

LANTIC RICHFIELD COMPANY
 PIPE ABO UNIT WELL NO. J-223
 PIPE ABO
 JODY COUNTY, NEW MEXICO
 ROSCOPIC SURMEL

PAGE 2
 DATE OF SURVEY MAY 13, 1978
 VERTICAL SECTION DIRECTION CLOSURE
 SU3-6094

SPERRY-SUN, INC.
 RECORD OF SURVEY

ASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG	DOG-LEG SEV DEG/100	TOTAL RECTANGULAR NORTH/SOUTH	COORDINATES EAST/WEST	VERTICAL SECTION
3000	2998.99	2998.99	2 0	N 33 W	0.16	41.30 N	47.12 N	59.20
3100	3098.94	3098.94	1 50	N 37 W	0.21	44.04 N	49.04 N	62.53
3200	3198.89	3198.89	1 50	N 38 W	0.03	46.58 N	50.98 W	65.70
3300	3298.84	3298.84	1 45	N 37 W	0.09	49.06 N	52.89 W	68.80
3400	3398.79	3398.79	1 45	N 39 W	0.06	51.47 N	54.77 W	71.82
3500	3498.74	3498.74	1 45	N 35 W	0.12	53.90 N	56.60 W	74.85
3600	3598.69	3598.69	1 50	N 38 W	0.13	56.42 N	58.47 W	77.95
3700	3698.65	3698.65	1 45	N 21 W	0.54	59.10 N	60.00 W	81.04
3800	3798.60	3798.60	1 50	N 17 W	0.15	62.06 N	61.01 W	84.11
3900	3898.55	3898.55	1 40	N 10 W	0.27	65.02 N	61.73 W	87.04
4000	3998.51	3998.51	1 25	N 10 W	0.25	67.67 N	62.20 W	89.58
4100	4098.49	4098.49	1 15	N 12 W	0.17	69.95 N	62.64 W	91.78
4200	4198.46	4198.46	1 15	N 20 W	0.17	72.04 N	63.24 W	93.39
4300	4298.44	4298.44	1 30	N 32 W	0.38	74.18 N	64.31 W	96.28
4400	4398.40	4398.40	1 35	N 30 W	0.10	76.49 N	65.69 W	98.97
4500	4498.35	4498.35	1 50	N 23 W	0.33	79.15 N	67.01 W	101.94
4600	4598.30	4598.30	2 0	N 19 W	0.21	82.28 N	68.20 W	105.24
4700	4698.22	4698.22	2 25	N 23 W	0.44	85.87 N	69.59 W	109.05
4800	4798.10	4798.10	3 15	N 34 W	0.99	90.16 N	72.00 W	113.97
4900	4897.93	4897.93	3 30	N 40 W	0.43	94.85 N	75.55 W	119.80
5000	4997.72	4997.72	3 55	N 38 W	0.44	99.88 N	79.61 W	126.18
5100	5097.41	5097.41	5 5	N 33 W	1.23	106.28 N	84.13 W	133.98
5200	5196.93	5196.93	6 5	N 30 W	1.04	114.59 N	89.19 W	142.71
5300	5296.34	5296.34	6 25	N 29 W	0.35	124.06 N	94.55 W	154.59
5400	5395.71	5395.71	6 25	N 28 W	0.11	133.89 N	99.88 W	165.76
5500	5495.07	5495.07	6 35	N 23 W	0.59	144.10 N	104.75 W	177.04
5600	5594.44	5594.44	6 20	N 20 W	0.42	154.56 N	108.87 W	188.18
5700	5693.84	5693.84	6 10	N 13 W	0.78	164.97 N	111.97 W	198.76
5800	5793.27	5793.27	6 5	N 11 W	0.23	175.41 N	114.19 W	208.93
5900	5892.73	5892.73	5 55	N 7 W	0.45	185.72 N	115.83 W	218.70