

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 03 2014

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Mewbourne Oil Company .

Eddy County, New Mexico

Section 36-18S-29E Bradley 36 B2EH State Com #1H

Bradley 36 B2EH State Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

11 September, 2014

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 B2EH State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3442 +20 @ 3462.0usft (Patterson#41)
Site:	Section 36-18S-29E Bradley 36 B2EH State Com #1H	MD Reference:	3442 +20 @ 3462.0usft (Patterson#41)
Well:	Bradley 36 B2EH State Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 36-18S-29E Bradley 36 B2EH State Com #1H		
Site Position:		Northing:	620,690.10 usft
From:	Map	Easting:	591,536.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 42' 21.678 N
		Longitude:	104° 2' 8.692 W
		Grid Convergence:	0.16 °

Well	Bradley 36 B2EH State Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 620,690.10 usft
	+E/-W	0.0 usft	Easting: 591,536.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 42' 21.678 N
		Longitude:	104° 2' 8.692 W
		Ground Level:	3,442.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/14/2014	7.46	60.48	48,547

Design	Original Hole		
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Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	91.27

Survey Program		Date 9/11/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,455.0	VES Gyro Survey #1 (Original Hole)	GyroFlex	
7,495.0	12,660.0	Stryker MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.64	305.15	100.0	0.3	-0.5	-0.5	0.64	0.64	0.00
200.0	1.19	290.37	200.0	1.0	-1.9	-1.9	0.59	0.55	-14.78
300.0	2.05	289.56	299.9	2.0	-4.5	-4.6	0.86	0.86	-0.81
400.0	1.86	294.73	399.9	3.2	-7.7	-7.8	0.26	-0.19	5.17
500.0	1.88	283.22	499.8	4.3	-10.8	-10.9	0.38	0.02	-11.51
600.0	1.75	287.85	599.8	5.1	-13.8	-13.9	0.20	-0.13	4.63
700.0	1.38	291.28	699.7	6.0	-16.4	-16.5	0.38	-0.37	3.43
800.0	0.62	359.29	799.7	7.0	-17.5	-17.7	1.28	-0.76	68.01

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Well:	Bradley 36 B2EH State Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
900.0	0.98	41.00	899.7	8.2	-17.0	-17.2	0.66	0.36	41.71
1,000.0	1.99	58.87	999.7	9.8	-14.9	-15.1	1.10	1.01	17.87
1,100.0	2.01	65.05	1,099.6	11.4	-11.9	-12.1	0.22	0.02	6.18
1,200.0	1.70	69.08	1,199.6	12.7	-8.9	-9.2	0.34	-0.31	4.03
1,300.0	1.37	51.43	1,299.5	13.9	-6.6	-6.9	0.57	-0.33	-17.65
1,400.0	1.01	63.12	1,399.5	15.1	-4.8	-5.2	0.43	-0.36	11.69
1,500.0	1.31	59.76	1,499.5	16.1	-3.1	-3.4	0.31	0.30	-3.36
1,600.0	1.12	64.88	1,599.5	17.0	-1.2	-1.6	0.22	-0.19	5.12
1,700.0	1.27	62.26	1,699.5	18.0	0.7	0.3	0.16	0.15	-2.62
1,800.0	1.20	48.25	1,799.4	19.2	2.4	2.0	0.31	-0.07	-14.01
1,900.0	1.10	33.71	1,899.4	20.7	3.8	3.3	0.31	-0.10	-14.54
2,000.0	1.10	14.71	1,999.4	22.4	4.5	4.0	0.36	0.00	-19.00
2,100.0	1.32	0.71	2,099.4	24.5	4.8	4.2	0.37	0.22	-14.00
2,200.0	1.31	353.19	2,199.3	26.8	4.7	4.1	0.17	-0.01	-7.52
2,300.0	1.37	349.53	2,299.3	29.1	4.3	3.7	0.10	0.06	-3.66
2,400.0	1.51	336.12	2,399.3	31.5	3.6	2.9	0.36	0.14	-13.41
2,500.0	1.59	344.49	2,499.2	34.0	2.7	1.9	0.24	0.08	8.37
2,600.0	1.40	342.69	2,599.2	36.5	1.9	1.1	0.20	-0.19	-1.80
2,700.0	1.65	348.45	2,699.2	39.1	1.3	0.4	0.29	0.25	5.76
2,800.0	2.01	350.74	2,799.1	42.2	0.7	-0.2	0.37	0.36	2.29
2,900.0	1.93	340.53	2,899.1	45.5	-0.1	-1.2	0.36	-0.08	-10.21
3,000.0	1.51	355.20	2,999.0	48.4	-0.8	-1.9	0.61	-0.42	14.67
3,100.0	1.30	336.92	3,099.0	50.8	-1.4	-2.5	0.49	-0.21	-18.28
3,200.0	1.68	337.39	3,199.0	53.2	-2.4	-3.6	0.38	0.38	0.47
3,300.0	1.66	327.65	3,298.9	55.8	-3.7	-5.0	0.28	-0.02	-9.74
3,400.0	1.90	326.25	3,398.9	58.4	-5.4	-6.7	0.24	0.24	-1.40
3,500.0	1.92	321.41	3,498.8	61.1	-7.4	-8.7	0.16	0.02	-4.84
3,600.0	1.96	316.18	3,598.8	63.6	-9.6	-11.0	0.18	0.04	-5.23
3,700.0	1.66	309.33	3,698.7	65.8	-11.9	-13.4	0.37	-0.30	-6.85
3,800.0	1.42	304.94	3,798.7	67.4	-14.0	-15.5	0.27	-0.24	-4.39
3,900.0	1.27	298.64	3,898.6	68.6	-16.0	-17.6	0.21	-0.15	-6.30
4,000.0	1.55	297.19	3,998.6	69.8	-18.2	-19.8	0.28	0.28	-1.45
4,100.0	1.10	305.12	4,098.6	71.0	-20.2	-21.8	0.48	-0.45	7.93
4,200.0	1.15	308.27	4,198.6	72.1	-21.8	-23.4	0.08	0.05	3.15
4,300.0	1.17	293.62	4,298.5	73.2	-23.5	-25.1	0.30	0.02	-14.65
4,400.0	0.78	303.66	4,398.5	73.9	-25.0	-26.6	0.42	-0.39	10.04
4,500.0	0.59	301.52	4,498.5	74.6	-26.0	-27.7	0.19	-0.19	-2.14
4,600.0	0.87	312.07	4,598.5	75.4	-27.0	-28.7	0.31	0.28	10.55
4,700.0	0.73	317.45	4,698.5	76.3	-28.0	-29.7	0.16	-0.14	5.38
4,800.0	0.66	321.54	4,798.5	77.3	-28.8	-30.5	0.09	-0.07	4.09
4,900.0	0.55	327.52	4,898.5	78.1	-29.4	-31.1	0.13	-0.11	5.98
5,000.0	1.13	326.91	4,998.5	79.4	-30.2	-32.0	0.58	0.58	-0.61

