

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE LEO 15 B2DN FED COM 1H
COUNTY EDDY

RIG # 75

STATE OF NEW MEXICO
DEVIATION REPORT

15-43312

403	1.30
891	1.20
1,390	1.30
1,831	0.53
2,305	0.62
2,780	0.53
3,243	0.35
3,719	0.70
4,162	1.14
4,637	0.44
5,017	2.55
5,461	1.49
5,900	2.11
6,311	0.62
6,659	2.11
6,943	2.37
7,137	1.67
7,581	1.49

STATE OF TEXAS

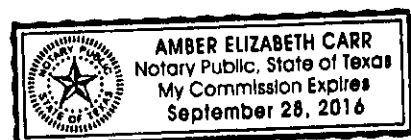
COUNTY OF MIDLAND

BY: *Dora Garcia*

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

11/10/15 , by

Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:





MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy County, NM
Leo 15 Federal COM
B2DN No. 1H
Sidetrack 2

Design: Sidetrack 2

EOW Report

22 October, 2015





MEWBOURNE
OIL COMPANY

Mewbourne Oil Company
Project: Eddy County, NM
Site: Leo 15 Federal COM
Well: B2DN No. 1H
Wellbore: Sidetrack 2
Design: Plan #2
Lat: 32° 45' 10.223 N
Long: 103° 58' 0.003 W
Pad GL: 3520.00
KB: Well @ 3545.00uaf (Patterson 75)



SECTION DETAILS

MD	INC	Asl	TVD	+N/S	+E/W	Disg	TFace	Vsect
7721.00	0.30	145.50	7719.22	48.42	-92.01	0.00	0.00	-97.58
7800.00	0.30	145.50	7798.21	47.35	-91.33	0.00	0.00	-95.58
8532.73	88.82	150.80	8268.10	-350.55	137.25	12.00	4.30	358.80
11651.14	88.82	150.80	8330.00	-2894.90	1605.40	0.00	0.00	3295.77
13453.98	88.83	103.22	8359.65	-4107.49	3085.23	2.50	-90.38	5113.55
14325.09	88.83	103.22	8368.00	-4306.70	3933.10	0.00	0.00	5632.40

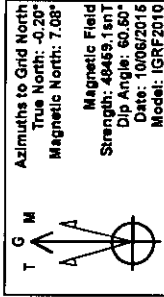
WELL DETAILS: B2DN No. 1H

+N/S	+E/W	North	East	Ground Level	Latitude	Longitude
0.00	0.00	637789.20	612776.30	3520.00	32° 45' 10.223 N	103° 58' 0.003 W

