

NM OIL CONSERVATION

ARTESIA DISTRICT

APR 13 2015

30-015-42898 RECEIVED

Mewbourne Oil Company

Eddy County, NM
Leo 15 Federal COM
B2DH No. 1H
OH

Design: OH

EOW Report

23 February, 2015





Mewbourne Oil Company
 Project: Eddy County, NM
 Site: Leo 15 Federal COM
 Well: B2DH No. 1H
 Wellbore: OH
 Design: Plan #2
 Lat: 32° 45' 13.191 N
 Long: 103° 58' 0.001 W
 Pad GL: 3519.00
 KB: WELL @ 3539.00usft (RKB: 20' + GL: 3519')



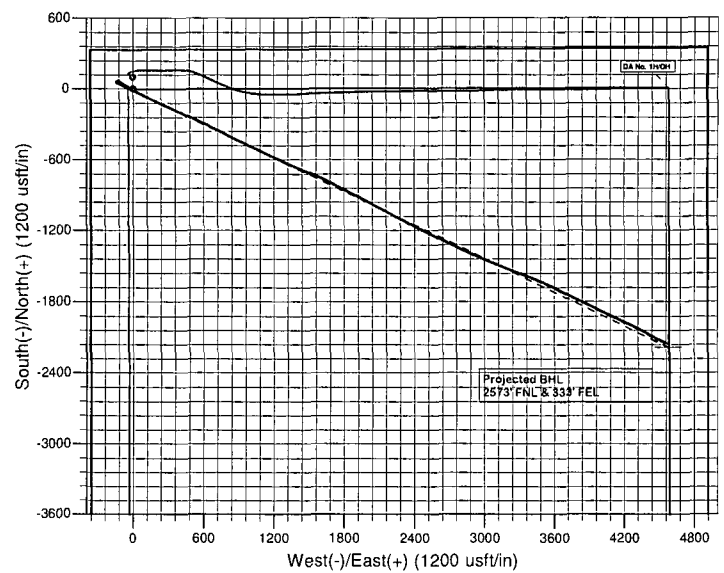
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
7620.00	0.11	99.92	7616.05	49.07	-142.24	0.00	0.00	-149.56	
7770.00	0.11	99.92	7765.05	49.02	-141.96	0.00	0.00	-149.28	
8507.72	88.63	115.33	8242.49	-150.16	279.41	12.00	15.41	315.79	
13264.90	88.63	115.33	8356.00	-2184.78	4576.03	0.00	0.00	5072.61	

WELL DETAILS: B2DH No. 1H									
+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude			
0.00	0.00	638089.10	3519.00	612725.40	32° 45' 13.191 N	103° 58' 0.001 W			

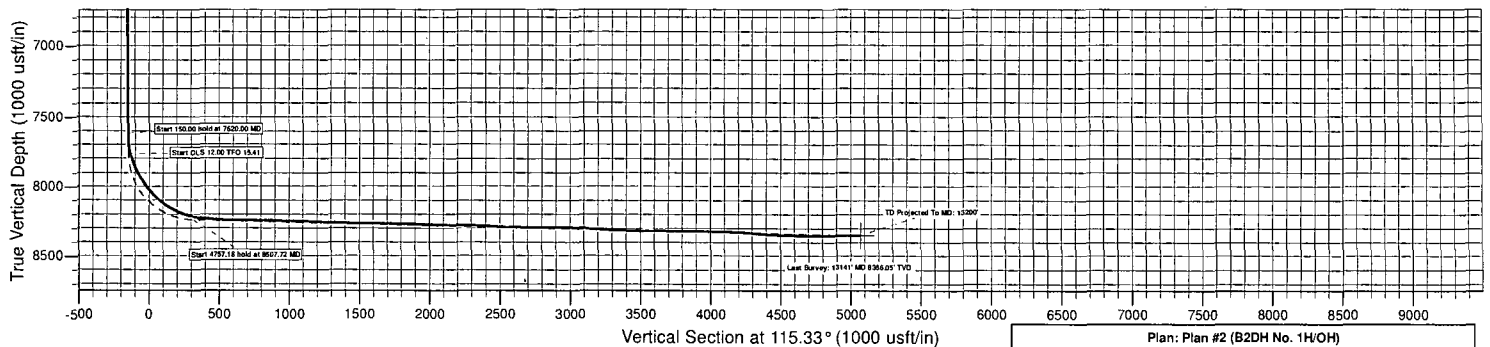
DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
Leo 15 No. 3H TD/PBHL	8356.00	-2184.78	4576.03	635904.32	617303.43	32° 44' 51.412 N	103° 57' 6.486 W		

