

30-015-43241



NM OIL CONSERVATION
ARTESIA DISTRICT
JAN 25 2016

RECEIVED

Mewbourne Oil Company

Eddy County, NM
Leo 15 Federal COM
B2DP No. 1H
Original Hole

Design: Original Hole

EOW Report

11 September, 2015



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DP No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3544.00usft (Patterson 75)
Site:	Leo 15 Federal COM	MD Reference:	Well @ 3544.00usft (Patterson 75)
Well:	B2DP No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Project	Eddy County, NM		
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	Leo 15 Federal COM		
Site Position:		Northing:	638,089.10usft
From:	Map	Easting:	612,725.00usft
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16"
		Latitude:	32° 45' 13.191 N
		Longitude:	103° 58' 0.006 W
		Grid Convergence:	0.20 °

Well	B2DP No. 1H		
Well Position	+N/-S	0.00 usft	Northing: 637,889.10 usft
	+E/-W	0.00 usft	Easting: 612,725.40 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 45' 11.212 N
		Longitude:	103° 58' 0.009 W
		Ground Level:	3,519.00usft

Wellbore	Original Hole		
-----------------	---------------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/16/15	7.29	60.50	48,473

Design	Original Hole		
---------------	---------------	--	--

Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	127.60

Survey Program		Date	09/11/15		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	7,600.00	Gyro (Original Hole)	CB-GYRO-MS	Camera based gyro multishot	
7,630.00	14,000.00	MWD (Original Hole)	MWD	MWD - Standard	

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.22	222.16	100.00	-0.02	-0.14	-0.13	0.22
200.00	0.22	207.94	200.00	0.00	-0.45	-0.35	0.05
300.00	0.36	206.42	300.00	0.09	-0.91	-0.58	0.14
400.00	0.26	244.60	400.00	0.05	-1.28	-0.92	0.22
500.00	0.40	243.77	499.99	-0.20	-1.54	-1.44	0.14
600.00	0.35	245.18	599.99	-0.50	-1.82	-2.03	0.05
700.00	0.32	227.14	699.99	-0.69	-2.14	-2.51	0.11
800.00	0.29	214.20	799.99	-0.72	-2.54	-2.86	0.07
900.00	0.27	188.06	899.99	-0.59	-2.98	-3.03	0.13
1,000.00	0.33	189.07	999.99	-0.33	-3.50	-3.11	0.06

