

N L SPERRY-SUN INC.  
LEVEL ROTOR GYROSCOPIC SURVEY

AMAX EXPLOR. GEOTHERMAL  
COVE FORT 22-2

EV-LB-30111  
11/13/83

TOTAL DEPTH	DIRECTION DEG MIN	ANGLE DEG MIN	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
0	N 0 0 E	0 0	0.00	0.00 N	0.00 E	0.00	0.00
100	S 86 33 E	0 25	100.00	0.03 S	0.36 E	0.07	0.42
200	N 40 36 W	0 40	200.00	0.40 N	0.35 E	0.47	1.00
300	N 61 8 W	0 45	299.99	1.16 N	0.61 W	0.98	0.27
400	N 66 9 W	1 5	399.98	1.85 N	2.05 W	1.31	0.34
500	N 58 16 W	1 15	499.95	2.81 N	3.84 W	1.81	0.23
600	N 66 24 W	1 5	599.93	3.76 N	5.64 W	2.30	0.23
700	N 61 34 W	1 5	699.92	4.59 N	7.34 W	2.69	0.09
800	N 45 50 W	1 0	799.90	5.65 N	8.79 W	3.37	0.30
900	N 17 12 W	2 5	899.86	7.99 N	9.96 W	5.37	1.30
1000	N 22 32 E	2 5	999.80	11.41 N	9.80 W	8.72	1.42
1100	N 24 16 E	2 30	1099.72	15.08 N	8.20 W	12.66	0.42
1200	N 43 29 E	2 25	1199.63	18.59 N	5.86 W	16.64	0.82
1300	N 61 44 E	1 30	1299.57	20.74 N	3.25 W	19.36	1.10
1400	N 71 23 E	1 25	1399.54	21.76 N	0.93 W	20.90	0.26
1500	S 82 54 E	2 25	1499.48	21.89 N	2.34 E	21.81	1.30
1600	N 89 24 E	1 35	1599.42	21.65 N	5.82 E	22.41	0.87
1700	N 84 9 E	2 0	1699.37	21.84 N	8.93 E	23.35	0.45
1800	N 63 58 E	2 25	1799.30	22.94 N	12.57 E	25.29	0.88
1900	N 59 53 E	2 5	1899.22	24.78 N	16.03 E	27.91	0.37
2000	N 64 51 E	1 55	1999.16	26.40 N	19.12 E	30.22	0.24
2100	N 55 51 E	2 15	2099.09	28.21 N	22.26 E	32.74	0.47
2200	N 43 53 E	3 0	2198.99	31.20 N	25.70 E	36.46	0.93
2300	N 41 5 E	3 20	2298.84	35.28 N	29.42 E	41.32	0.37
2400	N 44 7 E	3 30	2398.66	39.66 N	33.46 E	46.54	0.25
2500	N 43 7 E	3 5	2498.49	43.82 N	37.42 E	51.53	0.42
2600	N 27 2 E	1 55	2598.40	47.27 N	40.02 E	55.50	1.35
2700	N 2 53 E	2 35	2698.32	51.01 N	40.89 E	59.34	1.14
2800	N 4 48 W	3 5	2798.20	55.94 N	40.78 E	64.10	0.63
2900	N 2 46 W	3 40	2898.02	61.81 N	40.40 E	69.71	0.60
3000	N 2 59 W	3 45	2997.81	68.27 N	40.08 E	75.91	0.08
3100	N 4 49 E	3 45	3097.60	74.80 N	40.18 E	82.26	0.51
3200	N 2 41 E	2 50	3197.43	80.53 N	40.57 E	87.92	0.92
3300	N 4 35 E	3 45	3297.27	86.25 N	40.95 E	93.57	0.92
3400	N 9 2 E	2 50	3397.10	91.95 N	41.60 E	99.26	0.95
3500	N 7 28 W	2 25	3497.00	96.49 N	41.71 E	103.68	0.86
3600	N 63 27 W	2 40	3596.91	99.62 N	39.36 E	106.16	2.40
3700	N 77 31 W	2 45	3696.80	101.17 N	34.93 E	106.61	0.67
3800	N 71 36 W	2 45	3796.69	102.45 N	30.31 E	106.73	0.28
3900	N 76 43 W	2 45	3896.57	103.76 N	25.70 E	106.89	0.25

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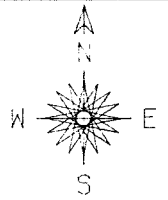
TOTAL DEPTH	DIRECTION DEG MIN	ANGLE DEG MIN	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
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THE DOGLEG SEVERITY IS IN DEGREES PER ONE HUNDRED FEET.  
THE VERTICAL SECTION WAS COMPUTED ALONG N 13 55 E

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE  
DISPLACEMENT IS 106.89 FEET, IN THE DIRECTION OF N 13 55 E  
BOTTOM HOLE DISPLACEMENT IS RELATIVE TO WELLHEAD.  
VERTICAL SECTION IS RELATIVE TO WELLHEAD.