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: 7.16°
 Magnetic Field
 Strength: 48526.6nT
 Dip Angle: 60.52°
 Date: 2/3/2015
 Model: IGRF2010



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



Plan: Plan #2 (B2DH No. 1H/OH)
 Created By: Chris LeMaster Date: 15:43, April 01 2015



INWELL LLC
EOW Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DH No. 1H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3539.00usft (RKB: 20' + GL: 3519')
Site:	Leo 15 Federal COM	MD Reference:	WELL @ 3539.00usft (RKB: 20' + GL: 3519')
Well:	B2DH No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

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	B2DH No. 1H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	1.10 usft	Wellhead Elevation:	usft
		Latitude:	32° 45' 13.191 N
		Longitude:	103° 58' 0.001 W
		Ground Level:	3,519.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	2/3/2015	7.36
			Dip Angle
			(°)
			60.52
			Field Strength
			(nT)
			48,527

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			115.51

Survey Program	Date 2/23/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.00	7,620.00	MS Gyro (OH)	CB-GYRO-MS
7,633.00	13,200.00	MWD (OH)	MWD
			Description
			Camera based gyro multishot
			MWD - Standard

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.36	32.58	100.00	0.26	0.17	0.04	0.36
200.00	0.44	285.48	200.00	0.63	-0.03	-0.30	0.65
300.00	1.09	314.48	299.99	1.40	-1.08	-1.58	0.74
400.00	1.72	288.49	399.96	2.54	-3.18	-3.97	0.88
500.00	1.51	277.43	499.92	3.19	-5.91	-6.71	0.37
600.00	2.14	281.01	599.87	3.72	-9.05	-9.77	0.64
700.00	2.08	268.93	699.80	4.04	-12.70	-13.20	0.45
800.00	2.12	282.97	799.73	4.42	-16.32	-16.63	0.51
900.00	2.26	273.18	899.66	4.94	-20.09	-20.26	0.40
1,000.00	1.78	277.16	999.60	5.25	-23.60	-23.56	0.50



