

OPERATOR
WELL/LEASE
COUNTY

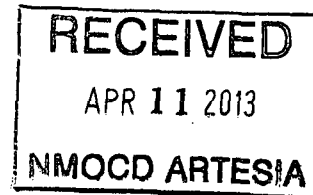
MEWBOURNE OIL COMPANY
BRADLEY 30 FED COM 4H
EDDY

045-0091

STATE OF NEW MEXICO
DEVIATION REPORT

30015 40934

267	0.25
627	0.38
1,028	1.36
1,344	1.00
1,683	0.24
2,096	0.97
2,508	1.40
2,954	1.27
3,367	1.06
3,779	1.65
4,128	1.29
4,477	0.07
4,890	1.09
5,300	1.21
5,747	1.77
5,874	1.78
5,970	2.35
6,068	1.71
6,169	1.34
6,228	1.50
6,352	1.23
6,470	1.42
6,695	2.65
6,951	0.07
7,076	1.32
7,297	0.94



BY:

A handwritten signature in black ink, appearing to read "Steve Moore", written over a horizontal line.

STATE OF TEXAS

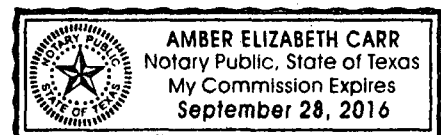
COUNTY OF MIDLAND

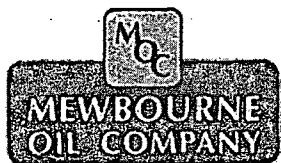
The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

3/7/13

, by

A handwritten signature in black ink, appearing to read "Amber Elizabeth Carr", written over a horizontal line.
Notary Public for Midland County, Texas
My Commission Expires:





Company: Mewbourne Oil Company
Lease/Well: Bradley '30' Federal Com/No 004H
Location: Sec. 30 18s 30e
Rig Name: Patterson #45
State/County: New Mexico/Eddy
Latitude: 32.80, Longitude: -104.16
GRID North is 0.10 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : 25 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut

Minimum Curvature Method

Report Date/Time: 2/21/2013 / 09:25

Vaughn Energy Services

Fort Worth, Texas

817-741-3610

Surveyor: Jason Wilson

Bradley '30' Federal Com No 004H / API 30-015-40934

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	0.14	320.42	100.00	0.09	-0.08	0.09	0.12	320.42	0.14
200.00	0.37	325.41	200.00	0.45	-0.33	0.45	0.56	323.30	0.23
300.00	0.49	328.30	300.00	1.08	-0.74	1.08	1.31	325.46	0.12
400.00	0.65	330.43	399.99	1.93	-1.25	1.93	2.30	327.21	0.16
500.00	0.72	332.27	499.98	2.98	-1.82	2.98	3.49	328.64	0.08
600.00	0.65	338.71	599.98	4.07	-2.32	4.07	4.68	330.35	0.10
700.00	0.85	340.97	699.97	5.30	-2.77	5.30	5.98	332.46	0.20
800.00	1.03	35.54	799.96	6.74	-2.49	6.74	7.18	339.75	0.88
900.00	1.30	41.77	899.94	8.32	-1.21	8.32	8.40	351.73	0.30
1000.00	1.54	52.43	999.91	9.98	0.61	9.98	10.00	3.50	0.35
1100.00	1.59	48.13	1099.87	11.72	2.71	11.72	12.03	13.00	0.13
1200.00	1.58	46.24	1199.83	13.60	4.74	13.60	14.40	19.19	0.05
1300.00	1.42	45.49	1299.80	15.42	6.61	15.42	16.78	23.21	0.17
1400.00	0.74	18.63	1399.78	16.90	7.70	16.90	18.58	24.49	0.02
1500.00	0.60	19.37	1499.77	18.02	8.08	18.02	19.75	24.16	0.14
1600.00	0.46	20.11	1599.77	18.89	8.40	18.89	20.67	23.96	0.14
1700.00	0.42	26.70	1699.76	19.60	8.70	19.60	21.44	23.94	0.07
1800.00	0.45	28.56	1799.76	20.26	9.05	20.26	22.19	24.06	0.03

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
1900.00	0.53	344.02	1899.76	21.06	9.11	21.06	22.94	23.39	0.38
2000.00	0.52	347.89	1999.75	21.94	8.89	21.94	23.67	22.04	0.04
2100.00	0.69	345.36	2099.75	22.97	8.64	22.97	24.54	20.61	0.17
2200.00	0.77	343.48	2199.74	24.19	8.30	24.19	25.57	18.93	0.08
2300.00	1.12	342.18	2299.73	25.77	7.81	25.77	26.92	16.85	0.35
2400.00	1.27	340.05	2399.70	27.74	7.13	27.74	28.64	14.41	0.16
2500.00	1.38	339.44	2499.68	29.91	6.33	29.91	30.57	11.94	0.11
2600.00	1.49	338.81	2599.65	32.25	5.43	32.25	32.71	9.56	0.11
2700.00	1.51	335.96	2699.61	34.67	4.43	34.67	34.95	7.28	0.08
2800.00	1.36	334.63	2799.58	36.94	3.38	36.94	37.10	5.23	0.16
2900.00	1.29	333.31	2899.55	39.02	2.37	39.02	39.09	3.47	0.07
3000.00	1.49	332.97	2999.52	41.19	1.27	41.19	41.21	1.77	0.20
3100.00	1.37	328.98	3099.49	43.37	0.06	43.37	43.37	0.08	0.16
3200.00	1.35	327.30	3199.46	45.38	-1.19	45.38	45.40	358.50	0.04
3300.00	1.34	325.55	3299.44	47.34	-2.49	47.34	47.40	356.99	0.04
3400.00	1.40	324.43	3399.41	49.30	-3.86	49.30	49.45	355.52	0.06
3500.00	1.47	322.56	3499.38	51.31	-5.35	51.31	51.59	354.05	0.08
3600.00	1.80	336.53	3599.34	53.78	-6.76	53.78	54.20	352.84	0.52
3700.00	1.75	330.25	3699.29	56.55	-8.14	56.55	57.13	351.80	0.20
3800.00	1.87	333.52	3799.24	59.33	-9.63	59.33	60.11	350.78	0.15
3900.00	2.27	335.21	3899.17	62.59	-11.19	62.59	63.58	349.87	0.41
4000.00	2.13	336.12	3999.10	66.09	-12.77	66.09	67.31	349.06	0.14
4100.00	1.61	310.44	4099.05	68.70	-14.59	68.70	70.23	348.01	0.98
4200.00	1.45	312.40	4199.01	70.46	-16.59	70.46	72.39	346.75	0.17
4300.00	0.83	314.79	4298.99	71.83	-18.04	71.83	74.06	345.90	0.62
4400.00	0.76	318.52	4398.98	72.83	-18.99	72.83	75.27	345.39	0.09
4500.00	0.76	290.72	4498.97	73.56	-20.05	73.56	76.24	344.75	0.37
4600.00	0.79	284.43	4598.96	73.97	-21.35	73.97	76.99	343.90	0.09
4700.00	0.83	286.63	4698.95	74.35	-22.71	74.35	77.74	343.01	0.05
4800.00	0.96	289.06	4798.94	74.83	-24.19	74.83	78.64	342.08	0.13
4900.00	1.20	290.84	4898.92	75.47	-25.96	75.47	79.81	341.02	0.24
5000.00	1.39	297.09	4998.90	76.40	-28.02	76.40	81.37	339.86	0.24
5100.00	1.34	303.22	5098.87	77.59	-30.07	77.59	83.22	338.81	0.15
5200.00	1.45	302.71	5198.84	78.91	-32.11	78.91	85.20	337.86	0.11
5300.00	1.36	301.57	5298.81	80.22	-34.19	80.22	87.20	336.92	0.09
5400.00	1.24	298.66	5398.78	81.36	-36.15	81.36	89.03	336.04	0.14
5500.00	1.32	295.02	5498.76	82.36	-38.14	82.36	90.77	335.15	0.11
5600.00	1.53	290.46	5598.73	83.32	-40.44	83.32	92.61	334.11	0.24
5700.00	1.64	287.32	5698.69	84.21	-43.05	84.21	94.58	332.92	0.14

