

3002542917

OPERATOR Mewbourne Oil Company
WELL/LEASE Red Hills West Unit 012H
COUNTY Lea

036-0074

STATE OF NEW MEXICO
DEVIATION REPORT

552	2.15
870	2.60
1158	1.30
1538	2.10
1665	1.30
1993	1.00
2459	0.10
2807	1.20
3136	0.50
3250	0.70
3565	2.40
3977	3.50
4400	0.60
4515	4.10
4864	4.00
5150	5.30
5341	6.00
7311	0.10

HOBBS OCD

MAR 28 2016

RECEIVED

BY: Briana Welch

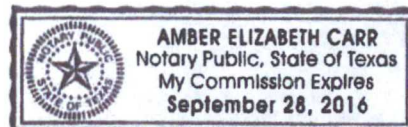
STATE OF TEXAS

COUNTY OF MIDLAND

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

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

3/31/15, by Briana



MAR 29 2016



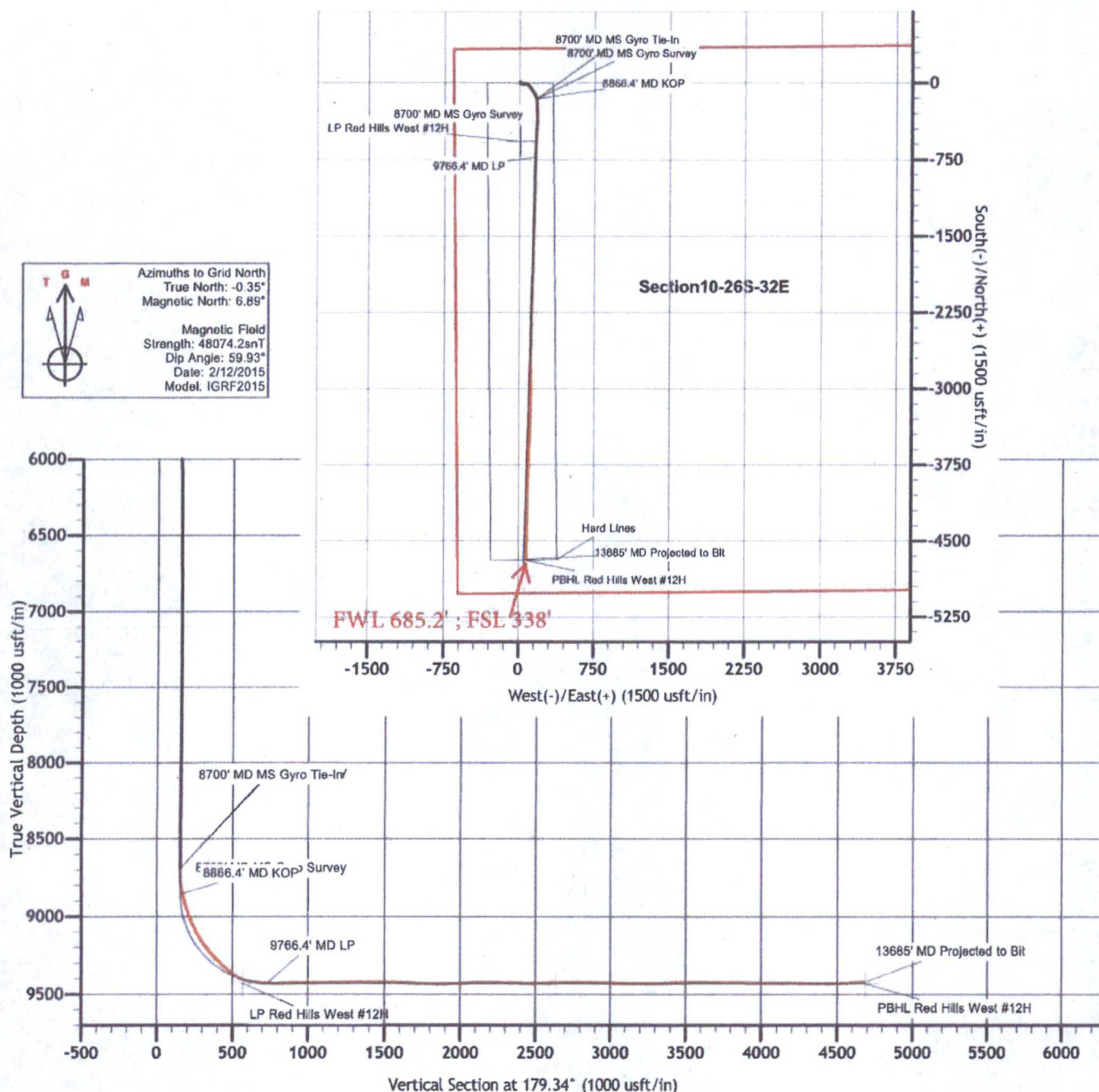
COMPANY: Mewbourne Oil Company
 WELL: Red Hills West #12H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.89°