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Site:	Leo 15 Federal COM	MD Reference:	WELL @ 3539.00usft (RKB: 20' + GL: 3519')
Well:	B2DH No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
1,100.00	2.24	282.13	1,099.54	5.85	-27.05	-26.93	0.49
1,200.00	1.88	284.04	1,199.47	6.66	-30.55	-30.44	0.37
1,300.00	1.17	315.47	1,299.44	7.79	-32.86	-33.01	1.07
1,400.00	1.29	314.05	1,399.42	9.30	-34.38	-35.03	0.12
1,500.00	0.93	314.59	1,499.40	10.65	-35.77	-36.87	0.36
1,600.00	1.34	310.16	1,599.38	11.97	-37.24	-38.77	0.42
1,700.00	1.31	294.05	1,699.35	13.19	-39.18	-41.04	0.37
1,800.00	1.34	312.12	1,799.32	14.44	-41.09	-43.30	0.42
1,900.00	1.87	297.41	1,899.28	15.98	-43.41	-46.06	0.67
2,000.00	1.64	296.91	1,999.24	17.38	-46.13	-49.12	0.23
2,100.00	2.12	301.26	2,099.18	18.98	-48.99	-52.39	0.50
2,200.00	2.06	292.87	2,199.12	20.64	-52.22	-56.02	0.31
2,300.00	1.93	300.64	2,299.06	22.20	-55.33	-59.50	0.30
2,400.00	2.42	299.74	2,398.98	24.11	-58.61	-63.28	0.49
2,500.00	2.39	292.97	2,498.90	25.97	-62.36	-67.47	0.29
2,600.00	2.28	293.30	2,598.81	27.57	-66.11	-71.54	0.11
2,700.00	2.69	303.38	2,698.72	29.64	-69.90	-75.85	0.60
2,800.00	3.04	298.72	2,798.60	32.21	-74.18	-80.82	0.42
2,900.00	3.26	299.20	2,898.44	34.87	-78.99	-86.31	0.22
3,000.00	3.33	300.12	2,998.28	37.72	-83.98	-92.04	0.09
3,100.00	3.30	302.77	3,098.11	40.73	-88.92	-97.79	0.16
3,200.00	3.71	309.42	3,197.92	44.34	-93.84	-103.78	0.58
3,300.00	4.22	307.23	3,297.68	48.62	-99.26	-110.53	0.53
3,400.00	4.56	306.76	3,397.39	53.23	-105.38	-118.03	0.34
3,500.00	4.70	307.40	3,497.07	58.10	-111.82	-125.94	0.15
3,600.00	4.86	308.22	3,596.72	63.21	-118.40	-134.08	0.17
3,700.00	3.38	299.45	3,696.46	67.28	-124.30	-141.15	1.60
3,800.00	1.57	266.38	3,796.36	68.64	-128.23	-145.29	2.23
3,900.00	0.92	197.24	3,896.34	67.79	-129.84	-146.37	1.51
4,000.00	0.39	128.41	3,996.34	66.81	-129.81	-145.92	0.86
4,100.00	0.05	49.03	4,096.34	66.62	-129.51	-145.57	0.38
4,200.00	0.10	23.12	4,196.34	66.73	-129.44	-145.56	0.06
4,300.00	0.21	17.76	4,296.34	66.99	-129.35	-145.59	0.11
4,400.00	0.28	318.76	4,396.34	67.35	-129.46	-145.84	0.25
4,500.00	0.27	274.62	4,496.34	67.55	-129.85	-146.28	0.21
4,600.00	0.28	260.47	4,596.33	67.53	-130.33	-146.70	0.07
4,700.00	0.35	263.43	4,696.33	67.45	-130.87	-147.16	0.07
4,800.00	0.26	174.38	4,796.33	67.19	-131.15	-147.30	0.43
4,900.00	0.13	249.83	4,896.33	66.93	-131.24	-147.27	0.26
5,000.00	0.13	141.13	4,996.33	66.80	-131.27	-147.24	0.21
5,100.00	0.12	11.68	5,096.33	66.81	-131.18	-147.17	0.23
5,200.00	0.27	269.99	5,196.33	66.92	-131.39	-147.40	0.32
5,300.00	0.21	229.61	5,296.33	66.80	-131.77	-147.69	0.17
5,400.00	0.15	172.62	5,396.33	66.55	-131.89	-147.69	0.18



