

OPERATOR
WELL/LEASE
COUNTY

Mewbourne Oil Company
Fuller 13/24 B2LM Fed Com 1H
Eddy, New Mexico

231-0024

STATE OF NEW MEXICO
DEVIATION REPORT

15-43009

727	0.20
1,530	1.67
1,997	1.93
2,407	1.49
2,900	6.20
3,176	3.52
4,197	0.44
4,367	0.18
4,462	0.44
4,840	1.14
4,934	0.18
6,298	0.50
6,308	0.60
6,777	0.68
6,959	1.14

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 20 2016

RECEIVED

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.

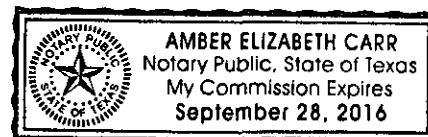
2/4/16

, by

Amber Elizabeth Carr

Notary Public for Midland County, Texas

My Commission Expires:





Mewbourne Oil Company

**Eddy County, New Mexico
Sec 13, T26S, R29E
Fuller 13/24 B2LM Fed #1H**

Wellbore #1

Design: Wellbore #1

DDC Survey Report

29 December, 2015

NM OIL CONSERVATION
ARTESTA DISTRICT

JUN 20 2016

RECEIVED





DDC
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fuller 13/24 B2LM Fed #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2977.0usft (Patterson #231)
Site:	Sec 13, T26S, R29E	MD Reference:	WELL @ 2977.0usft (Patterson #231)
Well:	Fuller 13/24 B2LM Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, New Mexico		
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	Sec 13, T26S, R29E		
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Site Position:		Northing:	379,076.30 usft	Latitude:	32° 2' 29.752 N
From:	Map	Easting:	620,635.10 usft	Longitude:	103° 56' 38.424 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.21 °

Well	Fuller 13/24 B2LM Fed #1H					
Well Position	+N/-S	0.0 usft	Northing:	379,076.30 usft	Latitude:	32° 2' 29.752 N
	+E/-W	0.0 usft	Easting:	620,635.10 usft	Longitude:	103° 56' 38.424 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	2,957.0 usft	

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/16/2015	7.28	59.85	47,955

Design	Wellbore #1				
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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	180.02

Survey Program		Date	12/29/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,100.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro	
8,196.0	16,158.0	MWD (Wellbore #1)	MWD default	MWD - Standard	

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	0.42	89.92	100.0	0.0	0.4	0.0	0.42	0.42	0.00	
200.0	1.07	124.18	200.0	-0.5	1.5	0.5	0.76	0.65	34.26	
300.0	1.29	110.92	300.0	-1.5	3.3	1.4	0.35	0.22	-13.26	
400.0	1.39	132.79	399.9	-2.7	5.3	2.7	0.52	0.10	21.87	
500.0	1.85	169.17	499.9	-5.1	6.5	5.1	1.10	0.46	36.38	
600.0	2.31	177.34	599.8	-8.7	6.9	8.7	0.55	0.46	8.17	
700.0	2.54	192.29	699.8	-12.9	6.5	12.9	0.67	0.23	14.95	
800.0	2.84	197.44	799.6	-17.4	5.3	17.4	0.38	0.30	5.15	
900.0	2.68	202.25	899.5	-21.9	3.6	21.9	0.28	-0.16	4.81	