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	0.76	331.91	5,098.5	80.8	-31.1	-32.8	0.38	-0.37	5.00
5,200.0	1.39	321.48	5,198.5	82.3	-32.1	-33.9	0.66	0.63	-10.43
5,300.0	1.28	309.31	5,298.4	84.0	-33.7	-35.6	0.30	-0.11	-12.17
5,400.0	0.89	329.12	5,398.4	85.3	-35.0	-36.9	0.54	-0.39	19.81
5,500.0	1.42	318.76	5,498.4	86.9	-36.2	-38.1	0.57	0.53	-10.36
5,600.0	0.74	304.62	5,598.4	88.2	-37.6	-39.5	0.73	-0.68	-14.14
5,700.0	0.51	305.01	5,698.4	88.8	-38.5	-40.4	0.23	-0.23	0.39
5,800.0	1.15	309.56	5,798.4	89.7	-39.6	-41.6	0.64	0.64	4.55
5,900.0	0.95	300.38	5,898.3	90.8	-41.1	-43.1	0.26	-0.20	-9.18
6,000.0	1.52	302.32	5,998.3	91.9	-42.9	-45.0	0.57	0.57	1.94
6,100.0	1.97	298.41	6,098.3	93.5	-45.6	-47.6	0.47	0.45	-3.91
6,200.0	2.04	284.60	6,198.2	94.7	-48.8	-50.9	0.49	0.07	-13.81
6,300.0	2.22	288.04	6,298.1	95.8	-52.4	-54.5	0.22	0.18	3.44
6,400.0	2.37	286.76	6,398.1	97.0	-56.2	-58.3	0.16	0.15	-1.28
6,500.0	2.60	281.66	6,498.0	98.0	-60.4	-62.5	0.32	0.23	-5.10
6,600.0	2.22	290.81	6,597.9	99.2	-64.4	-66.6	0.54	-0.38	9.15
6,700.0	2.10	283.52	6,697.8	100.3	-68.0	-70.2	0.30	-0.12	-7.29
6,800.0	1.70	278.20	6,797.7	100.9	-71.3	-73.5	0.44	-0.40	-5.32
6,900.0	1.28	256.53	6,897.7	100.9	-73.8	-76.0	0.70	-0.42	-21.67
7,000.0	0.98	246.75	6,997.7	100.3	-75.7	-77.9	0.36	-0.30	-9.78
7,100.0	0.68	234.17	7,097.7	99.6	-76.9	-79.1	0.35	-0.30	-12.58
7,200.0	0.47	228.26	7,197.7	99.0	-77.7	-79.9	0.22	-0.21	-5.91
7,300.0	0.39	196.03	7,297.7	98.4	-78.1	-80.3	0.25	-0.08	-32.23
7,400.0	1.02	178.14	7,397.7	97.2	-78.2	-80.3	0.66	0.63	-17.89
7,455.0	1.26	159.48	7,452.7	96.1	-78.0	-80.1	0.80	0.44	-33.93
7455' MD VES Gyro Survey									
7,495.0	1.80	120.50	7,492.6	95.4	-77.3	-79.4	2.85	1.35	-97.45
7,527.0	5.40	106.40	7,524.6	94.7	-75.4	-77.5	11.50	11.25	-44.06
7,559.0	10.60	106.60	7,556.3	93.4	-71.1	-73.2	16.25	16.25	0.63
7,591.0	14.90	106.40	7,587.5	91.4	-64.4	-66.4	13.44	13.44	-0.63
7,623.0	18.40	106.30	7,618.1	88.8	-55.6	-57.5	10.94	10.94	-0.31
7,655.0	20.70	107.00	7,648.3	85.8	-45.3	-47.2	7.22	7.19	2.19
7,686.0	23.40	106.30	7,677.0	82.4	-34.2	-36.0	8.75	8.71	-2.26
7,718.0	26.80	104.20	7,706.0	78.9	-21.1	-22.8	10.98	10.63	-6.56
7,749.0	30.20	103.60	7,733.2	75.3	-6.7	-8.4	11.01	10.97	-1.94
7,781.0	32.90	103.60	7,760.5	71.4	9.6	8.0	8.44	8.44	0.00
7,812.0	34.90	103.80	7,786.2	67.3	26.4	24.9	6.46	6.45	0.65
7,844.0	37.10	102.90	7,812.1	63.0	44.7	43.3	7.07	6.88	-2.81
7,876.0	39.50	102.20	7,837.2	58.7	64.0	62.7	7.62	7.50	-2.19
7,907.0	41.90	101.50	7,860.7	54.5	83.8	82.6	7.88	7.74	-2.26
7,939.0	44.20	101.30	7,884.1	50.2	105.2	104.1	7.20	7.19	-0.63
7,970.0	47.00	100.80	7,905.8	45.9	127.0	125.9	9.11	9.03	-1.61
8,002.0	49.40	100.80	7,927.1	41.5	150.4	149.4	7.50	7.50	0.00