# NL SPERRY-SUN INCORPORATED

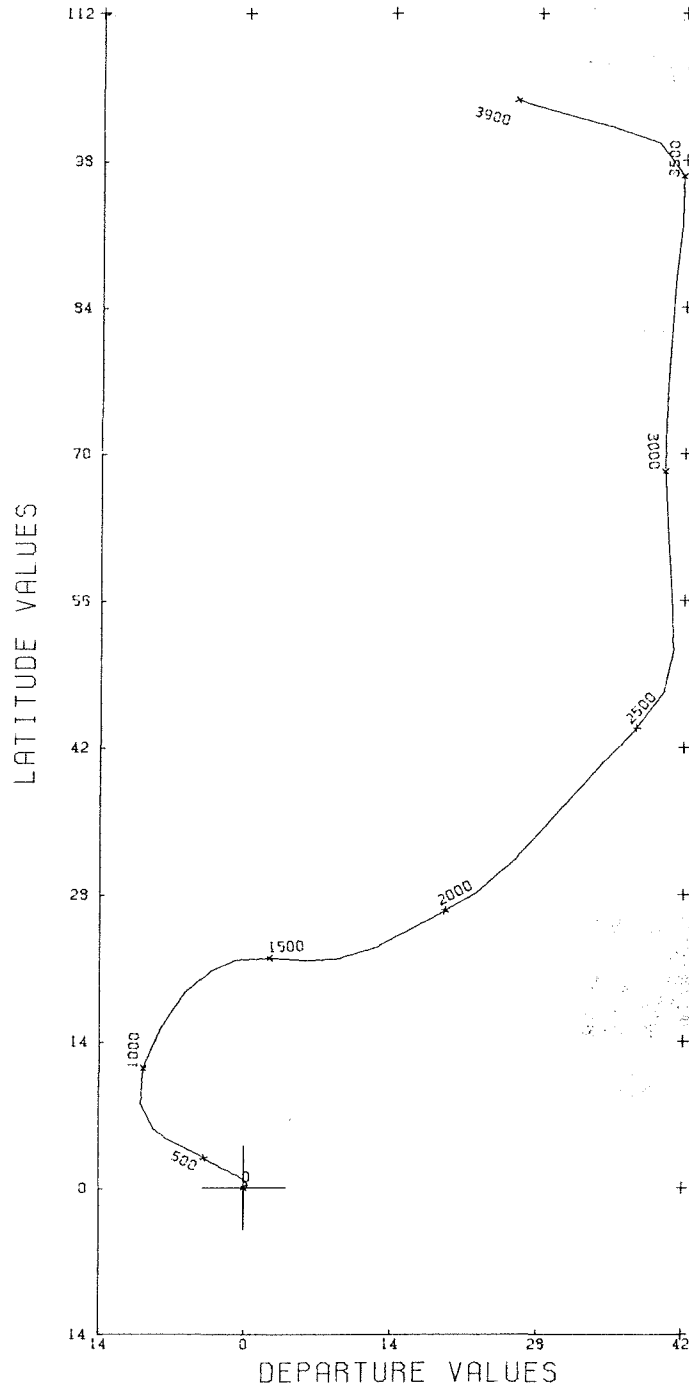
HORIZONTAL PROJECTION  
NO WELLS HAVE BEEN EXTRAPOLATED



CUST. AMAX EXPLOR. GEOTHERMAL  
JOB. NO. EV-LB-30111  
START MD. = 0  
SCALE IS 14 FEET/INCH  
COURSE LENGTH = 100

REF. IS. COVE FORT 22-2  
DATE. 11/13/83  
FINISH MD. = 3900  
AXIS IS TRUE NORTH

PLOTTED VALUES SHOWN ARE MEASURED DEPTHS



# NL SPERRY-SUN INCORPORATED

VERTICAL PROJECTION  
NO WELLS HAVE BEEN EXTRAPOLATED

CUST. AMAX EXPLOR. GEOTHERMAL  
JOB. NO. EV-LB-30111  
START MD. = 0  
SCALE IS 500 FEET/INCH  
COURSE LENGTH = 100

REF. IS. COVE FORT 22-2  
DATE. 11/13/83  
FINISH MD. = 3900  
V. S. AZM. = 14.00

PLOTTED VALUES SHOWN ARE MEASURED DEPTHS