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Well:	B2DH No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
5,500.00	0.19	105.50	5,496.33	66.37	-131.72	-147.46	0.19
5,600.00	0.12	333.42	5,596.33	66.42	-131.60	-147.38	0.28
5,700.00	0.17	271.55	5,696.33	66.52	-131.80	-147.60	0.16
5,800.00	0.37	192.47	5,796.33	66.21	-132.02	-147.66	0.38
5,900.00	0.34	114.83	5,896.33	65.77	-131.82	-147.29	0.45
6,000.00	0.19	198.85	5,996.33	65.49	-131.60	-146.97	0.37
6,100.00	0.45	154.24	6,096.32	64.98	-131.48	-146.65	0.34
6,200.00	0.52	251.53	6,196.32	64.48	-131.74	-146.67	0.73
6,300.00	1.12	242.42	6,296.31	63.88	-133.04	-147.58	0.61
6,400.00	1.06	245.50	6,396.29	63.05	-134.75	-148.76	0.08
6,500.00	1.78	267.83	6,496.26	62.61	-137.14	-150.73	0.90
6,600.00	2.27	253.61	6,596.20	61.99	-140.59	-153.58	0.70
6,700.00	0.79	226.22	6,696.16	60.95	-142.99	-155.30	1.61
6,800.00	1.04	185.44	6,796.15	59.57	-143.57	-155.23	0.68
6,900.00	1.55	193.31	6,896.13	57.35	-143.97	-154.64	0.54
7,000.00	1.51	168.17	6,996.09	54.75	-144.01	-153.55	0.67
7,100.00	0.86	176.33	7,096.07	52.71	-143.70	-152.39	0.67
7,200.00	0.86	156.14	7,196.06	51.27	-143.34	-151.45	0.30
7,300.00	0.33	157.35	7,296.05	50.32	-142.93	-150.67	0.53
7,400.00	0.51	169.47	7,396.05	49.62	-142.74	-150.19	0.20
7,500.00	0.27	103.72	7,496.05	49.12	-142.43	-149.70	0.47
7,600.00	0.06	273.09	7,596.05	49.07	-142.25	-149.52	0.33
7,620.00	0.11	99.92	7,616.05	49.07	-142.24	-149.51	0.85
7,633.00	0.30	20.80	7,629.05	49.10	-142.22	-149.50	2.30
7,665.00	0.30	339.80	7,661.05	49.26	-142.22	-149.56	0.66
7,697.00	1.90	113.00	7,693.04	49.13	-141.76	-149.09	6.61
7,729.00	7.40	111.30	7,724.92	48.17	-139.35	-146.51	17.19
7,760.00	12.50	110.10	7,755.45	46.29	-134.33	-141.17	16.46
7,792.00	16.80	110.70	7,786.40	43.46	-126.75	-133.11	13.45
7,824.00	20.40	111.80	7,816.72	39.76	-117.24	-122.94	11.30
7,855.00	23.30	111.20	7,845.49	35.53	-106.51	-111.43	9.38
7,887.00	26.10	110.90	7,874.56	30.73	-94.03	-98.10	8.76
7,919.00	28.00	111.40	7,903.06	25.48	-80.46	-83.59	5.98
7,950.00	29.60	112.60	7,930.23	19.88	-66.62	-68.68	5.49
7,982.00	31.90	113.20	7,957.73	13.51	-51.55	-52.34	7.25
8,014.00	34.80	115.30	7,984.45	6.28	-35.52	-34.76	9.75
8,046.00	37.00	117.90	8,010.38	-2.13	-18.75	-16.00	8.36
8,077.00	39.20	118.90	8,034.77	-11.23	-1.92	3.10	7.37
8,109.00	42.20	118.20	8,059.03	-21.20	16.41	23.94	9.48
8,141.00	45.40	117.20	8,082.12	-31.49	36.01	46.07	10.23
8,172.00	48.30	116.70	8,103.32	-41.74	56.17	68.67	9.43
8,204.00	52.40	116.30	8,123.73	-52.72	78.22	93.30	12.85
8,236.00	57.00	116.00	8,142.22	-64.23	101.66	119.41	14.40
8,267.00	60.20	116.00	8,158.37	-75.83	125.44	145.87	10.32
8,299.00	62.80	116.70	8,173.64	-88.31	150.63	173.98	8.35



