA	SGULF	INC. DRI	LL HOLE LOG	HOLE NO. 90-80	PAGE NO. 2 of 3						
DEPTH			DECCRIPTION								
FROM	то		DESCRIPTION								
		140.7-144; Dolostone: light grey, we	aklv peloidal. neomorphic: pseudobreco	cia and porphry	topic						
-		textures. Pyritic stylolites and seco	ondary clay seams.								
		144-173; Dolostone: rhythmic, light	grey to medium dark grey, frequently	silty, locally s	sandy,						
		peloidal wackestones and birdseye textured cryptalgal laminites. 164.8-165.2 is amphipora									
	· · · · ·	bafflestone. Scattered pods of pseudobreccia and zebroid texture, weak dolomite cemented									
		cemented crackle breccia. Small-2 cm brachiopod molds at 162.									
		173-191.1; Dolostone: generally silty, weakly rhythmic, medium to light grey. Birdseye textured,									
		locally burrowed, peloidal cryptalgal laminites. Frequent stylolites, some black secondary clay									
		seams. Very sparse dolomite cemented fractures.									
		191.1-217.8; Dolostone: very weakly rhythmic, grey and medium-dark grey, silty, peloidal laminated,									
		some burrows. Stylolites.									
217.8	364.92	2 Unit C									
		217.8-226.3: Dolostone: medium and light grey. silty. locally peloidal, with prominant b									
		textures, grading down through a silt	, burrowed peloidal wackestone te a t	ransgressive basal							
		contact.									
		226.3-250: Dolostone: rhythmic, med	um-light grey with short medium grey	intervals, pelo	idal						
· ·		wackestone and birdseve textured cryp	algal laminites. Much is crystalline	faintly peloid	da].						
		with pseudobreccia and porphrytopic te	ctures. Small pods of zebroid texture	. Short interva	als						
		of locally vuggy rubble breccia. Mind		·							
			with medium-light grey clasts, peloio	dal and birdseye	9						
		•	vith dolomite cement, pyritic and pyrol								
		•	cia and in late cross-cutting fracture								
		259.5-305.4: Dolostone: variably lie			16						
			THE STEP WEEKLY THE COMMENCE THE STUME CO.	HICLY STATEMENT	10 9						

TEX/	ASGUL		AGE NO. 3 of 3								
DE	PTH	n E C C D I D T I O NI									
FROM	то	DESCRIPTION									
		burrowed peloidal wackestone, birdseye textured peloidal dolostones, some cryptalgal laminite									
		Occasional grapestone, pelecypod molds. Common short intervals pseudobreccia, zebroid texture,									
,		widespread dolomite cemented crackle breccia, pods of rubble and mosaic breccia. The interval	dolomite cemented crackle breccia, pods of rubble and mosaic breccia. The interval								
		278-279 is coarse pseudobreccia, gradational with mosaic and rubble breccia, prominantly vuggy.	/,								
		with some chickenwire textures.									
,		305.4-339.2; Dolostone: rhythmic, medium and light grey, occasionally silty, burrowed peloida	ıal								
,		wackestone and birdseye textured cryptalgal laminites. 320-321 contains lenses of amphipora									
		bafflestone. Widespread porphrytopic and pseudobreccia texture, sparse creackle breccia with									
		dolomite cement. 336-338 contains several intervals peloid-grapestone wackestone. Traces									
		phalerite and galena in porphrytopic textures and along stylolites.									
		39.2-349.8; Dolostone: rubble breccia with dolomite cement. Traces sphalerite. Best PbS + ZnS									
		neralization is 345.5-347, with an estimated 1% combined metals over 1.5 metres. Clasts are									
	<u> </u>	mixed lithologies but dominantly very pale, crystalline or weakly peloidal.									
		349.8-359.0; Dolostone: medium and light grey, weakly rhythmic color variations; pale crystalline									
		dolostone and burrowed. peloidal, (354.2-355.2 is silty) wackestone. Most has porphrytopic to									
		pseudobreccia texture. 351.9-353.2 is rubble breccia with dolomite cement, abundant pryobitum	inous								
		matrix.									
		359.0-364.92; Dolostone: medium-light grey to medium-dark grey, weakly rhythmic color and text	ure								
1	1	variations with sandy peloid grapestone wackestone, birdseye textured laminites; sand as sparse	e,								
·		isolated grains, less than 10%. Numerous stylolites.									
ł	364.92	END OF HOI-E.									
['										
	'										



