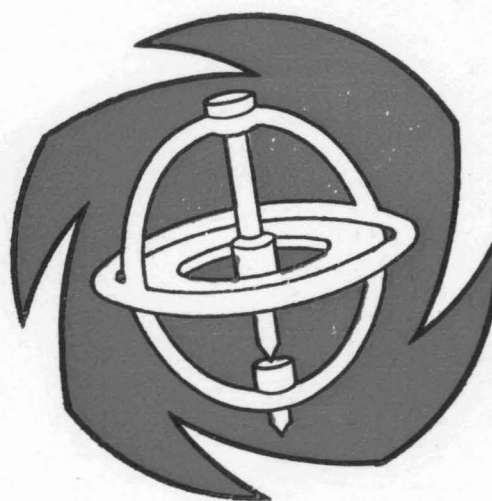


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sperry-sun
OF CANADA LTD

GYROSCOPIC DIRECTIONAL SURVEY
FOR
CYPRUS ANVIL MINING CORPORATION
79-X-16



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

sperry-sun

DIRECTIONAL SURVEY REPORT

FOR

CYPRUS ANVIL MINING CORPORATION



TYPE OF SURVEY: GYROSCOPIC MULTISHOT SURVEY

SURVEY DEPTH: FROM 00 m TO 853 m

LEASE: 76-16

FIELD:/AREA: DY

PROVINCE: N.W.T. JOB NO. SU1.75-E-164

DATE OF SURVEY: OCTOBER 11, 1979

OFFICE: EDMONTON, ALBERTA

SPERRY-SUN OF CANADA
GYROSCOPIC MULTISHOT SURVEY

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SU1.75-E-164
11TH OCT 1979

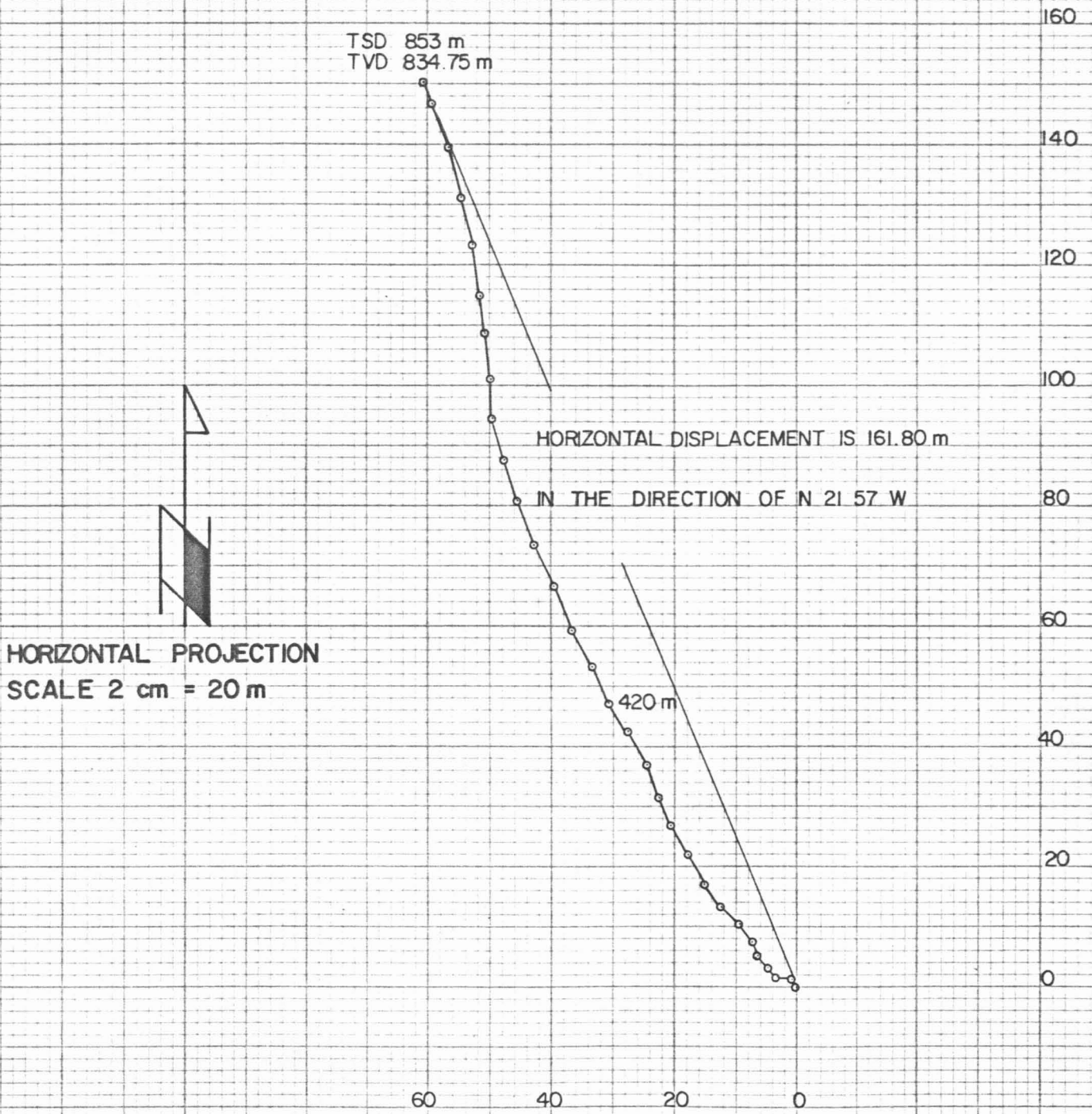
TOTAL DEPTH	DIRECTION		ANGLE		VERTICAL DEPTH	LATITUDE METRES	DEPARTURE METRES	VERTICAL SECTION	DOG LEG
	DEG	MIN	DEG	MIN					
0	N	0	0	0	0.00	0.00 N	0.00 E	0.00	0.00
30	N	63	0	45	29.97	0.56 N	1.12 W	0.94	4.75
60	N	55	0	50	59.86	1.85 N	3.26 W	2.93	0.67
90	N	37	0	10	89.77	3.45 N	4.95 W	5.05	1.55
120	N	28	0	0	119.69	5.24 N	6.10 W	7.14	0.66
150	N	32	0	6	149.58	7.50 N	7.42 W	9.72	2.03
180	N	41	0	7	179.38	10.22 N	9.46 W	13.02	1.49
210	N	41	0	8	209.09	13.37 N	12.20 W	16.96	1.83
240	N	33	0	10	238.67	17.37 N	15.18 W	21.78	1.88
270	N	29	0	10	268.18	22.00 N	17.96 W	27.11	0.76
