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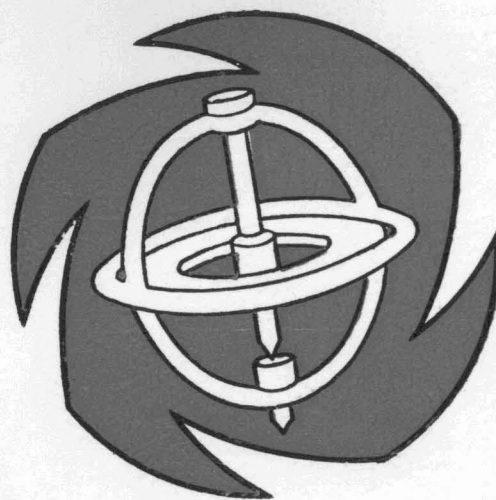
**sperry-sun**  
OF CANADA LTD

79-X-02

GYROSCOPIC DIRECTION SURVEY

FOR

CYPRUS ANVIL MINING CORPORATION



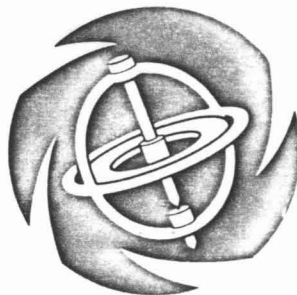
Edmonton (403) 436-9602, Calgary (403) 264-6702

# sperry-sun

## DIRECTIONAL SURVEY REPORT

FOR

\_\_\_\_\_  
CYPRUS ANVIL MINING CORPORATION  
\_\_\_\_\_



TYPE OF SURVEY: \_\_\_\_\_ GYROSCOPIC DIRECTIONAL SURVEY \_\_\_\_\_

SURVEY DEPTH: FROM \_\_\_\_\_ 00 M \_\_\_\_\_ m TO \_\_\_\_\_ 671 M \_\_\_\_\_ m

LEASE: \_\_\_\_\_ DY79-X-02 \_\_\_\_\_

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

PROVINCE: \_\_\_\_\_ ALBERTA \_\_\_\_\_ JOB NO. SU1.75-E-388

DATE OF SURVEY: \_\_\_\_\_ MAY 7, 1979 \_\_\_\_\_

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

SPERRY-SUN OF CANADA  
GYROSCOPIC DIRECTIONAL SURVEY

PAGE 1

CYPRUS ANVIL MINING CORPORATION  
D173-N-02

301.75-E-385  
15750597

TOTAL DEPTH	DIRECTION DEG	ANGLE DEG	VERTICAL DEPTH	LATITUDE METERS	DEPARTURE METERS	VERTICAL SECTION	DOG LEG
	.0	.00	.00	.00 N	.00 E	.00	.00
31	117.9	.20	30.30	.03 S	.05 E	-.01	.07
61	314.1	1.50	61.00	.23 N	.20 W	.17	.36
92	305.8	2.80	91.47	.94 N	1.09 W	.63	.44
122	306.4	3.70	121.83	1.96 N	2.48 W	1.25	.30
152	301.6	5.60	152.26	3.07 N	4.14 W	1.90	.11
183	300.7	5.40	182.66	4.33 N	6.23 W	2.56	.53
213	307.3	5.70	213.02	5.96 N	8.67 W	3.34	.23
244	314.3	5.50	243.27	7.91 N	10.92 W	4.82	.23
274	313.7	5.40	273.63	9.93 N	13.00 W	6.23	.04
305	312.0	5.40	304.00	11.88 N	15.11 W	7.57	.05
335	324.6	5.50	334.36	14.03 N	17.02 W	9.15	.33
366	326.7	6.50	364.68	16.79 N	18.62 W	11.35	.43
396	331.5	6.50	394.79	20.41 N	20.90 W	14.31	.67
427	332.9	10.70	424.65	25.00 N	23.32 W	18.11	.60
457	334.7	11.50	454.76	30.22 N	25.69 W	22.49	.23
488	336.0	11.70	484.67	35.79 N	28.32 W	27.24	.23
518	337.4	12.40	514.50	41.66 N	30.74 W	32.61	.23
549	335.0	13.50	544.10	48.00 N	33.34 W	37.69	.52
579	336.3	17.40	573.47	55.29 N	37.35 W	43.74	1.23
				61.49	40.91		
610	329.9	19.40	602.41	63.63 N	42.15 W	50.55	.65
640	337.1	19.50	631.13	72.66 N	46.65 W	58.11	.73
671	339.6	18.20	660.07	81.77 N	50.27 W	65.97	.40

THE DOGLEG SEVERITY IS IN DEGREES PER 10 METERS.  
THE VERTICAL SECTION WAS COMPUTED ALONG AZ. 15.0

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS, THE BOTTOM HOLE  
DISPLACEMENT IS 95.98 METERS, IN THE DIRECTION OF AZ. 323.4

# CYPRUS ANVIL DY79-X-02