GEODETTIC ZONE: New Mexico East 3001						
3250 + 20 @ 3270 0usft (Patterson)						
GROUND ELEVATION: 3250.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	387821.50	705853.00	32° 3' 50.201 N	103° 40' 7.770 W	

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	8700.0	1.00	299.25	8690.7	-155.4	174.3	0.00	0.00	157.4	
2	8750.0	0.00	291.75	8740.7	-155.2	173.9	0.00	-176.26	157.2	
3	8866.4	0.00	291.75	8857.1	-155.2	173.9	0.00	291.75	157.2	
4	9766.4	90.00	181.52	9430.0	-728.0	158.7	10.00	181.52	729.8	
5	13726.1	90.00	181.52	9430.0	-4686.3	53.7	0.00	0.00	4686.6	PBHL Red Hills West #12H





Mewbourne Oil Company .

Lea County N.M.

Section 10-26S-32E Red Hills West Unit #12H

Red Hills West #12H

Original Hole

Design: Original Hole

Standard Survey Report

16 March, 2015





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West #12H
Project:	Lea County N.M.	TVD Reference:	3250 + 20 @ 3270.0usft (Patterson)
Site:	Section10-26S-32E Red Hills West Unit #12H	MD Reference:	3250 + 20 @ 3270.0usft (Patterson)
Well:	Red Hills West #12H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea County N.M.		
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	Section10-26S-32E Red Hills West Unit #12H		
Site Position:		Northing:	387,621.50 usft
From:	Map	Easting:	705,853.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 50.201 N
		Longitude:	103° 40' 7.770 W
		Grid Convergence:	0.35 °

Well	Red Hills West #12H		
Well Position	+N/-S	0.0 usft	Northing: 387,621.50 usft
	+E/-W	0.0 usft	Easting: 705,853.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 3' 50.201 N
		Longitude:	103° 40' 7.770 W
		Ground Level:	3,250.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/12/2015	7.24	59.93	48,074

Design	Original Hole			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.52

Survey Program	Date 3/16/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,700.0	MS Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
8,741.0	13,685.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.30	10.68	100.0	0.3	0.0	-0.3	0.30	0.30	0.00	
200.0	0.02	37.39	200.0	0.5	0.1	-0.5	0.28	-0.28	26.71	
300.0	0.70	48.72	300.0	0.9	0.6	-1.0	0.68	0.68	11.33	
400.0	0.98	63.63	400.0	1.7	1.8	-1.8	0.35	0.28	14.91	
500.0	1.19	69.47	500.0	2.5	3.5	-2.6	0.24	0.21	5.84	
600.0	1.18	97.35	599.9	2.7	5.5	-2.9	0.57	-0.01	27.88	
700.0	1.41	122.43	699.9	1.9	7.6	-2.1	0.61	0.23	25.08	
800.0	1.41	139.21	799.9	0.3	9.4	-0.6	0.41	0.00	16.78	
900.0	1.30	144.47	899.9	-1.5	10.9	1.2	0.17	-0.11	5.26	