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DP No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3544.00usft (Patterson 75)
Site:	Leo 15 Federal COM	MD Reference:	Well @ 3544.00usft (Patterson 75)
Well:	B2DP No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
1,100.00	0.37	193.16	1,099.99	-0.06	-4.09	-3.23	0.05
1,200.00	0.16	140.58	1,199.98	0.21	-4.52	-3.22	0.30
1,300.00	0.85	73.76	1,299.98	0.78	-4.42	-2.42	0.80
1,400.00	1.17	73.31	1,399.96	1.81	-3.92	-0.73	0.32
1,500.00	1.06	67.74	1,499.95	2.87	-3.27	1.11	0.15
1,600.00	0.94	63.33	1,599.93	3.70	-2.55	2.70	0.14
1,700.00	0.80	60.89	1,699.92	4.33	-1.85	4.04	0.14
1,800.00	0.70	50.85	1,799.91	4.74	-1.12	5.12	0.16
1,900.00	0.66	53.28	1,899.90	5.04	-0.39	6.06	0.05
2,000.00	0.70	55.22	1,999.90	5.38	0.30	7.02	0.05
2,100.00	0.63	47.65	2,099.89	5.66	1.02	7.93	0.11
2,200.00	0.53	44.06	2,199.88	5.81	1.72	8.66	0.11
2,300.00	0.57	44.01	2,299.88	5.92	2.41	9.33	0.04
2,400.00	0.56	38.17	2,399.87	5.98	3.16	9.97	0.06
2,500.00	0.43	28.60	2,499.87	5.92	3.87	10.45	0.15
2,600.00	0.42	15.30	2,599.87	5.72	4.55	10.73	0.10
2,700.00	0.53	352.08	2,699.86	5.26	5.36	10.76	0.22
2,800.00	0.49	332.33	2,799.86	4.54	6.20	10.50	0.18
2,900.00	0.55	12.62	2,899.86	3.95	7.05	10.41	0.36
3,000.00	0.39	355.94	2,999.85	3.52	7.86	10.49	0.21
3,100.00	0.60	337.59	3,099.85	2.84	8.68	10.27	0.26
3,200.00	0.71	340.39	3,199.84	1.86	9.75	9.86	0.11
3,300.00	0.81	342.54	3,299.83	0.76	11.00	9.44	0.10
3,400.00	0.80	348.35	3,399.82	-0.35	12.36	9.08	0.08
3,500.00	0.74	346.80	3,499.82	-1.37	13.67	8.80	0.06
3,600.00	0.84	347.81	3,599.81	-2.43	15.02	8.49	0.10
3,700.00	0.66	359.60	3,699.80	-3.35	16.31	8.34	0.24
3,800.00	0.82	336.57	3,799.79	-4.33	17.54	8.05	0.33
3,900.00	0.95	333.44	3,899.78	-5.70	18.94	7.39	0.14
4,000.00	1.12	340.51	3,999.76	-7.27	20.61	6.69	0.21
4,100.00	1.37	330.91	4,099.74	-9.19	22.57	5.79	0.32
4,200.00	1.46	328.74	4,199.71	-11.47	24.71	4.54	0.10
4,300.00	1.53	330.06	4,299.67	-13.89	26.95	3.22	0.08
4,400.00	1.20	343.81	4,399.64	-15.97	29.11	2.26	0.46
4,500.00	1.51	334.77	4,499.62	-17.99	31.31	1.41	0.38
4,600.00	1.21	343.05	4,599.59	-20.02	33.51	0.54	0.36
4,700.00	1.42	353.30	4,699.56	-21.75	35.75	0.08	0.31
4,800.00	1.68	328.39	4,799.53	-23.98	38.23	-0.83	0.72
4,900.00	1.83	328.94	4,899.48	-26.84	40.85	-2.42	0.15
5,000.00	2.31	329.96	4,999.41	-30.19	43.96	-4.25	0.48
5,100.00	2.02	324.50	5,099.34	-33.74	47.14	-6.29	0.36
5,200.00	2.04	346.33	5,199.28	-36.82	50.30	-7.73	0.77
5,300.00	2.06	344.81	5,299.22	-39.64	53.77	-8.62	0.06
5,400.00	2.09	340.98	5,399.15	-42.59	57.23	-9.69	0.14