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	1.76	288.59	5798.65	85.13	-45.87	85.13	96.70	331.68	0.13
5900.00	1.87	291.34	5898.60	86.21	-48.86	86.21	99.09	330.46	0.14
6000.00	2.05	287.39	5998.54	87.34	-52.09	87.34	101.69	329.19	0.22
6100.00	1.90	285.72	6098.48	88.33	-55.39	88.33	104.26	327.91	0.16
6200.00	1.71	283.29	6198.43	89.12	-58.44	89.12	106.57	326.74	0.21
6300.00	1.44	281.83	6298.39	89.72	-61.12	89.72	108.56	325.73	0.27
6400.00	1.30	280.03	6398.36	90.17	-63.47	90.17	110.27	324.86	0.15
6500.00	1.53	286.43	6498.33	90.75	-65.86	90.75	112.13	324.03	0.28
6600.00	2.26	287.69	6598.28	91.73	-69.02	91.73	114.79	323.04	0.73
6700.00	2.37	283.51	6698.19	92.81	-72.91	92.81	118.02	321.85	0.20
6800.00	2.15	281.45	6798.12	93.66	-76.76	93.66	121.10	320.66	0.24
6900.00	1.56	274.12	6898.06	94.13	-79.96	94.13	123.51	319.66	0.63
7000.00	1.20	239.52	6998.04	93.70	-82.21	93.70	124.66	318.74	0.89
7100.00	1.12	220.71	7098.02	92.43	-83.75	92.43	124.73	317.82	0.39
7200.00	1.05	214.42	7198.00	90.94	-84.90	90.94	124.41	316.96	0.14
7300.00	0.68	194.65	7297.99	89.61	-85.57	89.61	123.90	316.32	0.47
7400.00	0.57	164.61	7397.98	88.55	-85.59	88.55	123.16	315.97	0.34
7500.00	0.35	163.27	7497.98	87.78	-85.37	87.78	122.45	315.80	0.22
7506.00	0.31	162.45	7503.98	87.75	-85.36	87.75	122.42	315.79	0.60

Mewbourne Oil Company

Location: Eddy County, NM
Field: (Bradley) Sec 30, T 18S, R 30E
Facility: Bradley 30 Fed Com 4H

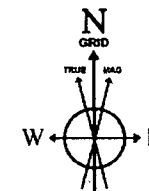
Slot: No. 4H SHL
Well: No. 4H
Wellbore: No. 4H PWB



Well Profile Data

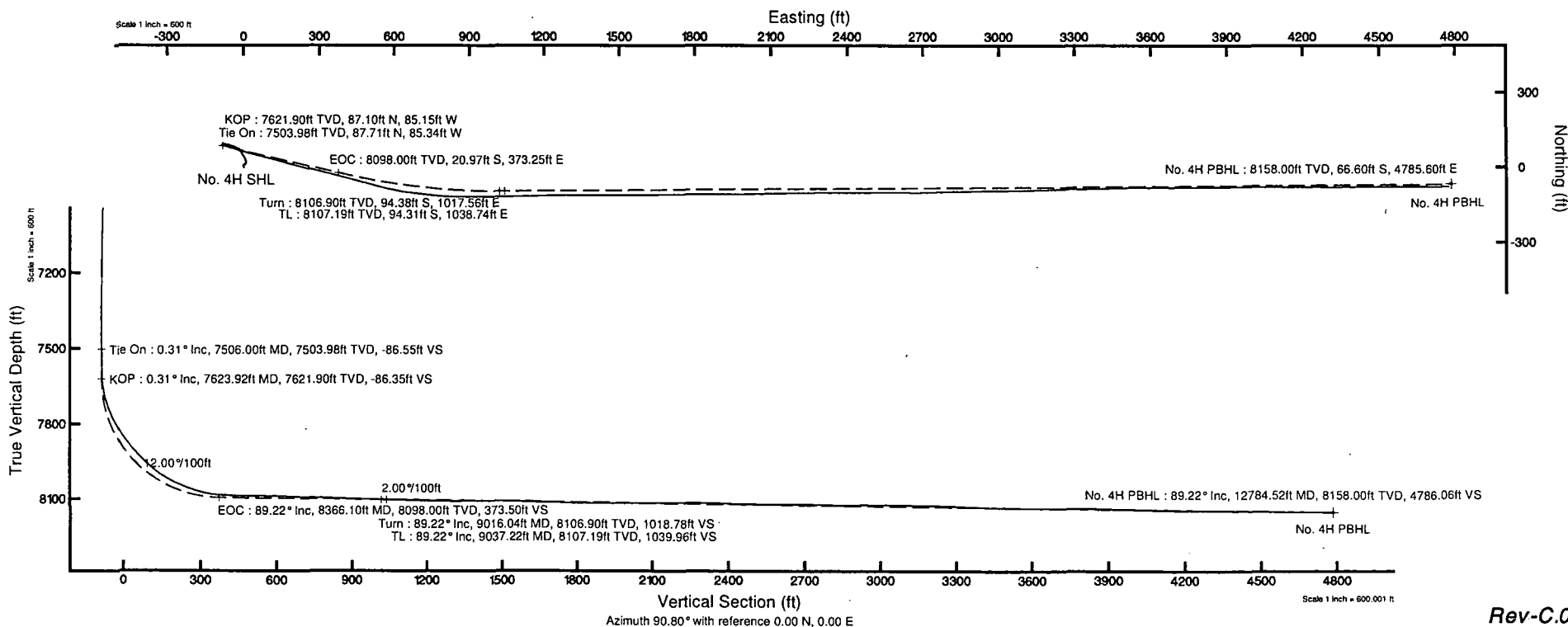
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7506.00	0.310	162.450	7503.98	87.71	-85.34	0.00	-86.55
KOP	7623.92	0.310	162.450	7621.90	87.10	-85.15	0.00	-86.35
EOC	8366.10	89.219	103.000	8098.00	-20.97	373.25	12.00	373.50
Turn	9016.04	89.219	90.000	8106.90	-94.38	1017.56	2.00	1018.78
TL	9037.22	89.223	89.576	8107.19	-94.31	1038.74	2.00	1039.96
No. 4H PBHL	12784.52	89.223	89.576	8158.00	-66.60	4785.60	0.00	4786.06

