81 - # 401-9225

DIAMOND DRILLING REPORT

ON THE

CIRQUE GROUP

Paul River Area Omineca Mining Division

N.T.S.	94-F-6, 11	
Latitude:	57 ⁰ 30'	N
Lonaitude:	125 ⁰ 09'	W



By: W. J. Roberts CYPRUS ANVIL MINING CORPORATION

May, 1981

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N.T.S. 94-F-6, 11 Latitude: 57⁰ 30' N Longitude: 125⁰ 09' W



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LIST OF CLAIMS

	Claim No.	Record No.	No. of Units	Recording Date
CIRQUE	1	685	20	July 20, 1977
	2	679	20	July 25, 1977
	3	680	20	July 25, 1977
	4	686	18	July 20, 1977
	5	681	12	July 25, 1977
	6	682	18	July 25, 1977
	7	683	12	July 25, 1977
	8	684	20	July 25, 1977
	11	791	4	Sept. 19, 1977
	12	1246	9	July 18, 1978
	13	1316	9	Aug. 10, 1978
	14	1317	8	Aug. 10, 1978
	15	2201	9	Oct. 24, 1979
	16	2202	16	Oct. 24, 1979
	17	2203	12	Oct. 24, 1979
	18	2895	9	July 11, 1980
	19	2896	20	July 11, 1980
	20	2897	3	July 11, 1980

(ii)

INTRODUCTION

The CIRQUE GROUP, totalling 207 units, was staked to cover two gossans containing stratiform barite-pyrite-galena-sphalerite float mineralization near the head waters of the Paul River. Preliminary soil and silt sampling, prospecting and geological mapping during the 1977 field season indicated that the two showings were connected by over two kilometers of anomalous lead-zinc soil values.

Work in 1978 included:

1) 1:5000 scale geological mapping of a preliminary nature

- 2) additional soil sampling
- 3) 41 kilometers of horizontal loop EM surveys
- 4) 882 meters of diamond drilling in six holes

Although electromagnetics was unsuccessful in distinguishing sulphide mineralization within the graphitic Gunsteel shales it did prove useful in distinguishing major lithologic units on the basis of electromagnetic signature. Three drill holes in the "R" showing area failed to intersect any mineralization (78-C-01, 02 and 03). Drill holes 78-C-04, 05 and 06 intersected stratiform barite-sulphide mineralization over widths of 3.6 to 5.1 meters with grades ranging from 6.0 to 8.7 percent combined lead and zinc with 25 to 37 grams per tonne silver in the K showing area. A 1500 m diamond drill program was proposed for 1979 to continue testing the barite sulphide horizon.

Results of the initial drill holes in 1979 led to expansion of the original program. During the period, June 1 to October 23, 1979, 24 diamond drill holes totalling 8,063 meters were completed. Sixteen of the twenty-four holes intersected stratiform mineralization over widths ranging from 1.0 m in 79-C to 70 m in 79-C-23. Approximately 18.0 million tonnes grading 2.25% lead, 7.93% zinc and 48.7 grams/tonne silver were drill indicated at the end of the 1979 field season. An additional 15.0 million tonnes of similar grade was calculated as geological reserve.

During 1980 the Cirque was geologically mapped at scales of 1:2000 and 1:5000. Twenty-seven (27) diamond drill holes totalling 10,055 meters were completed by October 23, 1980. The 1980 drill holes were logged and most of the previous drill holes were relogged by the same date. In addition a 4,000 foot airstrip and semi-permanent camp called Finbow were constructed on the Finlay River (Figure 1).

LOCATION and ACCESS

The CIRQUE GROUP is located near the head waters of the Paul River in northeastern British Columbia. The claims cover a northwesttrending ridge between the Paul River on the southeast and an unnamed creek informally called Cirque Creek on the northwest. The property is centered 30 km east of Ware, 27 km south of Chesterfield Lake and 27 km northeast of Grave Mountain at latitude 57° 30' N and longitude 125° 09' W.