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
8,331.00	65.50	116.70	8,187.59	-101.25	176.36	202.77	8.44
8,363.00	68.70	115.10	8,200.04	-114.12	202.87	232.24	11.01
8,394.00	71.50	113.70	8,210.59	-126.16	229.42	261.38	9.98
8,425.00	75.60	113.60	8,219.37	-138.08	256.65	291.09	13.23
8,457.00	78.50	113.70	8,226.54	-150.59	285.21	322.26	9.07
8,472.00	79.60	114.00	8,229.39	-156.54	298.68	336.98	7.59
8,549.00	85.20	116.80	8,239.57	-189.28	367.58	413.26	8.12
8,580.00	85.40	114.30	8,242.11	-202.60	395.46	444.16	8.06
8,612.00	86.10	114.30	8,244.48	-215.73	424.54	476.06	2.19
8,643.00	86.90	114.10	8,246.37	-228.42	452.76	507.00	2.66
8,674.00	87.60	113.80	8,247.86	-240.99	481.06	537.95	2.46
8,706.00	87.60	114.00	8,249.20	-253.94	510.29	569.91	0.62
8,738.00	88.60	114.60	8,250.26	-267.10	539.44	601.88	3.64
8,769.00	89.50	114.90	8,250.78	-280.08	567.59	632.87	3.06
8,801.00	90.10	114.90	8,250.89	-293.55	596.61	664.87	1.87
8,864.00	90.10	116.60	8,250.78	-320.92	653.36	727.87	2.70
8,928.00	89.50	117.40	8,251.00	-349.97	710.38	791.85	1.56
8,991.00	88.70	116.40	8,251.99	-378.47	766.55	854.82	2.03
9,054.00	88.50	115.80	8,253.53	-406.18	823.11	917.80	1.00
9,117.00	88.90	115.40	8,254.96	-433.39	879.91	980.78	0.90
9,181.00	88.70	115.30	8,256.30	-460.79	937.74	1,044.77	0.35
9,244.00	88.40	115.10	8,257.89	-487.60	994.72	1,107.74	0.57
9,307.00	88.10	114.60	8,259.82	-514.07	1,051.86	1,170.71	0.93
9,371.00	87.00	114.90	8,262.55	-540.84	1,109.93	1,234.65	1.78
9,434.00	87.40	114.60	8,265.63	-567.18	1,167.08	1,297.56	0.79
9,498.00	87.90	114.40	8,268.26	-593.70	1,225.26	1,361.50	0.84
9,561.00	88.40	114.20	8,270.29	-619.61	1,282.65	1,424.45	0.85
9,624.00	88.90	113.30	8,271.77	-644.98	1,340.30	1,487.41	1.63
9,687.00	89.60	112.70	8,272.60	-669.59	1,398.29	1,550.34	1.46
9,751.00	89.20	113.30	8,273.27	-694.60	1,457.19	1,614.27	1.13
9,814.00	89.60	113.10	8,273.93	-719.41	1,515.10	1,677.22	0.71
9,877.00	89.60	113.30	8,274.37	-744.23	1,573.00	1,740.17	0.32
9,941.00	89.20	115.30	8,275.04	-770.56	1,631.32	1,804.14	3.19
10,003.00	88.00	117.20	8,276.55	-797.98	1,686.91	1,866.12	3.62
10,067.00	88.00	117.40	8,278.79	-827.31	1,743.75	1,930.05	0.31
10,130.00	88.20	117.20	8,280.88	-856.19	1,799.70	1,992.98	0.45
10,193.00	88.20	116.70	8,282.85	-884.73	1,855.83	2,055.93	0.79
10,257.00	87.70	117.40	8,285.14	-913.81	1,912.79	2,119.87	1.34
10,320.00	89.00	117.40	8,286.96	-942.79	1,968.70	2,182.80	2.06
10,383.00	89.70	117.50	8,287.67	-971.83	2,024.60	2,245.76	1.12
10,447.00	88.80	117.30	8,288.51	-1,001.28	2,081.42	2,309.72	1.44
10,510.00	88.10	118.00	8,290.21	-1,030.51	2,137.20	2,372.65	1.57
10,573.00	87.30	118.00	8,292.74	-1,060.06	2,192.78	2,435.54	1.27
10,636.00	87.80	117.40	8,295.44	-1,089.32	2,248.51	2,498.44	1.24



