

ATLANTIC RICHFIELD COMPANY
 EMPIRE ABO NO. M-151
 EMPIRE ABO UNIT FIELD
 EDDY COUNTY, NEW MEXICO
 MAGNETIC MULTISHOT

DATE OF SURVEY AUGUST 13, 1978
 VERTICAL SECTION DIRECTION

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 13, 1978
 CLOSURE
 VS-0124

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	COORDINATES EAST/WEST	VERTICAL SECTION
			ASSUME VERTICAL TO 1000 FT.					
1000	1000.00	1000.00	0 45	S	0.75	0.57 S	0.33 W	0.26
1100	1100.00	1100.00	0 30	S	0.26	1.53 S	0.83 W	-0.74
1200	1199.99	1199.99	0 0	S	0.50	1.93 S	1.01 W	-0.95
1300	1299.99	1299.99	0 15	N	0.25	1.74 S	1.12 W	-0.74
1400	1399.99	1399.99	0 15	N	0.01	1.36 S	1.34 W	-0.30
1500	1499.99	1499.99	0 45	N	0.51	0.56 S	1.68 W	0.54
1600	1599.98	1599.98	0 30	N	0.42	0.32 N	2.24 W	1.59
1700	1699.98	1699.98	0 45	N	0.25	1.03 N	3.07 W	2.62
1800	1799.97	1799.97	1 0	N	0.28	1.04 N	4.29 W	4.11
1900	1899.96	1899.96	1 0	N	0.07	2.84 N	5.70 W	5.72
2000	1999.95	1999.95	1 0	N	0.05	3.64 N	7.33 W	7.29
2100	2099.93	2099.93	1 0	N	0.14	4.30 N	8.95 W	8.78
2200	2199.92	2199.92	0 45	N	0.27	4.84 N	10.37 W	10.06
2300	2299.90	2299.90	1 15	N	0.55	5.34 N	12.03 W	11.45
2400	2399.89	2399.89	0 45	N	0.51	5.65 N	13.75 W	12.72
2500	2499.87	2499.87	0 45	N	0.02	5.79 N	15.05 W	13.61
2600	2599.86	2599.86	0 30	N	0.25	5.86 N	16.14 W	14.31
2700	2699.86	2699.86	0 30	N	0.19	6.05 N	16.97 W	14.96
2800	2799.85	2799.85	0 30	N	0.30	6.60 N	17.60 W	15.79
2900	2899.85	2899.85	0 45	N	0.28	7.47 N	18.26 W	16.86
3000	2999.84	2999.84	0 30	N	0.37	8.37 N	18.82 W	17.92
3100	3099.84	3099.84	1 0	N	0.57	9.47 N	19.49 W	19.20
3200	3199.83	3199.83	0 45	N	0.27	10.70 N	20.39 W	20.73
3300	3299.82	3299.82	1 0	N	0.26	12.01 N	21.16 W	22.24
3400	3399.81	3399.81	1 30	N	0.54	13.83 N	22.36 W	24.42
3500	3499.78	3499.78	1 45	N	0.57	15.75 N	24.39 W	27.17
3600	3599.74	3599.74	2 0	N	0.28	17.73 N	27.00 W	30.31
3700	3699.69	3699.69	2 0	N	0.03	19.95 N	29.69 W	33.70
3800	3799.63	3799.63	1 45	N	0.26	22.01 N	32.23 W	36.97
3900	3899.57	3899.57						