Fieldwork and diamond drilling were supported by helicopters based at the Finbow airstrip constructed during the early spring and summer of 1980 (see Figure 1). Logistic support was provided by fixed wing aircraft based at Mackenzie, 250 km to the southeast. Fuel and bulk cargo were moved by barge from Mackenzie to the north end of Williston Lake and shuttled either by air or by river barge the remaining distance to Finbow.

- 3 -



REGIONAL GEOLOGY (Figure 2)

Lower Devonian to Mississippian rocks are preserved in a series of synformal fold keels and thrust plates that form four sinuous, semicontinuous, northwest-trending belts. This package overlies and is overthrust by Upper Cambrian to Silurian strata belonging to the Kechika and Road River Groups. The Devonian to Lower Mississippian section can be split into four main subdivisions. The Lower to Middle Devonian limestones and shales are characterized by massive, grey, fossiliferous limestone (Kwadacha and Pesika Reefs), limestone debris flows and chert breccias that interfinger laterally with graptolitic shales, cherts and distal calcareous turbidites (Paul River Formation).

The Akie Formation comprises rusty brown and grey-weathering shale, silty shale and siliceous shale which unconformably overlie the Lower to Middle Devonian strata. Some shales which have been mapped as Akie Formation may be facies equivalents of the Lower to Middle Devonian units, or basal shales of the Gunsteel Formation. An unconformity between the top of the Silurian and the base of the Upper Devonian is indicated in drill core by the conglomeratic, reworked top of the Silurian Siltstone. The duration and regional nature of the unconformity are poorly understood. The problem is complicated by depositional thickness and facies changes in Lower to Middle Devonian strata and lack of paleontologic control.

The Gunsteel Formation consists of silvery-grey weathering, black, siliceous, carbonaceous shale and chert, and overlies the Lower to Middle Devonian package. The Gunsteel Formation is host for all

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known barite-sulphide mineralization and most of the known stratiform barite deposits in the region. It is described in detail in a following section.

The Warneford Formation is Upper Devonian to lower Mississippian submarine fans of chert and shale conglomerates in the west interbedded to the east with silty distinctly laminated shales which have thin dolomitic siltstone interbeds. The Warneford Formation is interbedded with and overlies the Gunsteel Formation. It locally contains nodular and bedded barite that may be stratigraphically equivalent to the barite in the Gunsteel Formation.

DIAMOND DRILLING

Two Longyear Super 38 and two Longyear 44 drills contracted by J.T. Thomas of Smithers, B.C. were used in 1980. A total of 27 holes were collared on the Cirque Group. All coring was done using NQ equipment except where drilling problems required reduction to BQ. Problems were encountered in long holes with excessive drill hole deviation and gouge zones related to normal faults. Drill holes were all surveyed at 100 to 300 foot intervals using Sperry-Sun, down-hole magnetic surveying equipment. This proved to be very effective except in a number of cases where the drill string had to be left in the hole.

Drilling in the Five Bear Creek Valley, south of the known Cirque Deposit failed to locate any significant mineralization in the host Gunsteel Formation (unit 8). The Pregnant Shale (unit 8S), the stratigraphic equivalent of the barite-sulphide facies in the Cirque area, was intersected in all holes and did contain horizons of laminar banded pyrite but the massive baritic facies was noteably absent. Although the pyritic horizons were not assayed during the 1980 program, rock chip sampling of all Gunsteel Formation for lithogeochemical trends will be completed in 1981. All core is presently stored in core racks on the property in a large alpine field in the northern portion of the claim group.

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CONCLUSIONS and RECOMMENDATIONS

The five drill holes collared in Five Bear Creek were unsuccessful in tracing the south extension of the Cirque deposit on Cirque claims 4 and 6. The Pregnant Shale, the stratigraphic equivalent of the massive barite-pyrite horizon, was intersected in all holes with minor laminar banded pyrite mineralization.

Further drilling is recommended to the west of drill holes 80-C-24 and 80-C-25 to test for massive barite-sulphide mineralization associated with a thinning of the Pregnant Shale - a trend that is apparent in the Cirque Deposit area approximately one kilometer to the north.

