



Scientific Drilling

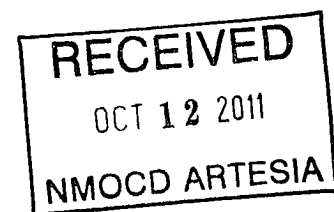
Gyroscopic Survey Report
for
DEVON ENERGY

30-005-64132

Well Location	CHAVES COUNTY, NEW MEXICO
Well Name	GOODNIGHT 1 FEE #1H
Rig Name	MCVAY #10
Survey Date	2/16/2011
Latitude	33.31 deg
North Reference	Grid North
Grid Correction	-0.14 deg
Depth Reference	RKB
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 0.00Azim (deg)
Definitive Survey	FINAL INRUN
Operator	LEO GARZA

Comments

ZERO REFERENCE IS AT K.B. OF 19.5'.





Survey Report

Well Name: GOODNIGHT 1 FEE #1H

Survey: FINAL INRUN

Survey Date: 2/16/2011

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0 00	0 00	0 00	0 00	0.00	0 00	0 00	Invalid	0 00	0 00
100.00	0 72	69 72	100 00	0 22	0 22	0 59	0 72	0 63	69 72
200 00	0 72	71 73	199 99	0 64	0 64	1.78	0 03	1 89	70 39
300 00	0 73	76 49	299 98	0 98	0 98	3 01	0 06	3 16	71 89
400 00	0 71	75 21	399 97	1 29	1 29	4 23	0 03	4 42	73 02
500 00	0 76	72 30	499 97	1 65	1 65	5.46	0 06	5 70	73.18
600 00	0 79	65 01	599 96	2 14	2 14	6 72	0 10	7 05	72 30
700 00	0 77	64 08	699 95	2 73	2 73	7 95	0 02	8 41	71 04
800 00	0 80	66 23	799 94	3 31	3 31	9 20	0 04	9 77	70 22
900 00	0 80	69 00	899 93	3 84	3 84	10 49	0 04	11.17	69 89
1000 00	0.82	74 57	999 92	4 28	4 28	11 83	0 08	12 58	70 11
1100 00	0 94	87 32	1099 91	4 51	4 51	13 34	0 23	14 09	71 33
1200 00	0 96	86 58	1199 89	4 60	4 60	15 00	0.02	15 69	72 96
1300 00	0 97	88 28	1299 88	4 67	4 67	16 68	0 03	17 32	74 35
1400 00	0 93	91 25	1399.86	4 68	4 68	18 33	0 06	18 92	75 68
1500 00	0 84	84.89	1499 85	4 73	4.73	19 87	0 13	20 42	76 61
1600 00	0 76	85.28	1599.84	4 85	4 85	21 26	0 08	21 81	77.15
1700 00	0 46	103 12	1699 84	4 81	4 81	22 31	0 35	22 82	77 83
1800 00	0 33	112 69	1799 83	4 61	4 61	22 96	0 15	23 42	78 65
1900 00	0 44	114.40	1899 83	4 34	4 34	23 58	0 11	23 97	79 57
2000 00	0 36	128 06	1999 83	3 99	3 99	24 17	0 13	24 50	80 62
2100 00	0 30	119 87	2099 83	3 67	3.67	24 64	0 07	24 92	81 53
2200 00	0 40	119.72	2199 83	3 36	3 36	25 18	0 10	25 40	82 39
2300 00	0 41	151 91	2299 82	2 88	2 88	25 65	0 22	25 81	83 60
2400 00	0 31	144 57	2399 82	2 35	2 35	25 97	0 11	26 08	84 84
2500 00	0 53	151 25	2499 82	1 72	1 72	26 35	0 23	26 41	86 27
2600 00	0 64	161 32	2599 81	0 78	0 78	26 75	0 15	26 76	88 33
2700 00	0 73	162 65	2699 81	-0 35	-0 35	27 12	0 09	27 12	90 75
2800 00	0 86	162 86	2799.80	-1 67	-1 67	27 53	0 14	27 58	93 48
2900 00	0 91	166 13	2899 79	-3 16	-3 16	27 94	0 07	28 12	96 46
3000 00	0 98	167 85	2999 77	-4 77	-4.77	28 31	0 08	28 71	99 56
3100.00	1 11	170 97	3099 76	-6 56	-6 56	28 64	0 14	29.39	102 90
3200 00	1 09	175 81	3199 74	-8.46	-8 46	28 86	0 09	30.08	106 34
3300 00	1 10	170 63	3299 72	-10 36	-10.36	29 09	0 10	30 88	109 60
3400 00	1 39	166 19	3399 69	-12 49	-12 49	29 54	0 30	32 07	112 92
3500.00	1 58	163 52	3499 66	-14 99	-14 99	30 22	0 20	33 73	116 39
3600 00	1 94	162 08	3599 61	-17.93	-17 93	31 13	0.35	35 92	119 93
3700 00	2 14	162 44	3699 55	-21 31	-21 31	32 21	0 20	38.63	123 49
3800 00	2 43	162 40	3799 47	-25 11	-25.11	33 42	0 29	41 80	126 92



