

Sperry-Sun Drilling Services

Survey Report for Federal 1 Avalon #3 - MWD SURVEY

New Mexico

Eddy County
Sec. 1-T21S-R26E

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
1822.00	2.000	303.100	1821.63	17.36 N	26.64 W	9.92	0.11
1886.00	3.500	257.500	1885.56	17.55 N	29.48 W	12.02	3.97
1981.00	11.200	232.600	1979.73	11.31 N	39.66 W	23.86	8.59
2076.00	17.200	233.000	2071.78	2.76 S	58.22 W	47.15	6.32
2172.00	22.800	236.000	2161.96	21.72 S	85.00 W	79.90	5.93
2267.00	29.000	238.100	2247.38	44.20 S	119.85 W	121.15	6.60
2363.00	34.700	239.400	2328.89	70.43 S	163.16 W	171.35	5.98
2458.00	40.300	239.400	2404.23	99.86 S	212.92 W	228.58	5.89
2554.00	46.600	238.800	2473.89	133.76 S	269.53 W	293.96	6.58
2648.00	50.500	239.400	2536.10	169.93 S	329.98 W	363.74	4.18
2744.00	55.400	241.500	2593.93	207.66 S	396.63 W	439.34	5.39
2839.00	60.600	241.100	2644.25	246.35 S	467.26 W	518.65	5.49
2934.00	63.200	239.700	2689.00	287.74 S	540.11 W	601.38	3.03
3029.00	65.100	239.400	2730.42	331.07 S	613.81 W	685.98	2.02
3125.00	66.400	239.000	2769.85	375.89 S	688.99 W	772.67	1.41
3220.00	67.100	240.600	2807.35	419.79 S	764.43 W	858.99	1.71
3315.00	66.400	240.800	2844.85	462.51 S	840.55 W	945.10	0.76
3411.00	66.300	240.200	2883.36	505.81 S	917.08 W	1031.89	0.58
3504.00	65.200	239.500	2921.56	548.40 S	990.41 W	1115.74	1.37
3600.00	65.000	239.200	2961.98	592.79 S	1065.32 W	1201.95	0.35
3695.00	64.500	238.500	3002.50	637.23 S	1138.85 W	1287.12	0.85
3790.00	63.800	237.300	3043.92	682.66 S	1211.28 W	1372.04	1.35
3885.00	63.500	234.600	3086.09	730.32 S	1281.80 W	1456.88	2.57
3920.00	63.500	234.800	3101.71	748.42 S	1307.36 W	1488.14	0.51
4013.00	62.200	231.800	3144.16	797.85 S	1373.71 W	1570.83	3.19
4108.00	60.500	231.300	3189.70	849.69 S	1439.00 W	1654.19	1.85
4203.00	60.800	230.800	3236.27	901.74 S	1503.40 W	1737.00	0.56
4298.00	59.600	229.900	3283.48	954.34 S	1566.87 W	1819.42	1.51
4395.00	59.300	229.500	3332.78	1008.37 S	1630.58 W	1902.93	0.47
4490.00	58.900	229.200	3381.57	1061.47 S	1692.43 W	1984.40	0.50
4586.00	56.600	228.600	3432.79	1114.84 S	1753.61 W	2065.51	2.45
4681.00	54.700	226.900	3486.40	1167.56 S	1811.67 W	2143.79	2.49
4777.00	54.400	226.500	3542.08	1221.19 S	1868.58 W	2221.74	0.46
4873.00	53.400	225.000	3598.64	1275.31 S	1924.14 W	2298.94	1.64
4968.00	54.000	224.100	3654.88	1329.87 S	1977.85 W	2374.98	0.99
5063.00	52.800	223.200	3711.52	1385.05 S	2030.50 W	2450.57	1.47
5158.00	52.300	222.300	3769.29	1440.43 S	2081.69 W	2525.16	0.92
5253.00	51.600	221.400	3827.84	1496.15 S	2131.61 W	2598.95	1.05
5348.00	50.600	222.100	3887.50	1551.31 S	2180.83 W	2671.87	1.20

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