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DP No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3544.00usft (Patterson 75)
Site:	Leo 15 Federal COM	MD Reference:	Well @ 3544.00usft (Patterson 75)
Well:	B2DP No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
5,500.00	2.35	337.23	5,499.08	-45.90	60.84	-11.07	0.30
5,600.00	2.16	343.07	5,599.00	-49.21	64.53	-12.42	0.30
5,700.00	2.10	340.87	5,698.93	-52.28	68.07	-13.57	0.10
5,800.00	1.89	326.10	5,798.87	-55.38	71.17	-15.09	0.55
5,900.00	2.18	322.65	5,898.81	-58.78	74.05	-17.16	0.31
6,000.00	2.10	325.62	5,998.74	-62.36	77.07	-19.35	0.14
6,100.00	2.27	329.26	6,098.67	-65.94	80.29	-21.40	0.22
6,200.00	2.39	327.59	6,198.58	-69.74	83.75	-23.53	0.14
6,300.00	2.38	330.32	6,298.50	-73.61	87.31	-25.67	0.11
6,400.00	2.43	323.12	6,398.41	-77.57	90.81	-27.97	0.31
6,500.00	2.53	320.44	6,498.31	-81.77	94.21	-30.65	0.15
6,600.00	2.09	319.62	6,598.23	-85.70	97.30	-33.24	0.44
6,700.00	1.93	326.68	6,698.17	-89.08	100.10	-35.34	0.29
6,800.00	1.24	327.75	6,798.13	-91.68	102.42	-36.84	0.69
6,900.00	0.73	311.15	6,898.12	-93.33	103.75	-37.90	0.58
7,000.00	0.54	292.60	6,998.11	-94.43	104.35	-38.82	0.28
7,100.00	0.68	188.95	7,098.11	-94.60	103.95	-39.34	0.96
7,200.00	1.16	179.94	7,198.10	-93.69	102.35	-39.44	0.50
7,300.00	1.77	178.07	7,298.06	-92.09	99.80	-39.38	0.61
7,400.00	1.29	169.51	7,398.03	-90.27	97.15	-39.13	0.53
7,500.00	0.96	167.40	7,498.01	-88.79	95.22	-38.74	0.33
7,600.00	0.67	167.38	7,598.00	-87.70	93.83	-38.43	0.29
7,630.00	0.70	169.60	7,627.99	-87.43	93.48	-38.36	0.13
7,661.00	0.60	183.90	7,658.99	-87.20	93.13	-38.33	0.61
7,693.00	1.10	162.80	7,690.99	-86.85	92.67	-38.25	1.82
7,725.00	5.40	157.10	7,722.93	-85.29	90.99	-37.58	13.46
7,756.00	10.10	154.50	7,753.64	-81.59	87.19	-35.84	15.20
7,787.00	14.20	152.70	7,783.94	-75.72	81.36	-32.92	13.28
7,819.00	16.00	154.10	7,814.83	-68.22	73.90	-29.20	5.74
7,851.00	16.50	152.30	7,845.55	-60.15	65.91	-25.16	2.22
7,883.00	18.10	148.30	7,876.11	-51.37	57.66	-20.43	6.23
7,914.00	19.70	142.00	7,905.44	-41.80	49.44	-14.68	8.36
7,946.00	23.00	137.40	7,935.24	-30.41	40.59	-7.13	11.56
7,978.00	25.20	134.50	7,964.45	-17.49	31.21	1.96	7.81
8,010.00	26.40	134.70	7,993.26	-3.66	21.43	11.88	3.76
8,041.00	26.80	138.30	8,020.98	10.04	11.36	21.43	5.36
8,073.00	29.80	136.00	8,049.15	25.00	0.25	31.75	9.97
8,105.00	33.60	134.70	8,076.37	41.66	-11.70	43.58	12.06
8,137.00	37.50	133.40	8,102.40	60.15	-24.62	56.95	12.41
8,168.00	41.10	133.10	8,126.39	79.68	-38.07	71.25	11.63
8,200.00	45.80	133.90	8,149.61	101.57	-53.22	87.21	14.79
8,232.00	50.20	134.10	8,171.02	125.19	-69.74	104.31	13.76
8,263.00	54.60	134.30	8,189.93	149.58	-86.86	121.91	14.20
8,294.00	58.70	133.60	8,206.97	175.32	-104.82	140.55	13.36
8,326.00	63.40	133.00	8,222.45	203.17	-124.02	160.93	14.78