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section10-26S-32E Red Hills West Unit #12H
Well: Red Hills West #12H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Red Hills West #12H
TVD Reference: 3250 + 20 @ 3270.0usft (Patterson)
MD Reference: 3250 + 20 @ 3270.0usft (Patterson)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	1.30	143.04	999.8	-3.4	12.2	3.0	0.03	0.00	-1.43
1,100.0	1.37	139.67	1,099.8	-5.2	13.7	4.8	0.11	0.07	-3.37
1,200.0	1.45	137.47	1,199.8	-7.0	15.3	6.6	0.10	0.08	-2.20
1,300.0	1.64	135.93	1,299.7	-9.0	17.2	8.5	0.19	0.19	-1.54
1,400.0	1.87	108.94	1,399.7	-10.5	19.7	10.0	0.85	0.23	-26.99
1,500.0	1.79	107.45	1,499.6	-11.5	22.7	10.9	0.09	-0.08	-1.49
1,600.0	1.56	102.94	1,599.6	-12.3	25.6	11.6	0.26	-0.23	-4.51
1,700.0	1.42	97.65	1,699.6	-12.8	28.1	12.0	0.20	-0.14	-5.29
1,800.0	1.15	97.46	1,799.5	-13.1	30.3	12.3	0.27	-0.27	-0.19
1,900.0	0.98	100.36	1,899.5	-13.4	32.2	12.5	0.18	-0.17	2.90
2,000.0	0.95	102.13	1,999.5	-13.7	33.8	12.8	0.04	-0.03	1.77
2,100.0	0.88	92.89	2,099.5	-13.9	35.4	13.0	0.16	-0.07	-9.24
2,200.0	0.61	106.65	2,199.5	-14.1	36.7	13.1	0.32	-0.27	13.76
2,300.0	0.34	101.08	2,299.5	-14.3	37.5	13.3	0.27	-0.27	-5.57
2,400.0	0.42	56.06	2,399.5	-14.2	38.1	13.1	0.30	0.08	-45.02
2,500.0	0.36	33.09	2,499.5	-13.7	38.6	12.7	0.17	-0.06	-22.97
2,600.0	0.91	8.01	2,599.5	-12.6	38.8	11.6	0.60	0.55	-25.08
2,700.0	1.13	348.05	2,699.5	-10.9	38.7	9.9	0.41	0.22	-19.96
2,800.0	0.61	294.87	2,799.5	-9.7	38.1	8.7	0.91	-0.52	-53.18
2,900.0	1.06	249.46	2,899.4	-9.8	36.7	8.8	0.77	0.45	-45.41
3,000.0	1.02	224.43	2,999.4	-10.8	35.2	9.8	0.45	-0.04	-25.03
3,100.0	0.69	150.87	3,099.4	-11.9	34.9	11.0	1.06	-0.33	-73.56
3,200.0	0.73	131.22	3,199.4	-12.9	35.7	11.9	0.25	0.04	-19.65
3,300.0	1.48	93.35	3,299.4	-13.4	37.4	12.4	1.01	0.75	-37.87
3,400.0	1.88	87.45	3,399.4	-13.4	40.4	12.3	0.44	0.40	-5.90
3,500.0	2.32	79.30	3,499.3	-12.9	44.0	11.7	0.53	0.44	-8.15
3,600.0	2.23	85.60	3,599.2	-12.4	47.9	11.1	0.27	-0.09	6.30
3,700.0	2.19	80.80	3,699.1	-11.9	51.7	10.6	0.19	-0.04	-4.80
3,800.0	2.19	82.44	3,799.1	-11.4	55.5	9.9	0.06	0.00	1.64
3,900.0	3.03	100.49	3,899.0	-11.6	60.0	10.0	1.17	0.84	18.05
4,000.0	3.53	109.15	3,998.8	-13.1	65.5	11.4	0.70	0.50	8.66
4,100.0	3.78	118.27	4,098.6	-15.7	71.3	13.8	0.63	0.25	9.12
4,200.0	4.72	127.06	4,198.3	-19.7	77.5	17.6	1.14	0.94	8.79
4,300.0	5.40	132.61	4,297.9	-25.4	84.3	23.1	0.84	0.68	5.55
4,400.0	4.64	134.05	4,397.5	-31.4	90.6	29.0	0.77	-0.76	1.44
4,500.0	4.39	138.09	4,497.2	-37.0	96.1	34.5	0.40	-0.25	4.04
4,600.0	4.04	141.87	4,597.0	-42.7	100.8	40.0	0.45	-0.35	3.78
4,700.0	4.24	141.98	4,696.7	-48.3	105.3	45.5	0.20	0.20	0.11
4,800.0	4.34	146.22	4,796.4	-54.4	109.7	51.5	0.33	0.10	4.24
4,900.0	4.49	145.58	4,896.1	-60.8	114.0	57.7	0.16	0.15	-0.64
5,000.0	4.76	146.48	4,995.8	-67.5	118.5	64.3	0.28	0.27	0.90
5,100.0	5.10	146.90	5,095.4	-74.6	123.2	71.3	0.34	0.34	0.42
5,200.0	5.44	147.14	5,195.0	-82.3	128.2	78.9	0.34	0.34	0.24