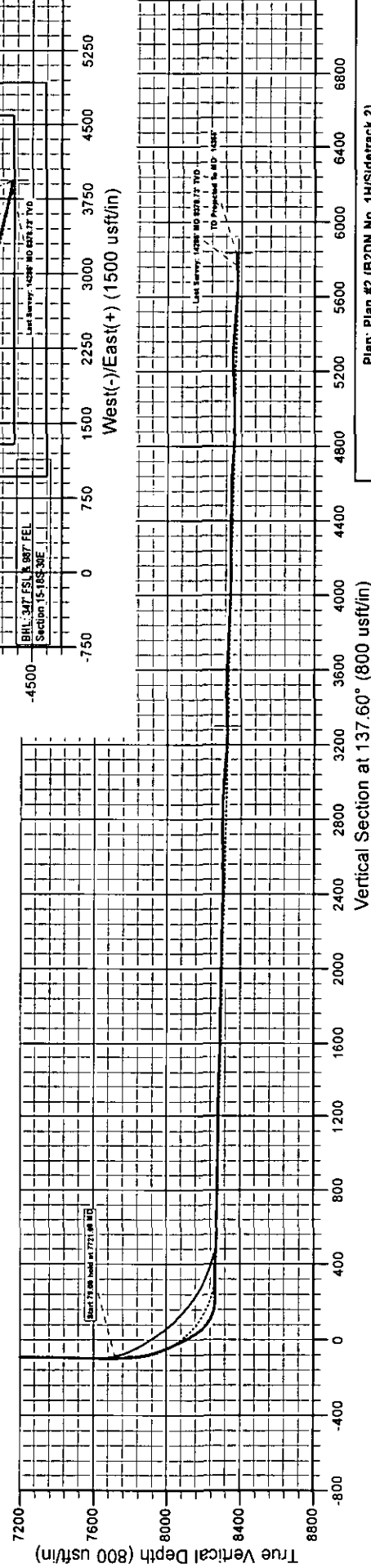
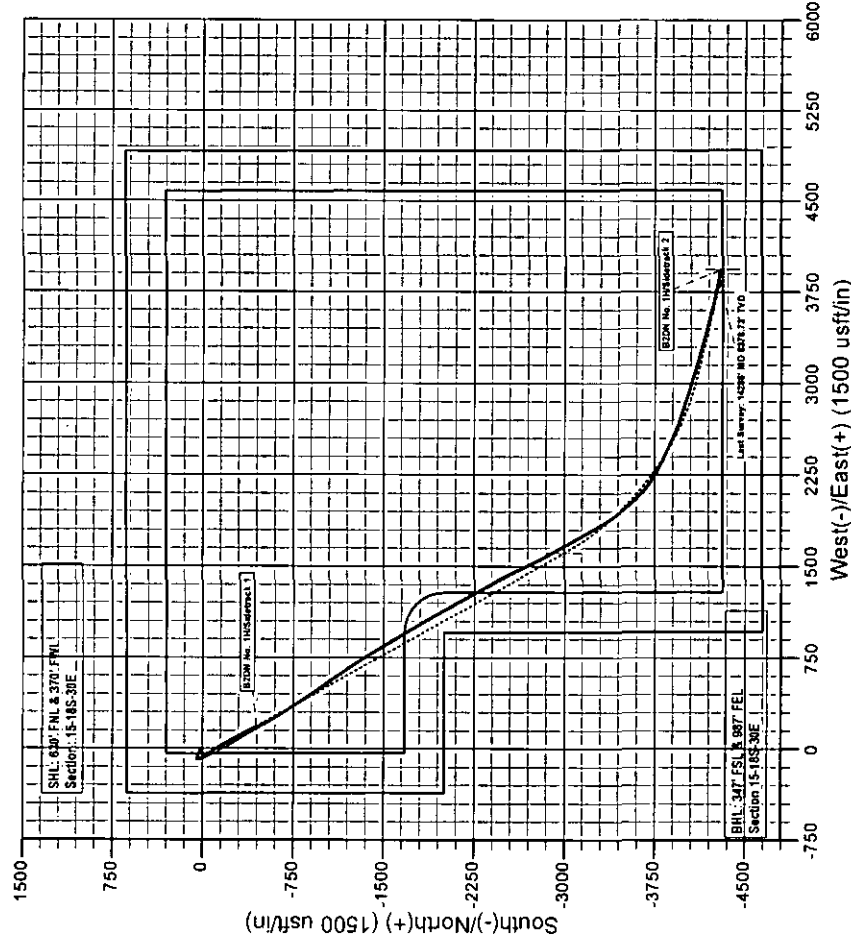
DESIGN TARGET DETAILS

Name	+N/S	+E/W	North	East	Latitude	Longitude
Leo B2DN No. 1H TP	-2994.90	1605.40	434794.30	614335.70	32° 44' 40.522 N	103° 57' 41.281 W
Leo B2DN No. 1H TD/PHL	-4306.70	3933.10	433482.00	616689.40	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



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



Vertical Section at 137.60° (800 usf/in)

Plan: Plan #2 (B2DN No. 1H/Sidetrack 2)

Created By: Chris Lellaster

Date: 11:38, October 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:	Sidetrack 2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack 2	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:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	3.30 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 45' 10.223 N
		Longitude:	103° 58' 0.003 W
		Ground Level:	3,520.00 usft

Wellbore	Sidetrack 2		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/06/15	7.28	60.50	48,459

Design	Sidetrack 2		
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Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 7,721.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	137.60

Survey Program		Date 10/22/15		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	7,625.00	Gyro (Original Hole)	CB-GYRO-MS	Camera based gyro multishot
7,721.00	7,721.00	MWD (Original Hole)	MWD	MWD - Standard
7,762.00	14,355.00	MWD (Sidetrack 2)	MWD	MWD - Standard

