



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy County, NM

Leo 15 Federal COM

B2DN No. 1H

Original Hole

SL: 630 FNL & 370 FWL

BHL: 330 FSL & 990 FEL

Plan: Plan #4

Wellpath Report

22 September, 2015

Oil Conservation Division
Case No. 17
Exhibit No. 17

INWELL®
INC



Mewbourne Oil Company
 Project: Eddy County, NM
 Site: Leo 15 Federal COM
 Well: B2DN No. 1H
 Wellbore: Original Hole
 Design: Plan #4
 Lat: 32° 45' 10.223 N
 Long: 103° 58' 0.003 W
 Pad GL: 3520.00
 KB: Well @ 3545.00usft (Patterson 75)



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
7625.00	1.26	298.74	7623.23	48.54	-91.50	0.00	0.00	-97.55
7793.54	1.26	298.74	7791.73	50.32	-94.75	0.00	0.00	-101.05
8544.23	89.01	150.68	8278.00	-361.45	130.17	12.00	-148.07	354.68
11565.14	89.01	150.68	8330.00	-2994.90	1609.40	0.00	0.00	3296.77
13453.49	88.82	103.46	8367.83	-4100.99	3073.56	2.50	-90.69	5100.87
14337.49	88.82	103.46	8386.00	-4306.70	3933.10	0.00	0.00	5832.40

WELL DETAILS: B2DN No. 1H

+N/-S	+E/-W	Northing	Ground Level:	3520.00	Longitude
0.00	0.00	637789.20	Easting	612726.30	32° 45' 10.223 N
			Latitude		103° 58' 0.003 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Leo B2DN No. 1H TP	8330.00	-2994.90	1609.40	634794.30	614335.70	32° 44' 40.532 N	103° 57' 41.281 W
Leo B2DN No. 1H TD/PBHL	8386.00	-4306.70	3933.10	633482.50	616659.40	32° 44' 27.470 N	103° 57' 14.129 W

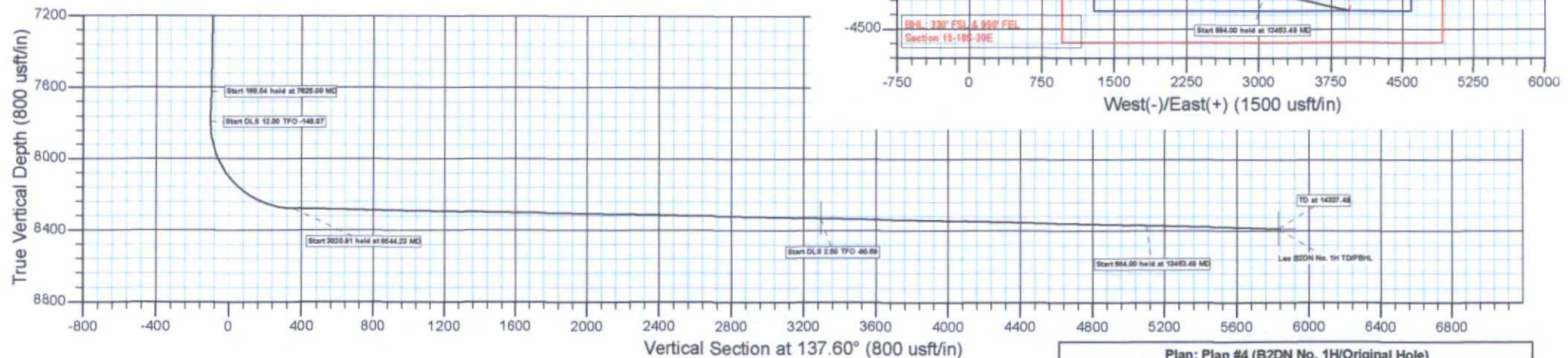
PROJECT DETAILS: Eddy County, NM

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: 7.09°
 Magnetic Field
 Strength: 48470.4nT
 Dip Angle: 60.50°
 Date: 08/26/2015
 Model: IGRF2010

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



Plan: Plan #4 (B2DN No. 1H/Original Hole)