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,033.0	51.40	101.00	7,946.9	37.0	173.8	173.0	6.47	6.45	0.65
8,065.0	54.30	101.20	7,966.2	32.1	198.9	198.1	9.08	9.06	0.63
8,096.0	57.70	101.70	7,983.5	26.9	224.1	223.4	11.05	10.97	1.61
8,128.0	60.00	102.00	8,000.1	21.3	250.9	250.3	7.23	7.19	0.94
8,159.0	61.90	102.20	8,015.1	15.6	277.4	276.9	6.15	6.13	0.65
8,191.0	64.80	102.00	8,029.5	9.6	305.3	305.0	9.08	9.06	-0.63
8,223.0	67.50	101.70	8,042.4	3.6	334.0	333.8	8.48	8.44	-0.94
8,254.0	70.00	101.00	8,053.6	-2.0	362.3	362.2	8.33	8.06	-2.26
8,286.0	72.90	98.40	8,063.8	-7.1	392.2	392.2	11.89	9.06	-8.13
8,317.0	75.60	96.20	8,072.2	-10.9	421.8	421.9	11.07	8.71	-7.10
8,349.0	77.70	95.40	8,079.6	-14.1	452.7	452.9	7.00	6.56	-2.50
8,383.0	81.30	94.70	8,085.8	-17.0	486.0	486.3	10.78	10.59	-2.06
8,453.0	87.50	90.30	8,092.7	-20.0	555.6	555.9	10.84	8.86	-6.29
8,485.0	88.10	89.00	8,093.9	-19.8	587.6	587.9	4.47	1.88	-4.06
8,548.0	88.50	88.20	8,095.7	-18.3	650.5	650.8	1.42	0.63	-1.27
8,611.0	88.10	89.00	8,097.6	-16.8	713.5	713.7	1.42	-0.63	1.27
8,675.0	90.30	90.30	8,098.5	-16.4	777.5	777.6	3.99	3.44	2.03
8,738.0	91.50	89.70	8,097.5	-16.4	840.4	840.6	2.13	1.90	-0.95
8,801.0	90.20	90.80	8,096.6	-16.7	903.4	903.6	2.70	-2.06	1.75
8,865.0	88.80	92.20	8,097.1	-18.3	967.4	967.6	3.09	-2.19	2.19
8,928.0	88.20	92.40	8,098.8	-20.9	1,030.3	1,030.5	1.00	-0.95	0.32
8,991.0	87.50	92.00	8,101.2	-23.3	1,093.2	1,093.5	1.28	-1.11	-0.63
9,054.0	88.20	92.90	8,103.5	-26.0	1,156.1	1,156.4	1.81	1.11	1.43
9,149.0	88.00	93.10	8,106.7	-30.9	1,251.0	1,251.3	0.30	-0.21	0.21
9,244.0	89.50	92.70	8,108.7	-35.7	1,345.8	1,346.3	1.63	1.58	-0.42
9,339.0	88.90	94.00	8,110.1	-41.3	1,440.6	1,441.2	1.51	-0.63	1.37
9,434.0	89.30	91.50	8,111.6	-45.8	1,535.5	1,536.1	2.66	0.42	-2.63
9,530.0	86.10	90.30	8,115.4	-47.4	1,631.4	1,632.1	3.56	-3.33	-1.25
9,625.0	88.90	90.10	8,119.6	-47.7	1,726.3	1,726.9	2.95	2.95	-0.21
9,720.0	91.00	89.70	8,119.6	-47.5	1,821.3	1,821.9	2.25	2.21	-0.42
9,815.0	90.00	88.90	8,118.8	-46.4	1,916.3	1,916.8	1.35	-1.05	-0.84
9,909.0	88.50	88.30	8,120.0	-44.1	2,010.2	2,010.7	1.72	-1.60	-0.64
10,004.0	87.40	90.30	8,123.4	-42.9	2,105.2	2,105.6	2.40	-1.16	2.11
10,099.0	86.90	91.00	8,128.2	-44.0	2,200.0	2,200.5	0.90	-0.53	0.74
10,194.0	88.40	91.00	8,132.1	-45.6	2,295.0	2,295.4	1.58	1.58	0.00
10,288.0	90.00	91.00	8,133.4	-47.3	2,388.9	2,389.4	1.70	1.70	0.00
10,383.0	88.80	90.40	8,134.4	-48.4	2,483.9	2,484.4	1.41	-1.26	-0.63
10,478.0	88.20	88.90	8,136.9	-47.9	2,578.9	2,579.3	1.70	-0.63	-1.58
10,573.0	91.10	89.90	8,137.4	-46.9	2,673.9	2,674.2	3.23	3.05	1.05
10,667.0	91.80	91.00	8,135.1	-47.6	2,767.8	2,768.2	1.39	0.74	1.17
10,762.0	91.10	91.10	8,132.7	-49.3	2,862.8	2,863.2	0.74	-0.74	0.11
10,857.0	88.40	94.00	8,133.1	-53.6	2,957.7	2,958.1	4.17	-2.84	3.05

