

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
LEO 15.B2DN FED COM 1H
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

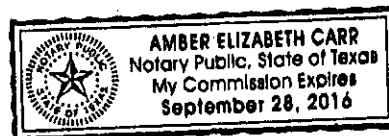
COUNTY OF MIDLAND

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

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 16 2016

RECEIVED

Mewbourne Oil Company

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

Design: Sidetrack 2

EOW Report

22 October, 2015

INWELL [®]
INC



Newbourne 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 @ 3545.00usft (Patterson)



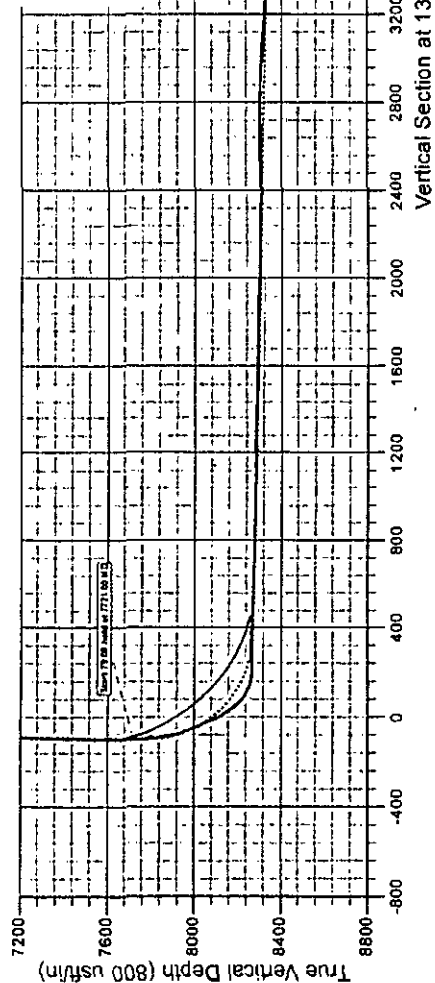
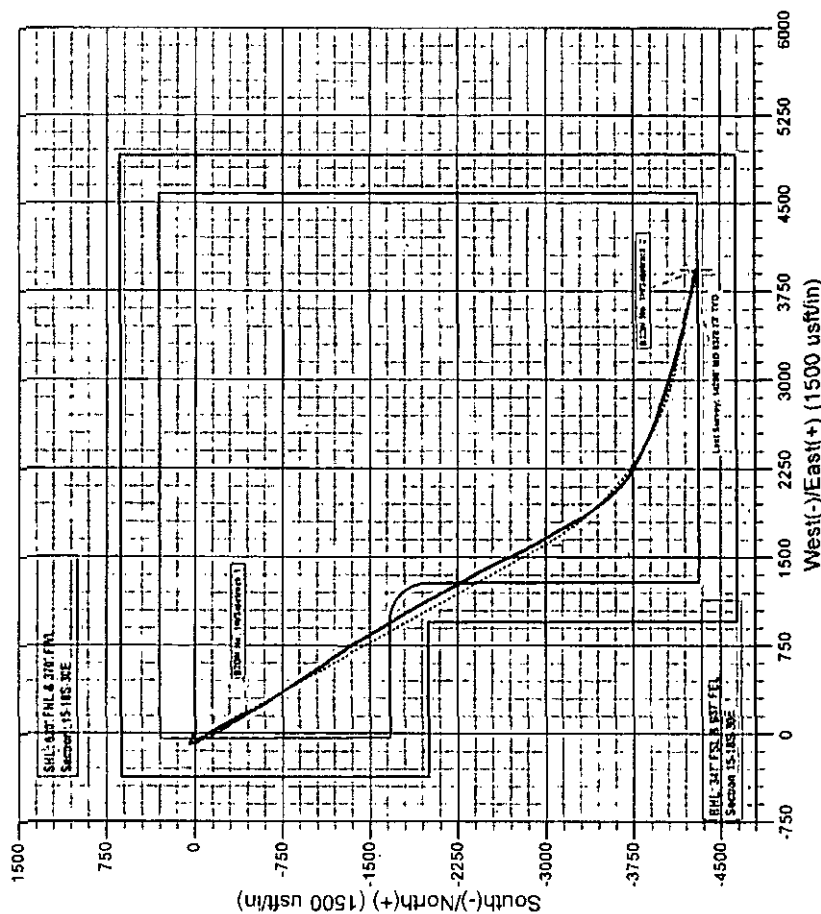
SECTION DETAILS										
MD	INO	ASL	TVD	+NLS	+EWH	OLG	TEGSS	USG-H		
7721.00	0.90	148.50	7719.22	48.42	-92.01	0.00	-97.80	0.00		
7690.00	0.90	146.50	7708.11	44.55	-91.35	0.00	-95.58	0.00		
8632.73	88.82	160.80	8268.10	-360.56	137.25	12.00	4.30	361.80		
11551.34	88.82	160.80	8350.00	-2394.90	1609.40			3295.77		
14326.05	88.93	103.22	8306.86	-4107.49	3086.23	2.50	-90.38	511.56		
14326.05	88.93	103.22	8306.00	-4306.70	3933.10	0.00	0.00	8632.40		

WELL DETAILS: B2DN No. 1H			
+N/-S	0.00	Ground Level:	3520.00
+E/-W	0.00	Easting	612726.30
		Latitude	32° 46' 10.223 N
			Longitude 103° 68' 0.003 W

DESIGN TARGET DETAILS						
Name	TWO	+N/S	+E/W	Northing	Easting	Latitude Longitude
L60 BZDN No. 1H TP	8330.00	-2894.50	1609.40	634794.30	614336.70	32° 44' 40.532 N 103° 57' 41.281 W
L60 BZDN No. 1H TDPBHL	8396.00	-4308.70	2832.10	633482.60	616689.40	32° 44' 27.470 N 103° 57' 14.128 W

PROJECT DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCONUS)
Ellipsoid: Clarke 1866
Zone: North 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 usft/in)

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

Created By: Chris LeMaster 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:	638,089.10usft	Latitude:	32° 45' 13.191 N
From:	Map	Easting:	612,725.00usft	Longitude:	103° 58' 0.006 W
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16"	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		Sidetrack 2			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/06/15	7.28	60.50	48,459

Design:	Sidetrack 2
---------	-------------

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

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	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	Inc	Azi (azimuth)	TVD	V. Sec	N/S	E/W	D Leg
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/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
Project:	Eddy County, NM	TVD Reference:	Well @ 3545.00usft (Patterson 75)
Site:	Leo 15 Federal COM	MDI 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

MDI (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	0.48

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)
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

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

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLog (°/100usft)
8,394.00	85.80	150.60	8,265.83	189.55	-225.68	33.95	25.68
8,425.00	89.20	148.20	8,267.18	219.86	-252.33	49.71	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	8,295.81	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)	D Leg (°/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	2,836.87	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

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D Leg (°/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: _____