Created By: Chris LeMaster

Date: 20:51, September 22 2015

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DN No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3545.00usft (Patterson 75)
Site:	Leo 15 Federal COM	MD Reference:	Well @ 3545.00usft (Patterson 75)
Well:	B2DN No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	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:	638,089.10 usft
From:	Map	Easting:	612,725.00 usft
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		B2DN No. 1H				
Well Position	+N/-S	0.00 usft	Northing:	637,789.20 usft	Latitude:	32° 45' 10.223 N
	+E/-W	0.00 usft	Easting:	612,726.30 usft	Longitude:	103° 58' 0.003 W
Position Uncertainty	3.30 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,520.00 usft	

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/26/15	7.29	60.50	48,470

Design	Plan #4			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	7,625.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	137.60

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Survey Calculation Method: Minimum Curvature
Database: Inwell

Survey Tool Program Date 09/22/15

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	7,625.00	Gyro (Original Hole)	CB-GYRO-MS	Camera based gyro multishot
7,625.00	14,337.49	Plan #4 (Original Hole)	MWD	MWD - Standard

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	TFace (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	637,789.20	612,726.30	0.00	0.00
100.00	0.29	305.14	100.00	0.15	-0.21	-0.25	637,789.35	612,726.09	0.29	305.14
200.00	1.24	303.24	199.99	0.88	-1.32	-1.54	637,790.08	612,724.98	0.95	-2.48
300.00	0.85	300.71	299.97	1.86	-2.86	-3.30	637,791.06	612,723.44	0.39	-174.52
400.00	1.20	314.57	399.96	2.97	-4.25	-5.06	637,792.17	612,722.05	0.43	42.37
500.00	1.33	281.44	499.93	3.94	-6.13	-7.04	637,793.14	612,720.17	0.73	-96.76
600.00	0.87	266.39	599.92	4.12	-8.02	-8.45	637,793.32	612,718.28	0.54	-155.24
700.00	1.01	316.04	699.90	4.70	-9.39	-9.81	637,793.90	612,716.91	0.80	105.68
800.00	1.05	258.74	799.89	5.16	-10.90	-11.16	637,794.36	612,715.40	0.99	-116.61
900.00	0.82	204.01	899.88	4.33	-12.09	-11.35	637,793.53	612,714.21	0.88	-130.73
1,000.00	0.44	160.29	999.87	3.31	-12.26	-10.71	637,792.51	612,714.04	0.59	-148.79
1,100.00	0.97	103.72	1,099.87	2.75	-11.30	-9.65	637,791.95	612,715.00	0.81	-83.35
1,200.00	1.04	83.63	1,199.85	2.65	-9.58	-8.42	637,791.85	612,716.72	0.36	-88.92
1,300.00	1.00	52.17	1,299.84	3.29	-7.99	-7.81	637,792.49	612,718.31	0.55	-109.71
1,400.00	1.59	74.42	1,399.81	4.19	-5.96	-7.12	637,793.39	612,720.34	0.76	51.92
1,500.00	0.82	42.98	1,499.79	5.09	-4.14	-6.55	637,794.29	612,722.16	0.99	-154.34
1,600.00	1.15	34.36	1,599.77	6.44	-3.08	-6.84	637,795.64	612,723.22	0.36	-28.53
1,700.00	0.42	58.14	1,699.76	7.46	-2.21	-7.00	637,796.66	612,724.09	0.78	167.53
1,800.00	0.93	21.42	1,799.76	8.41	-1.60	-7.29	637,797.61	612,724.70	0.64	-59.66
1,900.00	0.72	343.29	1,899.75	9.77	-1.48	-8.21	637,798.97	612,724.82	0.57	-129.28
2,000.00	0.42	204.12	1,999.74	10.04	-1.81	-8.63	637,799.24	612,724.49	1.07	-165.18

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Wellbore: Original Hole
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TVD Reference: Well @ 3545.00usft (Patterson 75)
MD Reference: Well @ 3545.00usft (Patterson 75)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Inwell