Survey Report

Well Name: GOODNIGHT 1 FEE #1H

Survey: FINAL INRUN

Survey Date: 2/16/2011

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
3900 00	2 51	163 03	3899 38	-29 22	-29 22	34 70	0 09	45 36	130 10
4000 00	2 64	164 29	3999 28	-33 53	-33 53	35 96	0 15	49 17	133.00
4100 00	2 76	167 78	4099 17	-38 10	-38 10	37 09	0 20	53 18	135 77
4200 00	2 88	167 77	4199 05	-42 91	-42 91	38.14	0 13	57 41	138 37
4300 00	2 81	170 37	4298.92	-47 79	-47 79	39.08	0 15	61 73	140 73
4400 00	2 75	174 58	4398 80	-52 60	-52 60	39 72	0 21	65 91	142 95
4500 00	2 82	177 26	4498 69	-57 45	-57 45	40 06	0 14	70 04	145 11
4600 00	2 72	181 73	4598 57	-62 28	-62 28	40 11	0 24	74 08	147 22
4700 00	2 42	183 95	4698 47	-66 76	-66 76	39.89	0 32	77.77	149 14
4800 00	1 97	188 04	4798 39	-70 56	-70 56	39 50	0 47	80 87	150 76
4900 00	1 73	189 27	4898 34	-73 75	-73 75	39 02	0 25	83 44	152 12
5000 00	1 80	187.42	4998 30	-76 79	-76 79	38 58	0.09	85 94	153 33
5100 00	1 85	190 76	5098 24	-79 93	-79 93	38 07	0 12	88 54	154 53
5200 00	1 85	189 37	5198 19	-83 12	-83 12	37 51	0 05	91 19	155 71
5300.00	1 89	191.69	5298 14	-86 33	-86 33	36.91	0 08	93 89	156 85
5400 00	2 18	187 38	5398.08	-89 84	-89 84	36 33	0 33	96 90	157 98
5500 00	2 20	192 15	5498 00	-93 61	-93 61	35 68	0.18	100 18	159 13
5600 00	2 91	191.07	5597 90	-97 97	-97 97	34 79	0 70	103 97	160 45
5700 00	3 70	189 85	5697 74	-103 64	-103 64	33 75	0 80	109 00	161.96
5800 00	4.74	185 81	5797 46	-110 93	-110 93	32.78	1 07	115 67	163.54
5900 00	4 77	183 75	5897 12	-119 19	-119.19	32 09	0 17	123 43	164 93
6000 00	4 40	182 32	5996 80	-127 17	-127 17	31 66	0 39	131 05	166 02
6100 00	4 03	183 03	6096 53	-134 51	-134.51	31 32	0 38	138 11	166 89
6200 00	3 70	179 26	6196 30	-141 24	-141 24	31 18	0 41	144 64	167 55
6300 00	2 74	178 25	6296 14	-146 86	-146 86	31 29	0 96	150 16	167 97
6400 00	2 07	174 64	6396.05	-151.05	-151 05	31 53	0.69	154.31	168 21
6500 00	1 59	171 48	6496 00	-154 22	-154.22	31 91	0 49	157 49	168 31
6600 00	1 38	173 72	6595 97	-156 79	-156 79	32 25	0 22	160 07	168 38
6700 00	1 06	186 91	6695.95	-158 90	-158 90	32 27	0 42	162 14	168 52
6800 00	0 74	212 27	6795 93	-160 37	-160 37	31 81	0 51	163 49	168 78
6900 00	0 56	214 74	6895 93	-161 32	-161 32	31 19	0 18	164 30	169 06
7000 00	0 55	220 37	6995 92	-162 08	-162.08	30.59	0 06	164 95	169 31
7100 00	0 59	240 11	7095 92	-162 71	-162 71	29 84	0 20	165 42	169.61
7200 00	0 79	275 06	7195 91	-162 90	-162 90	28 71	0 46	165 41	170 01
7300.00	1 01	281 78	7295.90	-162 66	-162 66	27 16	0.25	164 91	170 52
7400 00	1 51	294 40	7395 87	-161 94	-161 94	25.09	0 57	163 87	171 19
7500.00	1 93	296 03	7495.83	-160.65	-160 65	22 38	0.42	162 20	172.07
7600 00	2 77	284 62	7595 74	-159.30	-159 30	18 53	0 95	160 38	173.37