Survey	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	0.29	305.14	100.00	-0.25	0.15	-0.21	0.29
	200.00	1.24	303.24	199.99	-1.54	0.88	-1.32	0.95
	300.00	0.85	300.71	299.97	-3.30	1.86	-2.86	0.39
	400.00	1.20	314.57	399.96	-5.06	2.97	-4.25	0.43
	500.00	1.33	281.44	499.93	-7.04	3.94	-6.13	0.73
	600.00	0.87	266.39	599.92	-8.45	4.12	-8.02	0.54
	700.00	1.01	316.04	699.90	-9.81	4.70	-9.39	0.80
	800.00	1.05	258.74	799.89	-11.16	5.16	-10.90	0.99
	900.00	0.82	204.01	899.88	-11.35	4.33	-12.09	0.88

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DN No. 1H
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Site:	Leo 15 Federal COM	MD Reference:	Well @ 3545.00usft (Patterson 75)
Well:	B2DN No. 1H	North Reference:	Grid
Wellbore:	Sidetrack 2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack 2	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
1,000.00	0.44	160.29	999.87	-10.71	3.31	-12.26	0.59
1,100.00	0.97	103.72	1,099.87	-9.65	2.75	-11.30	0.81
1,200.00	1.04	83.63	1,199.85	-8.42	2.65	-9.58	0.36
1,300.00	1.00	52.17	1,299.84	-7.81	3.29	-7.99	0.55
1,400.00	1.59	74.42	1,399.81	-7.12	4.19	-5.96	0.76
1,500.00	0.82	42.98	1,499.79	-6.55	5.09	-4.14	0.99
1,600.00	1.15	34.36	1,599.77	-6.84	6.44	-3.08	0.36
1,700.00	0.42	58.14	1,699.76	-7.00	7.46	-2.21	0.78
1,800.00	0.93	21.42	1,799.76	-7.29	8.41	-1.60	0.64
1,900.00	0.72	343.29	1,899.75	-8.21	9.77	-1.48	0.57
2,000.00	0.42	204.12	1,999.74	-8.63	10.04	-1.81	1.07
2,100.00	0.88	151.10	2,099.74	-7.74	9.03	-1.59	0.71
2,200.00	0.35	104.19	2,199.73	-6.74	8.28	-0.92	0.69
2,300.00	0.90	331.95	2,299.73	-7.25	8.90	-1.00	1.16
2,400.00	0.68	286.32	2,399.72	-8.51	9.76	-1.94	0.65
2,500.00	0.50	277.93	2,499.72	-9.36	9.99	-2.94	0.20
2,600.00	0.74	207.30	2,599.71	-9.47	9.47	-3.67	0.74
2,700.00	0.76	321.32	2,699.71	-9.91	9.42	-4.38	1.26
2,800.00	0.31	279.10	2,799.70	-10.78	9.98	-5.06	0.57
2,900.00	0.94	329.60	2,899.70	-11.79	10.73	-5.74	0.78
3,000.00	0.36	283.45	2,999.69	-12.86	11.51	-6.46	0.74
3,100.00	0.91	329.68	3,099.68	-13.89	12.27	-7.17	0.71
3,200.00	0.92	250.01	3,199.67	-14.98	12.68	-8.32	1.17
3,300.00	0.78	130.06	3,299.67	-14.61	11.97	-8.56	1.47
3,400.00	0.35	137.85	3,399.66	-13.63	11.30	-7.83	0.44
3,500.00	0.54	186.03	3,499.66	-13.01	10.61	-7.68	0.40
3,600.00	0.85	304.03	3,599.66	-13.42	10.55	-8.34	1.20
3,700.00	0.89	339.59	3,699.65	-14.86	11.70	-9.23	0.53
3,800.00	0.35	339.46	3,799.64	-15.86	12.71	-9.60	0.54
3,900.00	0.84	270.23	3,899.63	-16.64	13.00	-10.44	0.79
4,000.00	1.04	351.28	3,999.62	-17.89	13.90	-11.31	1.23
4,100.00	0.95	291.65	4,099.61	-19.39	15.10	-12.22	0.99
4,200.00	1.42	301.80	4,199.59	-21.33	16.06	-14.05	0.51
4,300.00	1.25	334.40	4,299.57	-23.57	17.70	-15.57	0.77
4,400.00	1.16	307.99	4,399.54	-25.61	19.30	-16.84	0.56
4,500.00	1.15	314.83	4,499.52	-27.61	20.63	-18.35	0.14
4,600.00	0.42	292.81	4,599.51	-28.95	21.48	-19.40	0.78
4,700.00	2.56	260.20	4,699.47	-30.48	21.25	-21.94	2.22
4,800.00	1.87	267.42	4,799.40	-32.73	20.79	-25.77	0.74
4,900.00	2.01	278.67	4,899.34	-35.14	20.98	-29.13	0.40
5,000.00	2.58	289.29	4,999.26	-38.48	21.99	-32.99	0.71
5,100.00	2.01	299.31	5,099.18	-42.13	23.59	-36.64	0.69
5,200.00	1.00	285.08	5,199.15	-44.53	24.68	-39.02	1.07
5,300.00	1.18	291.07	5,299.13	-46.19	25.28	-40.82	0.21
5,400.00	1.62	296.11	5,399.10	-48.43	26.27	-43.05	0.46