INWELL LLC
EOW Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well B2DH No. 1H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3539.00usft (RKB: 20' + GL: 3519')
Site:	Leo 15 Federal COM	MD Reference:	WELL @ 3539.00usft (RKB: 20' + GL: 3519')
Well:	B2DH No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
10,699.00	88.00	117.40	8,297.74	-1,118.29	2,304.41	2,561.36	0.32
10,762.00	88.70	117.20	8,299.56	-1,147.18	2,360.37	2,624.31	1.16
10,826.00	89.10	116.70	8,300.79	-1,176.18	2,417.40	2,688.27	1.00
10,889.00	90.10	116.50	8,301.23	-1,204.38	2,473.73	2,751.26	1.62
10,952.00	89.90	116.00	8,301.23	-1,232.25	2,530.24	2,814.25	0.85
11,015.00	90.20	115.80	8,301.17	-1,259.77	2,586.91	2,877.25	0.57
11,079.00	89.70	115.50	8,301.23	-1,287.47	2,644.60	2,941.25	0.91
11,142.00	89.30	116.00	8,301.78	-1,314.84	2,701.34	3,004.25	1.02
11,206.00	86.30	114.60	8,304.23	-1,342.17	2,759.15	3,068.19	5.17
11,269.00	85.00	114.30	8,309.01	-1,368.17	2,816.34	3,131.00	2.12
11,333.00	85.80	114.00	8,314.14	-1,394.27	2,874.55	3,194.77	1.33
11,396.00	86.40	112.70	8,318.43	-1,419.18	2,932.25	3,257.58	2.27
11,459.00	87.90	112.40	8,321.56	-1,443.31	2,990.36	3,320.42	2.43
11,522.00	88.50	111.90	8,323.54	-1,467.05	3,048.68	3,383.28	1.24
11,586.00	88.70	111.30	8,325.10	-1,490.60	3,108.17	3,447.11	0.99
11,649.00	89.90	111.50	8,325.87	-1,513.59	3,166.82	3,509.94	1.93
11,712.00	90.90	110.80	8,325.43	-1,536.32	3,225.58	3,572.76	1.94
11,775.00	90.40	110.30	8,324.72	-1,558.43	3,284.56	3,635.52	1.12
11,839.00	88.90	110.00	8,325.11	-1,580.47	3,344.64	3,699.23	2.39
11,902.00	89.30	110.30	8,326.10	-1,602.17	3,403.78	3,761.95	0.79
11,965.00	90.00	112.40	8,326.49	-1,625.11	3,462.45	3,824.78	3.51
12,028.00	89.80	114.40	8,326.60	-1,650.13	3,520.27	3,887.73	3.19
12,092.00	89.70	115.30	8,326.87	-1,677.02	3,578.34	3,951.73	1.41
12,155.00	89.00	115.40	8,327.59	-1,703.99	3,635.27	4,014.72	1.12
12,218.00	88.90	116.00	8,328.74	-1,731.31	3,692.03	4,077.71	0.97
12,282.00	87.80	116.20	8,330.59	-1,759.45	3,749.48	4,141.68	1.75
12,345.00	86.10	116.00	8,333.94	-1,787.13	3,805.97	4,204.59	2.72
12,408.00	84.80	115.20	8,338.94	-1,814.26	3,862.60	4,267.39	2.42
12,471.00	84.90	114.70	8,344.59	-1,840.73	3,919.49	4,330.13	0.81
12,534.00	86.50	115.30	8,349.31	-1,867.28	3,976.43	4,392.95	2.71
12,598.00	87.50	115.40	8,352.66	-1,894.64	4,034.19	4,456.86	1.57
12,661.00	88.00	115.30	8,355.14	-1,921.60	4,091.08	4,519.81	0.81
12,724.00	88.70	114.80	8,356.95	-1,948.26	4,148.13	4,582.78	1.37
12,787.00	89.40	114.10	8,358.00	-1,974.33	4,205.47	4,645.76	1.57
12,851.00	90.00	114.80	8,358.33	-2,000.82	4,263.73	4,709.75	1.44
12,914.00	90.50	117.40	8,358.06	-2,028.53	4,320.30	4,772.74	4.20
12,977.00	90.20	118.00	8,357.67	-2,057.82	4,376.07	4,835.69	1.06
13,040.00	91.00	117.00	8,357.01	-2,086.91	4,431.95	4,898.65	2.03
13,104.00	90.30	116.40	8,356.29	-2,115.66	4,489.12	4,962.63	1.44
13,141.00	90.40	116.00	8,356.06	-2,132.00	4,522.32	4,999.62	1.11
Last Survey: 13141' MD 8356.05' TVD							
13,200.00	90.40	116.00	8,355.65	-2,157.86	4,575.35	5,058.62	0.00
TD Projected To MD: 13200'							



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Site:	Leo 15 Federal COM	MD Reference:	WELL @ 3539.00usft (RKB: 20' + GL: 3519')
Well:	B2DH No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,141.00	8,356.06	-2,132.00	4,522.32	Last Survey: 13141' MD 8356.05' TVD
13,200.00	8,355.65	-2,157.86	4,575.35	TD Projected To MD: 13200'

