



Company: Mewbourne Oil Company
Lease/Well: Bradley 29 Federal Com/No. 003H
Location: S29, T18s, R30e
Rig Name: Patterson #47
State/County: New Mexico/Eddy
Latitude: 32.72
GRID North is 0.19 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB= 18'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: bradley 29 fed com #3h_ed.ut

Minimum Curvature Method

Report Date/Time: 5/23/2012 / 08:36

Vaughn Energy Services

Gardendale, Texas

432-563-5444

Surveyor: Seth Hardin

Bradley 29 Federal Com No. 003H / API 30-015-38336

30-015-38336

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	0.68	330.24	100.00	0.51	-0.29	0.51	0.59	330.24	0.68
200.00	0.77	332.46	199.99	1.62	-0.90	1.62	1.86	331.05	0.10
300.00	0.55	324.31	299.98	2.61	-1.49	2.61	3.01	330.28	0.24
400.00	0.52	313.86	399.98	3.32	-2.10	3.32	3.93	327.69	0.10
500.00	0.65	303.84	499.97	3.95	-2.89	3.95	4.89	323.75	0.17
600.00	0.68	292.54	599.97	4.49	-3.91	4.49	5.96	318.93	0.13
700.00	0.49	329.24	699.96	5.09	-4.68	5.09	6.91	317.38	0.41
800.00	0.65	294.86	799.96	5.69	-5.41	5.69	7.85	316.45	0.37
900.00	0.76	290.55	899.95	6.16	-6.55	6.16	8.99	313.27	0.13
1000.00	0.60	296.05	999.94	6.63	-7.64	6.63	10.11	310.93	0.17
1100.00	0.48	10.65	1099.94	7.27	-8.04	7.27	10.84	312.15	0.67
1200.00	1.21	50.67	1199.93	8.36	-7.14	8.36	10.99	319.49	0.90
1300.00	1.28	38.49	1299.90	9.90	-5.63	9.90	11.39	330.38	0.27
1400.00	0.90	42.66	1399.89	11.35	-4.40	11.35	12.17	338.80	0.39
1500.00	0.65	43.29	1499.88	12.34	-3.48	12.34	12.82	344.24	0.25
1600.00	0.60	40.83	1599.87	13.15	-2.75	13.15	13.43	348.17	0.06
1700.00	0.62	34.41	1699.87	13.99	-2.10	13.99	14.15	351.45	0.07
1800.00	0.65	30.06	1799.86	14.93	-1.51	14.93	15.01	354.21	0.05



Job Number: S12-060
Company: Mewbourne Oil Company
Lease/Well: Bradley 29 Federal Com #3H
Location: NM-East
Rig Name: Patterson #47
State/Country: New Mexico/ Eddy
Country: United States of America
API Number: 30-015-38336

Elevation (To MSL): 0.00 ft
RKB: 0.00 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: New Mexico East 3001
Projection Datum: CLARKE 1866
Magnetic Declination: 7.72
Grid Convergence: 0.18780 E
Date: Thursday, June 14, 2012

Calculated by HawkEye Software
Minimum Curvature Method
Vertical Section Plane 273.55°
Northing (US ft): 624729.75 Easting (US ft): 606861.52
Latitude: 32°43'1.1907" N Longitude: -103°59'9.1784" W
Well Location: 2140.03 FSL, 256.43 FEL, Section 29, T18S, R30E, Meridian 23, Eddy County, NM
Direction Reference: Grid North

