



Company: Mewbourne Oil Company

Lease/Well: Bradley 30 FED/#1H

Location: Sec 29 - T18S - R30E

Rig Name: Patterson #45

State/County: New Mexico/Eddy

Latitude: 32.72

GRID North is 0.18 Degrees East of True North

VS-Azi: 231.75 Degrees



Depth Reference : RKB = 17 Feet

30-015-38457

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: bradley30fed#1h_ed.ut

Minimum Curvature Method

Report Date/Time: 10/11/2011 / 08:31

Vaughn Energy Services

Fort Worth, Texas

817-741-3610

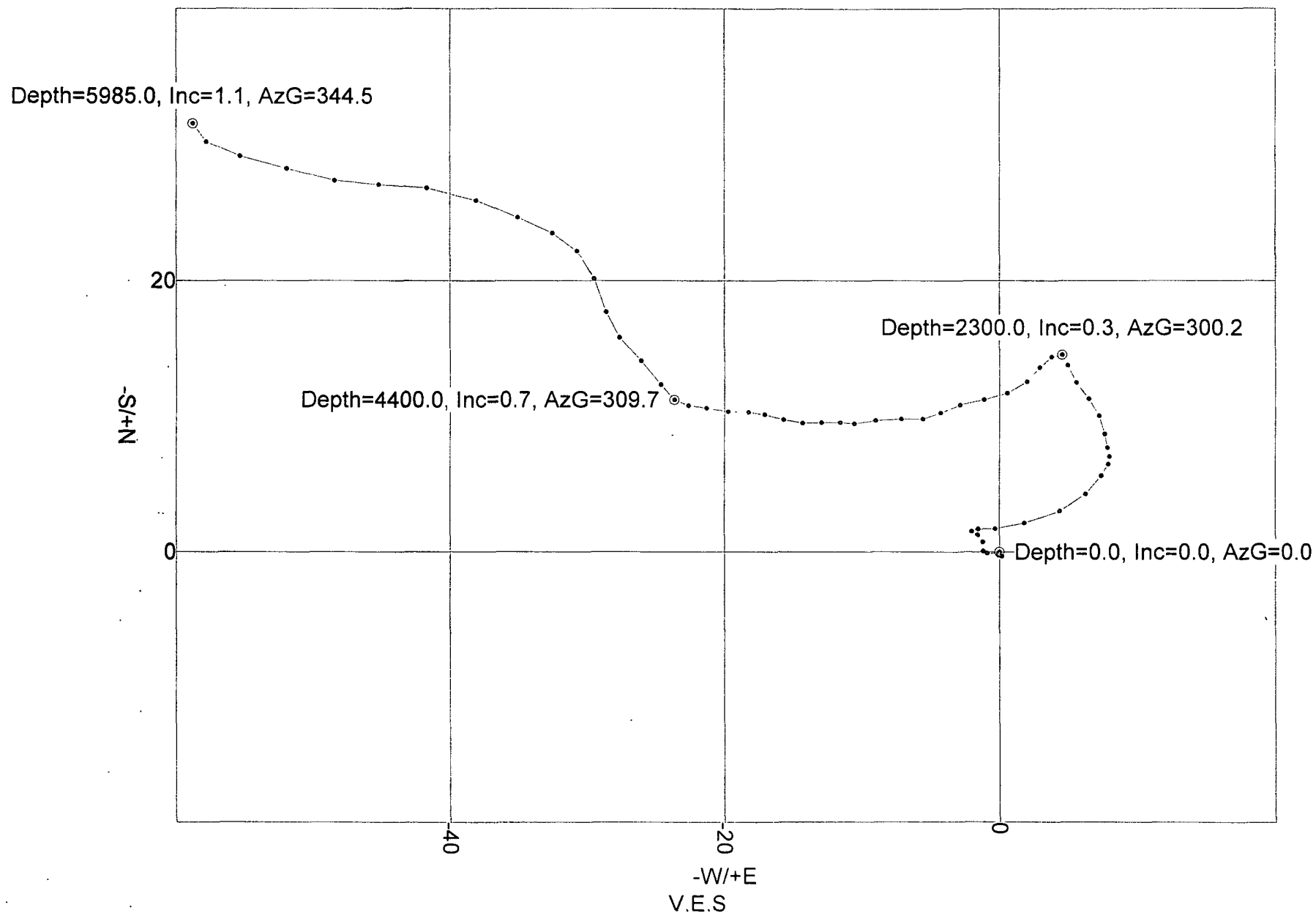
Surveyor: Ray Seago

Bradley 30 FED #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	0.29	196.32	100.00	-0.24	-0.07	0.21	0.25	196.32	0.29
200.00	0.40	62.38	200.00	-0.32	0.17	0.06	0.36	151.92	0.64
300.00	0.63	275.99	300.00	-0.10	-0.06	0.11	0.12	212.48	0.99
400.00	0.34	260.96	399.99	-0.09	-0.90	0.76	0.90	264.40	0.32
500.00	0.23	1.79	499.99	0.07	-1.18	0.89	1.19	273.24	0.44
600.00	0.53	354.75	599.99	0.73	-1.22	0.51	1.42	300.87	0.30
700.00	0.36	279.36	699.99	1.24	-1.57	0.47	2.00	308.30	0.56
800.00	0.29	331.38	799.99	1.51	-2.00	0.64	2.51	307.06	0.29
900.00	0.68	94.92	899.98	1.68	-1.53	0.16	2.27	317.66	0.87
1000.00	0.75	83.33	999.98	1.70	-0.29	-0.83	1.73	350.34	0.16
1100.00	1.71	76.64	1099.95	2.12	1.81	-2.74	2.79	40.47	0.97
1200.00	1.42	65.15	1199.92	2.99	4.39	-5.30	5.31	55.73	0.43
1300.00	1.22	46.56	1299.89	4.24	6.28	-7.56	7.58	55.99	0.47
1400.00	0.81	30.18	1399.87	5.58	7.41	-9.27	9.27	53.01	0.50
1500.00	0.33	33.83	1499.87	6.43	7.92	-10.20	10.20	50.94	0.48
1600.00	0.38	344.36	1599.87	6.99	7.99	-10.61	10.62	48.83	0.30
1700.00	0.39	351.20	1699.86	7.65	7.85	-10.90	10.96	45.76	0.05
1800.00	0.79	348.14	1799.86	8.66	7.66	-11.37	11.56	41.51	0.40

measured Depth FT	inci 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
1900.00	0.85	338.33	1899.85	10.02	7.24	-11.89	12.36	35.88	0.15
2000.00	0.83	319.79	1999.84	11.26	6.50	-12.08	13.00	30.00	0.27
2100.00	0.90	325.48	2099.83	12.47	5.58	-12.10	13.66	24.13	0.11
2200.00	0.75	345.16	2199.82	13.75	4.97	-12.42	14.62	19.88	0.32
2300.00	0.33	300.20	2299.81	14.53	4.55	-12.57	15.23	17.41	0.57
2400.00	0.72	240.04	2399.81	14.36	3.77	-11.85	14.85	14.69	0.62
