

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

DEVON ENERGY

Location: MCVAY #8, EDDY COUNTY, NEW MEXICO
Lease: STRAWBERRY 7 FED COM Well: #5H, 4-1/2" DRILLPIPE

Job Number: MD0410GBM176

Run Date: 4/6/2010 5:25:32 PM

Surveyor: AJ EATON

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Directional Drilling Company

Survey Latitude: 32.676130 deg N Longitude: -103.900300 deg W

Azimuth Correction:

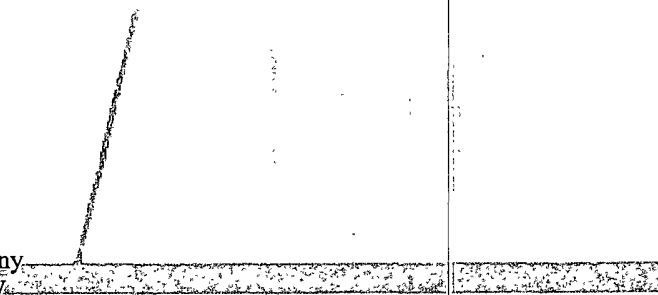
Gyro: -0.23000 deg to Grid North

Proposed Well Direction: 0.410 deg

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. feet	AZIMUTH 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 TO 8146 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO MCVAY #8 R.K.B. (+ 17 FT.)								
138.30	0.33	329.36	0.24	138.30	0.4	329.4	0.34 N	0.20 W
226.56	0.33	288.23	0.26	226.56	0.9	318.1	0.63 N	0.57 W
314.82	0.27	293.06	0.07	314.82	1.3	308.4	0.79 N	1.00 W
403.08	0.33	303.15	0.09	403.08	1.7	305.8	1.01 N	1.40 W
491.34	0.28	339.51	0.22	491.33	2.2	308.7	1.35 N	1.69 W
579.60	0.47	321.82	0.25	579.59	2.7	312.7	1.84 N	1.99 W
674.18	0.48	322.18	0.01	674.17	3.5	314.8	2.45 N	2.47 W
768.76	0.49	309.24	0.12	768.75	4.3	315.0	3.02 N	3.02 W
863.34	0.49	310.92	0.02	863.32	5.1	314.2	3.54 N	3.64 W
957.92	0.49	315.82	0.04	957.90	5.9	314.1	4.09 N	4.22 W
1052.50	0.47	311.59	0.04	1052.48	6.7	314.0	4.63 N	4.79 W
1147.08	0.22	244.13	0.46	1147.05	7.1	312.5	4.81 N	5.24 W
1241.66	0.21	247.57	0.02	1241.63	7.3	310.0	4.66 N	5.57 W
1336.24	0.18	245.35	0.03	1336.21	7.4	307.7	4.54 N	5.86 W
1430.82	0.26	65.46	0.47	1430.79	7.4	308.2	4.56 N	5.80 W
1525.40	0.66	11.71	0.58	1525.37	7.6	313.4	5.19 N	5.49 W
1619.98	0.72	0.81	0.15	1619.94	8.3	319.6	6.31 N	5.37 W
1714.56	0.71	6.85	0.08	1714.52	9.2	324.7	7.48 N	5.30 W
1809.14	0.86	22.41	0.27	1809.09	10.0	330.4	8.72 N	4.96 W