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	Latitude DMS	Longitude DMS	Build Rate "/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS "/100Ft
TI: 7608 MD, 0.60°														
7608.00	0.60	157.79	7607.20	69.39	0.92	624799.14	606862.44	32°43'1.8773" N	-103°59'9.1650" W	0.00	3.38	69.40	0.76	0.00
7729.00	2.10	260.80	7728.17	68.45	-1.03	624798.20	606860.49	32°43'1.8680" N	-103°59'9.1878" W	1.24	5.27	68.46	359.14	1.91
7760.00	6.90	264.20	7759.07	68.17	-3.44	624797.92	606858.08	32°43'1.8653" N	-103°59'9.2161" W	15.48	7.66	68.26	357.11	15.50
7792.00	12.40	266.80	7790.60	67.78	-8.79	624797.53	606852.73	32°43'1.8617" N	-103°59'9.2787" W	17.19	12.97	68.35	352.61	17.24
7823.00	16.10	267.00	7820.64	67.37	-16.41	624797.12	606845.11	32°43'1.8579" N	-103°59'9.3679" W	11.94	20.55	69.34	346.31	11.94
7855.00	18.60	266.50	7851.19	66.83	-25.94	624796.58	606835.58	32°43'1.8528" N	-103°59'9.4794" W	7.81	30.02	71.68	338.79	7.83
7887.00	20.70	264.50	7881.32	65.97	-36.66	624795.72	606824.86	32°43'1.8447" N	-103°59'9.6050" W	6.56	40.67	75.48	330.94	6.89
7918.00	23.90	262.60	7910.00	64.64	-48.34	624794.39	606813.18	32°43'1.8319" N	-103°59'9.7418" W	10.32	52.25	80.72	323.21	10.58
7949.00	26.70	260.80	7938.02	62.72	-61.45	624792.47	606800.07	32°43'1.8133" N	-103°59'9.8953" W	9.03	65.21	87.80	315.59	9.37
7981.00	29.40	261.00	7966.26	60.34	-76.31	624790.09	606785.21	32°43'1.7902" N	-103°59'10.0693" W	8.44	79.90	97.28	308.34	8.44
8013.00	32.30	261.70	7993.73	57.88	-92.53	624787.63	606768.99	32°43'1.7664" N	-103°59'10.2592" W	9.06	95.93	109.14	302.03	9.13
8044.00	35.60	262.90	8019.44	55.56	-109.68	624785.31	606751.84	32°43'1.7440" N	-103°59'10.4601" W	10.65	112.91	122.95	296.87	10.86
8076.00	38.50	263.60	8044.98	53.30	-128.83	624783.05	606732.69	32°43'1.7223" N	-103°59'10.6843" W	9.06	131.88	139.42	292.48	9.16
8107.00	41.20	264.90	8068.78	51.32	-148.59	624781.07	606712.93	32°43'1.7033" N	-103°59'10.9157" W	8.71	151.48	157.20	289.05	9.11
8139.00	44.80	266.30	8092.18	49.65	-170.34	624779.40	606691.18	32°43'1.6875" N	-103°59'11.1704" W	11.25	173.09	177.43	286.25	11.64
8171.00	49.00	266.10	8114.04	48.10	-193.65	624777.85	606667.87	32°43'1.6729" N	-103°59'11.4433" W	13.13	196.26	199.54	283.95	13.13
8202.00	54.10	266.10	8133.31	46.45	-217.87	624776.20	606643.65	32°43'1.6574" N	-103°59'11.7267" W	16.45	220.33	222.76	282.04	16.45
8234.00	57.80	266.50	8151.22	44.74	-244.32	624774.49	606617.20	32°43'1.6413" N	-103°59'12.0364" W	11.56	246.62	248.38	280.38	11.61
8266.00	62.70	266.50	8167.10	43.05	-272.04	624772.80	606589.48	32°43'1.6255" N	-103°59'12.3610" W	15.31	274.19	275.43	278.99	15.31
8298.00	68.30	266.30	8180.36	41.22	-301.09	624770.97	606560.43	32°43'1.6083" N	-103°59'12.7011" W	17.50	303.07	303.90	277.80	17.51
8329.00	74.00	265.80	8190.37	39.20	-330.35	624768.95	606531.17	32°43'1.5892" N	-103°59'13.0436" W	18.39	332.14	332.67	276.77	18.45
8361.00	78.10	265.80	8198.09	36.92	-361.31	624766.67	606500.21	32°43'1.5677" N	-103°59'13.4061" W	12.81	362.91	363.20	275.84	12.81
8393.00	81.30	266.30	8203.81	34.76	-392.72	624764.51	606468.80	32°43'1.5473" N	-103°59'13.7738" W	10.00	394.12	394.25	275.06	10.12
8425.00	83.70	267.20	8207.98	32.96	-424.39	624762.71	606437.13	32°43'1.5305" N	-103°59'14.1446" W	7.50	425.62	425.67	274.44	8.00
8456.00	84.50	269.30	8211.17	32.02	-455.21	624761.77	606406.31	32°43'1.5222" N	-103°59'14.5054" W	2.58	456.32	456.34	274.02	7.22
8475.00	85.90	269.80	8212.76	31.87	-474.14	624761.62	606387.38	32°43'1.5214" N	-103°59'14.7270" W	7.37	475.21	475.21	273.85	7.82