Checked By: _____ Approved By: _____ Date: _____



Job Number: SVMO-150125
 Company: Mewbourne Oil & Gas
 Lease/Well: Leo 15B2DH Fed Com 1H
 Location: Eddy County, NM
 Rig Name: Patterson #75
 RKB: 22'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.35°
 Grid: East To Grid North
 File name: S:\2015SU~1\MEWBOU~1\MO\LEO\15B2DH~1\1H.SVY
 Date/Time: 06-Feb-15 / 14:49
 Curve Name: Surface - 7620' M.D. (Rate Gyro)

MS SURVEY

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 7620' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Dustin Bobo 2/6/15
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.36	32.58	100.00	.26	.17	.26	.31	32.58	.36
200.00	.44	285.48	200.00	.63	-.03	.63	.63	357.13	.65
300.00	1.09	314.48	299.99	1.40	-1.08	1.40	1.77	322.36	.74
400.00	1.72	288.49	399.96	2.54	-3.18	2.54	4.07	308.63	.88
500.00	1.51	277.43	499.92	3.19	-5.91	3.19	6.72	298.35	.37
600.00	2.14	281.01	599.87	3.72	-9.05	3.72	9.78	292.32	.64
700.00	2.08	268.93	699.80	4.04	-12.70	4.04	13.33	287.65	.45
800.00	2.12	282.97	799.73	4.42	-16.32	4.42	16.90	285.16	.51
900.00	2.26	273.18	899.66	4.95	-20.09	4.95	20.69	283.83	.40

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	1.78	277.16	999.60	5.25	-23.60	5.25	24.17	282.54	.50
1100.00	2.24	282.13	1099.54	5.85	-27.05	5.85	27.67	282.21	.49
1200.00	1.88	284.04	1199.47	6.66	-30.55	6.66	31.27	282.30	.37
1300.00	1.17	315.47	1299.44	7.79	-32.86	7.79	33.77	283.33	1.07
1400.00	1.29	314.05	1399.42	9.30	-34.38	9.30	35.62	285.13	.12
1500.00	.93	314.59	1499.40	10.65	-35.77	10.65	37.32	286.58	.36
1600.00	1.34	310.16	1599.38	11.97	-37.24	11.97	39.12	287.82	.42
1700.00	1.31	294.05	1699.35	13.19	-39.18	13.19	41.34	288.61	.37
1800.00	1.34	312.12	1799.32	14.44	-41.09	14.44	43.55	289.37	.42
1900.00	1.87	297.41	1899.28	15.98	-43.41	15.98	46.25	290.21	.67
2000.00	1.64	296.91	1999.24	17.38	-46.13	17.38	49.29	290.64	.23
2100.00	2.12	301.26	2099.18	18.98	-48.99	18.98	52.54	291.18	.50
2200.00	2.06	292.87	2199.12	20.64	-52.22	20.64	56.16	291.57	.31
2300.00	1.93	300.64	2299.06	22.20	-55.33	22.20	59.62	291.86	.30
2400.00	2.42	299.74	2398.98	24.11	-58.61	24.11	63.37	292.36	.49
2500.00	2.39	292.97	2498.90	25.97	-62.36	25.97	67.55	292.61	.29
2600.00	2.28	293.30	2598.81	27.57	-66.11	27.57	71.63	292.64	.11
2700.00	2.69	303.38	2698.72	29.64	-69.90	29.64	75.92	292.98	.60
2800.00	3.04	298.72	2798.60	32.21	-74.18	32.21	80.87	293.47	.42
2900.00	3.26	299.20	2898.44	34.87	-78.99	34.87	86.34	293.82	.22
3000.00	3.33	300.12	2998.28	37.72	-83.98	37.72	92.06	294.18	.09
3100.00	3.30	302.77	3098.11	40.73	-88.92	40.73	97.80	294.61	.16
3200.00	3.71	309.42	3197.92	44.34	-93.84	44.34	103.79	295.29	.58
3300.00	4.22	307.23	3297.68	48.62	-99.26	48.62	110.53	296.10	.53
3400.00	4.56	306.76	3397.39	53.23	-105.38	53.23	118.06	296.80	.34
3500.00	4.70	307.40	3497.07	58.10	-111.82	58.10	126.01	297.45	.15
3600.00	4.86	308.22	3596.72	63.21	-118.40	63.21	134.21	298.09	.17
3700.00	3.38	299.45	3696.46	67.28	-124.30	67.28	141.33	298.42	1.60
3800.00	1.57	266.38	3796.36	68.64	-128.23	68.64	145.45	298.16	2.23