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	TFace (°)
2,100.00	0.88	151.10	2,099.74	9.03	-1.59	-7.74	637,798.23	612,724.71	0.71	-81.16
2,200.00	0.35	104.19	2,199.73	8.28	-0.92	-6.74	637,797.48	612,725.38	0.69	-158.26
2,300.00	0.90	331.95	2,299.73	8.90	-1.00	-7.25	637,798.10	612,725.30	1.16	-145.10
2,400.00	0.68	286.32	2,399.72	9.76	-1.94	-8.51	637,798.96	612,724.36	0.65	-131.13
2,500.00	0.50	277.93	2,499.72	9.99	-2.94	-9.36	637,799.19	612,723.36	0.20	-158.52
2,600.00	0.74	207.30	2,599.71	9.47	-3.67	-9.47	637,798.67	612,722.63	0.74	-110.03
2,700.00	0.76	321.32	2,699.71	9.42	-4.38	-9.91	637,798.62	612,721.92	1.26	146.51
2,800.00	0.31	279.10	2,799.70	9.98	-5.06	-10.78	637,799.18	612,721.24	0.57	-158.56
2,900.00	0.94	329.60	2,899.70	10.73	-5.74	-11.79	637,799.93	612,720.56	0.78	68.35
3,000.00	0.36	283.45	2,999.69	11.51	-6.46	-12.86	637,800.71	612,719.84	0.74	-159.40
3,100.00	0.91	329.68	3,099.68	12.27	-7.17	-13.89	637,801.47	612,719.13	0.71	67.70
3,200.00	0.92	250.01	3,199.67	12.68	-8.32	-14.98	637,801.88	612,717.98	1.17	-129.46
3,300.00	0.78	130.06	3,299.67	11.97	-8.56	-14.61	637,801.17	612,717.74	1.47	-152.70
3,400.00	0.35	137.85	3,399.66	11.30	-7.83	-13.63	637,800.50	612,718.47	0.44	173.75
3,500.00	0.54	186.03	3,499.66	10.61	-7.68	-13.01	637,799.81	612,718.62	0.40	88.57
3,600.00	0.85	304.03	3,599.66	10.55	-8.34	-13.42	637,799.75	612,717.96	1.20	141.37
3,700.00	0.89	339.59	3,699.65	11.70	-9.23	-14.86	637,800.90	612,717.07	0.53	103.68
3,800.00	0.35	339.46	3,799.64	12.71	-9.60	-15.86	637,801.91	612,716.70	0.54	-179.92
3,900.00	0.84	270.23	3,899.63	13.00	-10.44	-16.64	637,802.20	612,715.86	0.79	-93.80
4,000.00	1.04	351.28	3,999.62	13.90	-11.31	-17.89	637,803.10	612,714.99	1.23	123.43
4,100.00	0.95	291.65	4,099.61	15.10	-12.22	-19.39	637,804.30	612,714.08	0.99	-124.32
4,200.00	1.42	301.80	4,199.59	16.06	-14.05	-21.33	637,805.26	612,712.25	0.51	29.20
4,300.00	1.25	334.40	4,299.57	17.70	-15.57	-23.57	637,806.90	612,710.73	0.77	118.58
4,400.00	1.16	307.99	4,399.54	19.30	-16.84	-25.61	637,808.50	612,709.46	0.56	-112.25
4,500.00	1.15	314.83	4,499.52	20.63	-18.35	-27.61	637,809.83	612,707.95	0.14	97.56
4,600.00	0.42	292.81	4,599.51	21.48	-19.40	-28.95	637,810.68	612,706.90	0.78	-168.30
4,700.00	2.56	260.20	4,699.47	21.25	-21.94	-30.48	637,810.45	612,704.36	2.22	-38.46