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	Latitude DMS	Longitude DMS	Build Rate "/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS "/100Ft
8553.00	92.90	266.50	8213.58	29.35	-552.04	624759.10	606309.48	32°43'1.4990" N	-103°59'15.6388" W	8.97	552.80	552.82	273.04	9.92
8585.00	92.60	265.80	8212.04	27.21	-583.93	624756.96	606277.59	32°43'1.4787" N	-103°59'16.0122" W	-0.94	584.49	584.56	272.67	2.38
8616.00	91.20	268.00	8211.01	25.53	-614.87	624755.28	606246.65	32°43'1.4632" N	-103°59'16.3744" W	-4.52	615.27	615.39	272.38	8.41
8647.00	91.40	270.50	8210.31	25.12	-645.85	624754.87	606215.67	32°43'1.4602" N	-103°59'16.7371" W	0.65	646.17	646.34	272.23	8.09
8679.00	91.30	270.50	8209.56	25.40	-677.84	624755.15	606183.68	32°43'1.4639" N	-103°59'17.1115" W	-0.31	678.11	678.32	272.15	0.31
8711.00	90.00	272.80	8209.19	26.32	-709.82	624756.07	606151.70	32°43'1.4741" N	-103°59'17.4858" W	-4.06	710.09	710.31	272.12	8.26
8742.00	89.60	274.40	8209.30	28.27	-740.76	624758.02	606120.76	32°43'1.4944" N	-103°59'17.8479" W	-1.29	741.09	741.30	272.19	5.32
8774.00	89.40	274.50	8209.58	30.75	-772.66	624760.50	606088.86	32°43'1.5199" N	-103°59'18.2212" W	-0.62	773.09	773.28	272.28	0.70
8806.00	89.40	274.50	8209.92	33.26	-804.56	624763.01	606056.96	32°43'1.5458" N	-103°59'18.5945" W	0.00	805.08	805.25	272.37	0.00
8838.00	89.30	274.40	8210.28	35.75	-836.46	624765.50	606025.06	32°43'1.5714" N	-103°59'18.9678" W	-0.31	837.07	837.23	272.45	0.44
8870.00	88.70	273.80	8210.84	38.03	-868.38	624767.78	605993.14	32°43'1.5951" N	-103°59'19.3412" W	-1.87	869.07	869.21	272.51	2.65
8901.00	89.70	273.80	8211.27	40.09	-899.31	624769.84	605962.21	32°43'1.6164" N	-103°59'19.7032" W	3.23	900.06	900.20	272.55	3.23
8933.00	89.60	274.20	8211.47	42.32	-931.23	624772.07	605930.29	32°43'1.6395" N	-103°59'20.0767" W	-0.31	932.06	932.19	272.60	1.29
8965.00	90.90	274.40	8211.33	44.72	-963.14	624774.47	605898.38	32°43'1.6643" N	-103°59'20.4501" W	4.06	964.06	964.17	272.66	4.11
8997.00	91.00	274.20	8210.80	47.12	-995.04	624776.87	605866.48	32°43'1.6890" N	-103°59'20.8235" W	0.31	996.05	996.16	272.71	0.70
9029.00	91.30	274.40	8210.15	49.52	-1026.95	624779.27	605834.57	32°43'1.7138" N	-103°59'21.1968" W	0.94	1028.04	1028.14	272.76	1.13
9093.00	91.00	273.30	8208.87	53.81	-1090.79	624783.56	605770.73	32°43'1.7584" N	-103°59'21.9439" W	-0.47	1092.03	1092.11	272.82	1.78
9156.00	90.30	272.80	8208.15	57.17	-1153.69	624786.92	605707.83	32°43'1.7936" N	-103°59'22.6801" W	-1.11	1155.02	1155.11	272.84	1.37
9219.00	90.80	273.50	8207.55	60.63	-1216.59	624790.38	605644.93	32°43'1.8298" N	-103°59'23.4162" W	0.79	1218.01	1218.10	272.85	1.37
9283.00	90.70	273.50	8206.71	64.53	-1280.47	624794.28	605581.05	32°43'1.8705" N	-103°59'24.1637" W	-0.16	1282.01	1282.09	272.89	0.16