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Job Number: MD0410GBM176

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
1903.72	1.00	23.51	0.16	1903.65	11.0 336.7	10.13 N 4.36 W
1998.30	1.26	39.49	0.43	1998.22	12.2 344.0	11.70 N 3.36 W
2092.88	1.53	37.45	0.28	2092.77	13.6 351.8	13.50 N 1.94 W
2187.46	2.04	47.75	0.64	2187.30	15.6 0.3	15.63 N 0.08 E
2282.04	2.32	57.07	0.48	2281.81	18.0 9.4	17.81 N 2.93 E
2376.62	2.81	64.40	0.62	2376.30	20.9 18.5	19.85 N 6.64 E
2471.20	2.93	67.82	0.22	2470.76	24.4 26.7	21.77 N 10.97 E
2565.78	2.62	72.90	0.42	2565.23	27.9 33.2	23.32 N 15.27 E
2660.36	2.22	69.40	0.46	2659.72	31.1 37.8	24.60 N 19.05 E
2754.94	1.55	69.90	0.70	2754.25	33.8 40.5	25.68 N 21.97 E
2849.52	1.21	71.13	0.36	2848.81	35.8 42.4	26.44 N 24.11 E
2944.10	1.03	70.57	0.19	2943.37	37.4 43.7	27.05 N 25.86 E
3038.68	0.77	62.92	0.30	3037.94	38.8 44.6	27.62 N 27.22 E
3133.26	0.64	61.22	0.13	3132.51	39.9 45.1	28.16 N 28.26 E
3227.84	0.68	60.02	0.04	3227.08	40.9 45.5	28.70 N 29.21 E
3322.42	0.75	53.86	0.11	3321.65	42.1 45.8	29.34 N 30.19 E
3417.00	0.65	53.17	0.10	3416.23	43.2 46.0	30.03 N 31.12 E
3511.58	0.51	56.77	0.15	3510.80	44.2 46.2	30.59 N 31.91 E
3606.16	0.52	47.88	0.09	3605.38	45.0 46.3	31.11 N 32.58 E
3700.74	0.50	44.96	0.03	3699.96	45.9 46.3	31.69 N 33.20 E
3795.32	0.46	41.83	0.05	3794.53	46.7 46.3	32.27 N 33.74 E
3889.90	0.48	28.81	0.12	3889.11	47.5 46.1	32.90 N 34.19 E
3984.48	0.63	26.89	0.16	3983.68	48.3 45.8	33.72 N 34.62 E

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Lease: STRAWBERRY 7 FED COM Well: #5H, 4-1/2" DRILLPIPE

Job Number: MD0410GBM176

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
4079.06	0.72	26.18	0.10	4078.26	49.4 45.3	34.72 N 35.11 E
4173.64	0.86	25.54	0.14	4172.83	50.6 44.8	35.89 N 35.68 E
4268.22	0.73	24.17	0.13	4267.40	51.8 44.3	37.08 N 36.23 E
4362.80	0.74	14.93	0.13	4361.97	52.9 43.8	38.22 N 36.64 E
4457.38	0.85	8.68	0.14	4456.54	54.1 43.0	39.51 N 36.90 E
4551.96	0.89	9.37	0.05	4551.11	55.3 42.2	40.93 N 37.13 E
4646.54	1.03	0.86	0.21	4645.68	56.5 41.2	42.50 N 37.26 E
4741.12	0.86	359.43	0.18	4740.25	57.7 40.2	44.06 N 37.27 E
4835.70	0.79	357.77	0.07	4834.82	58.7 39.3	45.42 N 37.23 E
4930.28	0.81	358.03	0.02	4929.39	59.7 38.5	46.75 N 37.19 E
5024.86	0.88	12.12	0.23	5023.96	60.9 37.8	48.13 N 37.32 E
5119.44	1.23	24.39	0.43	5118.52	62.5 37.3	49.77 N 37.89 E
5214.02	1.21	23.93	0.02	5213.08	64.5 36.9	51.60 N 38.71 E
5308.60	1.18	26.94	0.07	5307.64	66.4 36.5	53.38 N 39.56 E
5403.18	1.18	26.87	0.00	5402.20	68.4 36.3	55.12 N 40.44 E
5497.76	1.16	30.52	0.08	5496.76	70.3 36.1	56.82 N 41.37 E
5592.34	1.14	33.81	0.07	5591.32	72.2 36.0	58.43 N 42.38 E
5686.92	0.95	32.58	0.21	5685.88	73.9 35.9	59.87 N 43.32 E
5781.50	0.94	36.77	0.07	5780.45	75.5 35.9	61.15 N 44.21 E
5876.08	0.93	39.52	0.05	5875.02	77.0 35.9	62.37 N 45.16 E
5970.66	0.89	38.52	0.05	5969.59	78.5 36.0	63.54 N 46.11 E
6065.24	0.88	35.76	0.05	6064.15	80.0 36.0	64.70 N 47.00 E
6159.82	0.94	35.88	0.07	6158.72	81.5 36.0	65.92 N 47.87 E