Plot reference wellpath is Rev-C.0	
True vertical depths are referenced to Rig on No. 4H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 4H SHL (KB)	North Reference: Grid north
Rig on No. 4H SHL (KB) to Mean Sea Level: 3469 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No. 4H SHL): 3449 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: giljost on 12/Feb/2013



BGGM (1945.0 to 2014.0) Dip: 60.50° Field: 48686.1 nT
Magnetic North is 7.74 degrees East of True North (at 23/Jan/2013)
Grid North is 0.17 degrees East of True North
To correct azimuth from True to Grid subtract 0.17 degrees
To correct azimuth from Magnetic to Grid add 7.57 degrees

For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.57 = 97.57



Rev-C.0

Actual Wellpath Report

No. 4H AWP

Page 1 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Bradley) Sec 30, T 18S, R 30E	Wellbore	No. 4H AWB
Facility	Bradley 30 Fed Com 4H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gilbjosl
Scale	0.99992	Report Generated	25/Feb/2013 at 8:27:41 AM
Convergence at slot	0.17° East	Database/Source file	WA Midland/No. 4H_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	596721.56	627532.16	32°43'29.235"N	104°01'07.768"W
Facility Reference Pt			596721.56	627532.16	32°43'29.235"N	104°01'07.768"W
Field Reference Pt			0.00	0.00	30°59'24.512"N	105°55'44.137"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 4H SHL (KB) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Slot	Rig on No. 4H SHL (KB) to Mean Sea Level	3469.00ft
Vertical Reference Pt	Rig on No. 4H SHL (KB)	Rig on No. 4H SHL (KB) to Mud Line at Slot (No. 4H SHL)	20.00ft
MD Reference Pt	Rig on No. 4H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.80°

Actual Wellpath Report

No. 4H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Bradley) Sec 30, T 18S, R 30E	Wellbore	No. 4H AWP
Facility	Bradley 30 Fed Com 4H		

WELLPATH DATA (177 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	320.420	0.00	0.00	0.00	0.00	596721.56	627532.16	32°43'29.235"N	104°01'07.768"W	0.00	
20.00	0.000	320.420	20.00	0.00	0.00	0.00	596721.56	627532.16	32°43'29.235"N	104°01'07.768"W	0.00	
100.00	0.140	320.420	100.00	-0.06	0.08	-0.06	596721.49	627532.24	32°43'29.236"N	104°01'07.769"W	0.17	
200.00	0.370	325.410	200.00	-0.33	0.44	-0.32	596721.23	627532.60	32°43'29.239"N	104°01'07.772"W	0.23	
300.00	0.490	328.300	300.00	-0.75	1.06	-0.73	596720.82	627533.23	32°43'29.246"N	104°01'07.777"W	0.12	
400.00	0.650	330.430	399.99	-1.26	1.92	-1.24	596720.32	627534.08	32°43'29.254"N	104°01'07.783"W	0.16	
500.00	0.720	332.270	499.98	-1.85	2.97	-1.81	596719.75	627535.13	32°43'29.264"N	104°01'07.790"W	0.07	
600.00	0.650	338.710	599.98	-2.36	4.06	-2.31	596719.25	627536.22	32°43'29.275"N	104°01'07.795"W	0.10	
700.00	0.850	340.970	699.97	-2.83	5.29	-2.75	596718.80	627537.45	32°43'29.287"N	104°01'07.801"W	0.20	
800.00	1.030	35.540	799.96	-2.57	6.72	-2.47	596719.08	627538.88	32°43'29.302"N	104°01'07.797"W	0.88	
900.00	1.300	41.770	899.94	-1.31	8.30	-1.20	596720.36	627540.46	32°43'29.317"N	104°01'07.782"W	0.30	
1000.00	1.540	52.430	999.91	0.49	9.96	0.63	596722.18	627542.12	32°43'29.334"N	104°01'07.761"W	0.36	
1100.00	1.590	48.130	1099.87	2.56	11.71	2.72	596724.28	627543.87	32°43'29.351"N	104°01'07.736"W	0.13	
1200.00	1.580	46.240	1199.83	4.56	13.59	4.75	596726.31	627545.75	32°43'29.369"N	104°01'07.712"W	0.05	
1300.00	1.420	45.490	1299.80	6.42	15.41	6.63	596728.19	627547.57	32°43'29.387"N	104°01'07.690"W	0.16	
1400.00	0.740	18.630	1399.78	7.49	16.89	7.72	596729.28	627549.05	32°43'29.402"N	104°01'07.677"W	0.83	
1500.00	0.600	19.370	1499.77	7.85	17.99	8.10	596729.66	627550.15	32°43'29.413"N	104°01'07.673"W	0.14	
1600.00	0.460	20.110	1599.77	8.15	18.87	8.41	596729.97	627551.02	32°43'29.421"N	104°01'07.669"W	0.14	
1700.00	0.420	26.700	1699.76	8.44	19.57	8.72	596730.27	627551.73	32°43'29.428"N	104°01'07.666"W	0.06	
1800.00	0.450	28.560	1799.76	8.79	20.24	9.07	596730.62	627552.40	32°43'29.435"N	104°01'07.662"W	0.03	
1900.00	0.530	344.020	1899.76	8.83	21.03	9.13	596730.68	627553.19	32°43'29.443"N	104°01'07.661"W	0.38	
2000.00	0.520	347.890	1999.75	8.60	21.92	8.91	596730.46	627554.08	32°43'29.452"N	104°01'07.663"W	0.04	
2100.00	0.690	345.360	2099.75	8.34	22.95	8.66	596730.21	627555.11	32°43'29.462"N	104°01'07.666"W	0.17	
2200.00	0.770	343.480	2199.74	7.98	24.17	8.32	596729.87	627556.33	32°43'29.474"N	104°01'07.670"W	0.08	
2300.00	1.120	342.180	2299.73	7.47	25.75	7.83	596729.38	627557.91	32°43'29.490"N	104°01'07.676"W	0.35	
2400.00	1.270	340.050	2399.70	6.76	27.72	7.15	596728.70	627559.88	32°43'29.509"N	104°01'07.684"W	0.16	
2500.00	1.380	339.440	2499.68	5.93	29.89	6.35	596727.90	627562.05	32°43'29.531"N	104°01'07.693"W	0.11	
2600.00	1.490	338.810	2599.65	5.01	32.23	5.45	596727.01	627564.39	32°43'29.554"N	104°01'07.703"W	0.11	
2700.00	1.510	335.960	2699.61	3.96	34.64	4.45	596726.00	627566.80	32°43'29.578"N	104°01'07.715"W	0.08	
2800.00	1.360	334.630	2799.58	2.89	36.92	3.40	596724.96	627569.08	32°43'29.600"N	104°01'07.727"W	0.15	

