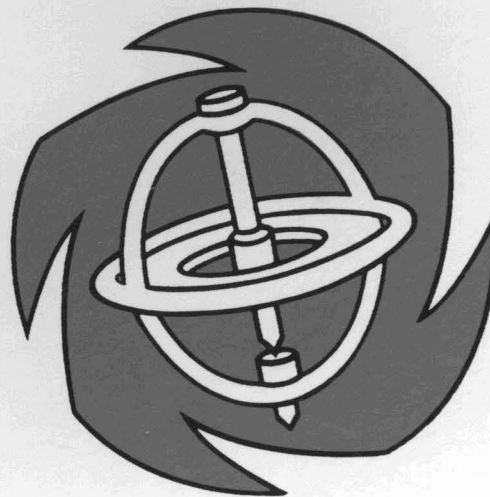


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# sperry-sun

OF CANADA LTD

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



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 990 m

LEASE: DY DEPOSIT 80-X-06

FIELD:/AREA: DY

PROVINCE: YUKON JOB NO. LRG1.75-E-363A

DATE OF SURVEY: 1980 06 12

OFFICE: EDMONTON, ALBERTA

SPERRY-SUN OF CANADA  
GYROSCOPIC DIRECTIONAL SURVEY

PAGE 1

CYPRESS ANVIL MINING CORP.  
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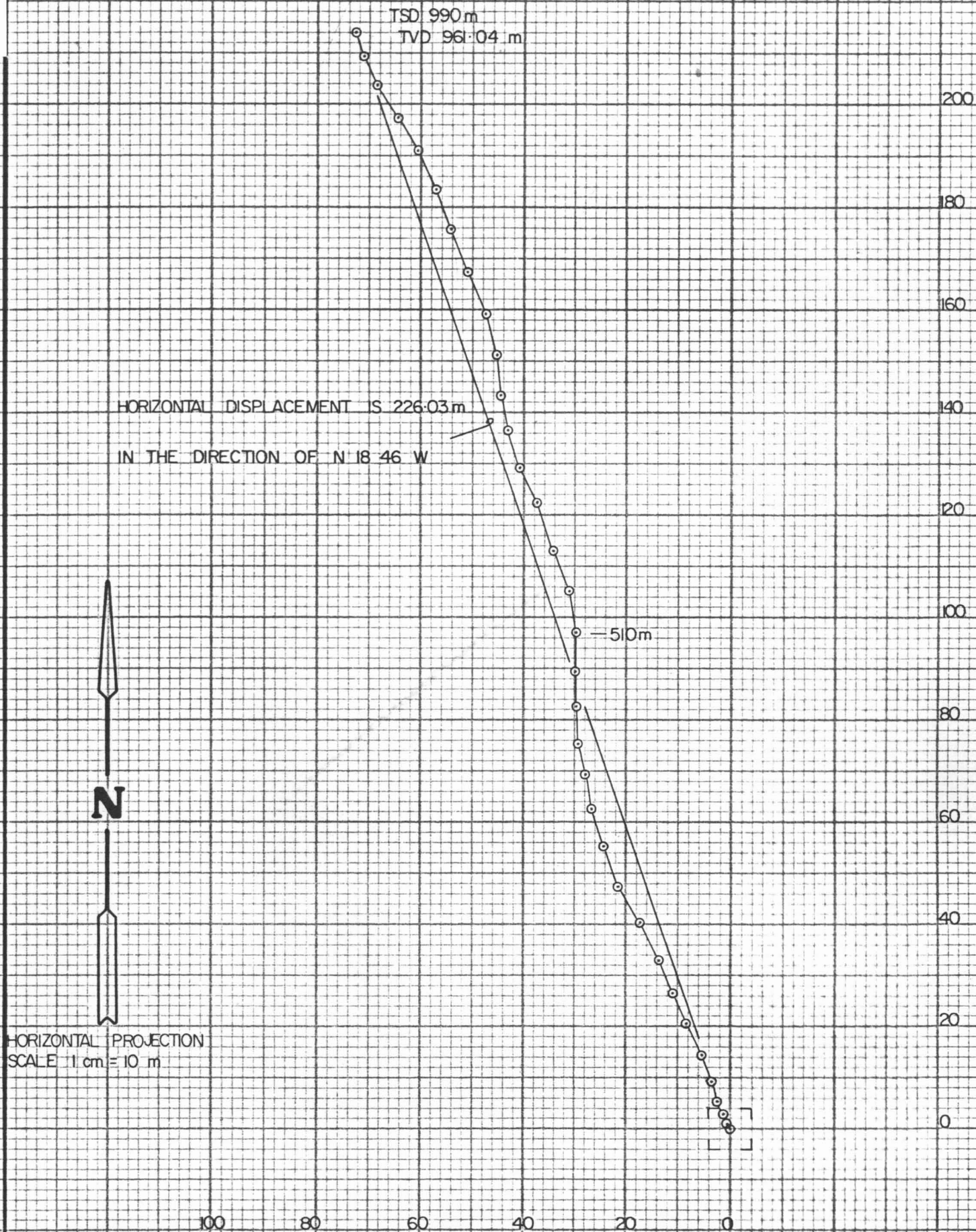
TOTAL DEPTH	DIRECTION DEG MIN	ANGLE DEG MIN	VERTICAL DEPTH	LATITUDE METRES	DEPARTURE METRES	VERTICAL SECTION	DOG LEG
0	0 0	0 0	0.00	0.00 N	0.00 E	0.00	0.00
30	332 54	3 5	29.99	0.72 N	0.38 W	0.60	3.08
60	338 14	4 50	59.91	2.61 N	1.21 W	2.21	1.79
90	339 1	6 45	89.76	5.43 N	2.31 W	4.65	1.92
120	341 45	9 30	119.45	9.43 N	3.72 W	8.15	2.78
150	337 36	10 47	148.99	14.37 N	5.57 W	12.45	1.47
180	335 43	13 21	178.32	20.13 N	8.06 W	17.36	2.60
210	336 8	13 29	207.50	26.48 N	10.90 W	22.76	0.16
240	335 34	14 2	236.64	32.99 N	13.82 W	28.29	0.57
270	331 1	16 30	265.58	40.03 N	17.39 W	34.17	2.74
300	337 48	16 13	294.37	47.64 N	21.04 W	40.57	1.93
330	338 25	15 5	323.25	55.15 N	24.06 W	47.04	1.15
360	346 46	14 59	352.23	62.55 N	26.38 W	53.59	2.17
390	348 5	12 26	381.37	69.49 N	27.94 W	59.89	2.57
420	352 23	12 5	410.69	75.76 N	29.02 W	65.67	0.98
450	355 16	13 58	439.92	82.48 N	29.73 W	71.98	1.99