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West #12H
Project:	Lea County N.M.	TVD Reference:	3250 + 20 @ 3270.0usft (Patterson)
Site:	Section10-26S-32E Red Hills West Unit #12H	MD Reference:	3250 + 20 @ 3270.0usft (Patterson)
Well:	Red Hills West #12H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	5.92	147.92	5,294.5	-90.7	133.5	87.1	0.49	0.48	0.78
5,400.0	5.87	148.39	5,394.0	-99.4	138.9	95.7	0.07	-0.05	0.47
5,500.0	5.95	148.15	5,493.5	-108.2	144.3	104.3	0.08	0.08	-0.24
5,600.0	6.03	149.29	5,592.9	-117.1	149.8	113.1	0.14	0.08	1.14
5,700.0	6.13	150.90	5,692.3	-126.3	155.0	122.1	0.20	0.10	1.61
5,800.0	5.94	152.04	5,791.8	-135.5	160.1	131.2	0.22	-0.19	1.14
5,900.0	5.58	151.74	5,891.3	-144.4	164.8	139.9	0.36	-0.36	-0.30
6,000.0	3.97	143.45	5,990.9	-151.4	169.2	146.9	1.75	-1.61	-8.29
6,100.0	2.82	126.88	6,090.8	-155.7	173.2	151.0	1.50	-1.15	-16.57
6,200.0	1.33	86.36	6,190.7	-157.1	176.3	152.4	2.00	-1.49	-40.52
6,300.0	0.22	38.65	6,290.7	-156.9	177.6	152.1	1.19	-1.11	-47.71
6,400.0	0.09	238.93	6,390.7	-156.8	177.6	152.0	0.31	-0.13	-159.72
6,500.0	0.13	233.49	6,490.7	-156.9	177.5	152.1	0.04	0.04	-5.44
6,600.0	0.18	287.90	6,590.7	-156.9	177.2	152.1	0.15	0.05	54.41
6,700.0	0.12	94.30	6,690.7	-156.8	177.2	152.1	0.30	-0.06	166.40
6,800.0	0.15	87.49	6,790.7	-156.8	177.4	152.1	0.03	0.03	-6.81
6,900.0	0.15	200.74	6,890.7	-157.0	177.5	152.2	0.25	0.00	113.25
7,000.0	0.12	226.10	6,990.7	-157.2	177.4	152.4	0.07	-0.03	25.36
7,100.0	0.15	15.16	7,090.7	-157.1	177.4	152.3	0.26	0.03	149.06
7,200.0	0.12	27.51	7,190.7	-156.9	177.4	152.1	0.04	-0.03	12.35
7,300.0	0.11	251.95	7,290.7	-156.8	177.4	152.1	0.21	-0.01	-135.56
7,400.0	0.16	40.16	7,390.7	-156.7	177.4	152.0	0.26	0.05	148.21
7,500.0	0.17	197.66	7,490.7	-156.8	177.4	152.0	0.32	0.01	157.50
7,600.0	0.18	215.00	7,590.7	-157.1	177.3	152.3	0.05	0.01	17.34
7,700.0	0.09	296.09	7,690.7	-157.1	177.1	152.4	0.19	-0.09	81.09
7,800.0	0.14	194.95	7,790.7	-157.2	177.0	152.5	0.18	0.05	-101.14
7,900.0	0.05	320.08	7,890.7	-157.3	177.0	152.6	0.17	-0.09	125.13
8,000.0	0.08	9.86	7,990.7	-157.2	177.0	152.5	0.06	0.03	49.78
8,100.0	0.08	11.85	8,090.7	-157.1	177.0	152.3	0.00	0.00	1.99
8,200.0	0.10	20.68	8,190.7	-156.9	177.0	152.2	0.02	0.02	8.83
8,300.0	0.14	329.66	8,290.7	-156.7	177.0	152.0	0.11	0.04	-51.02
8,400.0	0.26	346.50	8,390.7	-156.4	176.9	151.7	0.13	0.12	16.84
8,500.0	0.22	309.10	8,490.7	-156.1	176.7	151.3	0.16	-0.04	-37.40
8,600.0	0.81	273.31	8,590.7	-155.9	176.8	151.2	0.67	0.62	35.79
8,700.0	1.00	299.25	8,690.7	-155.4	174.3	150.8	0.44	0.16	25.94
8700' MD MS Gyro Survey									
8,741.0	1.30	267.80	8,731.7	-155.3	173.5	150.6	1.68	0.73	-76.71
8,773.0	3.00	209.40	8,763.6	-156.0	172.8	151.4	8.03	5.31	-182.50
8,804.0	6.20	195.60	8,794.5	-158.3	171.9	153.7	10.85	10.32	-44.52
8,836.0	9.80	189.60	8,826.2	-162.7	171.0	158.1	11.53	11.25	-18.75
8,868.0	13.50	188.40	8,857.6	-169.1	170.0	164.5	11.59	11.56	-3.75
8,900.0	15.60	186.10	8,888.5	-177.1	169.0	172.5	6.81	6.56	-7.19
8,932.0	17.00	182.50	8,919.2	-186.0	168.3	181.5	5.39	4.38	-11.25