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 B2EH State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3442 +20 @ 3462.0usft (Patterson#41)
Site:	Section 36-18S-29E Bradley 36 B2EH State Com #1H	MD Reference:	3442 +20 @ 3462.0usft (Patterson#41)
Well:	Bradley 36 B2EH State Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,952.0	87.60	92.90	8,136.4	-59.3	3,052.4	3,053.0	1.43	-0.84	-1.16
11,047.0	85.90	91.00	8,141.8	-62.5	3,147.2	3,147.8	2.68	-1.79	-2.00
11,142.0	88.70	89.90	8,146.2	-63.3	3,242.1	3,242.7	3.17	2.95	-1.16
11,237.0	87.10	87.80	8,149.7	-61.3	3,337.0	3,337.5	2.78	-1.68	-2.21
11,332.0	89.20	89.40	8,152.8	-59.0	3,431.9	3,432.4	2.78	2.21	1.68
11,427.0	88.70	91.00	8,154.5	-59.4	3,526.9	3,527.3	1.76	-0.53	1.68
11,522.0	89.30	90.80	8,156.2	-60.9	3,621.9	3,622.3	0.67	0.63	-0.21
11,617.0	89.50	91.50	8,157.2	-62.8	3,716.8	3,717.3	0.77	0.21	0.74
11,712.0	89.20	92.70	8,158.3	-66.2	3,811.8	3,812.3	1.30	-0.32	1.26
11,806.0	87.10	92.60	8,161.3	-70.6	3,905.6	3,906.2	2.24	-2.23	-0.11
11,901.0	90.00	92.90	8,163.7	-75.1	4,000.5	4,001.1	3.07	3.05	0.32
11,996.0	89.90	94.50	8,163.8	-81.3	4,095.3	4,096.1	1.69	-0.11	1.68
12,091.0	90.70	93.30	8,163.3	-87.7	4,190.0	4,191.0	1.52	0.84	-1.26
12,186.0	88.30	94.30	8,164.1	-94.0	4,284.8	4,285.9	2.74	-2.53	1.05
12,281.0	87.30	94.30	8,167.8	-101.1	4,379.5	4,380.6	1.05	-1.05	0.00
12,376.0	86.50	94.10	8,172.9	-108.1	4,474.1	4,475.4	0.87	-0.84	-0.21
12,471.0	87.80	92.00	8,177.6	-113.1	4,568.8	4,570.2	2.60	1.37	-2.21
12,566.0	87.60	91.50	8,181.4	-116.0	4,663.7	4,665.1	0.57	-0.21	-0.53
12,604.0	87.60	91.50	8,183.0	-117.0	4,701.7	4,703.1	0.00	0.00	0.00
12,660.0	87.60	91.50	8,185.4	-118.5	4,757.6	4,759.1	0.00	0.00	0.00
12660' MD Projected to Bit									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,455.0	7,452.7	96.1	-78.0	7455' MD VES Gyro Survey
12,660.0	8,185.4	-118.5	4,757.6	12660' MD Projected to Bit



Company: Mewbourne Oil
Lease/Well: Bradley 36 B2EH State Com /1H

Rig Name: Patterson 41
State/County: New Mexico/Eddy
Latitude: 32.71, Longitude: -104.04
GRID North is 0.16 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB=16 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

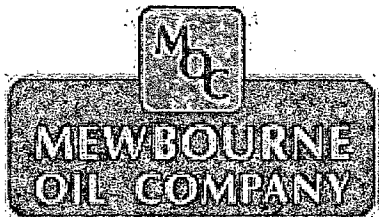
Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 8/11/2014 / 09:44

VES Survey International
West Texas
(432) 563-5444
Surveyor: Adam Gathright
Bradley 36 B2EH State Com 1H / API 30-015-42403