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DP No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3544.00usft (Patterson 75)
Site:	Leo 15 Federal COM	MD Reference:	Well @ 3544.00usft (Patterson 75)
Well:	B2DP No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
8,358.00	68.70	132.70	8,235.44	232.28	-143.90	182.36	16.58
8,389.00	73.50	132.20	8,245.48	261.50	-163.69	204.00	15.56
8,408.00	76.20	131.20	8,250.44	279.79	-175.89	217.69	15.09
8,481.00	81.80	127.90	8,264.37	351.37	-221.48	272.92	8.86
8,512.00	85.40	126.30	8,267.83	382.17	-240.05	297.49	12.69
8,544.00	85.90	125.20	8,270.25	414.06	-258.70	323.39	3.77
8,576.00	85.40	124.70	8,272.68	445.93	-276.97	349.54	2.21
8,607.00	86.00	125.00	8,275.00	476.81	-294.64	374.91	2.16
8,639.00	89.70	127.40	8,276.21	508.77	-313.52	400.71	13.78
8,671.00	89.90	128.20	8,276.32	540.77	-333.13	425.99	2.58
8,702.00	89.80	127.70	8,276.40	571.77	-352.20	450.43	1.64
8,734.00	89.50	127.00	8,276.59	603.77	-371.61	475.87	2.38
8,766.00	89.40	128.00	8,276.90	635.76	-391.09	501.26	3.14
8,797.00	89.30	131.60	8,277.25	666.73	-410.93	525.07	11.62
8,860.00	89.40	132.50	8,277.97	729.54	-453.12	571.85	1.44
8,924.00	89.30	136.00	8,278.69	793.09	-497.77	617.68	5.47
8,987.00	89.10	135.00	8,279.57	855.49	-542.70	661.83	1.62
9,050.00	89.10	134.20	8,280.56	918.01	-586.93	706.68	1.27
9,113.00	89.40	135.10	8,281.39	980.53	-631.20	751.50	1.51
9,176.00	89.40	138.40	8,282.05	1,042.72	-677.08	794.66	5.24
9,239.00	88.50	138.80	8,283.20	1,104.55	-724.33	836.31	1.56
<u>9,303.00</u>	88.00	138.60	<u>8,285.16</u>	1,167.32	-772.39	878.53	0.84
9,366.00	87.40	137.60	8,287.68	1,229.21	-819.24	920.57	1.85
9,429.00	88.40	137.60	8,289.99	1,291.21	-865.73	963.02	1.59
9,492.00	89.80	138.40	8,290.98	1,353.17	-912.54	1,005.17	2.56
9,556.00	90.20	137.70	8,290.98	1,416.11	-960.14	1,047.95	1.26
9,619.00	89.60	138.60	8,291.09	1,478.04	-1,007.07	1,089.99	1.72
9,682.00	88.90	138.90	8,291.92	1,539.85	-1,054.43	1,131.52	1.21
9,745.00	88.40	138.40	8,293.40	1,601.66	-1,101.71	1,173.13	1.12
9,809.00	87.70	137.00	8,295.58	1,664.63	-1,149.02	1,216.18	2.44
9,872.00	87.80	136.40	8,298.05	1,726.79	-1,194.83	1,259.35	0.96
9,936.00	88.00	136.10	8,300.40	1,790.02	-1,241.03	1,303.58	0.56
9,999.00	88.20	135.60	8,302.49	1,852.33	-1,286.21	1,347.44	0.85
10,062.00	88.00	134.80	8,304.58	1,914.74	-1,330.89	1,391.80	1.31
10,125.00	89.40	134.20	8,306.00	1,977.27	-1,375.03	1,436.72	2.42
10,188.00	90.30	132.90	8,306.17	2,039.93	-1,418.44	1,482.38	2.51
10,252.00	89.20	133.00	8,306.45	2,103.65	-1,462.04	1,529.23	1.73
10,315.00	87.90	132.90	8,308.04	2,166.35	-1,504.95	1,575.32	2.07
10,378.00	86.90	132.80	8,310.90	2,229.02	-1,547.75	1,621.46	1.60
10,441.00	85.70	132.80	8,314.97	2,291.63	-1,590.47	1,667.59	1.90
10,505.00	85.00	133.20	8,320.15	2,355.14	-1,633.97	1,714.24	1.26
10,536.00	86.90	133.90	8,322.34	2,385.89	-1,655.28	1,736.65	6.53
10,568.00	86.70	132.90	8,324.13	2,417.68	-1,677.23	1,759.87	3.18
10,600.00	89.30	133.60	8,325.25	2,449.50	-1,699.14	1,783.16	8.41