DDC Survey Report



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Site:	Sec 13, T26S, R29E	MD Reference:	WELL @ 2977.0usft (Patterson #231)
Well:	Fuller 13/24 B2LM Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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	2.10	206.99	999.4	-25.7	1.9	25.7	0.61	-0.58	4.74
1,100.0	2.11	194.31	1,099.4	-29.1	0.6	29.1	0.46	0.01	-12.68
1,200.0	2.22	203.64	1,199.3	-32.7	-0.6	32.7	0.37	0.11	9.33
1,300.0	2.00	205.28	1,299.2	-36.0	-2.1	36.0	0.23	-0.22	1.64
1,400.0	2.00	201.18	1,399.2	-39.2	-3.5	39.2	0.14	0.00	-4.10
1,500.0	1.99	209.75	1,499.1	-42.4	-5.0	42.4	0.30	-0.01	8.57
1,600.0	2.00	210.98	1,599.0	-45.4	-6.7	45.4	0.04	0.01	1.23
1,700.0	2.00	209.52	1,699.0	-48.4	-8.5	48.4	0.05	0.00	-1.46
1,800.0	1.85	213.66	1,798.9	-51.3	-10.3	51.3	0.20	-0.15	4.14
1,900.0	1.52	223.85	1,898.9	-53.6	-12.1	53.6	0.44	-0.33	10.19
2,000.0	1.43	223.55	1,998.9	-55.4	-13.8	55.4	0.09	-0.09	-0.30
2,100.0	1.63	231.14	2,098.8	-57.2	-15.8	57.2	0.28	0.20	7.59
2,200.0	1.73	231.16	2,198.8	-59.1	-18.1	59.1	0.10	0.10	0.02
2,300.0	2.12	226.65	2,298.7	-61.3	-20.6	61.3	0.42	0.39	-4.51
2,400.0	1.95	222.47	2,398.7	-63.8	-23.1	63.8	0.23	-0.17	-4.18
2,500.0	2.10	135.44	2,498.6	-66.4	-23.0	66.4	2.79	0.15	-87.03
2,600.0	2.46	127.19	2,598.5	-69.0	-20.0	69.0	0.49	0.36	-8.25
2,700.0	4.04	114.69	2,698.4	-71.7	-15.1	71.7	1.72	1.58	-12.50
2,800.0	6.00	113.44	2,798.0	-75.3	-7.1	75.3	1.96	1.96	-1.25
2,900.0	7.27	109.19	2,897.3	-79.4	3.7	79.4	1.36	1.27	-4.25
3,000.0	6.00	103.81	2,996.6	-82.8	14.7	82.8	1.41	-1.27	-5.38
3,100.0	4.54	110.61	3,096.2	-85.4	23.5	85.4	1.59	-1.46	6.80
3,200.0	3.20	116.65	3,196.0	-88.1	29.7	88.0	1.40	-1.34	6.04
3,300.0	2.53	114.97	3,295.9	-90.2	34.2	90.2	0.68	-0.67	-1.68
3,400.0	2.41	121.10	3,395.8	-92.3	38.0	92.2	0.29	-0.12	6.13
3,500.0	2.24	123.60	3,495.7	-94.4	41.5	94.4	0.20	-0.17	2.50
3,600.0	1.93	118.41	3,595.6	-96.3	44.6	96.3	0.36	-0.31	-5.19
3,700.0	1.36	110.32	3,695.6	-97.5	47.2	97.5	0.61	-0.57	-8.09
3,800.0	1.13	116.77	3,795.6	-98.4	49.1	98.4	0.27	-0.23	6.45
3,900.0	0.99	91.26	3,895.5	-98.8	50.9	98.8	0.49	-0.14	-25.51
4,000.0	0.49	119.44	3,995.5	-99.1	52.1	99.0	0.60	-0.50	28.18
4,100.0	0.33	102.45	4,095.5	-99.3	52.8	99.3	0.20	-0.16	-16.99
4,200.0	0.19	145.55	4,195.5	-99.5	53.2	99.5	0.23	-0.14	43.10
4,300.0	0.19	203.36	4,295.5	-99.8	53.2	99.8	0.18	0.00	57.81
4,400.0	0.36	257.98	4,395.5	-100.0	52.8	100.0	0.29	0.17	54.62
4,500.0	0.41	243.93	4,495.5	-100.3	52.2	100.2	0.11	0.05	-14.05
4,600.0	0.45	260.69	4,595.5	-100.5	51.5	100.5	0.13	0.04	16.76
4,700.0	0.54	298.00	4,695.5	-100.3	50.7	100.3	0.33	0.09	37.31
4,800.0	0.64	279.20	4,795.5	-100.0	49.7	100.0	0.22	0.10	-18.80
4,900.0	0.63	281.62	4,895.5	-99.8	48.6	99.8	0.03	-0.01	2.42
5,000.0	0.68	278.18	4,995.5	-99.6	47.5	99.6	0.06	0.05	-3.44
5,100.0	0.66	275.33	5,095.5	-99.5	46.3	99.5	0.04	-0.02	-2.85
5,200.0	0.53	298.08	5,195.5	-99.2	45.3	99.2	0.27	-0.13	22.75