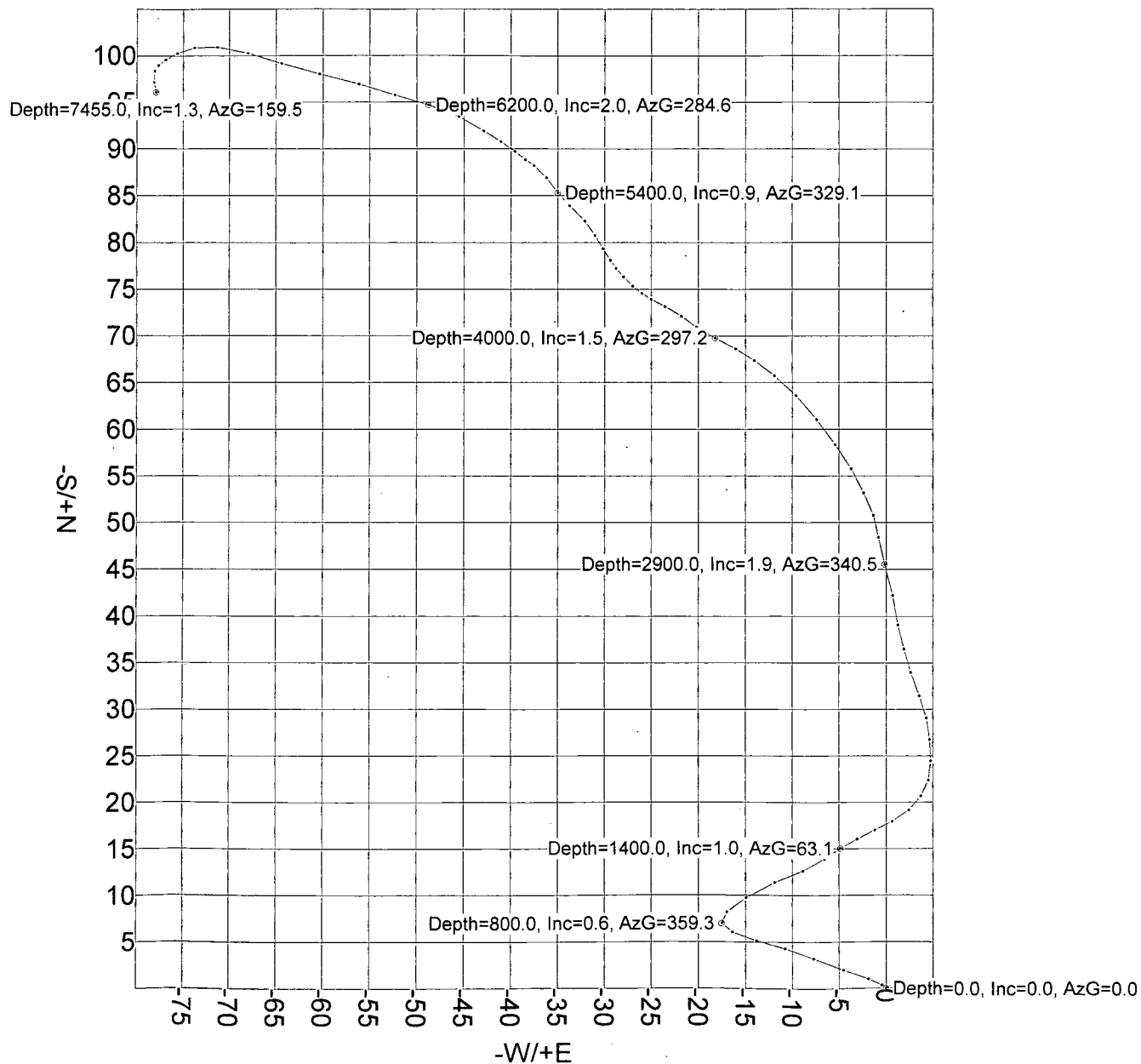
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.64	305.15	100.00	0.32	-0.46	0.32	0.56	305.15	0.64
200.00	1.19	290.37	199.98	1.00	-1.89	1.00	2.14	298.02	0.60
300.00	2.05	289.56	299.94	1.97	-4.55	1.97	4.96	293.37	0.86
400.00	1.86	294.73	399.89	3.24	-7.71	3.24	8.36	292.82	0.26
500.00	1.88	283.22	499.83	4.30	-10.78	4.30	11.60	291.74	0.38
600.00	1.75	287.85	599.78	5.14	-13.83	5.14	14.75	290.39	0.19
700.00	1.38	291.28	699.75	6.05	-16.40	6.05	17.48	290.23	0.38
800.00	0.62	359.29	799.73	7.02	-17.53	7.02	18.89	291.83	1.28
900.00	0.98	41.00	899.72	8.21	-16.98	8.21	18.86	295.79	0.66
1000.00	1.99	58.87	999.69	9.75	-14.94	9.75	17.83	303.13	1.10
1100.00	2.01	65.05	1099.63	11.39	-11.86	11.39	16.44	313.84	0.22
1200.00	1.70	69.08	1199.58	12.66	-8.88	12.66	15.46	324.96	0.34
1300.00	1.37	51.43	1299.54	13.93	-6.56	13.93	15.40	334.80	0.57
1400.00	1.01	63.12	1399.52	15.07	-4.84	15.07	15.83	342.20	0.43
1500.00	1.31	59.76	1499.50	16.04	-3.07	16.04	16.34	349.16	0.31
1600.00	1.12	64.88	1599.48	17.03	-1.20	17.03	17.08	355.97	0.21
1700.00	1.27	62.26	1699.45	17.97	0.67	17.97	17.98	2.13	0.16
1800.00	1.20	48.25	1799.43	19.18	2.43	19.18	19.33	7.23	0.31

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	1.10	33.71	1899.41	20.68	3.75	20.68	21.01	10.27	0.31
2000.00	1.10	14.71	1999.39	22.40	4.52	22.40	22.85	11.41	0.36
2100.00	1.32	0.71	2099.37	24.48	4.78	24.48	24.94	11.05	0.37
2200.00	1.31	353.19	2199.34	26.76	4.66	26.76	27.16	9.87	0.17
2300.00	1.37	349.53	2299.32	29.08	4.30	29.08	29.40	8.42	0.10
2400.00	1.51	336.12	2399.29	31.46	3.55	31.46	31.66	6.44	0.36
2500.00	1.59	344.49	2499.25	34.00	2.65	34.00	34.10	4.46	0.24
2600.00	1.40	342.69	2599.21	36.50	1.92	36.50	36.55	3.00	0.19
2700.00	1.65	348.45	2699.18	39.08	1.26	39.08	39.10	1.85	0.29
2800.00	2.01	350.74	2799.13	42.22	0.69	42.22	42.22	0.94	0.37
2900.00	1.93	340.53	2899.07	45.54	-0.15	45.54	45.54	359.81	0.36
3000.00	1.51	355.20	2999.02	48.44	-0.82	48.44	48.45	359.03	0.60
3100.00	1.30	336.92	3098.99	50.80	-1.38	50.80	50.82	358.45	0.49
3200.00	1.68	337.39	3198.96	53.20	-2.38	53.20	53.25	357.43	0.38
3300.00	1.66	327.65	3298.92	55.77	-3.72	55.77	55.90	356.18	0.28
3400.00	1.90	326.25	3398.87	58.38	-5.42	58.38	58.63	354.70	0.25
3500.00	1.92	321.41	3498.81	61.06	-7.38	61.06	61.51	353.11	0.16
3600.00	1.96	316.18	3598.76	63.60	-9.61	63.60	64.33	351.41	0.18
3700.00	1.66	309.33	3698.71	65.76	-11.91	65.76	66.83	349.73	0.37
3800.00	1.42	304.94	3798.67	67.38	-14.05	67.38	68.83	348.22	0.27
3900.00	1.27	298.64	3898.64	68.62	-16.04	68.62	70.47	346.85	0.21
4000.00	1.55	297.19	3998.61	69.77	-18.21	69.77	72.11	345.37	0.28
4100.00	1.10	305.12	4098.59	70.94	-20.20	70.94	73.76	344.11	0.48
4200.00	1.15	308.27	4198.57	72.12	-21.77	72.12	75.33	343.20	0.07
4300.00	1.17	293.62	4298.55	73.15	-23.50	73.15	76.83	342.19	0.30
4400.00	0.78	303.66	4398.53	73.93	-25.00	73.93	78.04	341.32	0.43
4500.00	0.59	301.52	4498.53	74.57	-26.00	74.57	78.98	340.78	0.19
4600.00	0.87	312.07	4598.52	75.35	-27.00	75.35	80.04	340.29	0.31
4700.00	0.73	317.45	4698.51	76.33	-27.99	76.33	81.30	339.86	0.16
4800.00	0.66	321.54	4798.50	77.24	-28.78	77.24	82.43	339.57	0.09
4900.00	0.55	327.52	4898.49	78.10	-29.39	78.10	83.44	339.38	0.12
5000.00	1.13	326.91	4998.48	79.33	-30.19	79.33	84.88	339.17	0.58
5100.00	0.76	331.91	5098.47	80.74	-31.04	80.74	86.50	338.97	0.37
5200.00	1.39	321.48	5198.45	82.27	-32.10	82.27	88.32	338.68	0.65
5300.00	1.28	309.31	5298.43	83.93	-33.72	83.93	90.45	338.11	0.30
5400.00	0.89	329.12	5398.41	85.30	-34.98	85.30	92.20	337.70	0.53
5500.00	1.42	318.76	5498.39	86.91	-36.20	86.91	94.14	337.38	0.57
5600.00	0.74	304.62	5598.37	88.20	-37.55	88.20	95.87	336.94	0.73
5700.00	0.51	305.01	5698.36	88.83	-38.45	88.83	96.79	336.60	0.23