Respectfully submitted,

W. J. Roberts Senior Geologist, Base Metal Projects

APPENDIX I

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Page 1 of

CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

in u	Hole Number:	80-C-15		Fabi	ric Orie	ntation Dia	agram:
х же	Project: GATAGA						
	Location:	CIRQUE Claims, Five Bear	Creek			-	
	Claim:	CIRQUE # 4		····			
- Ì	Terr. Plan Co-ords.:	e (not surveyed).6 373 6	85	N			
ł		(not surveyed) 372 0	04	E			
	Grid Co-ords.:	274+60N, 294+80E				·	
60	Inclination:	-60 ⁰ towards 050 ⁰		All NW	symmetr	y determina	ations looking
	Elevation:	- 1470 m	$\frac{1}{SW} \qquad \text{with dip azimuth } \frac{220^{\circ}}{200}.$				
· /	Total Depth:	614.8 m					
	Purpose: To t	test the possibility of m	inerali	ization be	neath th	e south ki	11 zone.
	Reas	son for stopping: Reache	d limit	c of machi	ne, in b	arren east	panel of Pregnant Shale
** • • •	Logged by:	C. Jefferson, D. Perkins		Date(s) 1	Logged:	September	1980
ţ.	Drilling Contractor:	J. T. Thomas	<u>Core</u> :	Size	From	То	Collar Cased and Capped:NO
Ì				N casing	0	30.5	
		,	·	NQ	30.5	614.8	
					<u> </u>		
r			Starte	ed: Sept.	10/80	_ Cample	ted: 0ct. 2/80

DDH 80.-.C.-.1.5.

Diamond Drill Core Log



NOT SURVEYED

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Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
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R	80-1-1-115	1600	150.0	0,5,2,00	
R	80- 5-15	115115	14,6.0	946.0	
R	800,00,05	2,3,93	1,3,7,00	0,4,0.,0	3
R	80-10-15	2429	1.37.0	0,36,.0	
R	810-16-115	1313,44	13,6.0	93,21.10	@
R	80015-15	41258	1,3,4,.5	9331.0	6
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						block pole chip shale
-+		1 1/13	<u>E-33</u>	┠──└──└	1101	black laminater places chip shale
						with millor porcellance
		1793			I INT	siliceous black polcer chip strate
	<u>, L L I </u>	1 1819			1 185	blach siliceous massive hedded
						Presmont shale
		1/10175			1 1817	black Rominated policiclip stale
		11271			1 16H	black shale moderately siliceous
						with delomitic selfstone intubeds
		5002			ם5י ו	Massive competents, Raminated
						noriably bioturbated sittstone
Π	111	15,837	9445 1		1 185	Mossie bedded black phynon that
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CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

	Hole Number:	80-C-17		Fabric Orie	ntation Di	agram:
	Project:	GATAGA				
kace -	Location:	CIRQUE Claims, Five Bear	r Creek			
.	Claim:	CIRQUE # 4			•	· .
	Terr. Plan Co-ords.:	e (not surveyed) 6 373 685	N			
а 1 1		(not surveyed) 372 004	E			
建 合 ::::::::::::::::::::::::::::::::::::	Grid Co-ords.:	274+60N, 294+80E				
	Inclination:	Vertical		All symmetr	y determina	ations looking
at a constant	Elevation:	approximately 1470 m		wi wi	th <u>S</u> th dip azi	_ dipping muth 220 ⁰
₩ ·	Total Depth:	163.1 m				
under verster state	Purpose:	Test stratigraphy suggested	i by 80-C-1	5, test the	geochemica	l anomaly at
-	Logged by:	then footwall Silurian Silt D. Kilby	tstone. Date	(s) Logged:	Sected pres	gnant shale, er 1980
.	Drilling Contractor:	J. T. Thomas	Core: Size	e Fram	To	Collar Cased
.			N casi	ing O	30.5 m	and capped:
			NQ	30.5	163.1 m	
-		S	Started: _	Sept. 22/80	Complet	ted: Sept. 27/80

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Diamond Drill Core Log

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\Box				1.1.		with fine silfstone lominae
		11274			1 85	black mossive bedded siliceous
	111					pregnant Shale with minn
Ц						Rominan banded pyrite.
		1370			1161S	laminded siliceous black
\square		111				shale, minon light grey sillstone
Ц						interbeds and discontinuous
						shatiform pyrite.
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CYPRUS ANVIL MINING CORPORATION

