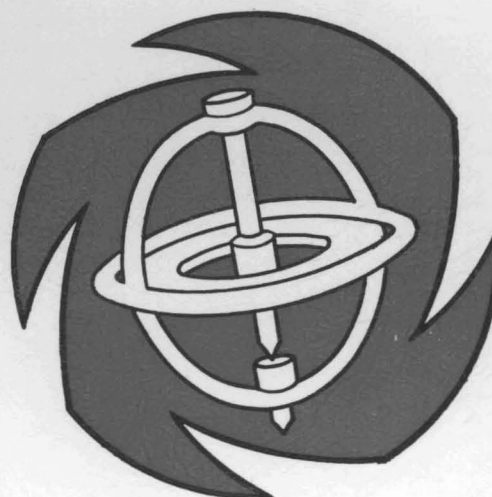


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**sperry-sun**  
OF CANADA LTD

78X-08  
DIRECTIONAL SURVEY REPORT  
for  
CYPRUS ANVIL MINING CORPORATION



Edmonton (403) 436-9602, Calgary (403) 264-6702

# sperry-sun

## DIRECTIONAL SURVEY REPORT

FOR

CYPRUS ANVIL MINING CORPORATION



TYPE OF SURVEY: 1-3/4" SURWEL GYROSCOPIC

SURVEY DEPTH: FROM 0 FT. TO 2350 FT.

LEASE: 78X08

FIELD:/AREA: FARD

PROVINCE: YUKON TERRITORY JOB NO. SU1.75-E-193

DATE OF SURVEY: JULY 6, 1978

OFFICE: EDMONTON, ALBERTA

SPERRY-SUN OF CANADA  
CYROSCOPIC DIRECTIONAL SURVEY

PAGE 1

CYPRUS ANVIL MINING CORP.  
78-X-08

SU-1.75-E-193  
07/06/78

TOTAL DEPTH	DIRECTION DEG MIN	ANGLE DEG MIN	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
	N 0 0 E	0 0	.00	.00 N	.00 E	.00	.00
100	S 71 0 E	1 3	99.99	.31 S	.87 E	.43	1.05
200	S 48 30 E	2 30	199.94	2.05 S	3.37 E	2.55	1.58
300	S 16 30 E	3 3	299.83	6.05 S	5.76 E	6.88	1.62
400	S 12 0 E	4 28	399.61	12.41 S	7.32 E	13.40	1.45
500	S 6 30 E	4 55	499.28	20.47 S	8.62 E	21.57	.64
600	S 5 15 E	6 10	598.81	30.08 S	9.59 E	31.21	1.26
700	S 11 15 E	6 35	698.19	41.05 S	11.20 E	42.30	.79
800	S 20 0 E	7 30	797.44	52.81 S	14.55 E	54.44	1.41
900	S 28 0 E	7 55	896.54	65.02 S	20.02 E	67.37	1.15
1000	S 37 0 E	8 5	995.57	76.72 S	27.48 E	80.10	1.26
1500	S 2 30 W	4 40	1492.62	125.15 S	47.77 E	131.14	1.07
2000	S 69 0 W	2 0	1991.87	148.61 S	38.73 E	152.86	.86
2350	N 49 0 W	4 25	2341.38	141.95 S	22.85 E	143.77	1.11

THE DOGLEG SEVERITY IS IN DEGREES PER ONE HUNDRED FEET.  
THE VERTICAL SECTION WAS COMPUTED ALONG S 9 8 E.

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS, THE BOTTOM HOLE  
DISPLACEMENT IS 143.77 FEET, IN THE DIRECTION OF S 9 8 E.

# 78 X 08