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	1.15	309.56	5798.35	89.72	-39.58	89.72	98.06	336.19	0.64
5900.00	0.95	300.38	5898.33	90.78	-41.07	90.78	99.64	335.66	0.26
6000.00	1.52	302.32	5998.31	91.91	-42.91	91.91	101.43	334.97	0.57
6100.00	1.97	298.41	6098.26	93.43	-45.54	93.43	103.94	334.01	0.46
6200.00	2.04	284.60	6198.20	94.70	-48.77	94.70	106.52	332.75	0.49
6300.00	2.22	288.04	6298.13	95.75	-52.34	95.75	109.12	331.34	0.22
6400.00	2.37	286.76	6398.05	96.94	-56.16	96.94	112.03	329.92	0.16
6500.00	2.60	281.66	6497.96	98.00	-60.36	98.00	115.10	328.37	0.32
6600.00	2.22	290.81	6597.87	99.14	-64.39	99.14	118.22	327.00	0.54
6700.00	2.10	283.52	6697.80	100.26	-67.98	100.26	121.13	325.86	0.30
6800.00	1.70	278.20	6797.75	100.90	-71.23	100.90	123.51	324.78	0.44
6900.00	1.28	256.53	6897.71	100.85	-73.78	100.85	124.96	323.81	0.69
7000.00	0.98	246.75	6997.69	100.25	-75.64	100.25	125.59	322.96	0.35
7100.00	0.68	234.17	7097.68	99.57	-76.91	99.57	125.81	322.32	0.35
7200.00	0.47	228.26	7197.68	98.95	-77.69	98.95	125.81	321.86	0.21
7300.00	0.39	196.03	7297.68	98.35	-78.09	98.35	125.58	321.55	0.25
7400.00	1.02	178.14	7397.67	97.13	-78.16	97.13	124.67	321.18	0.66
7455.00	1.26	159.48	7452.66	96.07	-77.93	96.07	123.71	320.95	0.80



VES Survey International
West Texas
(432) 563-5444
Surveyor: Adam Gathright
Bradley 36 B2EH State Com 1H / API 30-015-42403



VES Survey Date: 07/28/2014



COMPANY: Mewbourne Oil Company
 WELL: Bradley 36 B2EH State Com #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.30°

GEODETTIC ZONE: New Mexico East 3001						
3442 +20 @ 3462.0usft (Patterson#41)						
GROUND ELEVATION: 3442.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	620690.10	591536.30	32° 42' 21.678 N	104° 2' 8.692 W	