DDC Survey Report



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Site:	Sec 13, T26S, R29E	MD Reference:	WELL @ 2977.0usft (Patterson #231)
Well:	Fuller 13/24 B2LM Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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	0.90	289.71	5,295.5	-98.7	44.2	98.7	0.38	0.37	-8.37	
5,400.0	1.01	316.60	5,395.5	-97.8	42.9	97.8	0.46	0.11	26.89	
5,500.0	1.14	320.84	5,495.4	-96.4	41.6	96.4	0.15	0.13	4.24	
5,600.0	0.99	316.80	5,595.4	-95.0	40.4	95.0	0.17	-0.15	-4.04	
5,700.0	0.50	289.97	5,695.4	-94.2	39.4	94.2	0.59	-0.49	-26.83	
5,800.0	0.34	317.81	5,795.4	-93.9	38.8	93.9	0.25	-0.16	27.84	
5,900.0	0.65	304.68	5,895.4	-93.3	38.1	93.3	0.33	0.31	-13.13	
6,000.0	0.66	273.10	5,995.4	-93.0	37.1	93.0	0.36	0.01	-31.58	
6,100.0	0.55	280.72	6,095.4	-92.9	36.0	92.8	0.14	-0.11	7.62	
6,200.0	0.67	257.05	6,195.4	-92.9	35.0	92.9	0.28	0.12	-23.67	
6,300.0	0.68	263.61	6,295.4	-93.1	33.8	93.1	0.08	0.01	6.56	
6,400.0	0.39	225.11	6,395.4	-93.4	33.0	93.4	0.45	-0.29	-38.50	
6,500.0	0.95	216.14	6,495.4	-94.3	32.3	94.3	0.57	0.56	-8.97	
6,600.0	1.06	213.66	6,595.4	-95.7	31.3	95.7	0.12	0.11	-2.48	
6,700.0	1.19	208.74	6,695.3	-97.4	30.3	97.4	0.16	0.13	-4.92	
6,800.0	1.14	216.00	6,795.3	-99.1	29.2	99.1	0.16	-0.05	7.26	
6,900.0	1.32	225.20	6,895.3	-100.8	27.8	100.7	0.27	0.18	9.20	
7,000.0	1.81	238.13	6,995.3	-102.4	25.6	102.4	0.60	0.49	12.93	
7,100.0	3.26	273.05	7,095.2	-103.1	21.4	103.1	2.06	1.45	34.92	
7,200.0	3.59	292.63	7,195.0	-101.7	15.7	101.7	1.21	0.33	19.58	
7,300.0	3.46	341.51	7,294.8	-97.7	11.9	97.7	2.92	-0.13	48.88	
7,400.0	3.37	344.69	7,394.6	-92.0	10.1	92.0	0.21	-0.09	3.18	
7,500.0	3.26	348.98	7,494.5	-86.3	8.8	86.3	0.27	-0.11	4.29	
7,600.0	4.04	27.72	7,594.3	-80.4	9.9	80.4	2.53	0.78	38.74	
7,700.0	3.24	15.43	7,694.1	-74.6	12.3	74.6	1.11	-0.80	-12.29	
7,800.0	5.02	350.97	7,793.8	-67.5	12.4	67.5	2.47	1.78	-24.46	
7,900.0	4.25	353.38	7,893.5	-59.5	11.2	59.5	0.79	-0.77	2.41	
8,000.0	3.49	8.36	7,993.3	-52.8	11.3	52.8	1.26	-0.76	14.98	
Gyro Tie-in @ 8100' MD / 8093' TVD										
8,100.0	3.36	12.68	8,093.1	-47.0	12.3	47.0	0.29	-0.13	4.32	
8,196.0	2.80	15.50	8,189.0	-42.0	13.6	42.0	0.60	-0.58	2.94	
8,228.0	0.80	85.30	8,220.9	-41.2	14.0	41.2	8.23	-6.25	218.13	
8,259.0	6.40	154.90	8,251.9	-42.7	15.0	42.7	19.89	18.06	224.52	
8,291.0	11.90	157.40	8,283.5	-47.4	17.0	47.4	17.23	17.19	7.81	
8,322.0	18.50	161.40	8,313.4	-55.0	19.8	55.0	21.55	21.29	12.90	
8,354.0	23.00	162.50	8,343.3	-65.8	23.3	65.8	14.11	14.06	3.44	
8,385.0	25.20	171.30	8,371.6	-78.1	26.1	78.1	13.57	7.10	28.39	
8,417.0	29.40	170.70	8,400.0	-92.6	28.4	92.6	13.15	13.13	-1.88	
8,449.0	33.70	171.60	8,427.3	-109.2	31.0	109.1	13.52	13.44	2.81	
8,480.0	37.60	173.00	8,452.5	-127.1	33.4	127.0	12.85	12.58	4.52	
8,512.0	40.40	177.40	8,477.3	-147.1	35.1	147.1	12.30	8.75	13.75	
8,543.0	41.50	178.30	8,500.7	-167.4	35.8	167.4	4.03	3.55	2.90	
8,575.0	42.20	179.70	8,524.6	-188.8	36.2	188.7	3.65	2.19	4.38	



