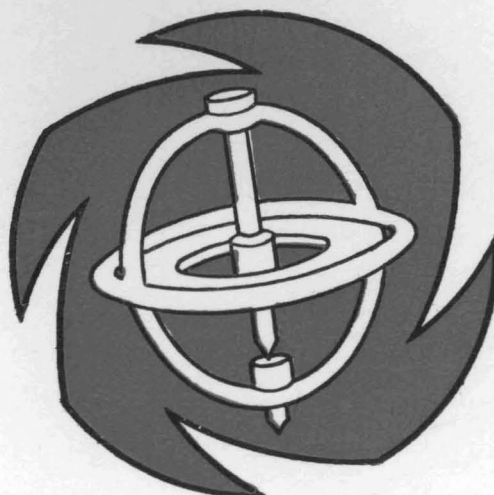


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sperry-sun
OF CANADA LTD

GYROSCOPIC DIRECTIONAL SURVEY
FOR
79-X-06
CYPRUS ANVIL MINING CORPORATION



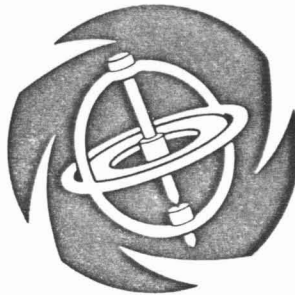
Edmonton (403) 436-9602, Calgary (403) 264-6702

sperry-sun

DIRECTIONAL SURVEY REPORT

FOR

CYPRUS ANVIL MINING CORPORATION



TYPE OF SURVEY: GYROSCOPIC DIRECTIONAL SURVEY

SURVEY DEPTH: FROM 00 m TO 840 m

LEASE: DY-79-X-06

FIELD:/AREA: _____

PROVINCE: ALBERTA JOB NO. SU1.75-E-419C

DATE OF SURVEY: JUNE 21, 1979

OFFICE: EDMONTON, ALBERTA

SPERRY-SUN OF CANADA
GYROSCOPIC DIRECTIONAL SURVEY

PAGE 1

CYPRUS ANVIL MINING CORPORATION
DY-79-X-06

SU1.75-E-419C
19790621

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
30	291.1	3.00	29.99	0.28 N	0.74 W	0.08	3.00
60	300.5	4.40	59.92	1.15 N	2.47 W	0.48	1.52
90	307.4	4.00	89.84	2.37 N	4.29 W	1.18	0.64
120	308.9	5.00	119.75	3.83 N	6.14 W	2.11	1.01
150	322.1	5.30	149.63	5.74 N	8.01 W	3.47	1.22
180	318.1	4.90	179.51	7.79 N	9.71 W	5.01	0.53
210	315.1	4.40	209.41	9.56 N	11.38 W	6.29	0.56
240	322.1	5.80	239.29	11.57 N	13.13 W	7.78	1.53
270	324.4	5.90	269.14	14.01 N	14.96 W	9.67	0.26
300	323.5	6.20	298.97	16.57 N	16.82 W	11.65	0.31
330	324.1	6.40	328.79	19.23 N	18.76 W	13.72	0.21
360	333.5	5.10	358.64	21.77 N	20.34 W	15.77	1.60
390	325.4	6.50	388.48	24.37 N	21.90 W	17.87	1.62
420	313.0	9.50	418.19	27.45 N	24.67 W	20.13	3.45
450	306.1	11.00	447.71	30.82 N	28.80 W	22.32	1.94
480	308.2	12.50	477.08	34.52 N	33.66 W	24.63	1.56
510	307.1	15.50	506.19	38.95 N	39.41 W	27.42	3.01
540	315.6	16.20	535.05	44.36 N	45.54 W	31.06	2.40
570	319.1	15.90	563.88	50.45 N	51.16 W	35.49	1.02
600	321.0	17.40	592.62	57.04 N	56.67 W	40.43	1.60
630	319.1	18.30	621.18	64.09 N	62.58 W	45.71	1.08
660	319.2	18.80	649.62	71.31 N	68.82 W	51.07	0.50
690	322.2	18.00	678.08	78.63 N ^{83.42}	74.82 W ^{78.64}	56.59	1.23
720	319.9	17.90	706.62	85.82 N	80.63 W	62.03	0.70
750	317.0	19.60	735.03	93.03 N	87.03 W	67.34	1.93
780	310.2	22.00	763.08	100.35 N	94.75 W	72.41	3.40
810	316.8	19.50	791.13	107.63 N	102.47 W	77.44	3.40
840	323.6	15.00	819.78	114.40 N	108.21 W	82.50	4.93

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 157.46 METRES. IN THE DIRECTION OF AZ. 316.6

CYPRUS ANVIL DY - 79 - X - 06

