

U.S. OPERATING COMPANY
U.S. SUPERIOR STATE WELL NO. 1
ANTELOPE RIDGE MORROW FIELD
LEA COUNTY, NEW MEXICO
GYROSCOPIC MULTISHOT

DATE OF SURVEY APRIL 21, 1981
VERTICAL SECTION DIRECTION CLOSURE

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BOSS-6795

SPERRY-SUN, INC.

RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE		INCLINATION DEG MIN	RECORD COURSE DIRECTION DEG	DOG-LEG SEV DEG/100	RECTANGULAR COORDINATES		TOTAL COORDINATES EAST/WEST	VERTICAL SECTION	
			DIRECTION	DEG				NORTH/SOUTH	EAST/WEST			
12100	12094.96	12094.96	2 34	N	83	W	0.61	23.84	N	64.15	E	-65.83
12200	12194.86	12194.86	2 32	N	82	W	0.06	24.43	N	59.75	E	-61.49
12300	12294.77	12294.77	2 27	N	79	W	0.15	25.17	N	55.47	E	-57.28
12400	12394.67	12394.67	2 35	N	76	W	0.18	26.13	N	51.18	E	-53.08
12500	12494.57	12494.57	2 40	N	82	W	0.27	27.01	N	46.68	E	-48.66
12600	12594.47	12594.47	2 18	N	77	W	0.43	27.80	N	42.42	E	-44.48
12700	12694.39	12694.39	2 29	N	87	W	0.45	28.39	N	38.31	E	-40.42
12800	12794.29	12794.29	2 37	N	82	W	0.24	28.81	N	33.88	E	-36.05
12900	12894.18	12894.18	2 41	N	84	W	0.10	29.36	N	29.29	E	-31.50
13000	12994.06	12994.06	2 53	S	87	W	0.47	29.47	N	24.44	E	-26.68
13100	13093.93	13093.93	2 58	S	87	W	0.08	29.20	N	19.36	E	-21.59
13200	13193.80	13193.80	2 56	N	83	W	0.53	29.36	N	14.24	E	-16.51
13300	13293.67	13293.67	3 1	S	87	W	0.52	29.54	N	9.07	E	-11.37
13400	13393.53	13393.53	3 5	S	86	W	0.11	29.19	N	3.76	E	-6.04
13500	13493.38	13493.38	3 1	N	88	W	0.37	29.09	N	1.55	W	-0.74
13600	13593.23	13593.23	3 21	S	86	W	0.48	29.00	N	7.09	W	4.79
13700	13693.07	13693.07	3 14	S	88	W	0.14	28.69	N	12.82	W	10.53
13800	13792.89	13792.89	3 28	N	90	W	0.29	28.59	N	18.66	W	16.35
13900	13892.72	13892.72	3 17	N	89	W	0.18	28.67	N	24.54	W	22.21
14000	13992.58	13992.58	2 44	S	90	W	0.57	28.71	N	29.79	W	27.44
14100	14092.45	14092.45	3 7	N	78	W	0.75	29.28	N	34.83	W	32.42
14200	14192.37	14192.37	1 33	S	78	W	1.82	29.58	N	38.82	W	36.37
14300	14292.33	14292.33	1 46	S	45	W	0.96	28.22	N	41.23	W	38.88
14400	14392.26	14392.26	2 46	S	0	W	1.96	24.73	N	42.32	W	40.25
14500	14492.14	14492.14	2 46	S	14	E	0.66	19.98	N	41.76	W	40.06
14600	14592.03	14592.03	2 46	S	5	W	0.91	15.23	N	41.41	W	40.08
14700	14691.92	14691.92	2 40	S	18	W	0.62	10.62	N	42.35	W	41.38
14800	14791.79	14791.79	3 2	S	23	W	0.46	5.99	N	44.13	W	43.52
14900	14891.67	14891.67	2 38	S	29	W	0.50	1.55	N	46.30	W	46.03
14974	14965.59	14965.59	2 37	S	32	W	0.18	1.36	S	48.01	W	47.97