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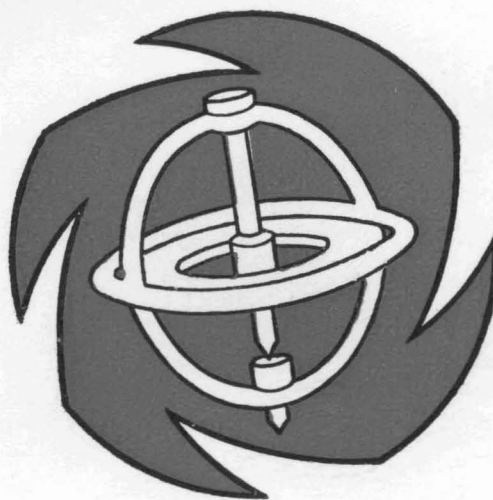
**sperry-sun**  
OF CANADA LTD

GYROSCOPIC DIRECTIONAL SURVEY

FOR

*79-X-05*

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: \_\_\_\_\_ GYROSCOPIC DIRECTIONAL SURVEY \_\_\_\_\_

SURVEY DEPTH: FROM \_\_\_\_\_ 00 \_\_\_\_\_ FT. TO \_\_\_\_\_ 703 \_\_\_\_\_ FT.

LEASE: \_\_\_\_\_ DY-79-X-05 \_\_\_\_\_

FIELD:/AREA: \_\_\_\_\_

PROVINCE: \_\_\_\_\_ ALBERTA \_\_\_\_\_ JOB NO. SU1.75-E-419A

DATE OF SURVEY: \_\_\_\_\_ JUNE 20, 1979 \_\_\_\_\_

OFFICE: \_\_\_\_\_ EDMONTON, ALBERTA \_\_\_\_\_

SPERRY-SUN OF CANADA  
GYROSCOPIC DIRECTIONAL SURVEY

PAGE 1

CYPRUS ANVIL MINING CORPORATION  
DY-79-X-05

SU1.75-E-419A  
19790620

TOTAL DEPTH	DIRECTION DEG	ANGLE DEG	VERTICAL DEPTH	LATITUDE METRES	DEPARTURE METRES	VERTICAL SECTION	DOG LEG
0	0.0	0.00	0.00	0.00 N	0.00 E	0.00	0.00
31	157.9	0.60	30.50	0.16 S	0.06 E	-0.13	0.59
61	284.9	0.50	61.00	0.27 S	0.02 W	-0.26	0.97
91	278.2	1.00	91.39	0.20 S	0.41 W	-0.29	0.50
122	295.4	1.60	121.89	0.03 N	1.06 W	-0.24	0.70
152	297.9	2.60	152.36	0.54 N	2.05 W	-0.01	0.99
183	313.2	3.40	182.82	1.48 N	3.32 W	0.57	1.11
213	321.0	4.00	213.26	2.93 N	4.65 W	1.63	0.77
244	320.7	4.60	243.57	4.70 N	6.09 W	2.96	0.59
274	316.0	6.20	273.94	6.83 N	8.01 W	4.52	1.63
305	320.0	7.10	304.23	9.46 N	10.36 W	6.45	1.00
335	328.0	7.80	334.47	12.66 N	12.67 W	8.95	1.22
366	334.2	9.40	364.63	16.65 N	14.85 W	12.24	1.82
396	347.2	10.70	394.57	21.64 N	16.56 W	16.62	2.57
427	342.7	11.20	424.51	27.23 N	18.06 W	21.63	0.98
457	341.3	11.70	454.40	32.99 N	19.93 W	26.71	0.56
488	343.7	11.70	484.27	38.89 N	21.79 W	31.92	0.49
518	341.5	14.20	513.99	45.40 N	23.85 W	37.69	2.51
549	348.0	13.30	543.52	52.36 N	25.76 W	43.91	1.77
579	347.3	13.20	573.21	59.19 N	27.25 W	50.12	0.18
610	349.7	12.20	602.96	65.76 N	28.60 W	56.12	1.11
640	351.1	11.60	632.81	71.96 N	29.65 W	61.83	0.66
671	347.0	12.00	662.66	78.08 N	30.83 W	67.44	0.91
703	351.0	11.60	694.57	84.62 N	32.11 W	73.43	0.83

THE DOGLEG SEVERITY IS IN DEGREES PER 30 METRES.  
THE VERTICAL SECTION WAS COMPUTED ALONG AZ. 15.0

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS, THE BOTTOM HOLE  
DISPLACEMENT IS 90.50 METRES, IN THE DIRECTION OF AZ. 339.2

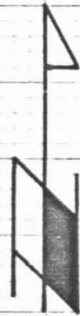
# CYPRUS ANVIL DY - 79 - X - 05

TSD 703 m  
TVD 694.57m

579

HORIZONTAL DISPLACEMENT IS 90.50 m  
IN THE DIRECTION OF AZ. 339.2

305



HORIZONTAL PROJECTION  
SCALE 2 cm = 10 m

30 20 10 0 10

80

70

60

50

40

30

20

10

0

10