9347.00	91.00	275.60	8205.76	69.61	-1344.26	624799.36	605517.26	32°43'1.9228" N	-103°59'24.9102" W	0.47	1345.99	1346.06	272.96	3.31
9410.00	91.00	275.40	8204.66	75.65	-1406.96	624805.40	605454.56	32°43'1.9846" N	-103°59'25.6438" W	0.00	1408.94	1408.99	273.08	0.32
9473.00	90.90	274.70	8203.62	81.19	-1469.70	624810.94	605391.82	32°43'2.0414" N	-103°59'26.3781" W	-0.16	1471.91	1471.95	273.16	1.12
9536.00	90.40	274.00	8202.90	85.97	-1532.52	624815.72	605329.00	32°43'2.0907" N	-103°59'27.1131" W	-0.79	1534.90	1534.93	273.21	1.37
9600.00	90.70	273.80	8202.29	90.32	-1596.37	624820.07	605265.15	32°43'2.1358" N	-103°59'27.8603" W	0.47	1598.90	1598.92	273.24	0.56
9664.00	90.90	273.50	8201.40	94.40	-1660.23	624824.15	605201.29	32°43'2.1782" N	-103°59'28.6077" W	0.31	1662.89	1662.91	273.25	0.56
9727.00	90.40	274.50	8200.68	98.79	-1723.07	624828.54	605138.45	32°43'2.2237" N	-103°59'29.3430" W	-0.79	1725.88	1725.90	273.28	1.77
9791.00	90.60	274.90	8200.12	104.04	-1786.85	624833.79	605074.67	32°43'2.2776" N	-103°59'30.0894" W	0.31	1789.87	1789.88	273.33	0.70
9853.00	90.30	274.50	8199.64	109.12	-1848.64	624838.87	605012.88	32°43'2.3298" N	-103°59'30.8125" W	-0.48	1851.85	1851.86	273.38	0.81
9916.00	90.50	274.50	8199.20	114.06	-1911.45	624843.81	604950.07	32°43'2.3808" N	-103°59'31.5474" W	0.32	1914.84	1914.85	273.41	0.32
9980.00	90.20	274.20	8198.80	118.91	-1975.26	624848.66	604886.26	32°43'2.4308" N	-103°59'32.2942" W	-0.47	1978.83	1978.84	273.45	0.66
10044.00	90.60	274.20	8198.36	123.60	-2039.09	624853.35	604822.43	32°43'2.4792" N	-103°59'33.0411" W	0.62	2042.83	2042.83	273.47	0.62
10107.00	91.10	273.50	8197.42	127.83	-2101.94	624857.58	604759.58	32°43'2.5231" N	-103°59'33.7766" W	0.79	2105.82	2105.82	273.48	1.37
10171.00	90.60	274.70	8196.47	132.41	-2165.77	624862.16	604695.75	32°43'2.5704" N	-103°59'34.5235" W	-0.78	2169.81	2169.81	273.50	2.03
10235.00	91.10	274.70	8195.52	137.65	-2229.54	624867.40	604631.98	32°43'2.6243" N	-103°59'35.2698" W	0.78	2233.79	2233.79	273.53	0.78
10299.00	89.60	274.20	8195.13	142.61	-2293.35	624872.36	604568.17	32°43'2.6755" N	-103°59'36.0164" W	-2.34	2297.78	2297.78	273.56	2.47
10362.00	89.70	274.20	8195.52	147.23	-2356.18	624876.98	604505.34	32°43'2.7231" N	-103°59'36.7517" W	0.16	2360.77	2360.77	273.58	0.16
10425.00	88.50	274.40	8196.51	151.95	-2418.99	624881.70	604442.53	32°43'2.7718" N	-103°59'37.4867" W	-1.90	2423.76	2423.76	273.59	1.93
10489.00	89.30	273.70	8197.74	156.47	-2482.82	624886.22	604378.70	32°43'2.8186" N	-103°59'38.2337" W	1.25	2487.74	2487.74	273.61	1.66
10553.00	90.70	273.50	8197.74	160.49	-2546.69	624890.24	604314.83	32°43'2.8604" N	-103°59'38.9811" W	2.19	2551.74	2551.74	273.61	2.21
10615.00	91.20	273.70	8196.71	164.38	-2608.56	624894.13	604252.96	32°43'2.9008" N	-103°59'39.7052" W	0.81	2613.73	2613.73	273.61	0.87

