

ATLANTIC RICHFIELD COMPANY
EMPIRE ABO UNIT WELL NO. J-223
EMPIRE ABO
ODDY COUNTY, NEW MEXICO
HYDROSCOPIC SURMEL

PAGE 1
DATE OF SURVEY MAY 13, 1978
VERTICAL SECTION DIRECTION CLCSURE

SU3-6094

SPERRY-SUN, INC.
RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG	DOG-LEG SEV DEG/100	RECTANGULAR NORTH/SOUTH	TOTAL COORDINATES EAST/WEST	VERTICAL SECTION
0	0.	0.	0 20	ORIGIN AT SURFACE	0.33	0.29 S	0.03 E	0.
100	100.00	100.00	0 25	S 5 E	0.14	0.94 S	0.02 W	-0.26
200	200.00	200.00	0 15	S 33 W	0.20	1.47 S	0.22 W	-0.80
300	300.00	300.00	0 20	S 52 W	0.13	1.84 S	0.57 W	-1.17
400	399.99	399.99	0 15	S 76 W	0.15	2.07 S	1.01 W	-1.32
500	499.99	499.99	0 25	N 88 W	0.19	2.11 S	1.58 W	-1.30
600	599.99	599.99	0 20	N 88 W	0.08	2.09 S	2.24 W	-1.05
700	699.99	699.99	0 25	N 75 W	0.12	1.98 S	2.88 W	-0.71
800	799.99	799.99	0 30	N 54 W	0.19	1.63 S	3.58 W	-0.30
900	899.98	899.98	0 50	N 41 W	0.36	0.82 S	4.41 W	0.36
1000	999.97	999.97	0 50	N 37 W	0.06	0.30 N	5.33 W	1.47
1100	1099.95	1099.95	1 0	N 29 W	0.21	1.65 N	6.19 W	2.90
1200	1199.94	1199.94	1 15	N 35 W	0.18	3.21 N	7.11 W	4.49
1300	1299.92	1299.92	1 20	N 34 W	0.09	6.77 N	9.52 W	6.31
1400	1399.86	1399.86	1 25	N 44 W	0.25	8.62 N	11.03 W	8.34
1500	1499.83	1499.83	1 40	N 48 W	0.27	10.48 N	12.96 W	10.59
1600	1599.78	1599.78	1 50	N 48 W	0.09	14.61 N	17.47 W	15.52
1700	1699.73	1699.73	2 10	N 50 W	0.34	16.89 N	20.10 W	18.36
1800	1799.67	1799.67	2 15	N 57 W	0.28	19.18 N	23.20 W	21.34
1900	1899.60	1899.60	2 10	N 58 W	0.09	21.25 N	26.45 W	24.63
2000	1999.52	1999.52	2 10	N 58 W	0.15	23.25 N	29.65 W	28.14
2100	2099.45	2099.45	2 10	N 54 W	0.15	25.37 N	32.79 W	31.55
2200	2199.38	2199.38	2 10	N 45 W	0.37	27.71 N	35.55 W	34.88
2300	2299.31	2299.31	2 0	N 43 W	0.07	30.22 N	37.97 W	38.39
2400	2399.25	2399.25	2 0	N 40 W	0.10	32.83 N	40.29 W	41.67
2500	2499.19	2499.19	2 10	N 43 W	0.20	35.55 N	42.70 W	45.05
2600	2599.13	2599.13	2 5	N 37 W	0.24	38.39 N	45.08 W	48.46
2700	2699.06	2699.06						52.02
2800								55.60
2900								