

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
BOSS-6795

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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
0	0.	0.	ORIGIN AT SURFACE			0.	0.	0.
100	100.00	100.00	0 5	S 87 E	0.09	0.00 S	0.08 E	-0.08
200	200.00	200.00	0 23	S 46 E	0.33	0.24 S	0.40 E	-0.38
300	299.99	299.99	0 55	N 85 E	0.73	0.41 S	1.45 E	-1.41
400	399.98	399.98	1 15	S 69 E	0.58	0.73 S	3.26 E	-3.20
500	499.93	499.93	2 7	S 82 E	0.93	1.38 S	6.11 E	-5.98
600	599.83	599.83	2 58	S 83 E	0.86	1.95 S	10.50 E	-10.32
700	699.70	699.70	3 1	S 87 E	0.18	2.39 S	15.70 E	-15.46
800	799.57	799.57	2 42	N 88 E	0.41	2.46 S	20.67 E	-20.41
900	899.46	899.46	2 46	S 87 E	0.24	2.49 S	25.44 E	-25.16
1000	999.36	999.36	2 26	N 90 E	0.36	2.60 S	29.97 E	-29.67
1100	1099.26	1099.26	2 40	S 89 E	0.24	2.63 S	34.42 E	-34.11
1200	1199.15	1199.15	2 31	S 87 E	0.20	2.78 S	38.94 E	-38.60
1300	1299.05	1299.05	2 38	N 85 E	0.40	2.70 S	43.41 E	-43.06
1400	1398.96	1398.96	2 19	S 87 E	0.49	2.62 S	47.70 E	-47.35
1500	1498.89	1498.89	2 10	N 82 E	0.49	2.46 S	51.58 E	-51.22
1600	1598.82	1598.82	2 3	N 90 E	0.33	2.18 S	55.23 E	-54.89
1700	1698.74	1698.74	2 21	N 87 E	0.32	2.07 S	59.07 E	-58.72
1800	1798.66	1798.66	2 19	N 85 E	0.07	1.80 S	63.13 E	-62.79
1900	1898.60	1898.60	1 49	N 77 E	0.58	1.28 S	66.70 E	-66.39
2000	1998.53	1998.53	2 15	N 73 E	0.46	0.34 S	70.12 E	-69.87
2100	2098.46	2098.46	2 7	N 83 E	0.40	0.47 N	73.82 E	-73.63
2200	2198.40	2198.40	1 47	N 85 E	0.33	0.84 N	77.20 E	-77.03
2300	2298.34	2298.34	2 12	N 79 E	0.47	1.35 N	80.64 E	-80.50
2400	2398.29	2398.29	1 33	N 81 E	0.65	1.95 N	83.85 E	-83.75
2500	2498.25	2498.25	1 33	N 83 E	0.06	2.35 N	86.53 E	-86.45
2600	2598.22	2598.22	1 29	N 59 E	0.61	3.18 N	88.98 E	-88.96
2700	2698.19	2698.19	1 16	N 70 E	0.33	4.22 N	91.13 E	-91.18
2800	2798.16	2798.16	1 14	N 75 E	0.12	4.87 N	93.22 E	-93.32
2900	2898.14	2898.14	1 9	N 68 E	0.17	5.53 N	95.20 E	-95.34