2500.00	0.64	213.65	2499.80	13.58	2.91	-10.70	13.89	12.10	0.32
2600.00	0.98	226.59	2599.79	12.53	1.98	-9.31	12.68	8.99	0.38
2700.00	0.95	251.73	2699.78	11.68	0.57	-7.68	11.69	2.80	0.42
2800.00	1.06	256.84	2799.76	11.21	-1.12	-6.06	11.26	354.30	0.14
2900.00	0.99	257.31	2899.75	10.81	-2.86	-4.44	11.18	345.15	0.07
3000.00	0.80	235.31	2999.73	10.22	-4.28	-2.97	11.08	337.28	0.39
3100.00	0.83	266.40	3099.72	9.78	-5.58	-1.67	11.26	330.30	0.44
3200.00	0.95	272.60	3199.71	9.77	-7.13	-0.45	12.10	323.87	0.15
3300.00	1.18	261.78	3299.70	9.66	-8.99	1.08	13.19	317.07	0.31
3400.00	0.61	261.83	3399.68	9.44	-10.54	2.43	14.14	311.85	0.58
3500.00	0.59	287.34	3499.68	9.52	-11.56	3.18	14.97	309.47	0.27
3600.00	1.01	259.58	3599.67	9.51	-12.92	4.26	16.04	306.37	0.56
3700.00	0.60	284.22	3699.66	9.48	-14.29	5.35	17.15	303.56	0.53
3800.00	1.01	277.40	3799.65	9.72	-15.67	6.29	18.44	301.81	0.42
3900.00	0.66	297.35	3899.64	10.10	-17.06	7.14	19.82	300.63	0.45
4000.00	0.77	262.38	3999.63	10.27	-18.24	7.96	20.93	299.40	0.44
4100.00	0.96	278.39	4099.62	10.31	-19.73	9.12	22.26	297.58	0.31
4200.00	0.90	281.77	4199.61	10.59	-21.34	10.20	23.82	296.40	0.08
4300.00	0.63	272.27	4299.60	10.77	-22.66	11.12	25.09	295.43	0.30
4400.00	0.71	309.66	4399.59	11.19	-23.68	11.67	26.19	295.29	0.44
4500.00	1.03	325.39	4499.58	12.32	-24.67	11.74	27.57	296.55	0.40
4600.00	1.56	318.07	4599.55	14.08	-26.09	11.77	29.64	298.35	0.56
4700.00	1.11	317.31	4699.53	15.80	-27.66	11.93	31.85	299.74	0.45
4800.00	1.38	345.09	4799.50	17.68	-28.62	11.53	33.64	301.71	0.65
4900.00	1.63	336.43	4899.47	20.15	-29.50	10.69	35.72	304.33	0.33
5000.00	1.15	318.96	4999.44	22.20	-30.73	10.38	37.91	305.85	0.63
5100.00	1.45	296.74	5099.41	23.53	-32.51	10.97	40.13	305.89	0.58
5200.00	1.72	292.72	5199.38	24.68	-35.02	12.23	42.84	305.17	0.29
5300.00	2.09	291.30	5299.32	25.92	-38.10	13.88	46.08	304.22	0.37
5400.00	2.27	277.54	5399.25	26.84	-41.76	16.18	49.64	302.73	0.55
5500.00	1.80	269.12	5499.19	27.07	-45.29	18.80	52.76	300.87	0.56
5600.00	1.97	280.93	5599.13	27.38	-48.54	21.17	55.73	299.42	0.43
5700.00	2.15	286.57	5699.07	28.24	-52.03	23.38	59.20	298.49	0.27