480	2 54	13 4	469.09	89.48 N	29.86 W	78.70	2.00
510	358 36	16 8	498.12	97.03 N	29.79 W	86.02	3.25
540	343 28	15 45	526.98	105.11 N	31.05 W	93.49	4.16
570	334 40	17 2	555.76	112.98 N	34.09 W	100.31	2.79
600	338 29	17 40	584.40	121.19 N	37.64 W	107.32	1.30
630	338 9	15 58	613.11	129.25 N	40.85 W	114.28	1.70
660	346 38	13 52	642.10	136.58 N	43.22 W	120.75	3.03
690	356 29	13 45	671.24	143.64 N	44.27 W	127.29	2.35
720	348 21	15 29	700.27	151.12 N	45.29 W	134.25	2.68
750	337 23	17 50	729.02	159.29 N	47.87 W	141.47	3.92
780	340 48	17 8	757.63	167.70 N	51.09 W	148.77	1.24
810	340 18	16 52	786.32	175.97 N	54.01 W	156.00	0.30
840	337 21	15 45	815.11	183.83 N	57.05 W	162.80	1.39
870	329 38	14 40	844.06	190.86 N	60.53 W	168.69	2.29
900	328 8	15 15	873.05	197.49 N	64.54 W	174.06	0.70
930	331 7	13 25	902.11	203.89 N	68.30 W	179.27	1.98
960	336 37	11 27	931.41	209.67 N	71.16 W	184.11	2.29
990	345 53	6 18	961.04	214.00 N	72.75 W	187.88	5.33

THE DOGLEG SEVERITY IS IN DEGREES PER 30 METRES.  
THE VERTICAL SECTION WAS COMPUTED ALONG N 15 0 E

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE  
DISPLACEMENT IS 226.03 METRES, IN THE DIRECTION OF N 18 46 W  
BOTTOM HOLE DISPLACEMENT IS RELATIVE TO WELLHEAD.  
VERTICAL SECTION IS RELATIVE TO WELLHEAD.

# CYPRUS ANVIL MINING CORPORATION

## DY DEPOSIT 80-X-06



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OF CANADA LTD.

DRWG BY: *[Signature]*

CHKD BY: *[Signature]*

DATE June 11, 90