

A Gyrodata Directional Survey

Yates Petroleum  
 Well: ARREGUY NO. 1, 2-7/8" DRILLPIPE  
 Location: PATTERSON #49, LEA COUNTY, NEW MEXICO  
 Job Number: MD0800GMW223

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
9000.0	1.20	148.05	S 31 57 E	0.07	8999.1	54.2 70.5	18.05 N 51.05 E
9200.0	1.41	148.97	S 31 2 E	0.10	9199.1	55.3 75.1	14.17 N 53.43 E
9400.0	1.68	144.53	S 35 28 E	0.15	9399.0	57.2 80.3	9.68 N 56.40 E
9600.0	1.75	131.96	S 48 2 E	0.19	9598.9	60.6 85.0	5.24 N 60.37 E
9800.0	1.64	139.13	S 40 52 E	0.12	9798.8	64.5 89.1	1.04 N 64.51 E
10000.0	1.61	151.44	S 28 33 E	0.17	9998.8	67.8 93.0	3.58 S 67.72 E
10200.0	1.65	152.43	S 27 34 E	0.02	10198.7	70.9 97.0	8.60 S 70.40 E
10400.0	1.40	158.05	S 21 57 E	0.14	10398.6	73.9 100.5	13.41 S 72.64 E
10600.0	1.44	175.76	S 4 15 E	0.22	10598.6	75.9 103.9	18.18 S 73.74 E
10800.0	1.72	201.30	S 21 18 W	0.37	10798.5	76.5 107.9	23.48 S 72.83 E
10900.0	1.89	212.99	S 32 59 W	0.41	10898.4	76.1 110.2	26.26 S 71.39 E
11000.0	2.23	206.77	S 26 46 W	0.40	10998.4	75.6 112.9	29.38 S 69.62 E
11100.0	2.39	195.51	S 15 31 W	0.48	11098.3	75.8 115.9	33.12 S 68.19 E
11200.0	1.91	208.10	S 28 6 W	0.67	11198.2	76.2 118.7	36.59 S 66.84 E
11300.0	1.17	242.94	S 62 56 W	1.16	11298.2	75.7 120.6	38.53 S 65.15 E
11400.0	0.95	242.60	S 62 36 W	0.22	11398.2	74.7 121.8	39.38 S 63.50 E
11500.0	0.49	239.20	S 59 12 W	0.46	11498.2	74.1 122.7	39.98 S 62.39 E
11600.0	2.22	183.53	S 3 32 W	1.99	11598.1	74.9 124.2	42.13 S 61.90 E
11700.0	8.31	191.83	S 11 50 W	6.11	11697.7	79.1 130.3	51.15 S 60.30 E
11800.0	6.82	179.84	S 0 9 E	2.16	11796.8	87.1 137.5	64.16 S 58.84 E
11900.0	7.04	173.56	S 6 26 E	0.79	11896.1	96.7 142.0	76.19 S 59.54 E

Final Station Closure: Distance: 96.69 ft Az: 141.99 deg.