



Company: Mewbourne Oil Company
Lease/Well: Bradley 28 Federal Com/1H
Location: Sec28, T18S, R30E
Rig Name: Patterson 46
State/County: New Mexico/Eddy
Latitude: 32.72
GRID North is 0.19 Degrees East of True North
VS-Azi: 0.00 Degrees

30-015-38228



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JUL 14 2011

NMOCD ARTESIA

Depth Reference : Ground Level

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: bradley28fedc-01_ed.ut
Minimum Curvature Method
Report Date/Time: 4/11/2011 / 14:02

Vaughn Energy Services
Fort Worth, Texas
817-741-3610
Surveyor: Daniel Lynch
Bradley 28 Federal Com 1H

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
100.00	0.06	155.07	100.00	-0.05	0.02	-0.05	0.05	155.07	0.06
200.00	0.25	117.80	200.00	-0.20	0.24	-0.20	0.31	130.09	0.20
300.00	0.26	91.22	300.00	-0.30	0.65	-0.30	0.72	114.97	0.12
400.00	0.52	102.75	400.00	-0.41	1.32	-0.41	1.38	107.20	0.27
500.00	0.55	102.42	499.99	-0.61	2.23	-0.61	2.31	105.34	0.03
600.00	0.53	120.42	599.99	-0.95	3.09	-0.95	3.24	107.02	0.17
700.00	0.45	94.22	699.98	-1.21	3.88	-1.21	4.06	107.29	0.23
800.00	0.44	99.31	799.98	-1.30	4.65	-1.30	4.83	105.60	0.04
900.00	0.55	97.92	899.98	-1.43	5.51	-1.43	5.69	104.53	0.12
1000.00	0.53	99.62	999.97	-1.57	6.44	-1.57	6.63	103.71	0.03
1100.00	0.84	105.35	1099.97	-1.84	7.60	-1.84	7.82	103.62	0.32
1200.00	0.62	103.38	1199.96	-2.16	8.84	-2.16	9.10	103.75	0.22
1300.00	1.23	93.30	1299.94	-2.35	10.44	-2.35	10.70	102.68	0.63
1400.00	1.04	51.63	1399.93	-1.85	12.22	-1.85	12.36	98.60	0.83
1500.00	1.04	70.86	1499.91	-0.99	13.78	-0.99	13.82	94.11	0.35
1600.00	0.43	52.24	1599.90	-0.46	14.94	-0.46	14.94	91.77	0.64
1700.00	0.58	17.35	1699.90	0.25	15.38	0.25	15.38	89.08	0.33
1800.00	0.46	356.20	1799.89	1.13	15.51	1.13	15.55	85.85	0.22
1900.00	0.22	1.62	1899.89	1.72	15.49	1.72	15.58	83.65	0.24
2000.00	0.28	268.46	1999.89	1.91	15.24	1.91	15.36	82.85	0.37