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DIAMOND DRILL CORE LOG

Hole Number:	80-C-19		Fa	Fabric Orientation Diagram:					
Project:	GATAGA								
Location:	CIRQUE Claims								
Claim:	CIRQUE # 4		.			- -			
Terr. Plan Co-ords.:	e (not surveyed).6 373	850	_N						
2	(not survyed) 372	230	_E						
Grid Co-ords.:	275+30N, 296+50E								
Inclination:	60 ⁰ toward 050 ⁰	·	Al No	1 symmetry	y determin -h . West	dipping			
Elevation:	(not survyed) 1583 m	<u> </u>		<u></u> wit	h dip az	$\frac{220^{\circ}}{220^{\circ}}$			
Total Depth:	317.9 m								
· Purpose:	To test Black Clastic se	ction in	the Fi	ve Bear Cre	eek area.	Reason for			
Logged by:	stopping: Silurian Silt D. Kilby, C. Jefferson	stone fo	otwall. Date(s)	Logged:	October	5, 1980			
Drilling Contractor:	J. T. Thomas	<u>Core</u> :	Size	From	То	Collar Cased _{No} and Capped:			
		,	NW	0	71.6				
	·		NQ	71.6	317.9				
7									
		Starte	ed: Sep	t. 28/80	_ Cample	eted:0ct. 5/80			

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		12129			41	block growtulatic shale with gray
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		1.520			1 85	Lommated Ingrand Shale with
						large carbonate nodules and
.						Right quy siltstore and pyrite
						lominae.
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CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

Hole Number:	80-C-24	Fabric Orientation Diagram:
Project:	GATAGA	
Location:	CIRQUE Claims, Five Be	ear Creek area
Claim:	Cirque # 6	
Terr. Plan Co-ords.:	^e (not surveyed) 6.373 303	N
	(not survyed) 373 983	E
Grid Co-ords.:	L272+70E, approx. 291+00	ON
Inclination:	-60 ⁰ at 050 ⁰	All symmetry determinations looking
Elevation:	(not surveyed) 1303 m	With <u>opping</u> SW with dip azimuth 220 ⁰
Total Depth:	210.6 m	
Purpose:	Test down-dip extension of	f Pregnant Shale near geochemical anomaly.
Logged by:	Reason for stopping: Inte C. Jefferson, W. Roberts	ersected Pregnant Shale and into Silurian Siltstone. Date(s) Logged: <u>October 8, 9/1980</u>
Drilling Contractor:	J. T. Thomas	Core: Size From To Collar Cased and Capped:
		N casing 054.9
		NQ 54.9 210.6
		· · · · · · · · · · · · · · · · · · ·
		Started: Oct. 6/80 Completed: Oct. 9/80

DDH <u>80- c- 24</u> 2 8

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Diamond Drill Core Log

	Code	Drillhole	Elevation	Northing	Easting	Comments
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х.	T	80-1-24	111303	63173303	L 371983	
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CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

	Hole Number:	80-C-25		_ Fab	oric Orier	ntation Dia	gram:
	Project:	GATAGA					
	Location:	CIRQUE		-			
Ľ	Claim:	CIRQUE # 6, Five Bear	Creek			•	-
Î	Terr. Plan Co-ords.:	^e (not surveyed) 6 373 30	3	_N			
×		(not surveyed) 371 98	3	E			
	Grid Co-ords.:	L272+70E (291+00N)					
-	Inclination:	-90 ⁰		All	l symmetry	y determina	dipping
	Elevation:	1303 m (not surveyed)			W wit	th dip azim	$\frac{220^{\circ}}{220^{\circ}}$
	Total Depth:	272.2 m				•	
6.	Purpose: Tes	t down-dip extension of P	regnant	Shale.	Reason f	or stopping	: Intersected
	Pre	gnant Shale and footwall	siltsto	ne.	,		
-the stand	Logged by:	C. Jefferson		Date(s)	Logged:	October 14	, 1980
	Drilling Contractor:	J. T. Thomas	<u>Core</u> :	Size	From	То	Collar Cased and Capped: No
				N casi	ng O	33.5	
	I		,	NQ	33.5	272.2	
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ji stati			Starte	ed:	9/80	_ Cample	ted:

Cyprus Anvit Mining Corp.