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Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	TFace (°)
4,800.00	1.87	267.42	4,799.40	20.79	-25.77	-32.73	637,809.99	612,700.53	0.74	161.56
4,900.00	2.01	278.67	4,899.34	20.98	-29.13	-35.14	637,810.18	612,697.17	0.40	75.50
5,000.00	2.58	289.29	4,999.26	21.99	-32.99	-38.49	637,811.19	612,693.31	0.71	42.11
5,100.00	2.01	299.31	5,099.18	23.59	-36.64	-42.13	637,812.79	612,689.66	0.69	149.79
5,200.00	1.00	285.08	5,199.15	24.68	-39.02	-44.53	637,813.88	612,687.28	1.07	-166.71
5,300.00	1.18	291.07	5,299.13	25.28	-40.82	-46.19	637,814.48	612,685.48	0.21	35.35
5,400.00	1.62	296.11	5,399.10	26.27	-43.05	-48.43	637,815.47	612,683.25	0.46	18.16
5,500.00	1.91	304.01	5,499.05	27.82	-45.70	-51.36	637,817.02	612,680.60	0.38	43.99
5,600.00	1.52	318.27	5,599.01	29.74	-47.96	-54.31	637,818.94	612,678.34	0.58	139.40
5,700.00	1.25	302.37	5,698.98	31.32	-49.77	-56.69	637,820.52	612,676.53	0.47	-132.86
5,800.00	1.99	283.79	5,798.94	32.32	-52.38	-59.18	637,821.52	612,673.92	0.90	-44.89
5,900.00	2.34	295.78	5,898.87	33.62	-55.90	-62.52	637,822.82	612,670.40	0.57	58.40
6,000.00	1.94	304.82	5,998.80	35.47	-59.13	-66.07	637,824.67	612,667.17	0.52	144.30
6,100.00	0.83	321.76	6,098.77	37.01	-60.97	-68.44	637,826.21	612,665.33	1.17	168.08
6,200.00	0.76	338.54	6,198.76	38.19	-61.66	-69.78	637,827.39	612,664.64	0.24	115.01
6,300.00	0.44	87.04	6,298.75	38.83	-61.52	-70.16	637,828.03	612,664.78	0.99	155.12
6,400.00	1.54	280.71	6,398.74	39.10	-62.45	-70.99	637,828.30	612,663.85	1.97	-169.35
6,500.00	1.79	234.26	6,498.71	38.44	-65.04	-72.24	637,827.64	612,661.26	1.33	-103.29
6,600.00	1.50	289.92	6,598.67	37.97	-67.54	-73.58	637,827.17	612,658.76	1.56	127.30
6,700.00	2.02	278.79	6,698.62	38.69	-70.51	-76.12	637,827.89	612,655.79	0.62	-38.97
6,800.00	2.13	309.42	6,798.56	40.14	-73.69	-79.33	637,829.34	612,652.61	1.10	99.78
6,900.00	2.72	283.67	6,898.47	41.88	-77.43	-83.14	637,831.08	612,648.87	1.22	-74.83
7,000.00	2.46	289.58	6,998.37	43.16	-81.76	-87.00	637,832.36	612,644.54	0.37	137.16
7,100.00	1.46	298.64	7,098.31	44.49	-84.90	-90.10	637,833.69	612,641.40	1.04	167.28
7,200.00	0.94	16.59	7,198.30	45.88	-85.78	-91.73	637,835.08	612,640.52	1.56	143.96
7,300.00	0.81	240.79	7,298.29	46.33	-86.16	-92.31	637,835.53	612,640.14	1.62	-159.63
7,400.00	0.77	282.03	7,398.28	46.12	-87.44	-93.02	637,835.32	612,638.86	0.56	114.47

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7,500.00	1.48	300.94	7,498.26	46.92	-89.20	-94.80	637,836.12	612,637.10	0.79	37.27
7,600.00	1.15	310.89	7,598.24	48.25	-91.07	-97.04	637,837.45	612,635.23	0.40	150.22
7,625.00	1.26	298.74	7,623.23	48.54	-91.50	-97.55	637,837.74	612,634.80	1.11	-72.86
7,700.00	1.26	298.74	7,698.21	49.33	-92.95	-99.11	637,838.53	612,633.35	0.00	0.00
7,793.54	1.26	298.74	7,791.73	50.32	-94.75	-101.05	637,839.52	612,631.55	0.00	0.00
7,800.00	0.73	264.49	7,798.19	50.35	-94.85	-101.15	637,839.55	612,631.45	12.00	-148.07
7,825.00	2.79	164.49	7,823.18	49.75	-94.85	-100.70	637,838.95	612,631.45	12.00	-113.82
7,850.00	5.74	157.30	7,848.11	48.01	-94.20	-98.98	637,837.21	612,632.10	12.00	-13.84
7,875.00	8.73	155.01	7,872.90	45.14	-92.92	-95.99	637,834.34	612,633.38	12.00	-6.67
7,900.00	11.72	153.88	7,897.50	41.14	-91.00	-91.74	637,830.34	612,635.30	12.00	-4.39
7,925.00	14.72	153.20	7,921.84	36.02	-88.45	-86.24	637,825.22	612,637.85	12.00	-3.28
7,950.00	17.72	152.75	7,945.84	29.80	-85.27	-79.51	637,819.00	612,641.03	12.00	-2.62
7,975.00	20.72	152.43	7,969.45	22.50	-81.48	-71.56	637,811.70	612,644.82	12.00	-2.19
8,000.00	23.71	152.18	7,992.59	14.13	-77.09	-62.42	637,803.33	612,649.21	12.00	-1.88
8,025.00	26.71	151.99	8,015.20	4.72	-72.10	-52.11	637,793.92	612,654.20	12.00	-1.66
8,050.00	29.71	151.83	8,037.23	-5.70	-66.54	-40.66	637,783.50	612,659.76	12.00	-1.48
8,075.00	32.71	151.70	8,058.61	-17.12	-60.41	-28.10	637,772.08	612,665.89	12.00	-1.34
8,100.00	35.71	151.59	8,079.28	-29.49	-53.74	-14.46	637,759.71	612,672.56	12.00	-1.23
8,125.00	38.71	151.50	8,099.19	-42.78	-46.53	0.21	637,746.42	612,679.77	12.00	-1.14
8,150.00	41.71	151.41	8,118.28	-56.95	-38.82	15.87	637,732.25	612,687.48	12.00	-1.07
8,175.00	44.71	151.34	8,136.50	-71.97	-30.62	32.50	637,717.23	612,695.68	12.00	-1.00
8,200.00	47.71	151.27	8,153.80	-87.80	-21.96	50.03	637,701.40	612,704.34	12.00	-0.95
8,225.00	50.71	151.21	8,170.13	-104.39	-12.85	68.42	637,684.81	612,713.45	12.00	-0.90
8,250.00	53.71	151.15	8,185.45	-121.70	-3.33	87.62	637,667.50	612,722.97	12.00	-0.86
8,275.00	56.71	151.10	8,199.71	-139.68	6.58	107.58	637,649.52	612,732.88	12.00	-0.83
8,300.00	59.71	151.05	8,212.88	-158.28	16.86	128.24	637,630.92	612,743.16	12.00	-0.80
8,325.00	62.71	151.01	8,224.92	-177.44	27.47	149.55	637,611.76	612,753.77	12.00	-0.77