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DN No. 1H
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Site:	Leo 15 Federal COM	MD Reference:	Well @ 3545.00usft (Patterson 75)
Well:	B2DN No. 1H	North Reference:	Grid
Wellbore:	Sidetrack 2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack 2	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
5,500.00	1.91	304.01	5,499.05	-51.36	27.82	-45.70	0.38
5,600.00	1.52	318.27	5,599.01	-54.31	29.74	-47.96	0.58
5,700.00	1.25	302.37	5,698.98	-56.69	31.32	-49.77	0.47
5,800.00	1.99	283.79	5,798.94	-59.18	32.32	-52.38	0.90
5,900.00	2.34	295.78	5,898.87	-62.52	33.62	-55.90	0.57
6,000.00	1.94	304.82	5,998.80	-66.06	35.47	-59.13	0.52
6,100.00	0.83	321.76	6,098.77	-68.44	37.01	-60.97	1.17
6,200.00	0.76	338.54	6,198.76	-69.78	38.19	-61.66	0.24
6,300.00	0.44	87.04	6,298.75	-70.16	38.83	-61.52	0.99
6,400.00	1.54	280.71	6,398.74	-70.99	39.10	-62.45	1.97
6,500.00	1.79	234.26	6,498.71	-72.24	38.44	-65.04	1.33
6,600.00	1.50	289.92	6,598.67	-73.58	37.97	-67.54	1.56
6,700.00	2.02	278.79	6,698.62	-76.11	38.69	-70.51	0.62
6,800.00	2.13	309.42	6,798.56	-79.33	40.14	-73.69	1.10
6,900.00	2.72	283.67	6,898.47	-83.14	41.88	-77.43	1.22
7,000.00	2.46	289.58	6,998.37	-87.00	43.16	-81.76	0.37
7,100.00	1.46	298.64	7,098.31	-90.10	44.49	-84.90	1.04
7,200.00	0.94	16.59	7,198.30	-91.73	45.88	-85.78	1.56
7,300.00	0.81	240.79	7,298.29	-92.31	46.33	-86.16	1.62
7,400.00	0.77	282.03	7,398.28	-93.02	46.12	-87.44	0.56
7,500.00	1.48	300.94	7,498.26	-94.80	46.92	-89.20	0.79
7,600.00	1.15	310.89	7,598.24	-97.04	48.25	-91.07	0.40
7,625.00	1.26	298.74	7,623.23	-97.54	48.54	-91.50	1.11
7,721.00	0.90	146.50	7,719.22	-97.80	48.42	-92.01	2.19
7,762.00	1.60	196.60	7,760.21	-97.19	47.60	-92.00	3.01
7,794.00	2.60	172.10	7,792.19	-96.36	46.46	-92.02	4.13
7,825.00	10.60	161.50	7,822.96	-93.17	43.05	-91.02	25.99
7,856.00	11.50	170.60	7,853.39	-87.97	37.30	-89.61	6.32
7,888.00	13.80	167.30	7,884.61	-81.98	30.43	-88.25	7.53
7,919.00	16.00	165.70	7,914.57	-74.99	22.68	-86.38	7.22
7,951.00	18.00	164.80	7,945.17	-66.71	13.63	-84.00	6.30
7,982.00	20.80	161.10	7,974.41	-57.40	3.80	-80.96	9.86
8,013.00	22.20	159.90	8,003.25	-46.93	-6.91	-77.16	4.73
8,045.00	23.80	156.50	8,032.71	-35.23	-18.51	-72.51	6.50
8,076.00	25.20	152.20	8,060.92	-22.92	-30.08	-66.94	7.31
8,107.00	26.60	150.70	8,088.80	-9.77	-41.97	-60.46	4.99
8,139.00	27.70	148.70	8,117.28	4.50	-54.58	-53.09	4.47
8,170.00	31.30	153.20	8,144.26	19.34	-67.93	-45.71	13.63
8,202.00	36.00	155.40	8,170.89	36.31	-83.91	-38.05	15.17
8,233.00	41.30	154.20	8,195.09	54.80	-101.41	-29.80	17.27
8,264.00	48.40	154.50	8,217.05	75.72	-121.11	-20.34	22.91
8,295.00	57.00	151.90	8,235.82	99.45	-143.08	-9.21	28.53
8,326.00	66.60	152.40	8,250.46	125.87	-167.21	3.54	31.00
8,362.00	78.10	153.50	8,261.35	158.89	-197.72	19.10	32.08