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DP No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3544.00usft (Patterson 75)
Site:	Leo 15 Federal COM	MD Reference:	Well @ 3544.00usft (Patterson 75)
Well:	B2DP No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLog (°/100usft)
10,631.00	89.80	133.80	8,325.49	2,480.32	-1,720.56	1,805.57	1.74
10,663.00	90.60	133.80	8,325.38	2,512.14	-1,742.70	1,828.67	2.50
10,694.00	90.50	133.60	8,325.08	2,542.96	-1,764.12	1,851.08	0.72
10,726.00	90.70	133.70	8,324.75	2,574.78	-1,786.21	1,874.23	0.70
10,790.00	90.50	133.00	8,324.08	2,638.45	-1,830.14	1,920.77	1.14
10,853.00	89.60	132.50	8,324.02	2,701.20	-1,872.90	1,967.03	1.63
10,916.00	89.40	133.30	8,324.57	2,763.93	-1,915.78	2,013.18	1.31
10,979.00	88.70	134.60	8,325.62	2,826.53	-1,959.50	2,058.53	2.34
11,043.00	88.90	134.50	8,326.96	2,890.04	-2,004.39	2,104.12	0.35
11,106.00	89.20	134.40	8,328.00	2,952.59	-2,048.50	2,149.09	0.50
11,169.00	88.00	133.90	8,329.54	3,015.15	-2,092.37	2,194.28	2.06
11,225.00	87.70	133.40	8,331.64	3,070.80	-2,131.00	2,234.77	1.04
11,289.00	89.90	133.90	8,332.98	3,134.43	-2,175.16	2,281.07	3.53
11,352.00	89.60	134.10	8,333.26	3,197.04	-2,218.92	2,326.38	0.57
11,415.00	89.10	133.80	8,333.97	3,259.64	-2,262.64	2,371.74	0.93
11,478.00	88.20	133.30	8,335.45	3,322.29	-2,306.04	2,417.39	1.63
11,541.00	88.00	133.10	8,337.54	3,384.95	-2,349.14	2,463.29	0.45
11,605.00	91.00	133.70	8,338.10	3,448.61	-2,393.11	2,509.78	4.78
11,668.00	90.00	133.10	8,337.55	3,511.29	-2,436.39	2,555.55	1.85
11,731.00	88.60	133.70	8,338.32	3,573.96	-2,479.67	2,601.32	2.42
11,794.00	88.30	134.50	8,340.03	3,636.53	-2,523.50	2,646.55	1.36
11,858.00	89.50	137.00	8,341.25	3,699.87	-2,569.33	2,691.19	4.33
11,921.00	88.80	137.30	8,342.19	3,761.99	-2,615.51	2,734.03	1.21
11,984.00	86.60	137.30	8,344.72	3,824.03	-2,661.77	2,776.72	3.49
12,047.00	86.20	136.70	8,348.67	3,886.06	-2,707.76	2,819.60	1.14
12,111.00	86.20	135.50	8,352.91	3,949.22	-2,753.77	2,863.88	1.87
12,123.37	86.10	135.15	8,353.75	3,961.45	-2,762.54	2,872.55	2.96
Leo 15 No. 5H TP							
12,174.00	85.70	133.70	8,357.36	4,011.59	-2,797.89	2,908.62	2.96
12,237.00	85.80	131.20	8,362.03	4,074.19	-2,840.29	2,954.98	3.96
12,269.00	88.00	128.60	8,363.77	4,106.11	-2,860.79	2,979.49	10.63
12,300.00	88.20	128.60	8,364.79	4,137.09	-2,880.12	3,003.70	0.65
12,332.00	90.20	127.80	8,365.24	4,169.08	-2,899.90	3,028.84	6.73
12,363.00	90.60	128.60	8,365.02	4,200.08	-2,919.07	3,053.20	2.89
12,427.00	89.40	128.00	8,365.02	4,264.07	-2,958.74	3,103.43	2.10
12,458.00	88.30	127.30	8,365.65	4,295.07	-2,977.67	3,127.97	4.21
12,489.00	87.60	125.90	8,366.75	4,326.04	-2,996.14	3,152.84	5.05
12,521.00	86.60	122.80	8,368.37	4,357.94	-3,014.17	3,179.22	10.17
12,552.00	86.20	120.70	8,370.32	4,388.72	-3,030.45	3,205.53	6.88
12,584.00	86.50	119.80	8,372.36	4,420.39	-3,046.54	3,233.11	2.96
12,616.00	89.00	118.40	8,373.61	4,452.01	-3,062.09	3,261.05	8.95
12,647.00	90.80	117.30	8,373.67	4,482.56	-3,076.57	3,288.46	6.80
12,679.00	94.30	116.50	8,372.24	4,513.97	-3,091.03	3,316.96	11.22
12,710.00	94.20	114.90	8,369.95	4,544.22	-3,104.43	3,344.82	5.16