Company: Mewbourne Oil Company
Project: Eddy County, NM
Site: Leo 15 Federal COM
Well: B2DN No. 1H
Wellbore: Original Hole
Design: Plan #4

Local Co-ordinate Reference: Well B2DN No. 1H
TVD Reference: Well @ 3545.00usft (Patterson 75)
MD Reference: Well @ 3545.00usft (Patterson 75)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Inwell

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	TFace (°)
8,350.00	65.71	150.97	8,235.79	-197.12	38.38	171.44	637,592.08	612,764.68	12.00	-0.75
8,375.00	68.71	150.92	8,245.48	-217.27	49.58	193.87	637,571.93	612,775.88	12.00	-0.73
8,400.00	71.71	150.89	8,253.94	-237.82	61.01	216.75	637,551.38	612,787.31	12.00	-0.72
8,425.00	74.71	150.85	8,261.16	-258.73	72.66	240.05	637,530.47	612,798.96	12.00	-0.70
8,450.00	77.71	150.81	8,267.12	-279.92	84.50	263.68	637,509.28	612,810.80	12.00	-0.69
8,475.00	80.71	150.77	8,271.81	-301.36	96.48	287.58	637,487.84	612,822.78	12.00	-0.68
8,500.00	83.71	150.74	8,275.20	-322.97	108.58	311.70	637,466.23	612,834.88	12.00	-0.68
8,525.00	86.71	150.70	8,277.28	-344.69	120.76	335.96	637,444.51	612,847.06	12.00	-0.67
8,544.23	89.01	150.68	8,278.00	-361.45	130.17	354.68	637,427.75	612,856.47	12.00	-0.67
8,600.00	89.01	150.68	8,278.96	-410.06	157.47	408.99	637,379.14	612,883.77	0.00	0.00
8,700.00	89.01	150.68	8,280.68	-497.24	206.44	506.38	637,291.96	612,932.74	0.00	0.00
8,800.00	89.01	150.68	8,282.40	-584.41	255.41	603.77	637,204.79	612,981.71	0.00	0.00
8,900.00	89.01	150.68	8,284.13	-671.59	304.37	701.16	637,117.61	613,030.67	0.00	0.00
9,000.00	89.01	150.68	8,285.85	-758.76	353.34	798.55	637,030.44	613,079.64	0.00	0.00
9,100.00	89.01	150.68	8,287.57	-845.94	402.31	895.94	636,943.26	613,128.61	0.00	0.00
9,200.00	89.01	150.68	8,289.29	-933.11	451.27	993.33	636,856.09	613,177.57	0.00	0.00
9,300.00	89.01	150.68	8,291.01	-1,020.28	500.24	1,090.73	636,768.92	613,226.54	0.00	0.00
9,400.00	89.01	150.68	8,292.73	-1,107.46	549.21	1,188.12	636,681.74	613,275.51	0.00	0.00
9,500.00	89.01	150.68	8,294.45	-1,194.63	598.17	1,285.51	636,594.57	613,324.47	0.00	0.00
9,600.00	89.01	150.68	8,296.17	-1,281.81	647.14	1,382.90	636,507.39	613,373.44	0.00	0.00
9,700.00	89.01	150.68	8,297.90	-1,368.98	696.11	1,480.29	636,420.22	613,422.41	0.00	0.00
9,800.00	89.01	150.68	8,299.62	-1,456.15	745.07	1,577.68	636,333.05	613,471.37	0.00	0.00
9,900.00	89.01	150.68	8,301.34	-1,543.33	794.04	1,675.07	636,245.87	613,520.34	0.00	0.00
10,000.00	89.01	150.68	8,303.06	-1,630.50	843.01	1,772.46	636,158.70	613,569.31	0.00	0.00
10,100.00	89.01	150.68	8,304.78	-1,717.68	891.97	1,869.85	636,071.52	613,618.27	0.00	0.00
10,200.00	89.01	150.68	8,306.50	-1,804.85	940.94	1,967.24	635,984.35	613,667.24	0.00	0.00
10,300.00	89.01	150.68	8,308.22	-1,892.02	989.90	2,064.63	635,897.18	613,716.20	0.00	0.00

