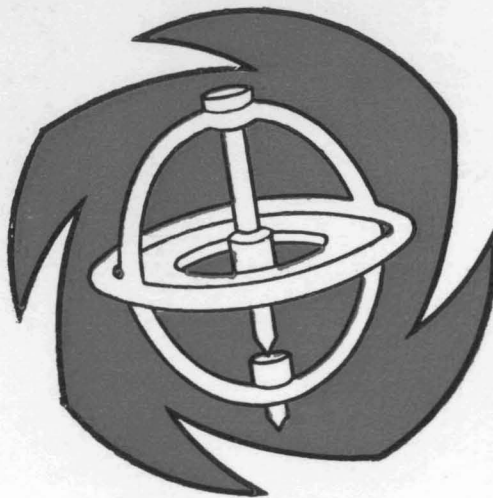


001622

sperry-sun
OF CANADA LTD

GYROSCOPIC DIRECTIONAL SURVEY
FOR
CYRPUS ANVIL MINING CORPORATION
79-X-03



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 _____ 925 _____ m

LEASE: _____ DY-79-X03 _____

FIELD:/AREA: _____ DY _____

PROVINCE: _____ ALBERTA _____ JOB NO. S111.75-E-404

DATE OF SURVEY: _____ MAY 28, 1979 _____

OFFICE: _____ EDMONTON, ALBERTA _____

SPERRY-SUN OF CANADA
GYROSCOPIC DIRECTIONAL SURVEY

PAGE 1

CYPRUS ANVIL MINING CORPORATION
DY-79-X03

SU1.75-E-404
19790528

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	338.8	0.17	30.00	0.04 N	0.03 W	0.04	0.17
60	321.9	2.92	59.99	0.68 N	0.51 W	0.85	2.76
90	300.7	3.00	89.95	1.68 N	1.66 W	2.35	1.09
120	310.7	3.08	119.90	2.61 N	2.94 W	3.89	0.54
150	317.4	3.42	149.86	3.80 N	4.16 W	5.58	0.51
180	311.1	4.00	179.79	5.14 N	5.56 W	7.51	0.71
210	315.9	5.25	209.69	6.81 N	7.30 W	9.92	1.31
240	320.6	5.92	239.55	8.99 N	9.24 W	12.83	0.81
270	314.9	6.58	269.37	11.40 N	11.43 W	16.09	0.91
300	314.0	6.92	299.16	13.87 N	13.95 W	19.60	0.35
330	313.8	7.08	328.94	16.41 N	16.58 W	23.24	0.17
360	309.7	7.17	358.71	18.89 N	19.36 W	26.93	0.52
390	313.0	7.83	388.45	21.47 N	22.29 W	30.80	0.79
420	315.5	8.83	418.13	24.51 N	25.41 W	35.13	1.06
450	315.2	9.00	447.77	27.82 N	28.68 W	39.77	0.17
480	316.3	8.83	477.41	31.15 N	31.92 W	44.41	0.24
510	315.8	9.50	507.02	34.59 N	35.24 W	49.18	0.67
540	318.1	11.00	536.54	38.49 N	38.88 W	54.51	1.55
570	321.3	11.83	565.95	43.02 N	42.71 W	60.45	1.05
600	321.7	12.50	595.28	47.97 N	46.65 W	66.77	0.67
630	317.2	13.50	624.51	53.09 N	51.04 W	73.51	1.43
660	315.9	14.92	653.59	58.43 N	56.11 W	80.86	1.45
690	317.6	15.25	682.56	64.11 N	61.46 W	88.66	0.55
720	324.6	14.25	711.57	70.04 N	66.26 W	96.28	2.06
750	324.6	15.75	740.55	76.37 N	70.75 W	104.02	1.50
780	320.6	17.50	769.29	83.17 N	75.97 W	112.58	2.09
810	317.8	18.17	797.85	90.12 N	81.98 W	121.77	1.10
840	324.8	19.08	826.28	97.59 N	87.95 W	131.32	2.44
870	319.2	20.00	854.56	105.48 N	94.13 W	141.34	2.11
900	329.4	18.75	882.86	113.52 N	99.94 W	151.22	3.61
925	342.6	17.00	906.67	120.47 N	103.08 W	158.54	5.30

THE DOGLEG SEVERITY IS IN DEGREES PER 30 METRES.
THE VERTICAL SECTION WAS COMPUTED ALONG AZ. 319.5

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE
DISPLACEMENT IS 158.54 METRES, IN THE DIRECTION OF AZ. 319.5

CYPRUS ANVIL MINING CORPORATION

DY - 79 - X03

TSD 925
TVD 906.67

120
110
100
90
80
70
60
50
40
30
20
10
0

HORIZONTAL DISPLACEMENT IS 158.54 M
IN THE DIRECTION OF AZ. 319.5



HORIZONTAL PROJECTION
SCALE 2 cm = 10 m

100 90 80 70 60 50 40 30 20 10 0