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Design: Original Hole

Local Co-ordinate Reference: Well Red Hills West #12H
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MD Reference: 3250 + 20 @ 3270.0usft (Patterson)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,963.0	18.50	178.00	8,948.8	-195.4	168.3	190.9	6.55	4.84	-14.52
8,995.0	19.90	175.00	8,979.0	-205.9	169.0	201.4	5.35	4.38	-9.38
9,027.0	21.80	175.80	9,008.9	-217.3	169.9	212.7	6.00	5.94	2.50
9,059.0	23.60	177.00	9,038.4	-229.6	170.6	225.0	5.81	5.63	3.75
9,090.0	25.50	176.80	9,066.6	-242.5	171.3	237.9	6.13	6.13	-0.65
9,122.0	27.90	176.80	9,095.2	-256.8	172.1	252.2	7.50	7.50	0.00
9,154.0	30.10	177.90	9,123.2	-272.3	172.9	267.7	7.07	6.88	3.44
9,185.0	32.30	178.60	9,149.7	-288.4	173.3	283.7	7.19	7.10	2.26
9,217.0	35.30	178.60	9,176.3	-306.2	173.8	301.5	9.38	9.38	0.00
9,249.0	38.30	178.40	9,201.9	-325.3	174.3	320.6	9.38	9.38	-0.63
9,281.0	41.50	178.60	9,226.4	-345.9	174.8	341.1	10.01	10.00	0.63
9,313.0	42.00	179.90	9,250.3	-367.2	175.1	362.4	3.12	1.56	4.06
9,345.0	45.20	180.70	9,273.5	-389.2	175.0	384.4	10.15	10.00	2.50
9,376.0	46.90	182.10	9,295.0	-411.5	174.4	406.8	6.38	5.48	4.52
9,408.0	46.10	184.10	9,317.0	-434.7	173.2	430.0	5.18	-2.50	6.25
9,440.0	48.00	182.30	9,338.8	-458.1	171.9	453.4	7.22	5.94	-5.63
9,472.0	52.40	182.50	9,359.3	-482.7	170.8	477.9	13.76	13.75	0.63
9,504.0	58.10	184.00	9,377.5	-508.9	169.3	504.2	18.22	17.81	4.69
9,536.0	64.00	185.50	9,393.0	-536.8	167.0	532.2	18.89	18.44	4.69
9,568.0	70.60	185.60	9,405.4	-566.1	164.2	561.6	20.63	20.63	0.31
9,592.5	75.58	184.07	9,412.5	-589.5	162.2	585.0	21.20	20.34	-6.23
LP Red Hills West #12H									
9,597.0	76.50	183.80	9,413.6	-593.9	161.9	589.3	21.20	20.37	-6.06
9,629.0	79.50	182.10	9,420.2	-625.1	160.3	620.6	10.72	9.38	-5.31
9,661.0	81.30	181.40	9,425.6	-656.6	159.3	652.2	6.02	5.63	-2.19
9,693.0	84.30	181.20	9,429.6	-688.4	158.6	683.9	9.40	9.38	-0.63
9,725.0	87.10	181.30	9,432.0	-720.3	157.9	715.8	8.76	8.75	0.31
9,756.0	89.50	181.10	9,432.9	-751.3	157.2	746.8	7.77	7.74	-0.65
9,788.0	90.10	180.60	9,433.0	-783.3	156.8	778.8	2.44	1.88	-1.56
9,852.0	91.70	180.40	9,432.0	-847.2	156.2	842.8	2.52	2.50	-0.31
9,915.0	90.30	181.10	9,430.9	-910.2	155.4	905.8	2.48	-2.22	1.11
9,978.0	90.40	181.70	9,430.5	-973.2	153.8	968.8	0.97	0.16	0.95
10,042.0	90.50	180.60	9,430.0	-1,037.2	152.6	1,032.8	1.73	0.16	-1.72
10,105.0	92.00	180.80	9,428.6	-1,100.2	151.8	1,095.7	2.40	2.38	0.32
10,169.0	91.40	181.40	9,426.7	-1,164.1	150.6	1,159.7	1.33	-0.94	0.94
10,232.0	89.80	180.80	9,426.1	-1,227.1	149.4	1,222.7	2.71	-2.54	-0.95
10,296.0	90.40	180.60	9,426.0	-1,291.1	148.6	1,286.7	0.99	0.94	-0.31
10,359.0	89.80	181.40	9,425.9	-1,354.1	147.5	1,349.7	1.59	-0.95	1.27
10,423.0	91.40	182.50	9,425.2	-1,418.0	145.3	1,413.7	3.03	2.50	1.72
10,485.0	89.80	182.40	9,424.5	-1,480.0	142.6	1,475.7	2.59	-2.58	-0.16
10,549.0	88.60	182.10	9,425.4	-1,543.9	140.1	1,539.7	1.93	-1.88	-0.47
10,613.0	88.90	181.50	9,426.8	-1,607.9	138.1	1,603.7	1.05	0.47	-0.94
10,676.0	87.00	180.60	9,429.1	-1,670.8	137.0	1,666.6	3.34	-3.02	-1.43
10,740.0	88.40	181.40	9,431.7	-1,734.8	135.9	1,730.5	2.52	2.19	1.25