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
2100.00	0.43	276.16	2099.89	1.94	14.62	1.94	14.75	82.42	0.16
2200.00	0.53	286.51	2199.89	2.12	13.80	2.12	13.96	81.28	0.13
2300.00	0.59	285.57	2299.88	2.39	12.86	2.39	13.08	79.49	0.06
2400.00	0.55	282.22	2399.88	2.63	11.90	2.63	12.18	77.55	0.05
2500.00	0.62	275.47	2499.87	2.78	10.89	2.78	11.24	75.68	0.09
2600.00	0.62	284.29	2599.86	2.96	9.83	2.96	10.27	73.23	0.09
2700.00	0.65	298.64	2699.86	3.37	8.81	3.37	9.44	69.09	0.16
2800.00	0.64	286.76	2799.85	3.80	7.78	3.80	8.66	63.95	0.13
2900.00	0.78	291.01	2899.84	4.21	6.61	4.21	7.83	57.53	0.15
3000.00	1.08	294.51	2999.83	4.84	5.12	4.84	7.05	46.60	0.31
3100.00	0.86	309.70	3099.82	5.71	3.68	5.71	6.80	32.80	0.33
3200.00	1.06	312.33	3199.80	6.82	2.42	6.82	7.23	19.53	0.20
3300.00	1.17	311.55	3299.78	8.12	0.97	8.12	8.18	6.81	0.11
3400.00	1.13	315.31	3399.76	9.49	-0.49	9.49	9.51	357.07	0.09
3500.00	1.20	320.27	3499.74	11.00	-1.85	11.00	11.15	350.47	0.12
3600.00	1.01	326.37	3599.73	12.53	-3.00	12.53	12.89	346.53	0.23
3700.00	1.51	341.59	3699.70	14.51	-3.90	14.51	15.03	344.95	0.60
3800.00	1.42	356.31	3799.67	17.00	-4.40	17.00	17.56	345.49	0.38
3900.00	1.42	325.46	3899.64	19.25	-5.18	19.25	19.94	344.95	0.75
4000.00	1.49	321.64	3999.61	21.29	-6.68	21.29	22.31	342.57	0.12
4100.00	1.59	333.76	4099.57	23.55	-8.10	23.55	24.90	341.02	0.34
4200.00	2.09	340.61	4199.52	26.51	-9.32	26.51	28.10	340.64	0.55
4300.00	2.13	359.83	4299.45	30.09	-9.93	30.09	31.69	341.74	0.71
4400.00	2.02	356.65	4399.39	33.71	-10.04	33.71	35.17	343.42	0.16
4500.00	1.80	339.83	4499.33	36.94	-10.68	36.94	38.46	343.87	0.60
4600.00	1.64	324.79	4599.29	39.58	-12.05	39.58	41.38	343.07	0.48
4700.00	1.66	305.59	4699.25	41.59	-14.05	41.59	43.90	341.34	0.55
4800.00	1.62	325.79	4799.21	43.61	-16.02	43.61	46.46	339.82	0.58
4900.00	1.63	338.56	4899.17	46.11	-17.34	46.11	49.26	339.39	0.36
5000.00	1.62	351.26	4999.13	48.83	-18.08	48.83	52.07	339.68	0.36
5100.00	1.80	357.40	5099.08	51.79	-18.36	51.79	54.95	340.48	0.26
5200.00	1.87	1.56	5199.03	54.99	-18.39	54.99	57.98	341.51	0.15
5300.00	2.03	2.13	5298.97	58.39	-18.28	58.39	61.18	342.62	0.16
5400.00	1.69	10.91	5398.92	61.61	-17.93	61.61	64.16	343.77	0.44
5500.00	1.42	352.18	5498.89	64.28	-17.82	64.28	66.71	344.50	0.57
5600.00	1.36	358.94	5598.86	66.69	-18.01	66.69	69.08	344.89	0.17
5700.00	1.41	319.25	5698.83	68.81	-18.84	68.81	71.34	344.69	0.94
5800.00	2.06	310.75	5798.78	70.92	-21.01	70.92	73.96	343.50	0.69
5900.00	2.66	291.46	5898.70	72.94	-24.53	72.94	76.95	341.41	0.99
6000.00	2.77	307.80	5998.59	75.27	-28.60	75.27	80.52	339.19	0.78
6100.00	2.75	297.62	6098.47	77.86	-32.64	77.86	84.43	337.26	0.49
6200.00	3.12	308.92	6198.34	80.69	-36.88	80.69	88.72	335.43	0.68

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N-S FT	+E-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
6300.00	3.16	318.12	6298.19	84.45	-40.84	84.45	93.80	334.19	0.51
6400.00	2.66	329.87	6398.06	88.51	-43.85	88.51	98.77	333.65	0.78
6500.00	2.34	322.40	6497.97	92.13	-46.26	92.13	103.09	333.34	0.46
6600.00	1.57	339.80	6597.91	95.04	-47.97	95.04	106.46	333.21	0.97
6700.00	1.62	353.13	6697.87	97.72	-48.62	97.72	109.15	333.55	0.37
6800.00	1.55	358.98	6797.83	100.48	-48.81	100.48	111.71	334.09	0.18
6900.00	1.56	357.59	6897.80	103.19	-48.89	103.19	114.19	334.65	0.04
7000.00	1.29	358.14	6997.77	105.67	-48.98	105.67	116.47	335.13	0.27
7100.00	0.88	3.87	7097.75	107.55	-48.97	107.55	118.18	335.52	0.42
7200.00	0.91	5.92	7197.74	109.11	-48.83	109.11	119.54	335.89	0.05
7300.00	0.56	21.38	7297.73	110.36	-48.58	110.36	120.57	336.24	0.41
7400.00	0.31	305.95	7397.73	110.97	-48.62	110.97	121.15	336.34	0.57
7500.00	0.27	12.98	7497.72	111.36	-48.79	111.36	121.58	336.34	0.32



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