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DP No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3544.00usft (Patterson 75)
Site:	Leo 15 Federal COM	MD Reference:	Well @ 3544.00usft (Patterson 75)
Well:	B2DP No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
12,742.00	92.90	112.00	8,367.97	4,575.19	-3,117.14	3,374.11	9.92
12,773.00	91.70	110.60	8,366.72	4,604.91	-3,128.39	3,402.97	5.95
12,805.00	90.70	110.00	8,366.05	4,635.46	-3,139.49	3,432.98	3.64
12,868.00	89.20	108.30	8,366.11	4,695.22	-3,160.16	3,492.49	3.60
12,932.00	89.10	108.60	8,367.06	4,755.67	-3,180.41	3,553.19	0.49
12,995.00	88.80	108.00	8,368.21	4,815.12	-3,200.19	3,613.00	1.06
13,058.00	89.90	109.10	8,368.92	4,874.66	-3,220.23	3,672.72	2.47
13,122.00	89.20	108.30	8,369.43	4,935.21	-3,240.75	3,733.34	1.66
13,185.00	88.60	107.70	8,370.64	4,994.55	-3,260.21	3,793.24	1.35
13,248.00	88.00	107.40	8,372.51	5,053.70	-3,279.20	3,853.28	1.06
13,312.00	87.70	107.00	8,374.91	5,113.65	-3,298.11	3,914.38	0.78
13,375.00	89.60	107.50	8,376.39	5,172.69	-3,316.79	3,974.52	3.12
13,438.00	89.40	106.90	8,376.94	5,231.74	-3,335.42	4,034.70	1.00
13,502.00	89.70	106.80	8,377.44	5,291.59	-3,353.97	4,095.95	0.49
13,565.00	88.90	106.80	8,378.21	5,350.48	-3,372.17	4,156.26	1.27
13,629.00	88.40	107.70	8,379.72	5,410.46	-3,391.15	4,217.36	1.61
13,692.00	88.90	109.30	8,381.21	5,469.98	-3,411.13	4,277.09	2.66
13,755.00	88.40	110.70	8,382.69	5,530.01	-3,432.67	4,336.27	2.36
13,819.00	88.70	111.00	8,384.31	5,591.28	-3,455.44	4,396.06	0.66
13,938.00	88.70	111.00	8,387.01	5,705.29	-3,498.08	4,507.13	0.00
Last Survey: 13938' MD 8387.01' TVD							
14,000.00	88.70	111.00	8,388.42	5,764.69	-3,520.29	4,564.99	0.00
TD Projected To MD: 14000' - Leo 15 No. 5H TD/PBHL							

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,938.00	8,387.01	-3,498.08	4,507.13	Last Survey: 13938' MD 8387.01' TVD
14,000.00	8,388.42	-3,520.29	4,564.99	TD Projected To MD: 14000'

Checked By: _____ Approved By: _____ Date: _____



Mewbourne Oil Company
Project: Eddy County, NM
Site: Leo 15 Federal COM
Well: B2DP No. 1H
Wellbore: Original Hole
Design: Plan #2
Lat: 32° 45' 11.212 N
Long: 103° 58' 0.009 W
Pad GL: 3519.00
KB: Well @ 3544.00usft (Patterson 75)



SECTION DETAILS

MD	Inc	Az	TVD	+N-S	+E-W	Diag	TFace	VSeal
7600.00	0.67	167.38	7598.00	93.83	-38.43	0.00	0.00	-87.69
7798.52	0.67	167.38	7796.50	91.57	-37.92	0.00	0.00	-85.91
8533.41	88.75	134.33	8269.18	-238.86	294.12	12.00	-33.06	377.54
12144.05	88.75	134.33	8348.00	-2759.12	2876.50	0.00	0.00	3962.47
12734.49	88.66	110.70	8361.53	-3074.16	3370.75	4.00	-90.48	4548.28
14039.43	88.66	110.70	8392.00	-3535.32	4591.10	0.00	0.00	5794.54

WELL DETAILS: B2DP No. 1H

+N-S	+E-W	North	Ground Level:	3519.00	Longitude
0.00	0.00	637869.10	Easting	32° 45' 11.212 N	103° 58' 0.009 W