DDC Survey Report



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8,606.0	42.20	180.20	8,547.5	-209.6	36.2	209.6	1.08	0.00	1.61
8,638.0	43.80	180.90	8,571.0	-231.4	36.0	231.4	5.22	5.00	2.19
8,669.0	45.80	181.30	8,592.9	-253.2	35.6	253.2	6.52	6.45	1.29
Crossed Hard Line @ 8678' MD / 8599' TVD									
8,678.1	46.48	181.39	8,599.3	-259.8	35.4	259.8	7.53	7.50	0.96
8,701.0	48.20	181.60	8,614.8	-276.6	35.0	276.6	7.53	7.50	0.93
8,732.0	48.90	180.40	8,635.3	-299.9	34.6	299.9	3.68	2.26	-3.87
8,763.0	49.80	178.80	8,655.5	-323.4	34.7	323.4	4.87	2.90	-5.16
8,795.0	50.30	177.90	8,676.0	-347.9	35.4	347.9	2.66	1.56	-2.81
8,826.0	51.50	177.90	8,695.6	-371.9	36.3	371.9	3.87	3.87	0.00
8,858.0	52.10	177.60	8,715.4	-397.1	37.3	397.1	2.01	1.88	-0.94
8,889.0	54.60	177.60	8,733.9	-421.9	38.4	421.9	8.06	8.06	0.00
8,921.0	55.80	177.20	8,752.1	-448.2	39.6	448.2	3.89	3.75	-1.25
8,952.0	57.70	178.30	8,769.1	-474.1	40.6	474.1	6.81	6.13	3.55
8,983.0	58.70	178.50	8,785.5	-500.4	41.3	500.4	3.27	3.23	0.65
9,015.0	60.60	180.10	8,801.6	-528.0	41.6	528.0	7.34	5.94	5.00
9,084.0	66.50	181.10	8,832.4	-589.8	41.0	589.8	8.65	8.55	1.45
9,115.0	69.70	182.00	8,843.9	-618.5	40.2	618.5	10.67	10.32	2.90
9,147.0	72.40	181.60	8,854.3	-648.8	39.2	648.7	8.52	8.44	-1.25
9,179.0	73.30	180.60	8,863.8	-679.3	38.7	679.3	4.10	2.81	-3.13
9,210.0	73.50	179.90	8,872.6	-709.0	38.5	709.0	2.26	0.65	-2.26
9,241.0	76.60	179.90	8,880.6	-739.0	38.6	739.0	10.00	10.00	0.00
9,273.0	79.80	179.70	8,887.1	-770.3	38.7	770.3	10.02	10.00	-0.63
9,305.0	81.90	179.50	8,892.2	-801.9	38.9	801.9	6.59	6.56	-0.63
9,336.0	81.70	178.60	8,896.7	-832.6	39.4	832.6	2.95	-0.65	-2.90
9,399.0	81.10	178.80	8,906.1	-894.8	40.8	894.8	1.00	-0.95	0.32
9,494.0	87.30	179.00	8,915.7	-989.3	42.6	989.3	6.53	6.53	0.21
9,588.0	89.10	178.80	8,918.6	-1,083.2	44.5	1,083.2	1.93	1.91	-0.21
9,683.0	90.80	180.20	8,918.7	-1,178.2	45.3	1,178.2	2.32	1.79	1.47
9,778.0	89.90	179.50	8,918.1	-1,273.2	45.5	1,273.2	1.20	-0.95	-0.74
9,872.0	92.90	180.20	8,915.8	-1,367.2	45.8	1,367.2	3.28	3.19	0.74
9,967.0	92.60	179.50	8,911.3	-1,462.1	46.0	1,462.1	0.80	-0.32	-0.74
10,062.0	92.00	180.40	8,907.5	-1,557.0	46.1	1,557.0	1.14	-0.63	0.95
10,156.0	89.00	180.10	8,906.6	-1,651.0	45.7	1,651.0	3.21	-3.19	-0.32
10,250.0	87.80	179.90	8,909.3	-1,744.9	45.7	1,744.9	1.29	-1.28	-0.21
10,345.0	89.30	179.50	8,911.7	-1,839.9	46.2	1,839.9	1.63	1.58	-0.42
10,440.0	90.90	180.40	8,911.5	-1,934.9	46.3	1,934.9	1.93	1.68	0.95
10,534.0	89.90	179.50	8,910.8	-2,028.9	46.4	2,028.9	1.43	-1.06	-0.96
10,629.0	89.80	179.40	8,911.1	-2,123.9	47.3	2,123.9	0.15	-0.11	-0.11
10,724.0	89.80	179.20	8,911.4	-2,218.9	48.4	2,218.9	0.21	0.00	-0.21
10,818.0	88.80	178.50	8,912.6	-2,312.9	50.3	2,312.8	1.30	-1.06	-0.74
10,913.0	87.40	178.50	8,915.7	-2,407.8	52.8	2,407.7	1.47	-1.47	0.00
11,007.0	90.50	178.80	8,917.4	-2,501.7	55.0	2,501.7	3.31	3.30	0.32
11,102.0	89.20	177.20	8,917.7	-2,596.6	58.3	2,596.6	2.17	-1.37	-1.68