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	Latitude DMS	Longitude DMS	Build Rate "/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS "/100Ft
10679.00	90.80	273.10	8195.59	168.18	-2672.44	624897.93	604189.08	32°43'2.9404" N	-103°59'40.4527" W	-0.63	2677.72	2677.72	273.60	1.13
10742.00	91.70	273.00	8194.22	171.53	-2735.33	624901.28	604126.19	32°43'2.9756" N	-103°59'41.1888" W	1.43	2740.70	2740.71	273.59	1.44
10805.00	91.10	273.50	8192.68	175.10	-2798.21	624904.85	604063.31	32°43'3.0129" N	-103°59'41.9246" W	-0.95	2803.68	2803.68	273.58	1.24
10868.00	91.50	273.70	8191.25	179.05	-2861.07	624908.80	604000.45	32°43'3.0540" N	-103°59'42.6603" W	0.63	2866.67	2866.67	273.58	0.71
10932.00	91.60	273.00	8189.52	182.79	-2924.94	624912.54	603936.58	32°43'3.0930" N	-103°59'43.4077" W	0.16	2930.64	2930.64	273.58	1.10
10996.00	90.90	273.30	8188.12	186.31	-2988.83	624916.06	603872.69	32°43'3.1298" N	-103°59'44.1553" W	-1.09	2994.63	2994.63	273.57	1.19
11060.00	90.10	272.80	8187.56	189.71	-3052.73	624919.46	603808.79	32°43'3.1655" N	-103°59'44.9032" W	-1.25	3058.62	3058.62	273.56	1.47
11123.00	89.30	273.10	8187.89	192.95	-3115.65	624922.70	603745.87	32°43'3.1996" N	-103°59'45.6395" W	-1.27	3121.62	3121.62	273.54	1.36
11187.00	89.60	272.40	8188.51	196.02	-3179.57	624925.77	603681.95	32°43'3.2320" N	-103°59'46.3876" W	0.47	3185.61	3185.61	273.53	1.19
11250.00	90.90	272.30	8188.23	198.61	-3242.51	624928.36	603619.01	32°43'3.2595" N	-103°59'47.1243" W	2.06	3248.59	3248.59	273.51	2.07
11314.00	91.40	271.90	8186.95	200.95	-3306.46	624930.70	603555.06	32°43'3.2847" N	-103°59'47.8727" W	0.78	3312.56	3312.56	273.48	1.00
11377.00	90.80	271.60	8185.74	202.88	-3369.42	624932.63	603492.10	32°43'3.3058" N	-103°59'48.6095" W	-0.95	3375.51	3375.52	273.45	1.06
11441.00	91.30	271.20	8184.57	204.44	-3433.39	624934.19	603428.13	32°43'3.3232" N	-103°59'49.3582" W	0.78	3439.46	3439.47	273.41	1.00
11504.00	90.90	272.60	8183.36	206.53	-3496.34	624936.28	603365.18	32°43'3.3459" N	-103°59'50.0950" W	-0.63	3502.42	3502.43	273.38	2.31
11568.00	90.70	273.70	8182.46	210.04	-3560.24	624939.79	603301.28	32°43'3.3827" N	-103°59'50.8428" W	-0.31	3566.41	3566.43	273.38	1.75
11631.00	90.50	273.30	8181.80	213.89	-3623.11	624943.64	603238.41	32°43'3.4227" N	-103°59'51.5786" W	-0.32	3629.41	3629.42	273.38	0.71
11695.00	90.70	273.10	8181.13	217.46	-3687.01	624947.21	603174.51	32°43'3.4601" N	-103°59'52.3264" W	0.31	3693.40	3693.42	273.38	0.44
11758.00	90.90	272.30	8180.25	220.43	-3749.93	624950.18	603111.59	32°43'3.4914" N	-103°59'53.0628" W	0.32	3756.39	3756.41	273.36	1.31
11822.00	91.20	272.80	8179.08	223.28	-3813.86	624953.03	603047.66	32°43'3.5216" N	-103°59'53.8110" W	0.47	3820.37	3820.39	273.35	0.91
11885.00	90.70	273.70	8178.04	226.85	-3876.75	624956.60	602984.77	32°43'3.5589" N	-103°59'54.5470" W	-0.79	3883.36	3883.38	273.35	1.63
11949.00	90.60	273.70	8177.31	230.98	-3940.61	624960.73	602920.91	32°43'3.6017" N	-103°59'55.2943" W	-0.16	3947.35	3947.37	273.35	0.16
12013.00	90.60	273.30	8176.64	234.89	-4004.49	624964.64	602857.03	32°43'3.6424" N	-103°59'56.0419" W	0.00	4011.35	4011.37	273.36	0.62
12076.00	90.40	273.80	8176.09	238.79	-4067.36	624968.54	602794.16	32°43'3.6829" N	-103°59'56.7777" W	-0.32	4074.35	4074.37	273.36	0.85
12140.00	90.20	273.30	8175.75	242.75	-4131.24	624972.50	602730.28	32°43'3.7242" N	-103°59'57.5252" W	-0.31	4138.34	4138.37	273.36	0.84
12204.00	90.40	273.10	8175.42	246.32	-4195.14	624976.07	602666.38	32°43'3.7615" N	-103°59'58.2730" W	0.31	4202.34	4202.37	273.36	0.44
12267.00	90.40	274.00	8174.98	250.22	-4258.02	624979.97	602603.50	32°43'3.8021" N	-103°59'59.0088" W	0.00	4265.34	4265.36	273.36	1.43
12330.00	90.50	273.50	8174.48	254.34	-4320.88	624984.09	602540.64	32°43'3.8448" N	-103°59'59.7445" W	0.16	4328.34	4328.36	273.37	0.81
12394.00	90.20	272.80	8174.09	257.86	-4384.78	624987.61	602476.74	32°43'3.8816" N	-104°00'0.4923" W	-0.47	4392.33	4392.36	273.37	1.19
12457.00	90.30	274.50	8173.82	261.87	-4447.65	624991.62	602413.87	32°43'3.9232" N	-104°00'1.2281" W	0.16	4455.33	4455.35	273.37	2.70
12520.00	90.50	272.80	8173.38	265.88	-4510.52	624995.63	602351.00	32°43'3.9649" N	-104°00'1.9638" W	0.32	4518.33	4518.35	273.37	2.72
12584.00	90.40	272.40	8172.88	268.78	-4574.45	624998.53	602287.07	32°43'3.9956" N	-104°00'2.7120" W	-0.16	4582.32	4582.34	273.36	0.64
12643.00	90.60	272.40	8172.36	271.25	-4633.40	625001.00	602228.12	32°43'4.0218" N	-104°00'3.4019" W	0.34	4641.30	4641.33	273.35	0.34
BHL: 12690 MD, 90.60°														
12690.00	90.60	272.40	8171.87	273.22	-4680.35	625002.97	602181.17	32°43'4.0428" N	-104°00'3.9514" W	0.00	4688.29	4688.32	273.34	0.00