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Design:	Sidetrack 2	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
8,394.00	85.80	150.60	8,265.83	189.55	-225.68	33.95	25.68
<u>8,425.00</u>	89.20	148.20	8,267.18	219.86	<u>-252.33</u>	<u>49.71</u>	13.42
8,456.00	90.20	147.60	8,267.35	250.35	-278.59	66.18	3.76
8,487.00	92.30	147.40	8,266.67	280.88	-304.73	82.83	6.80
8,519.00	92.20	147.80	8,265.41	312.37	-331.73	99.97	1.29
8,550.00	89.80	149.60	8,264.87	342.79	-358.21	116.07	9.68
8,581.00	88.40	150.60	8,265.36	373.05	-385.08	131.52	5.55
8,644.00	87.30	150.60	8,267.72	434.39	-439.92	162.42	1.75
8,707.00	87.40	150.30	8,270.64	495.74	-494.67	193.46	0.50
8,770.00	88.10	149.70	8,273.11	557.23	-549.19	224.94	1.46
8,833.00	87.60	149.60	8,275.47	618.79	-603.52	256.75	0.81
8,896.00	88.60	148.20	8,277.56	680.54	-657.43	289.27	2.73
8,959.00	88.40	147.80	8,279.21	742.48	-710.84	322.64	0.71
9,022.00	88.70	147.80	8,280.80	804.46	-764.13	356.20	0.48
9,084.00	90.60	146.30	8,281.18	865.62	-816.15	389.92	3.90
9,147.00	89.20	144.60	8,281.29	928.02	-868.04	425.65	3.50
9,208.00	88.80	145.30	8,282.36	988.51	-917.97	460.67	1.32
9,271.00	89.60	145.20	8,283.24	1,050.94	-969.73	496.58	1.28
9,334.00	89.00	145.30	8,284.01	1,113.38	-1,021.49	532.49	0.97
9,396.00	90.40	145.90	8,284.33	1,174.77	-1,072.64	567.51	2.46
9,459.00	90.60	145.30	8,283.78	1,237.16	-1,124.62	603.11	1.00
9,522.00	89.60	145.50	8,283.67	1,299.57	-1,176.48	638.88	1.62
9,585.00	88.70	146.50	8,284.61	1,361.89	-1,228.70	674.10	2.14
9,648.00	87.60	146.80	8,286.64	1,424.07	-1,281.30	708.72	1.81
9,710.00	87.60	147.60	8,289.24	1,485.15	-1,333.37	742.28	1.29
9,773.00	89.00	149.40	8,291.11	1,546.98	-1,387.06	775.18	3.62
9,836.00	88.50	149.80	8,292.48	1,608.59	-1,441.38	807.05	1.02
9,899.00	88.90	149.50	8,293.91	1,670.19	-1,495.73	838.87	0.79
9,961.00	90.50	149.90	8,294.23	1,730.81	-1,549.26	870.15	2.66
10,024.00	89.90	148.90	8,294.01	1,792.47	-1,603.49	902.22	1.85
10,087.00	89.20	148.90	8,294.51	1,854.25	-1,657.43	934.76	1.11
10,150.00	88.80	148.80	8,295.61	1,916.03	-1,711.34	967.34	0.65
10,212.00	88.40	148.80	8,297.12	1,976.83	-1,764.35	999.45	0.65
10,275.00	88.30	149.00	8,298.94	2,038.58	-1,818.28	1,031.98	0.35
10,338.00	89.90	149.20	8,299.93	2,100.31	-1,872.33	1,064.33	2.56
10,401.00	89.80	149.60	8,300.09	2,161.98	-1,926.55	1,096.40	0.65
10,464.00	88.20	150.60	8,301.19	2,223.47	-1,981.16	1,127.80	2.99
10,527.00	87.90	150.80	8,303.33	2,284.80	-2,036.06	1,158.61	0.57
10,590.00	88.00	152.60	8,305.59	2,345.86	-2,091.50	1,188.46	2.86
10,653.00	88.10	152.50	8,307.73	2,406.69	-2,147.37	1,217.48	0.22
10,716.00	92.10	151.70	8,307.62	2,467.67	-2,203.04	1,246.96	6.47
10,779.00	91.70	151.20	8,305.53	2,528.80	-2,258.35	1,277.05	1.02
10,841.00	91.50	150.80	8,303.80	2,589.09	-2,312.55	1,307.09	0.72
10,903.00	90.20	150.40	8,302.88	2,649.49	-2,366.56	1,337.53	2.19