Actual Wellpath Report

No. 4H AWP

Page 3 of 8

 Mewbourne Oil Company



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Bradley) Sec 30, T 18S, R 30E	Wellbore	No. 4H AWP
Facility	Bradley 30 Fed Com 4H		

WELLPATH DATA (177 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2900.00	1.290	333.310	2899.55	1.85	39.00	2.39	596723.94	627571.16	32°43'29.621"N	104°01'07.739"W	0.08	
3000.00	1.490	332.970	2999.52	0.72	41.16	1.29	596722.85	627573.32	32°43'29.642"N	104°01'07.752"W	0.20	
3100.00	1.370	328.980	3099.49	-0.52	43.34	0.08	596721.64	627575.50	32°43'29.664"N	104°01'07.766"W	0.16	
3200.00	1.350	327.300	3199.46	-1.80	45.36	-1.17	596720.39	627577.52	32°43'29.684"N	104°01'07.781"W	0.04	
3300.00	1.340	325.550	3299.44	-3.12	47.32	-2.47	596719.09	627579.47	32°43'29.703"N	104°01'07.796"W	0.04	
3400.00	1.400	324.430	3399.41	-4.52	49.27	-3.84	596717.72	627581.43	32°43'29.723"N	104°01'07.812"W	0.07	
3500.00	1.470	322.560	3499.38	-6.04	51.29	-5.33	596716.23	627583.44	32°43'29.743"N	104°01'07.829"W	0.08	
3600.00	1.800	336.530	3599.34	-7.48	53.74	-6.73	596714.82	627585.90	32°43'29.767"N	104°01'07.845"W	0.52	
3700.00	1.750	330.250	3699.29	-8.90	56.51	-8.12	596713.44	627588.67	32°43'29.794"N	104°01'07.861"W	0.20	
3800.00	1.870	333.520	3799.24	-10.43	59.30	-9.60	596711.95	627591.45	32°43'29.822"N	104°01'07.879"W	0.16	
3900.00	2.270	335.210	3899.17	-12.03	62.56	-11.16	596710.40	627594.71	32°43'29.854"N	104°01'07.897"W	0.40	
4000.00	2.130	336.120	3999.10	-13.66	66.05	-12.74	596708.81	627598.21	32°43'29.889"N	104°01'07.915"W	0.14	
4100.00	1.610	310.440	4099.05	-15.52	68.66	-14.56	596706.99	627600.82	32°43'29.915"N	104°01'07.937"W	0.97	
4200.00	1.450	312.400	4199.01	-17.55	70.43	-16.57	596704.99	627602.58	32°43'29.932"N	104°01'07.960"W	0.17	
4300.00	0.830	314.790	4298.99	-19.01	71.79	-18.02	596703.54	627603.95	32°43'29.946"N	104°01'07.977"W	0.62	
4400.00	0.760	318.520	4398.98	-19.98	72.80	-18.97	596702.59	627604.95	32°43'29.956"N	104°01'07.988"W	0.09	
4500.00	0.760	290.720	4498.97	-21.05	73.53	-20.03	596701.53	627605.68	32°43'29.963"N	104°01'08.000"W	0.37	
4600.00	0.790	284.430	4598.96	-22.34	73.94	-21.32	596700.24	627606.09	32°43'29.967"N	104°01'08.015"W	0.09	
4700.00	0.830	286.630	4698.95	-23.71	74.31	-22.68	596698.88	627606.47	32°43'29.971"N	104°01'08.031"W	0.05	
4800.00	0.960	289.060	4798.94	-25.20	74.80	-24.16	596697.39	627606.95	32°43'29.976"N	104°01'08.049"W	0.14	
4900.00	1.200	290.840	4898.92	-26.98	75.44	-25.93	596695.62	627607.60	32°43'29.982"N	104°01'08.069"W	0.24	
5000.00	1.390	297.090	4998.90	-29.05	76.37	-27.99	596693.56	627608.52	32°43'29.991"N	104°01'08.093"W	0.24	
5100.00	1.340	303.220	5098.87	-31.13	77.56	-30.05	596691.51	627609.71	32°43'30.003"N	104°01'08.118"W	0.15	
5200.00	1.450	302.710	5198.84	-33.19	78.88	-32.09	596689.46	627611.04	32°43'30.016"N	104°01'08.141"W	0.11	
5300.00	1.360	301.570	5298.81	-35.28	80.19	-34.17	596687.39	627612.34	32°43'30.029"N	104°01'08.166"W	0.09	
5400.00	1.240	298.660	5398.79	-37.26	81.33	-36.13	596685.43	627613.48	32°43'30.041"N	104°01'08.189"W	0.14	
5500.00	1.320	295.020	5498.76	-39.26	82.34	-38.12	596683.44	627614.49	32°43'30.051"N	104°01'08.212"W	0.11	
5600.00	1.530	290.460	5598.73	-41.57	83.29	-40.42	596681.14	627615.44	32°43'30.060"N	104°01'08.239"W	0.24	
5700.00	1.640	287.320	5698.69	-44.20	84.18	-43.03	596678.52	627616.34	32°43'30.069"N	104°01'08.269"W	0.14	
5800.00	1.760	288.590	5798.65	-47.04	85.10	-45.86	596675.70	627617.25	32°43'30.078"N	104°01'08.302"W	0.13	

Actual Wellpath Report

No. 4H AWP

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 Mewbourne Oil Company



REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Bradley) Sec 30, T 18S, R 30E	Wellbore	No. 4H AWB
Facility	Bradley 30 Fed Com 4H		