Company: Mewbourne Oil Company
Project: Eddy County, NM
Site: Leo 15 Federal COM
Well: B2DN No. 1H
Wellbore: Original Hole
Design: Plan #4

Local Co-ordinate Reference: Well B2DN No. 1H
TVD Reference: Well @ 3545.00usft (Patterson 75)
MD Reference: Well @ 3545.00usft (Patterson 75)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Inwell

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	TFace (°)
10,400.00	89.01	150.68	8,309.94	-1,979.20	1,038.87	2,162.02	635,810.00	613,765.17	0.00	0.00
10,500.00	89.01	150.68	8,311.67	-2,066.37	1,087.84	2,259.42	635,722.83	613,814.14	0.00	0.00
10,600.00	89.01	150.68	8,313.39	-2,153.55	1,136.80	2,356.81	635,635.65	613,863.10	0.00	0.00
10,700.00	89.01	150.68	8,315.11	-2,240.72	1,185.77	2,454.20	635,548.48	613,912.07	0.00	0.00
10,800.00	89.01	150.68	8,316.83	-2,327.89	1,234.74	2,551.59	635,461.31	613,961.04	0.00	0.00
10,900.00	89.01	150.68	8,318.55	-2,415.07	1,283.70	2,648.98	635,374.13	614,010.00	0.00	0.00
11,000.00	89.01	150.68	8,320.27	-2,502.24	1,332.67	2,746.37	635,286.96	614,058.97	0.00	0.00
11,100.00	89.01	150.68	8,321.99	-2,589.42	1,381.64	2,843.76	635,199.78	614,107.94	0.00	0.00
11,200.00	89.01	150.68	8,323.71	-2,676.59	1,430.60	2,941.15	635,112.61	614,156.90	0.00	0.00
11,300.00	89.01	150.68	8,325.44	-2,763.77	1,479.57	3,038.54	635,025.43	614,205.87	0.00	0.00
11,400.00	89.01	150.68	8,327.16	-2,850.94	1,528.54	3,135.93	634,938.26	614,254.84	0.00	0.00
11,500.00	89.01	150.68	8,328.88	-2,938.11	1,577.50	3,233.32	634,851.09	614,303.80	0.00	0.00
11,565.14	89.01	150.68	8,330.00	-2,994.90	1,609.40	3,296.77	634,794.30	614,335.70	0.00	0.00
Leo B2DN No. 1H TP										
11,600.00	89.00	149.81	8,330.60	-3,025.16	1,626.70	3,330.77	634,764.04	614,353.00	2.50	-90.69
11,700.00	88.97	147.30	8,332.37	-3,110.45	1,678.86	3,428.93	634,678.75	614,405.16	2.50	-90.68
11,800.00	88.95	144.80	8,334.18	-3,193.39	1,734.68	3,527.81	634,595.81	614,460.98	2.50	-90.63
11,900.00	88.92	142.30	8,336.04	-3,273.81	1,794.07	3,627.25	634,515.39	614,520.37	2.50	-90.59
12,000.00	88.90	139.80	8,337.94	-3,351.56	1,856.91	3,727.04	634,437.64	614,583.21	2.50	-90.54
12,100.00	88.88	137.30	8,339.87	-3,426.50	1,923.09	3,827.00	634,362.70	614,649.39	2.50	-90.49
12,200.00	88.86	134.80	8,341.84	-3,498.48	1,992.47	3,926.94	634,290.72	614,718.77	2.50	-90.45
12,300.00	88.85	132.30	8,343.84	-3,567.36	2,064.92	4,026.66	634,221.84	614,791.22	2.50	-90.40
12,400.00	88.83	129.80	8,345.87	-3,633.02	2,140.31	4,125.98	634,156.18	614,866.61	2.50	-90.35
12,500.00	88.82	127.30	8,347.92	-3,695.32	2,218.49	4,224.71	634,093.88	614,944.79	2.50	-90.30
12,600.00	88.81	124.80	8,349.99	-3,754.16	2,299.32	4,322.66	634,035.04	615,025.62	2.50	-90.24
12,700.00	88.80	122.30	8,352.07	-3,809.41	2,382.63	4,419.64	633,979.79	615,108.93	2.50	-90.19
12,800.00	88.80	119.80	8,354.16	-3,860.97	2,468.28	4,515.47	633,928.23	615,194.58	2.50	-90.14