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DDH <u>80-C-25</u> 2 8 Diamond Drill Core Log

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Cyprus Anvil Mining Corporation

300, 355 Burrard Street Vancouver, British Columbia V6C 2G8 Telephone (604) 687-2586 Telex 04508594

Appendix II

STATEMENT OF QUALIFICATIONS

I, WAYNE J. ROBERTS, geologist, with business address in Vancouver, British Columbia, and residential address in Coquitlam, British Columbia, hereby certify that:

1) I graduated from the University of British Columbia in 1968 with a BSc majoring in Geology.

2) From 1968 to the present I have been actively engaged as a geologist in mineral exploration in British Columbia and the Yukon Territory.

3) I am a Fellow of the Geological Association of Canada.

4) I personally supervised the field work on the CIRQUE GROUP and have interpreted all data resulting from this work.

WAYNE J. ROBERTS



Appendix III

SUMMARY OF COSTS

Salaries and Wages	
Norm Laube - Sept. 15 - 21st. Sept. 30 Oct. 11 - 15th	
13 days @ 50.	17/day \$ 652.21
Murray Biedler - Sept. 24, 25, 29, 30 Oct. 3 - 9, 11 - 15th 16 days @ 50.	17/day 802.72
Steve Smele - Oct. 12 - 15th 3 days @ 47.5	60/day 142.50
C. W. Jefferson - Oct. 3 - 18th 16 days @ 110	0.00/day 1,760.00
W. J. Roberts – Oct. 1 – 9th 10 days @ 145	5.00/day 1,450.00
D. B. Kilby - Sept. 15 - 30th	
16 days @ 145	i/day 2,320.00
Diamond Drilling	ψ /,12/.43
Drill Hole:	¢ 7. COC 70
80-C-15 614.8 m x \$121.40/m =	\$ /4,030./2 10 800 34
80-0-17 103.1 III X \$121.40/III = 80-0-19 317 9 m x \$121 $40/m =$	38,593.06
80-C-24 210.6 m x \$121.40/m =	25,566.84
80-C-25 272.2 m x \$121.40/m =	33,045.08
	\$ 191,642.04

Drill Site Preparation

- McCrory Holdings Ltd. - 2 men @ \$200/man/day from Sept. 5 - 20th

	16 days x \$400/day	\$ 6,400.00
Field Equi	pment and Supplies	5,727.75
Camp Maint	enance	20,216.94
Fuel	5000 gallons Turbo B @ \$2.50/gallon \$12,500.00 3000 gallons diesel @ \$2.00/gallon 6,000.00	
Rotary Wir	ng Viking Helicopter 500D - 86 hours @ \$300/hour \$25, Shirley Helicopters - 71 hours @ \$600/hour <u>42</u>	.800 .600
Fixed Wing	g 6 trips with twin Beech from Mackenzie 6 x 330 miles x 1.70/mile	\$ 68,400 3,366,00
Miscellane	eous Transportation 15% of total cost (8,868.66)	1,330.30
District E	Expense 15% of total cost (7,602.48)	1,140.37
Report Wr	ting W. J. Roberts, May 25, 26th (2 days @ \$230/day)	460.00
Drafting	C.L. Cory, May 27 and 28th (14 hours @ \$16/hour)	224.00

TOTAL DIRECT EXPENDITURES \$ 324,534.46

Cyprus Anvil Mining Corporation

300, 355 Burrard Street Vancouver, British Columbia V6C 2G8 Telephone (604) 687-2586

Telex 04508594

Appendix IV

Affidavit Supporting Summary of Costs

I, WAYNE J. ROBERTS, Geologist, Cyprus Anvil Mining Corporation, of Vancouver, British Columbia, do hereby state, that, to the best of my knowledge and belief the Statement of Costs in this report (Diamond Drilling Report on the CIRQUE GROUP) is a true account of expenditures incurred from exploration on the CIRQUE property.

WAYNE J. ROBERTS

Jure 20 DATE