Survey Report

Well Name: GOODNIGHT 1 FEE #1H

Survey: FINAL INRUN

Survey Date: 2/16/2011

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
7700 00	2 51	301 98	7695 64	-157 53	-157 53	14.33	0 83	158 18	174 80
7800 00	2 75	305 13	7795 53	-154 99	-154 99	10 51	0 28	155 35	176 12
7900 00	2 43	308 30	7895 43	-152 29	-152 29	6 88	0 35	152 45	177 41
8000.00	2 57	319 64	7995 34	-149 27	-149.27	3 77	0 51	149 32	178 55
8100 00	2 31	338 91	8095 25	-145 68	-145 68	1 59	0 85	145 69	179 37
8135 00	2 71	344 10	8130 21	-144 23	-144 23	1 11	1 30	144 23	179 56

GYRO TXT FILE.txt

Gyroscopic Survey Report for:
DEVON ENERGY

Well Location: CHAVES COUNTY, NEW MEXICO
Well Name: GOODNIGHT 1 FEE #1H
Rig Name: MCVAY #10
Survey Date: 2/16/2011
Latitude: 33.31 deg
North Reference: Grid North
Grid Correction: -0.14 deg
Depth Reference: RKB
Calculation Method: Minimum Curvature
Section (VS) Ref: 0.00N (ft), 0.00E (ft), 0.00Azim (deg)
Definitive Survey: FINAL INRUN
Operator: LEO GARZA

Comments:
ZERO REFERENCE IS AT K.B. OF 19.5'.

Measured Depth [ft]	Inclination [deg]	Azimuth [deg]	True Vertical Depth
[ft]	Vertical Section [ft]	Northing (Latitude) [ft]	Easting (Departure)
[ft]	Dog Leg Severity [deg/100ft]	Closure Distance [ft]	Closure Angle [deg]
0.00	0.00	0.00	0.00
100.00	0.72	0.22	0.63
200.00	0.72	0.64	1.89
300.00	0.73	0.98	3.16
400.00	0.71	1.29	4.42
500.00	0.76	1.65	5.70
600.00	0.79	2.14	7.05
700.00	0.77	2.73	8.41
800.00	0.80	3.31	9.77
900.00	0.80	3.84	11.17
1000.00	0.82	4.28	12.58
1100.00	0.94	4.51	14.09
1200.00	0.96	4.60	15.69
1300.00	0.97	4.67	17.32
1400.00	0.93	4.68	18.92
1500.00	0.84	4.73	20.42
1600.00	0.76	4.85	21.81
1700.00	0.46	4.81	22.82
1800.00	0.33	4.61	23.42
1900.00	0.44	4.34	23.97
2000.00	0.36	3.99	24.50
2100.00	0.30	3.67	24.92
2200.00	0.40	3.36	25.40
2300.00	0.41	2.88	25.81
2400.00	0.31	2.35	26.08
2500.00	0.53	1.72	26.41
2600.00	0.64	0.78	26.76
2700.00	0.73	-0.35	27.12
2800.00	0.86	-1.67	27.58
2900.00	0.91	-3.16	28.12
3000.00	0.98	-4.77	28.71
3100.00	1.11	-6.56	29.39
3200.00	1.09	-8.46	30.08
3300.00	1.10	-10.36	30.88
3400.00	1.39	-12.49	32.07
3500.00	1.58	-14.99	33.73
3600.00	1.94	-17.93	35.92
3700.00	2.14	-21.31	38.63
3800.00	2.43	-25.11	41.80
3900.00	2.51	-29.22	45.36
4000.00	2.64	-33.53	49.17