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:	Sidetrack 2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack 2	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
10,966.00	90.20	151.40	8,302.66	2,710.80	-2,421.60	1,368.16	1.59
11,030.00	90.20	152.50	8,302.44	2,772.81	-2,478.09	1,398.26	1.72
11,092.00	89.50	153.60	8,302.60	2,832.56	-2,533.35	1,426.36	2.10
11,155.00	88.30	154.00	8,303.81	2,893.05	-2,589.87	1,454.17	2.01
11,219.00	87.10	153.90	8,306.38	2,954.41	-2,647.32	1,482.25	1.88
11,282.00	86.20	154.00	8,310.06	3,014.76	-2,703.82	1,509.87	1.44
11,344.00	85.10	154.00	8,314.76	3,074.06	-2,759.38	1,536.97	1.77
11,407.00	85.90	152.80	8,319.71	3,134.50	-2,815.54	1,565.09	2.28
11,439.00	85.00	152.60	8,322.25	3,165.29	-2,843.89	1,579.72	2.88
11,470.00	85.60	152.20	8,324.79	3,195.16	-2,871.27	1,594.04	2.32
11,502.00	88.10	152.40	8,326.54	3,226.07	-2,899.55	1,608.89	7.84
11,533.00	91.70	151.20	8,326.60	3,256.11	-2,926.87	1,623.53	12.24
11,564.00	91.70	150.70	8,325.68	3,286.26	-2,953.96	1,638.58	1.61
11,585.13	91.70	150.44	8,325.05	3,306.84	-2,972.35	1,648.96	1.25
Leo B2DN No. 1H TP							
11,596.00	91.70	150.30	8,324.73	3,317.44	-2,981.80	1,654.33	1.25
11,627.00	91.00	149.80	8,324.00	3,347.70	-3,008.65	1,669.80	2.77
11,658.00	90.50	149.90	8,323.59	3,378.00	-3,035.45	1,685.37	1.64
11,689.00	90.00	150.10	8,323.46	3,408.27	-3,062.30	1,700.87	1.74
11,721.00	89.10	150.50	8,323.71	3,439.49	-3,090.09	1,716.72	3.08
11,752.00	88.80	150.40	8,324.28	3,469.71	-3,117.06	1,732.01	1.02
11,815.00	88.00	150.60	8,326.04	3,531.09	-3,171.87	1,763.02	1.31
11,878.00	87.40	150.90	8,328.56	3,592.39	-3,226.79	1,793.78	1.06
11,941.00	88.00	150.60	8,331.09	3,653.69	-3,281.71	1,824.54	1.06
12,004.00	87.50	150.30	8,333.57	3,715.06	-3,336.48	1,855.58	0.93
12,061.00	88.10	146.80	8,335.75	3,770.98	-3,385.06	1,885.30	6.23
12,123.00	87.70	143.90	8,338.03	3,832.36	-3,436.02	1,920.52	4.72
12,186.00	86.90	141.10	8,341.00	3,895.05	-3,485.94	1,958.83	4.62
12,249.00	87.60	139.10	8,344.02	3,957.92	-3,534.22	1,999.19	3.36
12,312.00	88.30	137.50	8,346.27	4,020.87	-3,581.22	2,041.07	2.77
12,375.00	88.70	134.00	8,347.92	4,083.81	-3,626.33	2,085.01	5.59
12,438.00	91.80	129.50	8,347.65	4,146.45	-3,668.26	2,131.99	8.67
12,532.00	90.30	123.60	8,345.92	4,238.65	-3,724.20	2,207.46	6.48
12,595.00	88.90	120.10	8,346.36	4,299.27	-3,757.44	2,260.96	5.98
12,658.00	89.60	117.40	8,347.19	4,358.88	-3,787.74	2,316.18	4.43
12,721.00	89.70	116.30	8,347.57	4,417.80	-3,816.19	2,372.39	1.75
12,783.00	89.80	114.90	8,347.84	4,475.28	-3,842.98	2,428.30	2.26
12,846.00	90.00	113.90	8,347.95	4,533.18	-3,869.01	2,485.67	1.62
12,909.00	88.50	113.50	8,348.78	4,590.78	-3,894.33	2,543.35	2.46
12,971.00	87.20	112.30	8,351.10	4,647.06	-3,918.43	2,600.43	2.85
13,034.00	86.40	111.10	8,354.62	4,703.64	-3,941.69	2,658.87	2.29
13,097.00	87.00	108.70	8,358.25	4,759.33	-3,963.10	2,718.00	3.92
13,159.00	85.80	107.70	8,362.14	4,813.23	-3,982.42	2,776.78	2.52
13,222.00	87.70	107.90	8,365.71	4,867.81	-4,001.65	2,836.67	3.03

