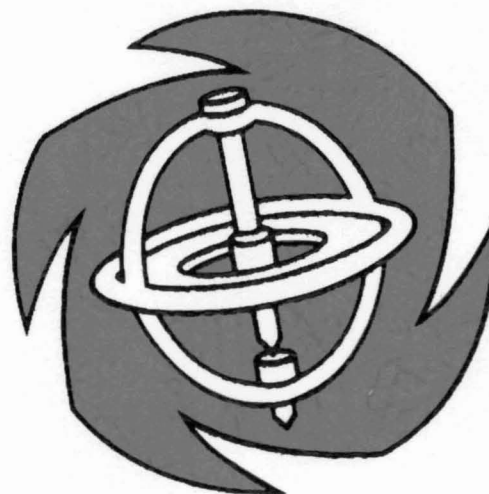


001661

sperry-sun

OF CANADA LTD

GYROSCOPIC DIRECTIONAL SURVEY
FOR
CYPRUS ANVIL MINING CORPORATION
81-x-02



canadian directional drilling services

sperry-sun

DIRECTIONAL SURVEY REPORT

FOR

CYPRUS ANVIL MINING CORPORATION



TYPE OF SURVEY: GYROSCOPIC DIRECTIONAL SURVEY

SURVEY DEPTH: FROM 00 m TO 814 m

LEASE: 81X-02

FIELD:/AREA: FARO

PROVINCE: YUKON JOB NO LRG 1.75-E-241

DATE OF SURVEY: 1981 04 25

OFFICE: EDMONTON, ALBERTA

SPERRY-SUN OF CANADA
GYROSCOPIC DIRECTIONAL SURVEY

PAGE 1

CYPRUS ANVIL MINING CORPORATION
81X-02

LRG 1.75-E-241
19810423

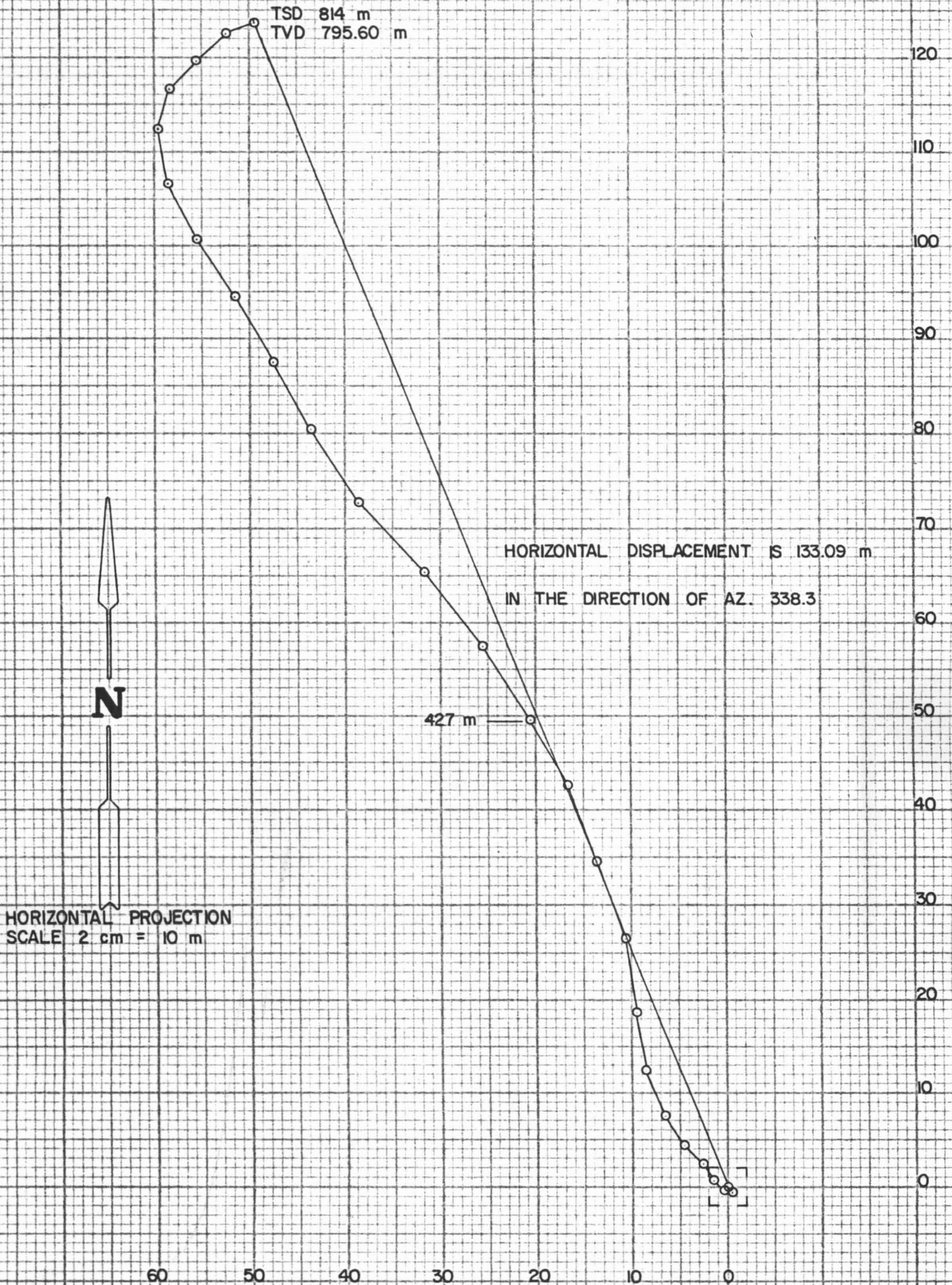
TOTAL DEPTH	DIRECTION DEG	ANGLE DEG	VERTICAL DEPTH	LATITUDE METRES	DEPARTURE METRES	VERTICAL SECTION	DOG LEG
0	0.0	0.00	0.00	0.00 N	0.00 E	0.00	0.00
31	131.9	1.10	30.50	0.21 S	0.22 E	-0.13	1.08
61	145.0	0.12	61.00	0.43 S	0.45 E	-0.28	0.97
92	45.1	0.53	91.50	0.35 S	0.57 E	-0.18	0.56
122	282.2	2.67	121.99	0.10 S	0.03 W	-0.09	2.94
153	322.3	3.00	152.45	0.69 N	1.21 W	0.36	1.94
183	317.1	4.68	182.88	2.23 N	2.55 W	1.50	1.69
214	321.2	5.87	213.25	4.36 N	4.37 W	3.08	1.22
244	325.9	8.32	243.52	7.40 N	6.59 W	5.45	2.47
275	348.9	11.65	273.56	12.25 N	8.42 W	9.66	5.06