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
3900.00	.92	197.24	3896.34	67.79	-129.84	67.79	146.47	297.57	1.51
4000.00	.39	128.41	3996.34	66.81	-129.81	66.81	145.99	297.23	.86
4100.00	.05	49.03	4096.34	66.62	-129.51	66.62	145.64	297.22	.38
4200.00	.10	23.12	4196.34	66.73	-129.44	66.73	145.63	297.27	.06
4300.00	.21	17.76	4296.34	66.99	-129.35	66.99	145.67	297.38	.11
4400.00	.28	318.76	4396.34	67.35	-129.46	67.35	145.93	297.48	.25
4500.00	.27	274.62	4496.34	67.55	-129.85	67.55	146.37	297.48	.21
4600.00	.28	260.47	4596.33	67.53	-130.33	67.53	146.78	297.39	.07
4700.00	.35	263.43	4696.33	67.45	-130.87	67.45	147.23	297.27	.07
4800.00	.26	174.38	4796.33	67.19	-131.15	67.19	147.36	297.13	.43
4900.00	.13	249.83	4896.33	66.93	-131.24	66.93	147.32	297.02	.26
5000.00	.13	141.13	4996.33	66.80	-131.27	66.80	147.29	296.97	.21
5100.00	.12	11.68	5096.33	66.81	-131.18	66.81	147.21	296.99	.23
5200.00	.27	269.99	5196.33	66.92	-131.39	66.92	147.45	296.99	.32
5300.00	.21	229.61	5296.33	66.80	-131.77	66.80	147.73	296.88	.17
5400.00	.15	172.62	5396.33	66.55	-131.89	66.55	147.73	296.77	.18
5500.00	.19	105.50	5496.33	66.37	-131.72	66.37	147.49	296.74	.19
5600.00	.12	333.42	5596.33	66.42	-131.60	66.42	147.42	296.78	.28
5700.00	.17	271.55	5696.33	66.52	-131.80	66.52	147.63	296.78	.16
5800.00	.37	192.47	5796.33	66.21	-132.02	66.21	147.69	296.64	.38
5900.00	.34	114.83	5896.33	65.77	-131.82	65.77	147.31	296.52	.45
6000.00	.19	198.85	5996.33	65.49	-131.60	65.49	146.99	296.46	.37
6100.00	.45	154.24	6096.32	64.98	-131.48	64.98	146.66	296.30	.34
6200.00	.52	251.53	6196.32	64.48	-131.74	64.48	146.68	296.08	.73
6300.00	1.12	242.42	6296.31	63.88	-133.04	63.88	147.58	295.65	.61
6400.00	1.06	245.50	6396.29	63.05	-134.75	63.05	148.77	295.08	.08
6500.00	1.78	267.83	6496.26	62.61	-137.14	62.61	150.76	294.54	.90
6600.00	2.27	253.61	6596.20	61.99	-140.59	61.99	153.65	293.79	.70
6700.00	.79	226.22	6696.16	60.95	-142.99	60.95	155.44	293.09	1.61

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6800.00	1.04	185.44	6796.15	59.57	-143.57	59.57	155.44	292.53	.68
6900.00	1.55	193.31	6896.13	57.35	-143.97	57.35	154.98	291.72	.54
7000.00	1.51	168.17	6996.09	54.75	-144.01	54.75	154.07	290.81	.67
7100.00	.86	176.33	7096.07	52.71	-143.70	52.71	153.06	290.14	.67
7200.00	.86	156.14	7196.06	51.27	-143.34	51.27	152.24	289.68	.30
7300.00	.33	157.35	7296.05	50.32	-142.93	50.32	151.53	289.40	.53
7400.00	.51	169.47	7396.05	49.62	-142.74	49.62	151.12	289.17	.20
7500.00	.27	103.72	7496.05	49.12	-142.43	49.12	150.66	289.03	.47
7600.00	.06	273.09	7596.05	49.07	-142.25	49.07	150.48	289.03	.33
Last Survey Depth Recorded									
7620.00	.11	99.92	7616.05	49.07	-142.24	49.07	150.47	289.03	.85