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:	Sidetrack 2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack 2	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
13,285.00	89.10	108.30	8,367.47	4,922.62	-4,021.22	2,896.53	2.31
13,348.00	90.90	107.60	8,367.47	4,977.37	-4,040.63	2,956.46	3.07
13,411.00	91.10	106.50	8,366.37	5,031.62	-4,059.10	3,016.68	1.77
13,474.00	92.10	106.10	8,364.61	5,085.42	-4,076.77	3,077.12	1.71
13,536.00	93.10	105.80	8,361.80	5,138.15	-4,093.79	3,136.67	1.68
13,599.00	91.60	106.10	8,359.22	5,191.73	-4,111.09	3,197.19	2.43
13,661.00	90.20	105.90	8,358.24	5,244.53	-4,128.18	3,256.78	2.28
13,724.00	88.30	105.30	8,359.07	5,297.95	-4,145.12	3,317.45	3.16
13,787.00	87.60	105.00	8,361.32	5,351.08	-4,161.57	3,378.22	1.21
13,851.00	86.60	103.80	8,364.56	5,404.56	-4,177.47	3,440.13	2.44
13,913.00	85.40	104.20	8,368.88	5,456.08	-4,192.43	3,500.14	2.04
13,975.00	87.20	104.10	8,372.88	5,507.70	-4,207.55	3,560.13	2.91
14,038.00	87.70	103.50	8,375.69	5,560.00	-4,222.57	3,621.25	1.24
14,101.00	87.00	103.40	8,378.60	5,612.08	-4,237.20	3,682.46	1.12
14,164.00	89.00	102.40	8,380.80	5,663.84	-4,251.26	3,743.83	3.55
14,227.00	91.30	101.80	8,380.63	5,715.12	-4,264.46	3,805.43	3.77
14,286.00	92.40	101.10	8,378.73	5,762.74	-4,276.17	3,863.22	2.21
Last Survey: 14286' MD 8378.73' TVD							
14,355.00	92.40	101.10	8,375.84	5,818.16	-4,289.44	3,930.87	0.00
TD Projected To MD: 14355' - Leo B2DN No. 1H TD/PBHL							

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,286.00	8,378.73	-4,276.17	3,863.22	Last Survey: 14286' MD 8378.73' TVD
14,355.00	8,375.84	-4,289.44	3,930.87	TD Projected To MD: 14355'

Checked By: _____	Approved By: _____	Date: _____
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