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section10-26S-32E Red Hills West Unit #12H
Well: Red Hills West #12H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Red Hills West #12H
TVD Reference: 3250 + 20 @ 3270.0usft (Patterson)
MD Reference: 3250 + 20 @ 3270.0usft (Patterson)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,803.0	88.00	181.30	9,433.6	-1,797.7	134.4	1,793.5	0.65	-0.63	-0.16
10,867.0	90.50	182.30	9,434.5	-1,861.7	132.4	1,857.5	4.21	3.91	1.56
10,930.0	91.30	181.80	9,433.5	-1,924.6	130.1	1,920.5	1.50	1.27	-0.79
10,994.0	91.80	181.80	9,431.8	-1,988.6	128.1	1,984.5	0.78	0.78	0.00
11,057.0	92.40	181.30	9,429.4	-2,051.5	126.4	2,047.4	1.24	0.95	-0.79
11,121.0	90.40	182.10	9,427.9	-2,115.4	124.5	2,111.4	3.37	-3.13	1.25
11,185.0	90.50	182.00	9,427.4	-2,179.4	122.2	2,175.4	0.22	0.16	-0.16
11,248.0	91.10	181.10	9,426.5	-2,242.4	120.5	2,238.4	1.72	0.95	-1.43
11,312.0	88.10	180.80	9,426.9	-2,306.4	119.4	2,302.4	4.71	-4.69	-0.47
11,375.0	87.40	180.20	9,429.4	-2,369.3	118.9	2,365.3	1.46	-1.11	-0.95
11,439.0	90.00	180.60	9,430.9	-2,433.3	118.4	2,429.3	4.11	4.06	0.63
11,502.0	90.20	180.20	9,430.8	-2,496.3	118.0	2,492.3	0.71	0.32	-0.63
11,566.0	91.30	180.40	9,429.9	-2,560.3	117.7	2,556.3	1.75	1.72	0.31
11,630.0	92.10	180.60	9,428.0	-2,624.2	117.1	2,620.2	1.29	1.25	0.31
11,693.0	91.20	180.60	9,426.2	-2,687.2	116.5	2,683.2	1.43	-1.43	0.00
11,756.0	89.10	180.50	9,426.0	-2,750.2	115.9	2,746.2	3.34	-3.33	-0.16
11,852.0	90.80	179.90	9,426.1	-2,846.2	115.5	2,842.1	1.88	1.77	-0.63
11,884.0	89.90	180.00	9,425.9	-2,878.2	115.5	2,874.1	2.83	-2.81	0.31
11,948.0	88.60	179.90	9,426.8	-2,942.2	115.6	2,938.1	2.04	-2.03	-0.16
12,012.0	88.60	180.10	9,428.3	-3,006.2	115.6	3,002.1	0.31	0.00	0.31
12,139.0	88.20	179.40	9,431.9	-3,133.1	116.2	3,128.9	0.63	-0.31	-0.55
12,234.0	90.60	182.70	9,432.9	-3,228.1	114.4	3,223.9	4.29	2.53	3.47
12,329.0	92.40	183.00	9,430.4	-3,322.9	109.7	3,318.8	1.92	1.89	0.32
12,425.0	90.70	181.40	9,427.8	-3,418.8	106.0	3,414.8	2.43	-1.77	-1.67
12,520.0	91.00	182.20	9,426.4	-3,513.8	103.0	3,509.8	0.90	0.32	0.84
12,615.0	89.90	182.60	9,425.6	-3,608.7	99.0	3,604.8	1.23	-1.16	0.42
12,711.0	89.50	182.60	9,426.1	-3,704.6	94.7	3,700.8	0.42	-0.42	0.00
12,806.0	90.10	181.40	9,426.5	-3,799.5	91.4	3,795.7	1.41	0.63	-1.26
12,901.0	89.20	181.60	9,427.1	-3,894.5	88.9	3,890.7	0.97	-0.95	0.21
12,996.0	89.50	181.20	9,428.1	-3,989.4	86.6	3,985.7	0.53	0.32	-0.42
13,091.0	90.80	180.60	9,427.9	-4,084.4	85.1	4,080.7	1.51	1.37	-0.63
13,186.0	88.20	181.10	9,428.7	-4,179.4	83.7	4,175.7	2.79	-2.74	0.53
13,282.0	88.70	181.10	9,431.3	-4,275.3	81.8	4,271.7	0.52	0.52	0.00
13,377.0	89.90	181.00	9,432.5	-4,370.3	80.1	4,366.7	1.27	1.26	-0.11
13,472.0	91.30	180.10	9,431.5	-4,465.3	79.2	4,461.6	1.75	1.47	-0.95
13,566.0	92.40	180.30	9,428.4	-4,559.3	78.8	4,555.6	1.19	1.17	0.21
13,642.0	93.40	179.80	9,424.6	-4,635.2	78.8	4,631.4	1.47	1.32	-0.66
13,685.0	93.40	179.80	9,422.0	-4,678.1	78.9	4,674.3	0.00	0.00	0.00