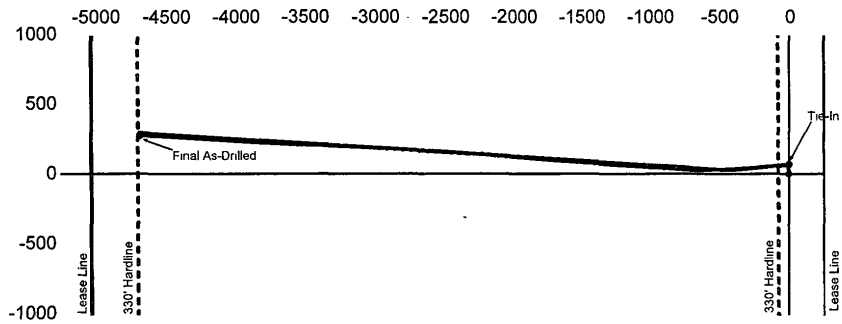
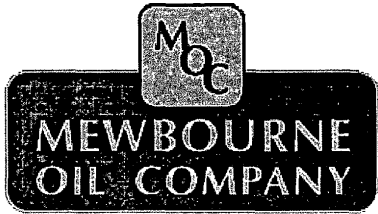
MAGNETICS INFORMATION

Magnetic Model: C:\HawkEye\IGRF2010.MIF
Date for Magnetics: 03/23/2012
Latitude: 32°43'1.1907" N
Longitude: -103°59'9.1784" W
Magnetic Declination: 7.72
Total Correction(Mag to Grid): 7.54

