

Sperry-Sun Drilling Services



Survey Report for Roaring Springs 14 Fed. #3

Data Source: Information from Location

Surveyed: 12 November, 1998

Santa Fe Energy Resources
New Mexico

Eddy County
Sec. 14-T21S-R23E

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
1st Lateral MWD							
7739.00	4.400	231.700	7737.27	58.10 N	12.11 E	-26.36	26.233
7749.00	8.300	219.400	7747.21	57.31 N	11.35 E	-25.42	41.086
7759.00	12.900	215.500	7757.04	55.84 N	10.25 E	-23.98	46.530
7769.00	17.400	219.100	7766.69	53.77 N	8.65 E	-21.92	45.952
7779.00	21.700	226.700	7776.11	51.34 N	6.36 E	-19.09	49.874
7789.00	25.500	235.300	7785.27	48.84 N	3.25 E	-15.45	51.189
7811.00	34.700	238.000	7804.29	42.82 N	5.98 W	-5.00	42.259
7821.00	39.500	238.600	7812.26	39.65 N	11.11 W	0.76	48.136
7831.00	44.300	241.100	7819.70	36.30 N	16.89 W	7.19	50.813
7841.00	48.600	243.400	7826.59	32.93 N	23.30 W	14.25	46.113
7851.00	53.200	244.200	7832.90	29.51 N	30.26 W	21.85	46.416
7861.00	57.600	245.000	7838.57	25.98 N	37.70 W	29.93	44.489
7871.00	62.100	247.000	7843.59	22.47 N	45.59 W	38.46	48.206
7881.00	66.400	248.900	7847.94	19.09 N	53.94 W	47.39	46.278
7886.00	68.500	249.800	7849.86	17.46 N	58.26 W	51.98	45.170
7895.00	71.700	250.400	7852.92	14.58 N	66.22 W	60.41	36.104
7905.00	76.100	252.000	7855.69	11.49 N	75.31 W	69.99	46.607
7915.00	80.800	253.600	7857.69	8.59 N	84.67 W	79.77	49.544
7925.00	84.200	255.600	7859.00	5.96 N	94.22 W	89.68	39.358
7935.00	85.700	257.000	7859.88	3.60 N	103.90 W	99.64	20.481
7945.00	87.900	257.000	7860.44	1.36 N	113.63 W	109.62	22.000
7955.00	90.200	256.800	7860.60	0.91 S	123.37 W	119.62	23.087
7981.00	95.900	257.100	7859.22	6.77 S	148.65 W	145.56	21.953
8013.00	96.700	257.500	7855.71	13.76 S	179.68 W	177.35	2.792
8045.00	96.700	257.700	7851.97	20.59 S	210.72 W	209.11	0.621
8076.00	97.100	257.800	7848.25	27.12 S	240.79 W	239.86	1.329
8108.00	95.800	258.700	7844.66	33.59 S	271.92 W	271.61	4.931
8140.00	98.300	258.400	7840.73	39.89 S	303.05 W	303.32	7.868

1st Lateral Sidetrack MWD

8171.00	99.000	257.800	7836.07	46.21 S	333.03 W	333.94	2.960
8203.00	99.300	257.000	7830.98	53.11 S	363.87 W	365.51	2.640
8235.00	99.300	256.600	7825.81	60.32 S	394.61 W	397.08	1.234
8267.00	100.000	256.400	7820.44	67.68 S	425.29 W	428.62	2.273
8298.00	100.100	256.100	7815.03	74.94 S	454.94 W	459.14	1.006
8330.00	99.700	255.600	7809.53	82.64 S	485.50 W	490.66	1.983
8362.00	99.500	255.200	7804.19	90.60 S	516.04 W	522.22	1.382
8393.00	99.700	255.200	7799.02	98.40 S	545.59 W	552.78	0.645
8425.00	99.000	254.800	7793.83	106.58 S	576.09 W	584.35	2.511
8457.00	99.200	254.500	7788.76	114.94 S	606.56 W	615.95	1.117

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