GYRO TXT FILE.txt

4100.00	2.76	167.78	4099.17	-38.10	-38.10	37.09	0.20	53.18	135.77
4200.00	2.88	167.77	4199.05	-42.91	-42.91	38.14	0.13	57.41	138.37
4300.00	2.81	170.37	4298.92	-47.79	-47.79	39.08	0.15	61.73	140.73
4400.00	2.75	174.58	4398.80	-52.60	-52.60	39.72	0.21	65.91	142.95
4500.00	2.82	177.26	4498.69	-57.45	-57.45	40.06	0.14	70.04	145.11
4600.00	2.72	181.73	4598.57	-62.28	-62.28	40.11	0.24	74.08	147.22
4700.00	2.42	183.95	4698.47	-66.76	-66.76	39.89	0.32	77.77	149.14
4800.00	1.97	188.04	4798.39	-70.56	-70.56	39.50	0.47	80.87	150.76
4900.00	1.73	189.27	4898.34	-73.75	-73.75	39.02	0.25	83.44	152.12
5000.00	1.80	187.42	4998.30	-76.79	-76.79	38.58	0.09	85.94	153.33
5100.00	1.85	190.76	5098.24	-79.93	-79.93	38.07	0.12	88.54	154.53
5200.00	1.85	189.37	5198.19	-83.12	-83.12	37.51	0.05	91.19	155.71
5300.00	1.89	191.69	5298.14	-86.33	-86.33	36.91	0.08	93.89	156.85
5400.00	2.18	187.38	5398.08	-89.84	-89.84	36.33	0.33	96.90	157.98
5500.00	2.20	192.15	5498.00	-93.61	-93.61	35.68	0.18	100.18	159.13
5600.00	2.91	191.07	5597.90	-97.97	-97.97	34.79	0.70	103.97	160.45
5700.00	3.70	189.85	5697.74	-103.64	-103.64	33.75	0.80	109.00	161.96
5800.00	4.74	185.81	5797.46	-110.93	-110.93	32.78	1.07	115.67	163.54
5900.00	4.77	183.75	5897.12	-119.19	-119.19	32.09	0.17	123.43	164.93
6000.00	4.40	182.32	5996.80	-127.17	-127.17	31.66	0.39	131.05	166.02
6100.00	4.03	183.03	6096.53	-134.51	-134.51	31.32	0.38	138.11	166.89
6200.00	3.70	179.26	6196.30	-141.24	-141.24	31.18	0.41	144.64	167.55
6300.00	2.74	178.25	6296.14	-146.86	-146.86	31.29	0.96	150.16	167.97
6400.00	2.07	174.64	6396.05	-151.05	-151.05	31.53	0.69	154.31	168.21
6500.00	1.59	171.48	6496.00	-154.22	-154.22	31.91	0.49	157.49	168.31
6600.00	1.38	173.72	6595.97	-156.79	-156.79	32.25	0.22	160.07	168.38
6700.00	1.06	186.91	6695.95	-158.90	-158.90	32.27	0.42	162.14	168.52
6800.00	0.74	212.27	6795.93	-160.37	-160.37	31.81	0.51	163.49	168.78
6900.00	0.56	214.74	6895.93	-161.32	-161.32	31.19	0.18	164.30	169.06
7000.00	0.55	220.37	6995.92	-162.08	-162.08	30.59	0.06	164.95	169.31
7100.00	0.59	240.11	7095.92	-162.71	-162.71	29.84	0.20	165.42	169.61
7200.00	0.79	275.06	7195.91	-162.90	-162.90	28.71	0.46	165.41	170.01
7300.00	1.01	281.78	7295.90	-162.66	-162.66	27.16	0.25	164.91	170.52
7400.00	1.51	294.40	7395.87	-161.94	-161.94	25.09	0.57	163.87	171.19
7500.00	1.93	296.03	7495.83	-160.65	-160.65	22.38	0.42	162.20	172.07
7600.00	2.77	284.62	7595.74	-159.30	-159.30	18.53	0.95	160.38	173.37
7700.00	2.51	301.98	7695.64	-157.53	-157.53	14.33	0.83	158.18	174.80
7800.00	2.75	305.13	7795.53	-154.99	-154.99	10.51	0.28	155.35	176.12
7900.00	2.43	308.30	7895.43	-152.29	-152.29	6.88	0.35	152.45	177.41
8000.00	2.57	319.64	7995.34	-149.27	-149.27	3.77	0.51	149.32	178.55
8100.00	2.31	338.91	8095.25	-145.68	-145.68	1.59	0.85	145.69	179.37
8135.00	2.71	344.10	8130.21	-144.23	-144.23	1.11	1.30	144.23	179.56