Company: Mewbourne Oil Company
Project: Eddy County, NM
Site: Leo 15 Federal COM
Well: B2DN No. 1H
Wellbore: Original Hole
Design: Plan #4

Local Co-ordinate Reference: Well B2DN No. 1H
TVD Reference: Well @ 3545.00usft (Patterson 75)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Inwell

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	TFace (°)
12,900.00	88.80	117.30	8,356.26	-3,908.75	2,556.09	4,609.97	633,880.45	615,282.39	2.50	-90.09
13,000.00	88.80	114.80	8,358.37	-3,952.65	2,645.91	4,702.95	633,836.55	615,372.21	2.50	-90.04
13,100.00	88.80	112.30	8,360.47	-3,992.59	2,737.55	4,794.24	633,796.61	615,463.85	2.50	-89.98
13,200.00	88.80	109.80	8,362.56	-4,028.50	2,830.85	4,883.67	633,760.70	615,557.15	2.50	-89.93
13,300.00	88.81	107.30	8,364.65	-4,060.30	2,925.63	4,971.07	633,728.90	615,651.93	2.50	-89.88
13,400.00	88.82	104.80	8,366.72	-4,087.93	3,021.70	5,056.26	633,701.27	615,748.00	2.50	-89.83
13,453.49	88.82	103.46	8,367.83	-4,100.99	3,073.56	5,100.87	633,688.21	615,799.86	2.50	-89.77
13,500.00	88.82	103.46	8,368.78	-4,111.81	3,118.79	5,139.36	633,677.39	615,845.09	0.00	0.00
13,600.00	88.82	103.46	8,370.84	-4,135.08	3,216.02	5,222.11	633,654.12	615,942.32	0.00	0.00
13,700.00	88.82	103.46	8,372.89	-4,158.35	3,313.25	5,304.87	633,630.85	616,039.55	0.00	0.00
13,800.00	88.82	103.46	8,374.95	-4,181.62	3,410.49	5,387.62	633,607.58	616,136.79	0.00	0.00
13,900.00	88.82	103.46	8,377.01	-4,204.89	3,507.72	5,470.37	633,584.31	616,234.02	0.00	0.00
14,000.00	88.82	103.46	8,379.06	-4,228.16	3,604.95	5,553.12	633,561.04	616,331.25	0.00	0.00
14,100.00	88.82	103.46	8,381.12	-4,251.43	3,702.18	5,635.88	633,537.77	616,428.48	0.00	0.00
14,200.00	88.82	103.46	8,383.17	-4,274.71	3,799.42	5,718.63	633,514.49	616,525.72	0.00	0.00
14,300.00	88.82	103.46	8,385.23	-4,297.98	3,896.65	5,801.38	633,491.22	616,622.95	0.00	0.00
14,337.49	88.82	103.46	8,386.00	-4,306.70	3,933.10	5,832.40	633,482.50	616,659.40	0.00	0.00

Leo B2DN No. 1H TD/PBHL

Checked By: _____ Approved By: _____ Date: _____