13685' MD Projected to Bit - PBHL Red Hills West #12H



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section10-26S-32E Red Hills West Unit #12H
Well: Red Hills West #12H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Red Hills West #12H
TVD Reference: 3250 + 20 @ 3270.0usft (Patterson)
MD Reference: 3250 + 20 @ 3270.0usft (Patterson)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,700.0	8,690.7	-155.4	174.3	8700' MD MS Gyro Survey
13,685.0	9,422.0	-4,678.1	78.9	13685' MD Projected to Bit

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
HobbsFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM128927

- 1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM125386A2. Name of Operator
MEWBOURNE OIL COMPANY ☒ Contact: JACKIE LATHAN
E-Mail: jlathan@mewbourne.com8. Lease Name and Well No.
RED HILLS WEST UNIT 12H ☒3. Address
HOBBS, NM 882413a. Phone No. (include area code)
Ph: 575-393-59059. API Well No.
30-025-42417-00-S1 ☒

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NWNW 330FNL 660FWL 32.035065 N Lat, 103.400947 W Lon

At top prod interval reported below NWNW 975FNL 819FWL

At total depth SWSW 330FSL 660FWL

MAR 28 2016

RECEIVED

14. Date Spudded
02/17/201515. Date T.D. Reached
03/15/201516. Date Completed
☐ D & A ☒ Ready to Prod.
05/07/201517. Elevations (DF, KB, RT, GL)*
3251 GL18. Total Depth: MD
TVD13685
942219. Plug Back T.D.: MD
TVD13680
942220. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DIDNOTLOG.22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0	0	1070	0	1000	297	0	0
12.250	9.625 J55	36.0	0	4178	0	0	0	0	0
8.750	5.500 P110	17.0	0	13680	0	1250	666	0	0
12.250	9.625 N80	40.0	4178	4450	0	1250	445	0	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875		9367						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
BOMB SPRINGS UPPER SHAL	8612	13685	8612 TO 13685	0.000	760	OPEN (97838) BS U SHALE
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9650 TO 13665	40,000 GALS 15% ACID, 7,200,480 GALS SLICK WATER CARRYING 4,449,380# 100 MESH, 1,951,140# 40/70

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/09/2015	05/11/2015	24	→	186.0	59.0	1588.0	49.0	0.79	FLOW FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
38/64	SI	180.0	→	186	59	1588	317	POW	MAR 21 2016

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #302563 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Reclamation was due: 11/09/2015

MAR 29 2016

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