WELLPATH DATA (177 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5900.00	1.870	291.340	5898.60	-50.03	86.18	-48.83	596672.73	627618.33	32°43'30.089"N	104°01'08.337"W	0.14	
6000.00	2.050	287.390	5998.54	-53.27	87.31	-52.06	596669.50	627619.46	32°43'30.100"N	104°01'08.375"W	0.22	
6100.00	1.900	285.720	6098.48	-56.58	88.29	-55.36	596666.20	627620.45	32°43'30.110"N	104°01'08.413"W	0.16	
6200.00	1.710	283.290	6198.43	-59.64	89.08	-58.41	596663.15	627621.24	32°43'30.118"N	104°01'08.449"W	0.20	
6300.00	1.440	281.830	6298.39	-62.33	89.69	-61.09	596660.47	627621.84	32°43'30.124"N	104°01'08.480"W	0.27	
6400.00	1.300	280.030	6398.36	-64.68	90.14	-63.44	596658.12	627622.29	32°43'30.129"N	104°01'08.508"W	0.15	
6500.00	1.530	286.430	6498.33	-67.09	90.72	-65.83	596655.73	627622.87	32°43'30.135"N	104°01'08.536"W	0.28	
6600.00	2.260	287.690	6598.28	-70.26	91.69	-68.99	596652.57	627623.85	32°43'30.144"N	104°01'08.573"W	0.73	
6700.00	2.370	283.510	6698.20	-74.17	92.77	-72.88	596648.68	627624.93	32°43'30.155"N	104°01'08.618"W	0.20	
6800.00	2.150	281.450	6798.12	-78.03	93.63	-76.73	596644.83	627625.78	32°43'30.164"N	104°01'08.663"W	0.23	
6900.00	1.560	274.120	6898.06	-81.23	94.10	-79.93	596641.63	627626.25	32°43'30.168"N	104°01'08.701"W	0.63	
7000.00	1.200	239.520	6998.04	-83.48	93.67	-82.19	596639.37	627625.82	32°43'30.164"N	104°01'08.727"W	0.89	
7100.00	1.120	220.710	7098.02	-85.00	92.39	-83.73	596637.83	627624.55	32°43'30.152"N	104°01'08.745"W	0.39	
7200.00	1.050	214.420	7198.00	-86.14	90.90	-84.88	596636.68	627623.05	32°43'30.137"N	104°01'08.759"W	0.14	
7300.00	0.680	194.650	7297.99	-86.79	89.57	-85.55	596636.01	627621.72	32°43'30.124"N	104°01'08.767"W	0.47	
7400.00	0.570	164.610	7397.98	-86.79	88.51	-85.57	596635.99	627620.67	32°43'30.113"N	104°01'08.767"W	0.34	
7500.00	0.350	163.270	7497.98	-86.56	87.74	-85.35	596636.21	627619.90	32°43'30.106"N	104°01'08.764"W	0.22	
7506.00	0.310	162.450	7503.98	-86.55	87.71	-85.34	596636.22	627619.86	32°43'30.105"N	104°01'08.764"W	0.67	
7547.00	1.480	72.950	7544.97	-86.01	87.76	-84.80	596636.76	627619.91	32°43'30.106"N	104°01'08.758"W	3.68	
7578.00	1.090	97.200	7575.97	-85.34	87.84	-84.12	596637.44	627619.99	32°43'30.107"N	104°01'08.750"W	2.13	
7610.00	2.800	107.200	7607.95	-84.29	87.57	-83.07	596638.49	627619.72	32°43'30.104"N	104°01'08.738"W	5.43	
7642.00	6.600	106.500	7639.83	-81.76	86.82	-80.56	596641.00	627618.97	32°43'30.096"N	104°01'08.708"W	11.88	
7674.00	10.800	107.300	7671.46	-77.12	85.40	-75.94	596645.62	627617.56	32°43'30.082"N	104°01'08.654"W	13.13	
7705.00	15.300	108.100	7701.65	-70.42	83.27	-69.27	596652.29	627615.42	32°43'30.061"N	104°01'08.576"W	14.53	
7737.00	19.700	104.500	7732.16	-61.15	80.60	-60.03	596661.53	627612.76	32°43'30.034"N	104°01'08.468"W	14.15	
7769.00	24.200	107.300	7761.84	-49.61	77.30	-48.54	596673.02	627609.45	32°43'30.001"N	104°01'08.334"W	14.43	
7801.00	28.000	107.500	7790.57	-36.13	73.09	-35.11	596686.45	627605.24	32°43'29.959"N	104°01'08.177"W	11.88	
7832.00	30.900	106.200	7817.56	-21.48	68.68	-20.52	596701.03	627600.84	32°43'29.915"N	104°01'08.006"W	9.58	
7864.00	33.900	106.200	7844.57	-4.95	63.90	-4.06	596717.49	627596.05	32°43'29.867"N	104°01'07.814"W	9.38	
7896.00	37.800	105.100	7870.51	13.16	58.85	13.98	596735.54	627591.01	32°43'29.817"N	104°01'07.603"W	12.35	

Actual Wellpath Report

No. 4H AWP

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 Mewbourne Oil Company



REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Bradley) Sec 30, T 18S, R 30E	Wellbore	No. 4H AWB
Facility	Bradley 30 Fed Com 4H		

WELLPATH DATA (177 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7928.00	40.700	104.400	7895.29	32.81	53.70	33.56	596755.11	627585.86	32°43'29.765"N	104°01'07.374"W	9.17	
7959.00	42.800	104.100	7918.41	52.89	48.62	53.57	596775.12	627580.78	32°43'29.715"N	104°01'07.140"W	6.80	
7991.00	44.700	104.400	7941.53	74.41	43.17	75.01	596796.56	627575.33	32°43'29.660"N	104°01'06.889"W	5.97	
8023.00	47.200	105.400	7963.77	96.71	37.25	97.24	596818.78	627569.41	32°43'29.601"N	104°01'06.629"W	8.13	
8055.00	51.200	105.500	7984.68	120.14	30.80	120.58	596842.13	627562.96	32°43'29.536"N	104°01'06.356"W	12.50	
8086.00	55.500	105.500	8003.18	144.19	24.16	144.54	596866.08	627556.32	32°43'29.470"N	104°01'06.076"W	13.87	
8118.00	60.500	105.100	8020.13	170.46	17.00	170.71	596892.25	627549.16	32°43'29.398"N	104°01'05.770"W	15.66	
8150.00	64.600	104.600	8034.88	198.00	9.73	198.15	596919.69	627541.89	32°43'29.325"N	104°01'05.449"W	12.89	
8182.00	67.200	104.000	8047.95	226.40	2.51	226.46	596947.99	627534.68	32°43'29.253"N	104°01'05.118"W	8.30	
8214.00	69.500	103.600	8059.75	255.38	-4.58	255.34	596976.87	627527.58	32°43'29.182"N	104°01'04.780"W	7.28	
8245.00	72.500	103.600	8069.84	283.96	-11.47	283.82	597005.36	627520.69	32°43'29.113"N	104°01'04.447"W	9.68	
8277.00	76.700	104.100	8078.34	314.00	-18.86	313.77	597035.30	627513.31	32°43'29.039"N	104°01'04.096"W	13.21	
8309.00	81.500	104.400	8084.39	344.55	-26.59	344.22	597065.74	627505.57	32°43'28.962"N	104°01'03.740"W	15.03	
8332.00	85.000	104.600	8087.09	366.74	-32.31	366.33	597087.85	627499.86	32°43'28.905"N	104°01'03.482"W	15.24	
8417.00	89.400	103.700	8091.24	449.32	-53.05	448.63	597170.15	627479.11	32°43'28.697"N	104°01'02.519"W	5.28	
8449.00	89.400	105.400	8091.58	480.40	-61.09	479.60	597201.12	627471.07	32°43'28.616"N	104°01'02.157"W	5.31	
8481.00	89.200	105.200	8091.97	511.38	-69.54	510.46	597231.98	627462.63	32°43'28.532"N	104°01'01.796"W	0.88	
8512.00	89.800	103.700	8092.24	541.50	-77.27	540.48	597261.99	627454.90	32°43'28.455"N	104°01'01.445"W	5.21	
8544.00	89.700	103.400	8092.38	572.71	-84.77	571.59	597293.10	627447.40	32°43'28.379"N	104°01'01.081"W	0.99	
8576.00	88.400	101.000	8092.91	604.08	-91.53	602.86	597324.37	627440.64	32°43'28.312"N	104°01'00.715"W	8.53	
8607.00	87.800	98.600	8093.94	634.67	-96.80	633.39	597354.89	627435.37	32°43'28.259"N	104°01'00.358"W	7.98	
8671.00	87.600	96.400	8096.51	698.18	-105.15	696.79	597418.28	627427.02	32°43'28.174"N	104°00'59.616"W	3.45	
8734.00	88.500	95.500	8098.65	760.89	-111.68	759.41	597480.90	627420.49	32°43'28.108"N	104°00'58.883"W	2.02	
8797.00	88.500	92.300	8100.30	823.77	-115.96	822.23	597543.72	627416.21	32°43'28.063"N	104°00'58.148"W	5.08	
8861.00	87.700	90.300	8102.42	887.73	-117.41	886.18	597607.66	627414.76	32°43'28.047"N	104°00'57.400"W	3.36	
8924.00	87.300	90.100	8105.17	950.66	-117.63	949.12	597670.59	627414.54	32°43'28.043"N	104°00'56.663"W	0.71	
8988.00	88.900	89.300	8107.29	1014.61	-117.29	1013.08	597734.55	627414.88	32°43'28.045"N	104°00'55.915"W	2.79	
9051.00	89.100	89.400	8108.39	1077.58	-116.58	1076.07	597797.53	627415.59	32°43'28.050"N	104°00'55.177"W	0.35	
9115.00	87.800	87.700	8110.12	1141.51	-114.96	1140.02	597861.48	627417.21	32°43'28.064"N	104°00'54.429"W	3.34	
9179.00	89.200	88.900	8111.80	1205.42	-113.06	1203.96	597925.42	627419.11	32°43'28.081"N	104°00'53.680"W	2.88	