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
5800.00	1.83	283.57	5799.01	29.15	-55.39	25.45	62.59	297.76	0.34
5900.00	1.27	306.61	5898.97	30.18	-57.83	26.73	65.24	297.56	0.83
5985.00	1.10	344.52	5983.95	31.53	-58.81	26.66	66.73	298.20	0.93





Mewbourne Oil Company

Location: Eddy County, NM
Field: (Bradley) Sec 29, T18S, R30E
Facility: Bradley 30 Fed Com No. 1H

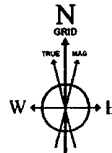
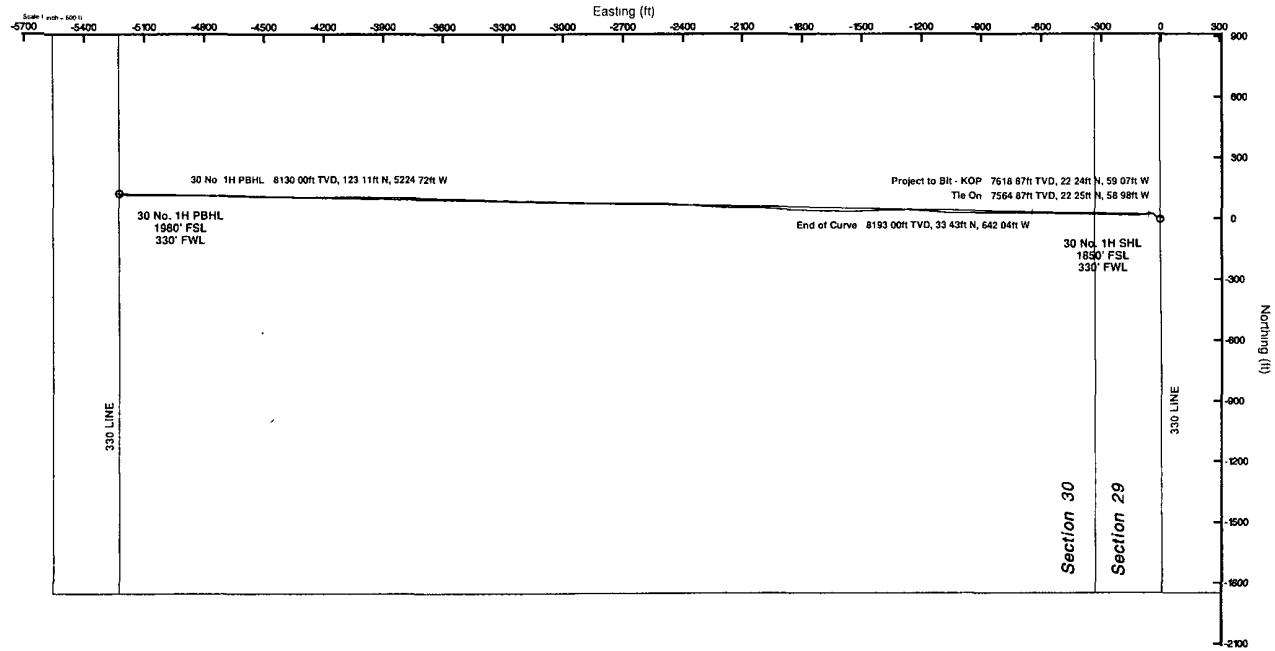
Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB