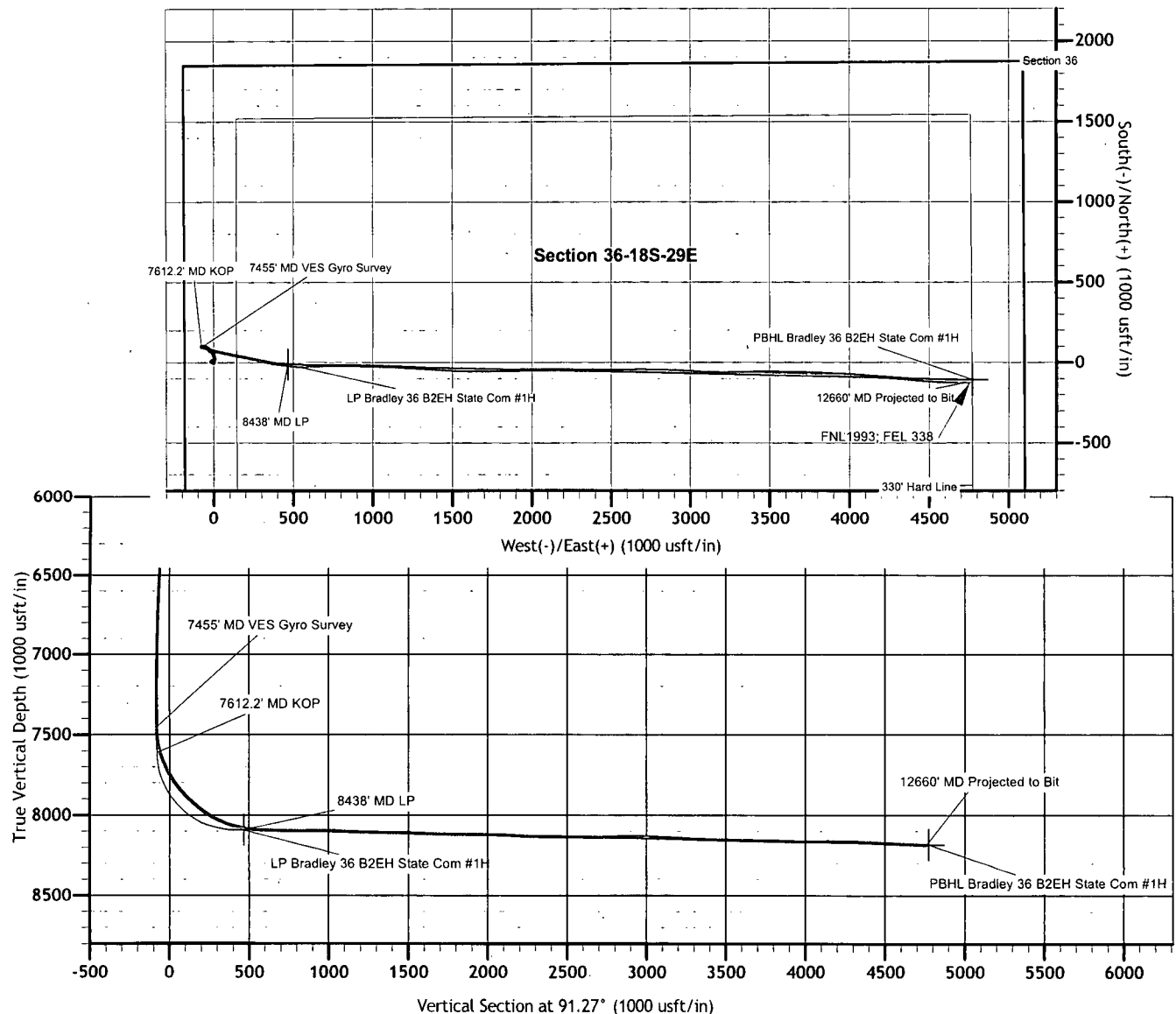
PLAN SECTIONS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	7455.0	1.26	159.48	7452.7	96.1	-78.0	0.00	0.00	-80.1
2	7612.2	1.26	159.48	7609.9	92.9	-76.8	0.00	0.00	-78.8
3	8360.3	88.80	100.44	8090.4	-2.1	389.7	11.78	-59.07	389.7
4	8438.0	88.80	91.27	8092.0	-10.0	467.0	11.78	-90.08	467.1
5	12745.1	88.80	91.27	8182.0	-105.4	4772.1	0.00	0.00	4773.3
									LP Bradley 36 B2EH State Com #1H
									PBHL Bradley 36 B2EH State Com #1H

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
LP Bradley 36 B2EH State Com #1H	8092.0	-10.0	467.0	620680.10	592003.3032° 42' 21.566 N	104° 2' 3.226 W		Point	
- plan hits target center									
PBHL Bradley 36 B2EH State Com #1H	8182.0	-105.4	4772.1	620584.70	596308.4032° 42' 20.499 N	104° 1' 12.845 W		Point	
- plan hits target center									

T G M

Azimuths to Grid North
 True North: -0.16°
 Magnetic North: 7.30°

Magnetic Field
 Strength: 48547.2snT
 Dip Angle: 60.48°
 Date: 7/14/2014
 Model: IGRF2010



Operating Company Mewbourne Oil Co.
Well Name & Number Bradley 36 B2EH #1H
Sales Ticket Number 0

Company Rep Sean & Brian
Field
BOT Service Rep BLAKE BORN



Date 8/6/2014

District Location Odessa, TX

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	110000	6.276	6.151	BTC / BUTT	0.03826	8,441.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01493	4,379.26	12,410	10,690
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	8185.00	KOP	7455.00	Open Hole	6.125	Casing Vol. (bbl)	314.6
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Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
Liner Top 1	10292414	JR Slv w 4.750" Alt Seal Bore ID	8221.74	4.55	5.750	3.913				

Zone Length

H4090400008	S-3 Casing Hanger Packer	8226.29	4.66	5.875	3.875				
H299900281	Combo Collar (4-1/2 LT&C)	8230.95	0.59	5.000	4.500				
H299710014	4-1/2" 13.5# LT&C Spacer Nipple	8231.54	7.52	4.500	3.938				
	7 Jnts 4-1/2" 13.5# LT&C csg	8239.06	295.28	3.920					
H810090200	3.500" EXPress Sleeve (Zone 20)	8534.34	2.40	5.630		3.448	2286		
	3 Jnts 4-1/2" 13.5# LT&C csg	8536.74	125.01	4.500	3.920				
H409360008	582 OH PACKER #19	8661.75	3.89	5.820	3.875		2154		
	2 Jnts 4-1/2" 13.5# LT&C csg	8665.64	84.42	4.500	3.920				
H810090199	3.438" EXPress Sleeve (Zone 19)	8750.06	2.40	5.630		3.385	2286		
	2 Jnts 4-1/2" 13.5# LT&C csg	8752.46	84.47	4.500	3.920				
H409360008	582 OH PACKER #18	8836.93	3.89	5.820	3.875		2154		
	2 Jnts 4-1/2" 13.5# LT&C csg	8840.82	84.43	4.500	3.920				
H810090198	3.375" EXPress Sleeve (Zone 18)	8925.25	2.40	5.630		3.323	2286		
	3 Jnts 4-1/2" 13.5# LT&C csg	8927.65	125.91	4.500	3.920				
H409360008	582 OH PACKER #17	9053.56	3.89	5.820	3.875		2154		
	2 Jnts 4-1/2" 13.5# LT&C csg	9057.45	84.39	4.500	3.920				
H810090197	3.313" EXPress Sleeve (Zone 17)	9141.84	2.40	5.630		3.260	2286		
	3 Jnts 4-1/2" 13.5# LT&C csg	9144.24	126.58	4.500	3.920				
H409360008	582 OH PACKER #16	9270.82	3.89	5.820	3.875		2154		
	2 Jnts 4-1/2" 13.5# LT&C csg	9274.71	84.46	4.500	3.920				
H810090196	3.250" EXPress Sleeve (Zone 16)	9359.17	2.40	5.630		3.198	2286		
	3 Jnts 4-1/2" 13.5# LT&C csg	9361.57	126.64	4.500	3.920				