DDC Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fuller 13/24 B2LM Fed #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2977.0usft (Patterson #231)
Site:	Sec 13, T26S, R29E	MD Reference:	WELL @ 2977.0usft (Patterson #231)
Well:	Fuller 13/24 B2LM Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
11,196.0	93.00	180.90	8,915.9	-2,690.6	59.9	2,690.6	5.64	4.04	3.94
11,291.0	91.90	181.30	8,911.8	-2,785.5	58.1	2,785.5	1.23	-1.16	0.42
11,385.0	92.30	181.40	8,908.4	-2,879.4	55.9	2,879.4	0.44	0.43	0.11
11,480.0	90.60	182.00	8,906.0	-2,974.3	53.0	2,974.3	1.90	-1.79	0.63
11,574.0	89.80	183.60	8,905.7	-3,068.2	48.4	3,068.2	1.90	-0.85	1.70
11,668.0	88.30	182.30	8,907.2	-3,162.1	43.6	3,162.0	2.11	-1.60	-1.38
11,762.0	90.30	182.70	8,908.4	-3,256.0	39.5	3,255.9	2.17	2.13	0.43
11,857.0	88.80	181.40	8,909.1	-3,350.9	36.1	3,350.9	2.09	-1.58	-1.37
11,951.0	91.90	182.00	8,908.5	-3,444.8	33.3	3,444.8	3.36	3.30	0.64
12,046.0	91.60	179.90	8,905.6	-3,539.8	31.8	3,539.8	2.23	-0.32	-2.21
12,140.0	90.50	180.10	8,903.9	-3,633.8	31.8	3,633.7	1.19	-1.17	0.21
12,235.0	89.30	179.20	8,904.1	-3,728.7	32.3	3,728.7	1.58	-1.26	-0.95
12,329.0	88.20	179.40	8,906.1	-3,822.7	33.5	3,822.7	1.19	-1.17	0.21
12,424.0	87.40	179.00	8,909.8	-3,917.6	34.8	3,917.6	0.94	-0.84	-0.42
12,519.0	88.60	177.90	8,913.1	-4,012.5	37.4	4,012.5	1.71	1.26	-1.16
12,613.0	88.60	175.80	8,915.4	-4,106.4	42.5	4,106.3	2.23	0.00	-2.23
12,707.0	90.00	176.90	8,916.5	-4,200.2	48.5	4,200.1	1.89	1.49	1.17
12,802.0	92.40	176.70	8,914.5	-4,295.0	53.8	4,295.0	2.54	2.53	-0.21
12,896.0	92.30	177.20	8,910.7	-4,388.8	58.8	4,388.8	0.54	-0.11	0.53