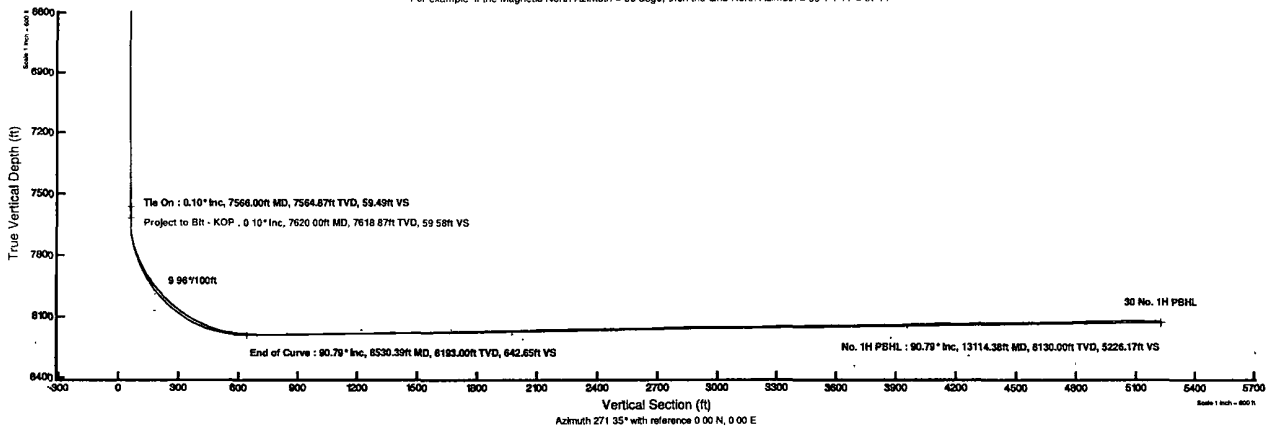
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7566.00	0.100	259.200	7564.87	22.25	-58.98	0.00	59.49
Project to Bit - KOP	7620.00	0.100	259.200	7618.87	22.24	-59.07	0.00	59.58
End of Curve	8530.39	90.788	271.121	8193.00	33.43	-642.04	9.96	642.65
No. 1H PBHL	13114.38	90.788	271.121	8130.00	123.11	-5224.72	0.00	5226.17

Post reference wellpath is Plan 1	
True vertical depths are referenced to Rig on No. 1H SHL (KB)	Grid System: NAD27 / 141 New Mexico SP, Eastern Zone (2001), US feet
Measured depths are referenced to Rig on No. 1H SHL (KB)	North Reference: Grid north
Rig on No. 1H SHL (KB) to Mean Sea Level: 3442 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No. 1H SHL): 3424 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: catphk on 10/3/2011



BGGM (1945.0 to 2011.0) Dip: 60.60° Field: 49007 nT
Magnetic North is 7.95 degrees East of True North (at 9/15/2010)
Grid North is 0.18 degrees East of True North
To correct azimuth from True to Grid subtract 0.18 degrees
To correct azimuth from Magnetic to Grid add 7.77 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.77 = 97.77



30-215-38451