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	North	Easting	Latitude	Longitude
Leo 15 No. 5H TP	8348.00	-2759.12	2876.50	636129.59	615621.80	32° 44' 43.810 N	103° 57' 28.442 W
Leo 15 No. 5H TD/BHL	8392.00	-3635.32	4591.10	634363.78	617316.50	32° 44' 36.068 N	103° 57' 6.398 W

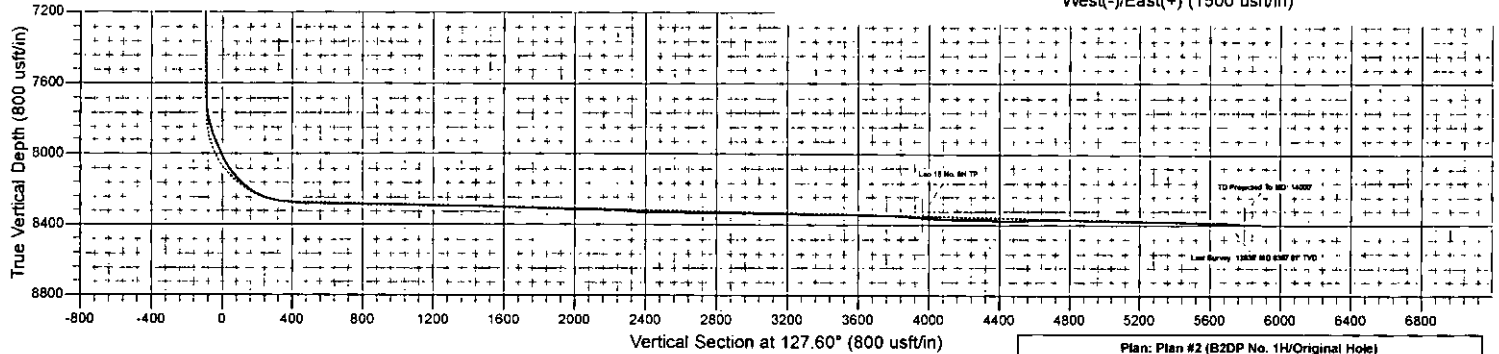
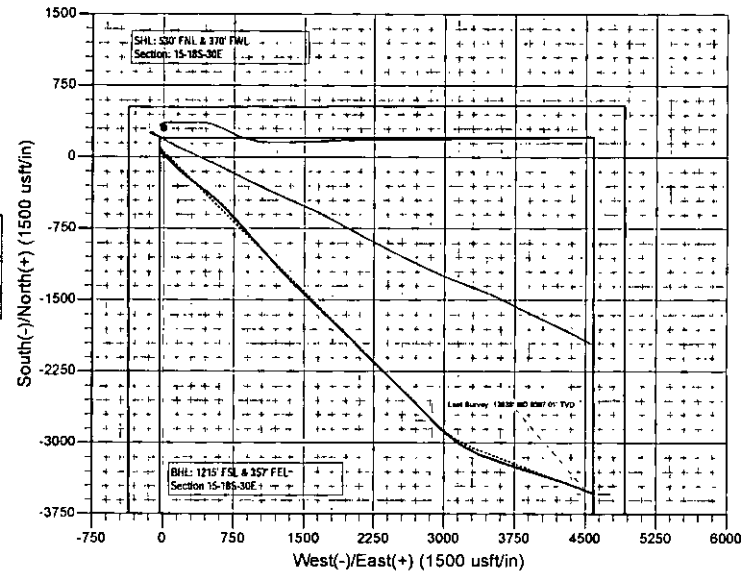
PROJECT DETAILS: Eddy County, NM

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.20°
Magnetic North: 7.10°
Magnetic Field
Strength: 48473.3nT
Dip Angle: 60.50°
Date: 2015/08/16
Model: IGRF2010

NOTE: All Lease lines and Hard lines are estimates only and are subject to the customers' approval.



Plan: Plan #2 (B2DP No. 1H/Original Hole)
Created By: Chris LeMaster Date: 9:22, September 11 2015