Actual Wellpath Report

 Mewbourne Oil Company

No. 4H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Bradley) Sec 30, T 18S, R 30E	Wellbore	No. 4H AWB
Facility	Bradley 30 Fed Com 4H		

WELLPATH DATA (177 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9242.00	88.700	88.700	8112.95	1268.37	-111.74	1266.94	597988.39	627420.43	32°43'28.092"N	104°00'52.943"W	0.85	
9306.00	90.400	90.100	8113.45	1332.35	-111.07	1330.93	598052.38	627421.10	32°43'28.097"N	104°00'52.194"W	3.44	
9369.00	90.300	89.900	8113.07	1395.34	-111.07	1393.93	598115.37	627421.10	32°43'28.095"N	104°00'51.456"W	0.35	
9432.00	90.300	90.200	8112.74	1458.33	-111.13	1456.93	598178.36	627421.04	32°43'28.092"N	104°00'50.719"W	0.48	
9495.00	88.500	89.700	8113.40	1521.32	-111.07	1519.92	598241.35	627421.10	32°43'28.091"N	104°00'49.982"W	2.97	
9558.00	88.600	89.400	8114.99	1584.29	-110.58	1582.90	598304.32	627421.59	32°43'28.094"N	104°00'49.245"W	0.50	
9621.00	88.400	89.300	8116.64	1647.24	-109.87	1645.87	598367.29	627422.30	32°43'28.099"N	104°00'48.507"W	0.35	
9685.00	88.400	89.500	8118.43	1711.20	-109.20	1709.85	598431.26	627422.97	32°43'28.104"N	104°00'47.759"W	0.31	
9748.00	88.400	89.300	8120.19	1774.16	-108.54	1772.82	598494.23	627423.63	32°43'28.109"N	104°00'47.022"W	0.32	
9812.00	89.800	90.200	8121.19	1838.14	-108.26	1836.81	598558.21	627423.91	32°43'28.109"N	104°00'46.273"W	2.60	
9874.00	89.200	90.100	8121.73	1900.13	-108.42	1898.80	598620.20	627423.75	32°43'28.106"N	104°00'45.547"W	0.98	
9938.00	90.800	89.300	8121.73	1964.11	-108.08	1962.80	598684.19	627424.09	32°43'28.107"N	104°00'44.798"W	2.80	
10001.00	90.700	88.600	8120.91	2027.08	-106.93	2025.78	598747.17	627425.24	32°43'28.117"N	104°00'44.060"W	1.12	
10065.00	90.800	88.700	8120.07	2091.03	-105.42	2089.76	598811.14	627426.75	32°43'28.130"N	104°00'43.312"W	0.22	
10128.00	91.000	88.400	8119.08	2153.97	-103.83	2152.73	598874.11	627428.34	32°43'28.144"N	104°00'42.574"W	0.57	
10192.00	89.600	89.100	8118.75	2217.93	-102.43	2216.71	598938.09	627429.74	32°43'28.156"N	104°00'41.826"W	2.45	
10255.00	89.600	89.200	8119.19	2280.90	-101.50	2279.71	599001.07	627430.67	32°43'28.163"N	104°00'41.088"W	0.16	
10317.00	88.000	90.400	8120.49	2342.87	-101.28	2341.69	599063.05	627430.89	32°43'28.163"N	104°00'40.363"W	3.23	
10381.00	87.400	89.800	8123.05	2406.82	-101.39	2405.64	599126.99	627430.78	32°43'28.160"N	104°00'39.614"W	1.33	
10444.00	88.400	89.300	8125.36	2469.76	-100.90	2468.59	599189.94	627431.27	32°43'28.163"N	104°00'38.877"W	1.77	
10508.00	89.300	89.700	8126.65	2533.73	-100.34	2532.58	599253.92	627431.83	32°43'28.167"N	104°00'38.128"W	1.54	
10571.00	90.000	90.100	8127.03	2596.72	-100.23	2595.57	599316.92	627431.94	32°43'28.166"N	104°00'37.391"W	1.28	
10634.00	90.600	90.800	8126.70	2659.71	-100.72	2658.57	599379.91	627431.44	32°43'28.159"N	104°00'36.654"W	1.46	
10698.00	88.600	88.000	8127.15	2723.68	-100.05	2722.56	599443.89	627432.11	32°43'28.164"N	104°00'35.905"W	5.38	
10761.00	88.300	87.800	8128.85	2786.58	-97.75	2785.49	599506.82	627434.42	32°43'28.185"N	104°00'35.168"W	0.57	
10825.00	89.900	88.400	8129.86	2850.50	-95.63	2849.44	599570.77	627436.54	32°43'28.204"N	104°00'34.419"W	2.67	
10888.00	90.800	88.800	8129.47	2913.45	-94.09	2912.42	599633.74	627438.08	32°43'28.217"N	104°00'33.682"W	1.56	
10952.00	89.700	89.500	8129.19	2977.42	-93.14	2976.42	599697.73	627439.03	32°43'28.225"N	104°00'32.933"W	2.04	
11015.00	89.900	89.500	8129.41	3040.41	-92.59	3039.41	599760.72	627439.58	32°43'28.228"N	104°00'32.196"W	0.32	
11079.00	89.000	88.400	8130.03	3104.37	-91.41	3103.40	599824.70	627440.75	32°43'28.238"N	104°00'31.447"W	2.22	

Actual Wellpath Report

 Mewbourne Oil Company

No. 4H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Bradley) Sec 30, T 18S, R 30E	Wellbore	No. 4H AWB
Facility	Bradley 30 Fed Com 4H		