12,990.0	92.50	178.30	8,906.8	-4,482.6	62.5	4,482.6	1.19	0.21	1.17
13,084.0	90.90	176.90	8,904.0	-4,576.5	66.4	4,576.5	2.26	-1.70	-1.49
13,178.0	91.80	178.50	8,901.7	-4,670.4	70.2	4,670.4	1.95	0.96	1.70
13,272.0	89.90	177.60	8,900.4	-4,764.3	73.4	4,764.3	2.24	-2.02	-0.96
13,365.0	89.70	177.40	8,900.7	-4,857.2	77.5	4,857.2	0.30	-0.22	-0.22
13,459.0	88.60	177.40	8,902.1	-4,951.1	81.7	4,951.1	1.17	-1.17	0.00
13,553.0	88.60	178.30	8,904.4	-5,045.0	85.3	5,045.0	0.96	0.00	0.96
13,648.0	90.70	179.20	8,905.0	-5,140.0	87.3	5,140.0	2.40	2.21	0.95
13,742.0	91.80	179.20	8,902.9	-5,234.0	88.6	5,233.9	1.17	1.17	0.00
13,836.0	89.70	178.50	8,901.7	-5,327.9	90.5	5,327.9	2.35	-2.23	-0.74
13,931.0	94.60	180.20	8,898.1	-5,422.8	91.6	5,422.8	5.46	5.16	1.79
14,025.0	94.70	180.20	8,890.5	-5,516.5	91.3	5,516.5	0.11	0.11	0.00
14,120.0	94.20	180.80	8,883.1	-5,611.2	90.5	5,611.2	0.82	-0.53	0.63
14,214.0	94.40	180.10	8,876.1	-5,704.9	89.7	5,704.9	0.77	0.21	-0.74
14,309.0	93.80	179.40	8,869.3	-5,799.7	90.1	5,799.7	0.97	-0.63	-0.74
14,403.0	89.30	180.10	8,866.7	-5,893.6	90.5	5,893.6	4.84	-4.79	0.74
14,435.0	87.80	180.90	8,867.5	-5,925.6	90.3	5,925.6	5.31	-4.69	2.50
14,466.0	87.40	180.80	8,868.8	-5,956.6	89.8	5,956.6	1.33	-1.29	-0.32
14,498.0	87.00	180.60	8,870.4	-5,988.6	89.4	5,988.5	1.40	-1.25	-0.63
14,529.0	86.70	180.90	8,872.1	-6,019.5	89.0	6,019.5	1.37	-0.97	0.97
14,561.0	86.10	180.90	8,874.1	-6,051.4	88.5	6,051.4	1.88	-1.88	0.00
14,592.0	85.60	180.80	8,876.4	-6,082.4	88.0	6,082.3	1.64	-1.61	-0.32
14,624.0	85.10	180.80	8,879.0	-6,114.2	87.6	6,114.2	1.56	-1.56	0.00
14,656.0	85.20	181.60	8,881.7	-6,146.1	86.9	6,146.1	2.51	0.31	2.50