300	N	21	0	10	297.70	26.84 N	20.23 W	32.45	1.49
330	N	24	0	11	327.19	31.91 N	22.33 W	37.94	1.07
360	N	27	0	11	356.63	37.15 N	24.84 W	43.73	0.67
390	N	30	0	11	386.02	42.42 N	27.70 W	49.70	0.73
420	N	29	0	12	415.38	47.79 N	30.74 W	55.81	0.32
450	N	25	0	12	444.69	53.46 N	33.62 W	62.15	0.98
480	N	27	0	14	473.89	59.64 N	36.64 W	69.01	1.57
510	N	21	0	15	502.94	66.50 N	39.68 W	76.51	1.80
540	N	22	0	15	531.92	73.72 N	42.53 W	84.27	0.26
570	N	22	0	15	560.88	80.98 N	45.46 W	92.10	0.25
600	N	16	0	13	589.95	87.96 N	47.89 W	99.48	2.42
630	N	5	0	13	619.16	94.65 N	49.14 W	106.15	2.52
660	N	3	0	13	648.38	101.44 N	49.62 W	112.63	0.52
690	N	12	0	13	677.58	108.24 N	50.51 W	119.27	2.06
720	N	6	0	14	706.70	115.38 N	51.62 W	126.31	2.02
750	N	11	0	16	735.63	123.22 N	52.81 W	134.02	1.88
780	N	12	0	15	764.49	131.26 N	54.44 W	142.09	0.37
810	N	17	0	15	793.37	139.12 N	56.47 W	150.14	1.36
840	N	23	0	15	822.25	146.74 N	59.25 W	158.25	1.63
853	N	18	0	16	834.75	150.07 N	60.49 W	161.80	3.21

THE DOGLEG SEVERITY IS IN DEGREES PER 30 METRES.
THE VERTICAL SECTION WAS COMPUTED ALONG N 21 57 W

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE
DISPLACEMENT IS 161.80 METRES, IN THE DIRECTION OF N 21 57 W
BOTTOM HOLE DISPLACEMENT IS RELATIVE TO WELLHEAD.

CYPRUS ANVIL MINING CORPORATION

79-16



HORIZONTAL PROJECTION
SCALE 2 cm = 20 m