BONE SPRING	8612	13685	OIL & GAS	RUSTLER TOP OF SALT BASE OF SALT DELAWARE BELL CANYON MANZANITA BRUSHY CANYON BONE SPRING	979 1130 4314 4462 4537 5725 7070 8612

32. Additional remarks (include plugging procedure):

Did not log. Received an log exemption from Zeke Salaz 03/13/2015.

We are asking for an exemption from tubing at this time.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #302563 Verified by the BLM Well Information System.
For MEWBOURNE OIL COMPANY, sent to the Hobbs
Committed to AFMSS for processing by LINDA JIMENEZ on 07/27/2015 (15LJ1326SE)**

Name (please print) JACKIE LATHAN

Title AUTHORIZED REPRESENTATIVE

Signature _____ (Electronic Submission)

Date 05/21/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241		² OGRID Number 14744
		³ Reason for Filing Code/ Effective Date New Well / 05/09/15
⁴ API Number 30 - 025 - 42217	⁵ Pool Name Jennings; Upper Bone Spring Shale	⁶ Pool Code 97838
⁷ Property Code 39542	⁸ Property Name Red Hills West Unit	⁹ Well Number 012H

II. ¹⁰ Surface Location

UL or lot no. D	Section 10	Township 26S	Range 32E	Lot Idn	Feet from the 330	North/South Line North	Feet from the 660	East/West line West	County Lea
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¹¹ Bottom Hole Location

UL or lot no. M	Section 10	Township 26S	Range 32E	Lot Idn	Feet from the 338	North/South line South	Feet from the 685	East/West line West	County Lea
¹² Lse Code F	¹³ Producing Method Code Flowing	¹⁴ Gas Connection Date 05/09/15	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID 35246	¹⁹ Transporter Name and Address Shell Trading US Co. PO Box 4604 Houston, TX 77210	²⁰ O/G/W O
298751	Regency Energy 301 Commerce Street Ste 700 Ft. Worth, TX 76102	G

IV. Well Completion Data

We are asking for an exemption from tubing at this time.

²¹ Spud Date 02/17/15	²² Ready Date 05/09/15	²³ TD 13685' MD	²⁴ PBTB 13680	²⁵ Perforations 9650' - 13665'	²⁶ DHC, MC NA
²⁷ Hole Size 17 1/2"	²⁸ Casing & Tubing Size 13 3/4"	²⁹ Depth Set 1070'	³⁰ Sacks Cement 1000		
12 1/4"	9 5/8"	4450'	1250		
8 3/4"	5 1/2"	13680'	1250		

V. Well Test Data

³¹ Date New Oil 05/09/15	³² Gas Delivery Date 05/09/15	³³ Test Date 05/11/15	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure NA	³⁶ Csg. Pressure 180
³⁷ Choke Size 38/64	³⁸ Oil 186	³⁹ Water 1588	⁴⁰ Gas 59		⁴¹ Test Method Producing

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Jackie Lathan

Printed name:

Jackie Lathan

Title:

Regulatory

E-mail Address:

jlathan@mewbourne.com

Date:

05/20/15

Phone:

575-393-5905

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: