

A Gyrodata Directional Survey

for

DAVID H. ARRINGTON OIL & GAS, INC.

Location: PATTERSON #144, LEA COUNTY, NEW MEXICO,
Lease: GREEN EYED SQUEALY WORM Well: #1, 4 1/2" DRILLPIPE

I - 26 - 155 - 34e
1974/S 7 1129/E
30-025-36013

Job Number: MD0304GW139

Run Date: 3/9/2004 12:30:03 AM

Surveyor: MICHAEL MARTINEZ/HENRY DREW

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.986222 deg. N Longitude: 103.476139 deg. W

Azimuth Correction:

Gyro: -0.47000 deg West to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N 0.00 E
0 - 12,160 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4 1/2" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON #144 R.K.B.						
200.00	0.35	214.92	0.17	200.00	0.6 214.9	0.50 S 0.35 W
400.00	0.43	218.70	0.04	399.99	2.0 216.4	1.59 S 1.17 W
600.00	0.32	222.90	0.06	599.99	3.3 218.0	2.58 S 2.02 W
800.00	0.34	248.76	0.07	799.99	4.4 222.7	3.21 S 2.95 W
1000.00	0.23	287.40	0.11	999.98	5.1 229.6	3.31 S 3.89 W
1200.00	0.34	296.37	0.06	1199.98	5.6 238.6	2.93 S 4.79 W
1400.00	0.32	301.26	0.02	1399.98	6.3 247.8	2.37 S 5.80 W
1600.00	0.27	313.45	0.04	1599.98	6.9 255.2	1.75 S 6.63 W
1800.00	0.25	343.89	0.07	1799.97	7.2 261.9	1.01 S 7.09 W
2000.00	0.10	352.53	0.08	1999.97	7.2 266.7	0.42 S 7.23 W
2200.00	0.35	9.33	0.13	2199.97	7.2 272.9	0.36 N 7.16 W
2400.00	0.89	40.87	0.31	2399.96	6.4 289.6	2.15 N 6.03 W
2600.00	1.75	56.03	0.46	2599.90	5.6 333.8	5.04 N 2.47 W
2800.00	1.36	59.87	0.20	2799.83	8.2 14.9	7.94 N 2.12 E
3000.00	1.49	63.80	0.08	2999.77	12.2 32.3	10.28 N 6.51 E
3200.00	1.45	69.38	0.08	3199.70	16.7 42.3	12.32 N 11.21 E

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3400.00	1.06	69.20	0.19	3399.65	20.7 47.8	13.87 N 15.31 E
3600.00	1.19	65.19	0.07	3599.62	24.4 50.9	15.40 N 18.93 E
3800.00	1.13	73.07	0.08	3799.57	28.3 53.4	16.85 N 22.71 E
4000.00	1.06	98.18	0.24	3999.54	31.5 57.0	17.16 N 26.43 E
4200.00	1.05	106.61	0.08	4199.51	34.2 61.4	16.38 N 30.01 E
4400.00	0.77	110.03	0.14	4399.48	36.4 65.0	15.39 N 33.03 E
4600.00	0.44	107.08	0.17	4599.47	38.0 67.2	14.71 N 35.02 E
4800.00	0.41	113.34	0.03	4799.46	39.1 68.7	14.20 N 36.41 E
5000.00	0.29	110.37	0.06	4999.46	40.0 69.9	13.74 N 37.54 E
5200.00	0.31	91.16	0.05	5199.46	40.9 70.6	13.55 N 38.55 E
5400.00	0.27	106.61	0.04	5399.45	41.8 71.3	13.40 N 39.56 E
5600.00	0.30	118.82	0.03	5599.45	42.5 72.2	13.01 N 40.48 E
5800.00	0.23	118.38	0.04	5799.45	43.2 73.1	12.57 N 41.29 E
6000.00	0.23	156.99	0.08	5999.45	43.5 74.0	12.01 N 41.80 E
6200.00	0.41	155.28	0.09	6199.44	43.7 75.4	10.99 N 42.26 E
6400.00	0.28	164.11	0.07	6399.44	43.8 77.0	9.87 N 42.69 E
6600.00	0.07	165.07	0.11	6599.44	43.9 77.8	9.30 N 42.85 E
6800.00	0.18	271.75	0.11	6799.44	43.5 77.8	9.19 N 42.57 E
7000.00	0.16	305.22	0.05	6999.44	43.1 77.4	9.36 N 42.03 E
7200.00	0.18	288.40	0.03	7199.44	42.6 77.0	9.62 N 41.50 E
7400.00	0.04	332.25	0.08	7399.44	42.3 76.6	9.78 N 41.17 E

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Job Number: MD0304GW139

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
7600.00	0.13	298.64	0.05	7599.44	42.1 76.3	9.94 N 40.94 E
7800.00	0.14	266.32	0.04	7799.44	41.7 76.1	10.03 N 40.50 E
8000.00	0.18	243.70	0.04	7999.44	41.2 76.1	9.88 N 39.96 E
8200.00	0.23	145.51	0.15	8199.43	41.0 76.7	9.41 N 39.90 E
8400.00	0.56	92.80	0.23	8399.43	42.1 77.6	9.04 N 41.11 E
8600.00	0.58	96.09	0.02	8599.42	44.0 78.4	8.88 N 43.11 E
8800.00	0.55	103.52	0.04	8799.41	45.9 79.3	8.55 N 45.06 E
9000.00	0.59	106.50	0.02	8999.40	47.7 80.3	8.03 N 46.97 E
9200.00	0.65	105.70	0.03	9199.39	49.6 81.4	7.44 N 49.04 E
9400.00	0.67	105.52	0.01	9399.38	51.7 82.4	6.82 N 51.26 E
9600.00	1.15	100.09	0.24	9599.35	54.7 83.5	6.16 N 54.35 E
9800.00	1.34	99.67	0.09	9799.30	58.9 84.7	5.41 N 58.63 E
10000.00	1.52	92.31	0.13	9999.24	63.8 85.6	4.91 N 63.57 E
10200.00	1.35	94.25	0.09	10199.18	68.7 86.1	4.63 N 68.57 E
10400.00	1.21	90.00	0.09	10399.13	73.2 86.5	4.46 N 73.02 E
10600.00	0.98	70.92	0.21	10599.09	76.9 86.3	5.02 N 76.75 E
10800.00	0.85	85.85	0.14	10799.07	80.1 85.9	5.69 N 79.85 E
11000.00	0.87	95.40	0.07	10999.04	83.0 86.1	5.65 N 82.85 E
11200.00	0.87	136.93	0.31	11199.02	85.5 87.0	4.40 N 85.41 E
11400.00	1.18	122.03	0.20	11398.99	88.2 88.6	2.20 N 88.19 E
11600.00	1.72	100.63	0.38	11598.93	92.9 89.7	0.56 N 92.88 E

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11800.00	3.23	144.23	1.15	11798.75	99.2 92.6	4.56 S 99.11 E
12000.00	3.21	137.52	0.19	11998.44	107.0 97.1	13.26 S 106.18 E
12160.00	3.47	132.45	0.24	12158.17	114.5 100.0	19.83 S 112.78 E

Final Station Closure: Distance: 114.51 ft Az: 99.97 deg.