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Job Number: MD0410GBM176

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
6254.40	1.15	37.40	0.23	6253.29	83.2 36.0	67.31 N 48.91 E
6348.98	1.16	37.36	0.01	6347.85	85.1 36.0	68.82 N 50.07 E
6443.56	1.31	44.76	0.23	6442.41	87.1 36.2	70.36 N 51.41 E
6538.14	1.40	48.60	0.13	6536.96	89.3 36.4	71.89 N 53.05 E
6632.72	1.40	37.60	0.28	6631.51	91.6 36.6	73.58 N 54.62 E
6727.30	1.39	23.70	0.36	6726.06	93.9 36.4	75.55 N 55.79 E
6821.88	1.52	15.27	0.27	6820.61	96.2 36.0	77.81 N 56.58 E
6916.46	1.55	13.80	0.05	6915.16	98.6 35.5	80.27 N 57.22 E
7011.04	1.67	7.50	0.22	7009.70	101.0 34.8	82.88 N 57.71 E
7105.62	1.81	2.54	0.22	7104.24	103.5 34.1	85.75 N 57.95 E
7200.20	1.90	1.51	0.10	7198.77	106.1 33.2	88.81 N 58.06 E
7294.78	1.87	6.65	0.18	7293.30	108.8 32.4	91.91 N 58.28 E
7389.36	1.64	17.80	0.43	7387.83	111.5 31.9	94.73 N 58.87 E
7483.94	1.26	14.15	0.42	7482.38	113.8 31.5	97.03 N 59.54 E
7578.52	1.09	3.43	0.29	7576.94	115.6 31.2	98.93 N 59.85 E
7673.10	1.30	354.00	0.30	7671.50	117.3 30.7	100.89 N 59.79 E
7767.68	1.56	339.22	0.48	7766.05	118.9 29.9	103.16 N 59.22 E
7862.26	1.60	339.27	0.05	7860.60	120.6 28.9	105.60 N 58.30 E
7956.84	1.77	320.12	0.62	7955.14	122.0 27.8	107.95 N 56.89 E
8051.42	1.00	334.89	0.89	8049.69	123.1 26.9	109.82 N 55.61 E
8146.00	0.81	351.95	0.35	8144.26	124.2 26.4	111.23 N 55.16 E

Final Station Closure: Distance: 124.16 ft Az: 26.38 deg.

DEVON ENERGY
WELL NUMBER : STRAWBERRY 7 FED COM #5H
4-1/2" DRILLPIPE SURVEY
DATE RUN : 060410
JOB NUMBER : MD0410GBM176

MD	INC	AZ	TVD	LOCAL N	LOCAL E	V/S	DOG/ 100FT
138.3	0.33	329.36	138.3	0.34	-0.2	0.3	0.24
226.6	0.33	288.23	226.56	0.63	-0.57	0.6	0.26
314.8	0.27	293.06	314.82	0.79	-1	0.8	0.07
403.1	0.33	303.15	403.08	1.01	-1.4	1	0.09
491.3	0.28	339.51	491.33	1.35	-1.69	1.3	0.22
579.6	0.47	321.82	579.59	1.84	-1.99	1.8	0.25
674.2	0.48	322.18	674.17	2.45	-2.47	2.4	0.01
768.8	0.49	309.24	768.75	3.02	-3.02	3	0.12
863.3	0.49	310.92	863.32	3.54	-3.64	3.5	0.02
957.9	0.49	315.82	957.9	4.09	-4.22	4.1	0.04
1052.5	0.47	311.59	1052.48	4.63	-4.79	4.6	0.04
1147.1	0.22	244.13	1147.05	4.81	-5.24	4.8	0.46
1241.7	0.21	247.57	1241.63	4.66	-5.57	4.6	0.02
1336.2	0.18	245.35	1336.21	4.54	-5.86	4.5	0.03
1430.8	0.26	65.46	1430.79	4.56	-5.8	4.5	0.47
1525.4	0.66	11.71	1525.37	5.19	-5.49	5.1	0.58
1620	0.72	0.81	1619.94	6.31	-5.37	6.3	0.15
1714.6	0.71	6.85	1714.52	7.48	-5.3	7.4	0.08
1809.1	0.86	22.41	1809.09	8.72	-4.96	8.7	0.27
1903.7	1	23.51	1903.65	10.13	-4.36	10.1	0.16
1998.3	1.26	39.49	1998.22	11.7	-3.36	11.7	0.43
2092.9	1.53	37.45	2092.77	13.5	-1.94	13.5	0.28
2187.5	2.04	47.75	2187.3	15.63	0.08	15.6	0.64
2282	2.32	57.07	2281.81	17.81	2.93	17.8	0.48
2376.6	2.81	64.4	2376.3	19.85	6.64	19.9	0.62
2471.2	2.93	67.82	2470.76	21.77	10.97	21.8	0.22
2565.8	2.62	72.9	2565.23	23.32	15.27	23.4	0.42
2660.4	2.22	69.4	2659.72	24.6	19.05	24.7	0.46
2754.9	1.55	69.9	2754.25	25.68	21.97	25.8	0.7
2849.5	1.21	71.13	2848.81	26.44	24.11	26.6	0.36
2944.1	1.03	70.57	2943.37	27.05	25.86	27.2	0.19
3038.7	0.77	62.92	3037.94	27.62	27.22	27.8	0.3
3133.3	0.64	61.22	3132.51	28.16	28.26	28.4	0.13
3227.8	0.68	60.02	3227.08	28.7	29.21	28.9	0.04
3322.4	0.75	53.86	3321.65	29.34	30.19	29.6	0.11
3417	0.65	53.17	3416.23	30.03	31.12	30.3	0.1
3511.6	0.51	56.77	3510.8	30.59	31.91	30.8	0.15
3606.2	0.52	47.88	3605.38	31.11	32.58	31.3	0.09
3700.7	0.5	44.96	3699.96	31.69	33.2	31.9	0.03
3795.3	0.46	41.83	3794.53	32.27	33.74	32.5	0.05
3889.9	0.48	28.81	3889.11	32.9	34.19	33.1	0.12
3984.5	0.63	26.89	3983.68	33.72	34.62	34	0.16
4079.1	0.72	26.18	4078.26	34.72	35.11	35	0.1
4173.6	0.86	25.54	4172.83	35.89	35.68	36.1	0.14
4268.2	0.73	24.17	4267.4	37.08	36.23	37.3	0.13