Operating Company Mewbourne Oil Co.
Well Name & Number Bradley 36 b2eh #1H
Sales Ticket Number 0
Date 8/6/2014

Company Rep Shawn and Danielle
Field State com
BOT Service Rep BLAKE BORN
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	110000	6.276	6.151	BTC / BUTT	0.03826	8,441.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01493	4,379.26	12,410	10,690
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	8185.00	KOP	7455.00	Open Hole	6.125	Casing Vol. (bbl)	314.6
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Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
	H409360008	582 OH PACKER #15	9488.21	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	9492.10	84.42	4.500	3.920				
	H810090195	3.188" EXPress Sleeve (Zone 15)	9576.52	2.40	5.630		3.135	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	9578.92	126.63	4.500	3.920				
	H409360008	582 OH PACKER #14	9705.55	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	9709.44	84.44	4.500	3.920				
	H810090194	3.125" EXPress Sleeve (Zone 14)	9793.88	2.40	5.630		3.073	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	9796.28	126.63	4.500	3.920				
	H409360008	582 OH PACKER #13	9922.91	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	9926.80	83.38	4.500	3.920				
	H810090193	3.063" EXPress Sleeve (Zone 13)	10010.18	2.40	5.630		3.010	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	10012.58	126.23	4.500	3.920				
	H409360008	582 OH PACKER #12	10138.81	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	10142.70	84.45	4.500	3.920				
	H810090192	3.00" EXPress Sleeve (Zone 12)	10227.15	2.40	5.630		2.948	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	10229.55	126.65	4.500	3.920				
	H409360008	582 OH PACKER #11	10356.20	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	10360.09	84.45	4.500	3.920				
	H810090191	2.938" EXPress Sleeve (Zone 11)	10444.54	2.40	5.630		2.885	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	10446.94	126.64	4.500	3.920				
	H409360008	582 OH PACKER #10	10573.58	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	10577.47	84.07	4.500	3.920				
	H810090190	2.875" EXPress Sleeve (Zone 10)	10661.54	2.40	5.630		2.823	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	10663.94	126.26	4.500	3.920				
	H409360008	582 OH PACKER #9	10790.20	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	10794.09	84.09	4.500	3.920				

Operating Company Mewbourne Oil Co.
Well Name & Number Bradley 36 b2eh #1H
Sales Ticket Number 0
Date 8/6/2014

Company Rep Shawn and Danielle
Field State com
BOT Service Rep BLAKE BORN
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	110000	6.276	6.151	BTC / BUTT	0.03826	8,441.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01493	4,379.26	12,410	10,690
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	8185.00	KOP	7455.00	Open Hole	6.125	Casing Vol. (bbl)	314.6
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Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
	H810090189	2.813" EXPress Sleeve (Zone 9)	10878.18	2.40	5.630		2.760	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	10880.58	126.64	4.500	3.920				
	H409360008	582 OH PACKER #8	11007.22	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	11011.11	84.43	4.500	3.920				
	H810090188	2.750" EXPress Sleeve (Zone 8)	11095.54	2.40	5.630		2.698	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	11097.94	126.00	4.500	3.920				
	H409360008	582 OH PACKER #7	11223.94	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	11227.83	83.78	4.500	3.920				
	H810090187	2.688" EXPress Sleeve (Zone 7)	11311.61	2.40	5.630		2.635	2286		
		2 Jnts 4-1/2" 13.5# LT&C csg	11314.01	83.78	4.500	3.920				
	H409360008	582 OH PACKER #6	11397.79	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	11401.68	84.44	4.500	3.920				
	H810090186	2.625" EXPress Sleeve (Zone 6)	11486.12	2.40	5.630		2.573	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	11488.52	125.67	4.500	3.920				
	H409360008	582 OH PACKER #5	11614.19	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	11618.08	84.43	4.500	3.920				
	H810090185	2.563" EXPress Sleeve (Zone 5)	11702.51	2.40	5.630		2.510	2286		
		3 Jnts 4-1/2" 13.5# LT&C csg	11704.91	125.90	4.500	3.920				
	H409360008	582 OH PACKER #4	11830.81	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	11834.70	84.42	4.500	3.920				
H810090184	2.500" EXPress Sleeve (Zone 4)	11919.12	2.40	5.630		2.448	2286			
	2 Jnts 4-1/2" 13.5# LT&C csg	11921.52	83.34	4.500	3.920					
H409360008	582 OH PACKER #3	12004.86	3.89	5.820	3.875		2154			
	3 Jnts 4-1/2" 13.5# LT&C csg	12008.75	125.57	4.500	3.920					
H810090183	2.438" EXPress Sleeve (Zone 3)	12134.32	2.40	5.630		2.385	2286			
	3 Jnts 4-1/2" 13.5# LT&C csg	12136.72	126.64	4.500	3.920					

[illegible]