WELLPATH DATA (177 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11141.00	88.900	88.200	8131.16	3166.30	-89.58	3165.36	599886.65	627442.59	32°43'28.254"N	104°00'30.721"W	0.36	
11205.00	88.900	88.200	8132.39	3230.22	-87.57	3229.32	599950.61	627444.60	32°43'28.272"N	104°00'29.973"W	0.00	
11268.00	88.100	89.800	8134.04	3293.17	-86.47	3292.28	600013.57	627445.70	32°43'28.281"N	104°00'29.235"W	2.84	
11331.00	87.100	88.600	8136.68	3356.08	-85.59	3355.22	600076.50	627446.58	32°43'28.288"N	104°00'28.499"W	2.48	
11394.00	88.000	88.300	8139.37	3418.97	-83.89	3418.14	600139.41	627448.28	32°43'28.303"N	104°00'27.762"W	1.51	
11458.00	88.500	88.100	8141.33	3482.88	-81.88	3482.08	600203.34	627450.29	32°43'28.321"N	104°00'27.014"W	0.84	
11522.00	89.900	90.300	8142.22	3546.84	-80.98	3546.06	600267.32	627451.18	32°43'28.328"N	104°00'26.265"W	4.07	
11585.00	90.000	90.100	8142.28	3609.84	-81.20	3609.06	600330.32	627450.96	32°43'28.324"N	104°00'25.527"W	0.35	
11648.00	89.800	89.500	8142.39	3672.83	-80.98	3672.06	600393.31	627451.18	32°43'28.324"N	104°00'24.790"W	1.00	
11711.00	89.800	89.200	8142.61	3735.81	-80.27	3735.05	600456.30	627451.90	32°43'28.329"N	104°00'24.053"W	0.48	
11774.00	89.800	89.200	8142.83	3798.78	-79.39	3798.05	600519.29	627452.78	32°43'28.336"N	104°00'23.315"W	0.00	
11838.00	88.600	89.800	8143.72	3862.76	-78.83	3862.04	600583.27	627453.34	32°43'28.339"N	104°00'22.566"W	2.10	
11901.00	88.000	89.500	8145.59	3925.72	-78.45	3925.01	600646.24	627453.72	32°43'28.341"N	104°00'21.829"W	1.06	
11965.00	88.700	89.900	8147.43	3989.68	-78.11	3988.98	600710.21	627454.06	32°43'28.343"N	104°00'21.080"W	1.26	
12028.00	88.700	89.700	8148.86	4052.65	-77.89	4051.96	600773.18	627454.28	32°43'28.343"N	104°00'20.343"W	0.32	
12091.00	89.200	89.900	8150.02	4115.63	-77.67	4114.95	600836.17	627454.50	32°43'28.343"N	104°00'19.606"W	0.85	
12154.00	89.900	90.400	8150.51	4178.63	-77.84	4177.95	600899.16	627454.33	32°43'28.340"N	104°00'18.869"W	1.37	
12218.00	89.800	90.500	8150.68	4242.62	-78.34	4241.95	600963.15	627453.83	32°43'28.333"N	104°00'18.119"W	0.22	
12281.00	89.800	90.100	8150.90	4305.62	-78.67	4304.94	601026.15	627453.50	32°43'28.327"N	104°00'17.382"W	0.63	
12345.00	89.000	89.600	8151.57	4369.61	-78.50	4368.94	601090.14	627453.67	32°43'28.327"N	104°00'16.633"W	1.47	
12408.00	88.800	89.400	8152.78	4432.58	-77.95	4431.93	601153.12	627454.22	32°43'28.331"N	104°00'15.896"W	0.45	
12470.00	88.500	89.300	8154.24	4494.54	-77.25	4493.90	601215.09	627454.92	32°43'28.336"N	104°00'15.170"W	0.51	
12533.00	89.000	89.800	8155.61	4557.51	-76.75	4556.89	601278.07	627455.41	32°43'28.339"N	104°00'14.433"W	1.12	
12597.00	89.300	90.100	8156.56	4621.50	-76.70	4620.88	601342.05	627455.47	32°43'28.337"N	104°00'13.684"W	0.66	
12660.00	90.000	91.100	8156.95	4684.50	-77.36	4683.87	601405.04	627454.81	32°43'28.329"N	104°00'12.947"W	1.94	
12704.00	90.100	90.200	8156.91	4728.50	-77.86	4727.87	601449.04	627454.31	32°43'28.322"N	104°00'12.432"W	2.06	
12750.00	90.100	90.200	8156.83	4774.49	-78.02	4773.87	601495.03	627454.15	32°43'28.319"N	104°00'11.893"W	0.00	Proj to bit

Actual Wellpath Report

No. 4H AWP

Page 8 of 8

 Mewbourne Oil Company



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Bradley) Sec 30, T 18S, R 30E	Wellbore	No. 4H AWB
Facility	Bradley 30 Fed Com 4H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 4H PBHL		8158.00	-66.60	4785.60	601506.76	627465.57	32°43'28.432"N	104°00'11.756"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 4H AWB - Ref Wellpath: No. 4H AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	7506.00	Generic gyro - northseeking (Standard)	VES GYROS <100-7506>	No. 4H AWB
7506.00	12704.00	NaviTrak (Standard)	BHI MWD NAVITRAK <7547-12704>>	No. 4H AWB
12704.00	12750.00	Blind Drilling (std)	Projection to bit	No. 4H AWB

Operating Company Mewbourne
Well Name & Number Bradley 30 Fed Com #4H
Sales Ticket Number 0005314278-1

Company Rep Russell Berryman
Field
BOT Service Rep John Davis



Date 2/24/2013

District Location Odessa, Texas, USA

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	8,381.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,598.36	12,410	10,680
Bott Liner										
TVD	8,151.00		KOP		7,623.00		Open Hole	6.125	Casing Vol. (bbl)	311.6
Carry Fluid Weight (ppg)	8.4		Propant Content (ppa)				Max Drill Out Size		0	

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
Liner Top	1	JR Setting Sleeve RH Profile	8143.64							