305	353.2	13.52	303.33	18.82 N	9.43 W	15.74	2.06
336	347.4	15.32	332.87	26.29 N	10.73 W	22.62	2.28
366	336.0	17.32	362.15	34.37 N	13.46 W	29.72	3.71
397	339.6	15.20	391.42	42.26 N	16.70 W	36.50	2.31
427	328.9	16.43	420.78	49.71 N	20.32 W	42.76	3.11
458	322.8	18.50	449.87	57.25 N	25.48 W	48.71	2.72
488	318.6	20.47	478.62	65.11 N	31.94 W	54.62	2.37
519	321.0	18.03	507.42	72.77 N	38.44 W	60.35	2.52
549	329.5	16.20	536.57	80.11 N	43.57 W	66.11	3.06
580	332.6	15.32	565.92	87.35 N	47.58 W	72.06	1.20
610	328.6	15.23	595.35	94.35 N	51.52 W	77.80	1.03
641	330.3	13.55	624.89	100.88 N	55.38 W	83.11	1.71
671	334.5	11.70	654.65	106.77 N	58.48 W	88.00	2.03
702	2.4	9.97	684.62	112.21 N	59.70 W	92.93	5.37
732	33.8	8.00	714.77	116.61 N	58.40 W	97.52	5.12
763	45.1	7.87	744.98	119.84 N	55.74 W	101.34	1.53
793	58.5	8.45	775.17	122.49 N	52.35 W	104.77	1.96
814	78.8	10.25	795.60	123.64 N	49.25 W	106.69	5.40

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 133.09 METRES, IN THE DIRECTION OF AZ. 338.3
BOTTOM HOLE DISPLACEMENT IS RELATIVE TO WELLHEAD.
VERTICAL SECTION IS RELATIVE TO WELLHEAD.

CYPRUS ANVIL MINING CORPORATION

8IX-02



sperry-sun
OF CANADA LTD.

DRWG BY: *[Signature]* CHCKD BY: *[Signature]* DATE: *2011/23/84*