4362.8	0.74	14.93	4361.97	38.22	36.64	38.5	0.13
4457.4	0.85	8.68	4456.54	39.51	36.9	39.8	0.14
4552	0.89	9.37	4551.11	40.93	37.13	41.2	0.05
4646.5	1.03	0.86	4645.68	42.5	37.26	42.8	0.21
4741.1	0.86	359.43	4740.25	44.06	37.27	44.3	0.18
4835.7	0.79	357.77	4834.82	45.42	37.23	45.7	0.07
4930.3	0.81	358.03	4929.39	46.75	37.19	47	0.02
5024.9	0.88	12.12	5023.96	48.13	37.32	48.4	0.23
5119.4	1.23	24.39	5118.52	49.77	37.89	50	0.43
5214	1.21	23.93	5213.08	51.6	38.71	51.9	0.02
5308.6	1.18	26.94	5307.64	53.38	39.56	53.7	0.07
5403.2	1.18	26.87	5402.2	55.12	40.44	55.4	0
5497.8	1.16	30.52	5496.76	56.82	41.37	57.1	0.08
5592.3	1.14	33.81	5591.32	58.43	42.38	58.7	0.07
5686.9	0.95	32.58	5685.88	59.87	43.32	60.2	0.21
5781.5	0.94	36.77	5780.45	61.15	44.21	61.5	0.07
5876.1	0.93	39.52	5875.02	62.37	45.16	62.7	0.05
5970.7	0.89	38.52	5969.59	63.54	46.11	63.9	0.05
6065.2	0.88	35.76	6064.15	64.7	47	65	0.05
6159.8	0.94	35.88	6158.72	65.92	47.87	66.3	0.07
6254.4	1.15	37.4	6253.29	67.31	48.91	67.7	0.23
6349	1.16	37.36	6347.85	68.82	50.07	69.2	0.01
6443.6	1.31	44.76	6442.41	70.36	51.41	70.7	0.23
6538.1	1.4	48.6	6536.96	71.89	53.05	72.3	0.13
6632.7	1.4	37.6	6631.51	73.58	54.62	74	0.28
6727.3	1.39	23.7	6726.06	75.55	55.79	75.9	0.36
6821.9	1.52	15.27	6820.61	77.81	56.58	78.2	0.27
6916.5	1.55	13.8	6915.16	80.27	57.22	80.7	0.05
7011	1.67	7.5	7009.7	82.88	57.71	83.3	0.22
7105.6	1.81	2.54	7104.24	85.75	57.95	86.2	0.22
7200.2	1.9	1.51	7198.77	88.81	58.06	89.2	0.1
7294.8	1.87	6.65	7293.3	91.91	58.28	92.3	0.18
7389.4	1.64	17.8	7387.83	94.73	58.87	95.2	0.43
7483.9	1.26	14.15	7482.38	97.03	59.54	97.5	0.42
7578.5	1.09	3.43	7576.94	98.93	59.85	99.4	0.29
7673.1	1.3	354	7671.5	100.89	59.79	101.3	0.3
7767.7	1.56	339.22	7766.05	103.16	59.22	103.6	0.48
7862.3	1.6	339.27	7860.6	105.6	58.3	106	0.05
7956.8	1.77	320.12	7955.14	107.95	56.89	108.4	0.62
8051.4	1	334.89	8049.69	109.82	55.61	110.2	0.89
8146	0.81	351.95	8144.26	111.23	55.16	111.6	0.35