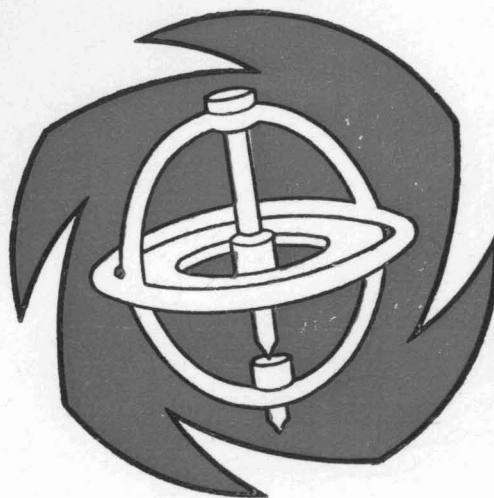


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sperry-sun
OF CANADA LTD

GYROSCOPIC DIRECTIONAL SURVEY
FOR
CYPRUS ANVIL MINING CORPORATION
79-X-13



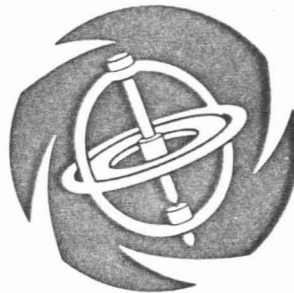
Edmonton (403) 436-9602, Calgary (403) 264-6702

sperry-sun

DIRECTIONAL SURVEY REPORT

FOR

CYPRUS ANVIL MINING CORPORATION



TYPE OF SURVEY: _____ GYROSCOPIC DIRECTIONAL SURVEY _____

SURVEY DEPTH: FROM _____ 00 _____ m TO _____ 971 _____ m

LEASE: _____ CYPRUS ANVIL 79-13 _____

FIELD:/AREA: _____ FARO _____

PROVINCE: _____ YUKON _____ JOB NO. SU1.75-E-133

DATE OF SURVEY: _____ SEPTEMBER 18, 1979 _____

OFFICE: _____ EDMONTON, ALBERTA _____

SPERRY-SUN OF CANADA
GYROSCOPIC DIRECTIONAL SURVEY

PAGE 1

CYPRUS ANVIL MINING CORPORATION
CYPRUS ANVIL 79-13

SU1.75-E-133
19790918

TOTAL DEPTH	DIRECTION DEG	ANGLE DEG MIN	VERTICAL DEPTH	LATITUDE METRES	DEPARTURE METRES	VERTICAL SECTION	DOG LEG
0	0.0	0 0	0.00	0.00 N	0.00 E	0.00	0.00
30	290.2	2 35	29.99	0.23 N	0.64 W	0.06	2.58
60	315.0	5 0	59.92	1.39 N	2.20 W	0.78	2.87
90	308.8	5 0	89.81	3.14 N	4.15 W	1.96	0.54
120	319.3	7 0	119.64	5.34 N	6.36 W	3.52	2.27
150	320.4	7 20	149.41	8.20 N	8.77 W	5.66	0.36
180	317.5	6 55	179.18	11.01 N	11.21 W	7.74	0.55
210	328.8	5 45	208.99	13.63 N	13.21 W	9.75	1.70
240	327.6	6 20	238.83	16.31 N	14.87 W	11.91	0.60
270	332.9	5 55	268.66	19.08 N	16.46 W	14.18	0.70
300	328.5	6 15	298.49	21.85 N	18.02 W	16.45	0.57
330	332.6	7 45	328.26	25.04 N	19.80 W	19.07	1.58
360	332.0	8 20	357.96	28.76 N	21.75 W	22.15	0.59
390	323.5	9 15	387.61	32.62 N	24.21 W	25.24	1.58
420	326.5	9 10	417.23	36.55 N	26.96 W	28.33	0.49
450	331.2	9 45	446.82	40.77 N	29.50 W	31.75	0.97
480	332.5	9 20	476.40	45.16 N	31.84 W	35.38	0.47
510	341.7	8 45	506.03	49.48 N	33.68 W	39.08	1.55
540	349.7	9 0	535.67	53.96 N	34.82 W	43.11	1.26
570	345.2	9 35	565.28	58.68 N	35.87 W	47.40	0.94
600	341.9	11 30	594.77	63.94 N	37.45 W	52.07	2.01
630	347.4	13 45	624.04	70.26 N	39.15 W	57.73	2.56
660	349.0	15 0	653.10	77.55 N	40.67 W	64.38	1.31
690	345.5	15 0	682.08	85.12 N	42.38 W	71.25	0.91
720	346.1	16 45	710.94	93.07 N	44.40 W	78.41	1.76
750	348.7	16 45	739.66	101.51 N	46.28 W	86.07	0.73
780	345.7	17 0	768.37	110.00 N	48.22 W	93.77	0.89
810	335.6	19 45	796.85	118.87 N	51.40 W	101.52	4.21
840	332.1	19 30	825.11	127.91 N	55.84 W	109.10	1.19
870	331.0	18 40	853.46	136.53 N	60.51 W	116.22	0.90
900	329.0	17 50	881.95	144.67 N	65.19 W	122.87	1.04
930	333.9	17 0	910.57	152.55 N	69.48 W	129.37	1.69
960	339.4	18 0	939.19	160.83 N	73.04 W	136.45	1.93
971	340.7	17 45	949.41	163.93 N	74.16 W	139.15	1.28

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 179.92 METRES, IN THE DIRECTION OF AZ. 335.7

CYPRUS ANVIL MINING CORPORATION

CYPRUS ANVIL 79-13