Zone Length										
20	JR Sleeve S3 Hyd Set Packer		8143.64	8.64	5.813	3.875				
	4-1/2-13.5 LTC Nipple		8152.28	8.10	5.000	3.920				
406.1	8 Joints of 4-1/2-13.5 LTC Casing		8160.38	305.97	5.000	3.920				
	3.625 EX Frac Sleeve		8466.35	3.90	5.750		3.525	2286	310	312
19	2 Joint of 4-1/2-13.5 LTC Casing		8470.25	75.64	5.000	3.920				
	Baker Open Hole Packer		8545.89	3.89	5.820	3.875		2154		
201.5	3 Joints of 4-1/2-13.5 LTC Casing		8549.78	112.69	5.000	3.920				
	3.500 EX Frac Sleeve		8662.47	3.90	5.750		3.400	2286	289	312
18	2 Joint of 4-1/2-13.5 LTC Casing		8666.37	77.17	5.000	3.920				
	Baker Open Hole Packer		8743.54	3.89	5.820	3.875		2154		
201.7	3 Joints of 4-1/2-13.5 LTC Casing		8747.43	112.63	5.000	3.920				
	3.375 EX Frac Sleeve		8860.06	3.90	5.750		3.275	2286	268	312
17	2 Joint of 4-1/2-13.5 LTC Casing		8863.96	77.39	5.000	3.920				
	Baker Open Hole Packer		8941.35	3.89	5.820	3.875		2154		
201.1	3 Joints of 4-1/2-13.5 LTC Casing		8945.24	113.51	5.000	3.920				
	3.250 EX Frac Sleeve		9058.75	3.90	5.750		3.150	2286	248	312
16	2 Joint of 4-1/2-13.5 LTC Casing		9062.65	75.90	5.000	3.920				
	Baker Open Hole Packer		9138.55	3.89	5.820	3.875		2154		
202.4	3 Joints of 4-1/2-13.5 LTC Casing		9142.44	114.45	5.000	3.920				
	3.125 EX Frac Sleeve		9256.89	3.90	5.750		3.025	2286	228	312
	2 Joints of 4-1/2-13.5 LTC Casing		9260.79	76.22	5.000	3.920				
	Baker Open Hole Packer		9337.01	3.89	5.820	3.875		2154		

Operating Company Mewbourne
 Well Name & Number Bradley 30 Fed Com #4H
 Sales Ticket Number 0005314278-1
 Date 2/24/2013

Company Rep Russell Berryman
 Field
 BOT Service Rep John Davis
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	8,381.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,598.36	12,410	10,680	
Bott Liner											
TVD		8,151.00		KOP		7,623.00		Open Hole	6.125	Casing Vol. (bbl)	311.6
Carry Fluid Weight (ppg)		8.4		Propan Content (ppa)					Max Drill Out Size		0

	Comm Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
		3 Joints of 4-1/2-13.5 LTC Casing	9340.90	114.81	5.000	3.920				
15	15	3.000 EX Frac sleeve	9455.74	3.90	5.750		2.900	2286	210	312
		3 Joint of 4-1/2-13.5 LTC Casing	9459.61	113.68	5.000	3.920				
240.2		Baker Open Hole Packer	9573.29	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	9577.18	115.19	5.000	3.920				
14	14	2.875 EX Frac Sleeve	9692.37	3.90	5.750		2.775	2286	192	312
		4 Joints of 4-1/2-13.5 LTC Casing	9696.27	150.69	5.000	3.920				
277.6		Baker Open Hole Packer	9848.96	3.89	5.820	3.875		2154		
		4 Joints of 4-1/2-13.5 LTC Casing	9850.85	152.38	5.000	3.920				
13	13	2.750 EX Frac Sleeve	10003.23	3.90	5.750		2.650	2286	175	312
		3 Joint of 4-1/2-13.5 LTC Casing	10007.13	111.80	5.000	3.920				
275.9		Baker Open Hole Packer	10118.93	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10122.82	116.81	5.000	3.920				
12	12	2.625 EX Frac Sleeve	10239.63	3.90	5.750		2.525	2286	159	312
		2 Joints of 4-1/2-13.5 LTC Casing	10243.53	79.17	5.000	3.920				
207.7		Baker Open Hole Packer	10322.70	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10326.59	114.19	5.000	3.920				
11	11	2.500 EX Frac Sleeve	10440.78	3.90	5.750		2.400	2286	144	312
		3 Joint of 4-1/2-13.5 LTC Casing	10444.68	115.07	5.000	3.920				
240.9		Baker Open Hole Packer	10559.75	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10563.64	113.09	5.000	3.920				
10	10	2.375 EX Frac Sleeve	10676.73	3.90	5.750		2.275	2286	129	312
		2 Joints of 4-1/2-13.5 LTC Casing	10680.63	75.49	5.000	3.920				
200.3		Baker Open Hole Packer	10756.12	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	10760.01	113.41	5.000	3.920				
9	9	2.250 EX Frac Sleeve	10873.42	3.90	5.750		2.150	2286	115	312

Operating Company Mewbourne
Well Name & Number Bradley 30 Fed Com #4H
Sales Ticket Number 0005314278-1

Company Rep Russell Berryman
Field
BOT Service Rep John Davis



Date 2/24/2013

District Location Odessa, Texas, USA

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	8,381.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,598.36	12,410	10,680
Bott Liner										
TVD	8,151.00		KOP	7,623.00		Open Hole	6.125	Casing Vol. (bbl)	311.6	
Carry Fluid Weight (ppg)	8.4		Propant Content (ppa)				Max Drill Out Size		0	

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ (BBL)
		3 Joints of 4-1/2-13.5 LTC Casing	10877.32	114.92	5.000	3.920				
240		Baker Open Hole Packer	10992.24	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	10996.13	115.41	5.000	3.920				
8	8	2.125 EX Frac Sleeve	11111.54	3.90	5.750		2.025	2286	102	312
		3 Joints of 4-1/2-13.5 LTC Casing	11115.44	115.14	5.000	3.920				
242.2		Baker Open Hole Packer	11230.56	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	11234.47	114.55	5.000	3.920				
7	7	2.000 EX Frac Sleeve	11349.02	3.90	5.750		1.900	2286	90	312
		3 Joints of 4-1/2-13.5 LTC Casing	11352.92	112.81	5.000	3.920				
239		Baker Open Hole Packer	11465.73	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	11469.62	114.72	5.000	3.920				
6	6	1.875 EX Frac Sleeve	11584.34	3.90	5.750		1.775	2286	79	312
		3 Joints of 4-1/2-13.5 LTC Casing	11588.24	114.04	5.000	3.920				
240.4		Baker Open Hole Packer	11702.28	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	11706.17	113.59	5.000	3.920				
5	5	1.750 EX Frac Sleeve	11819.76	3.90	5.750		1.650	2286	68	312
		3 Joint of 4-1/2-13.5 LTC Casing	11823.66	115.72	5.000	3.920				
241		Baker Open Hole Packer	11939.38	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	11943.27	114.81	5.000	3.920				
4	4	1.625 EX Frac Sleeve	12058.08	3.90	5.750		1.525	2286	58	312
		3 Joints of 4-1/2-13.5 LTC Casing	12061.98	115.48	5.000	3.920				
242		Baker Open Hole Packer	12177.46	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	12181.35	113.24	5.000	3.920				
3	3	1.500 DBL Ball Frac Sleeve	12294.59	3.90	5.750		1.400	2286	49	312
		1 Joint of 4-1/2-13.5 LTC Casing	12298.49	38.00	5.000	3.920				
162.9		Baker Open Hole Packer	12336.49	3.89	5.820	3.875		2154		

Company Rep	Russell Berryman
Field	
BOT Service Rep	John Davis

Date 2/24/2013

District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	8,381.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,598.36	12,410	10,680	
Bott Liner											
TVD		8,151.00		KOP		7,623.00		Open Hole	6.125	Casing Vol. (bbl)	311.6
Carry Fluid Weight (ppg)			8.4		Propan Content (ppa)				Max Drill Out Size		0

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