Field Strength (nt): 48816
B-X Component (nt): 23786
B-Y Component (nt): 3226
B-Z Component (nt): 42507
B-Horz Component (nt): 24004
Dip Angle: 60.55

TARGET DATA

Name	Shape	Easting (Ft)	Northing (Ft)	Subsea TVD (Ft)	NS (Ft)	EW (Ft)	Side A (Ft)	Side B (Ft)	Diameter (Ft)
PBHL	CYLINDER	602175.52	625020.80	8173.00	291.05	-4686.00	100.00	200.00	100.00
LP	CYLINDER	606375.47	624759.82	8223.00	30.07	-486.06	100.00	100.00	100.00



Horizontal Plot
1" = 1000'

Final As-Drilled
June 14, 2012



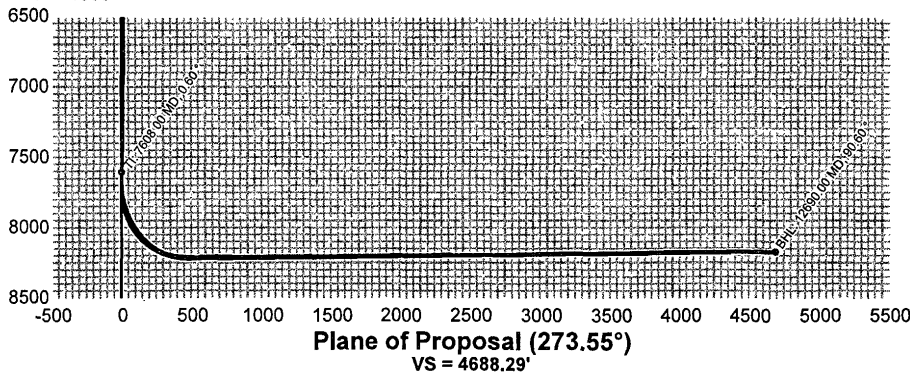
Bradley 29 Federal Com #3H
Eddy County, New Mexico
Patterson #47



NM-East
NAD27

Grid Correction = 7.536" E

Vertical Section Plot
1" = 1000'



Final As-Drilled
4688.32' Displacement from S/L
@ 273.34° Azimuth from S/L
North: 273.22' West: 4680.35'
TVD: 8171.87' MD: 12690.00'
Y: 625002.97
X: 602181.17