DDC
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fuller 13/24 B2LM Fed #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2977.0usft (Patterson #231)
Site:	Sec 13, T26S, R29E	MD Reference:	WELL @ 2977.0usft (Patterson #231)
Well:	Fuller 13/24 B2LM Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
14,688.0	85.70	181.60	8,884.2	-6,178.0	86.0	6,178.0	1.56	1.56	0.00
14,719.0	86.60	181.60	8,886.3	-6,208.9	85.2	6,208.9	2.90	2.90	0.00
14,750.0	86.80	181.60	8,888.1	-6,239.9	84.3	6,239.8	0.65	0.65	0.00
14,781.0	89.00	180.60	8,889.2	-6,270.8	83.7	6,270.8	7.79	7.10	-3.23
14,844.0	92.70	180.80	8,888.3	-6,333.8	82.9	6,333.8	5.88	5.87	0.32
14,876.0	92.20	180.60	8,886.9	-6,365.8	82.6	6,365.8	1.68	-1.56	-0.63
14,907.0	91.70	180.40	8,885.8	-6,396.8	82.3	6,396.7	1.74	-1.61	-0.65
14,939.0	90.70	180.40	8,885.2	-6,428.8	82.1	6,428.7	3.13	-3.13	0.00
14,970.0	89.60	180.20	8,885.1	-6,459.8	81.9	6,459.7	3.61	-3.55	-0.65
15,002.0	89.00	179.70	8,885.5	-6,491.8	81.9	6,491.7	2.44	-1.88	-1.56
15,033.0	89.10	179.90	8,886.0	-6,522.7	82.0	6,522.7	0.72	0.32	0.65
15,064.0	88.90	179.40	8,886.5	-6,553.7	82.2	6,553.7	1.74	-0.65	-1.61
15,096.0	88.30	179.70	8,887.3	-6,585.7	82.5	6,585.7	2.10	-1.88	0.94
15,158.0	90.00	180.90	8,888.2	-6,647.7	82.2	6,647.7	3.36	2.74	1.94
15,252.0	89.10	180.10	8,889.0	-6,741.7	81.3	6,741.7	1.28	-0.96	-0.85
15,347.0	92.80	180.80	8,887.4	-6,836.7	80.6	6,836.7	3.96	3.89	0.74
15,442.0	91.90	180.80	8,883.5	-6,931.6	79.3	6,931.6	0.95	-0.95	0.00
15,536.0	91.50	180.90	8,880.7	-7,025.5	77.9	7,025.5	0.44	-0.43	0.11
15,630.0	90.90	182.50	8,878.7	-7,119.5	75.1	7,119.4	1.82	-0.64	1.70
15,725.0	90.00	184.30	8,878.0	-7,214.3	69.4	7,214.3	2.12	-0.95	1.89
15,820.0	90.80	185.00	8,877.3	-7,309.0	61.7	7,309.0	1.12	0.84	0.74
15,914.0	90.20	185.50	8,876.5	-7,402.6	53.1	7,402.6	0.83	-0.64	0.53
16,009.0	89.30	185.30	8,876.9	-7,497.2	44.2	7,497.1	0.97	-0.95	-0.21
16,103.0	88.60	185.50	8,878.7	-7,590.7	35.4	7,590.7	0.77	-0.74	0.21
TD @ 16158' MD / 8880' TVD									
16,158.0	88.60	185.50	8,880.0	-7,645.5	30.1	7,645.4	0.00	0.00	0.00

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,100.0	8,093.1	-47.0	12.3	Gyro Tie-in @ 8100' MD / 8093' TVD
8,678.1	8,599.3	-259.8	35.4	Crossed Hard Line @ 8678' MD / 8599' TVD
16,158.0	8,880.0	-7,645.5	30.1	TD @ 16158' MD / 8880' TVD

Checked By: _____ Approved By: _____ Date: _____

NM OIL CONSERVATION ARTESIA DISTRICT

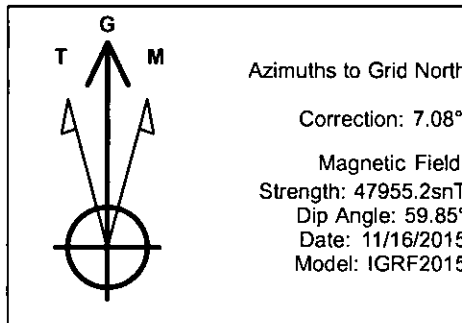
Company Name: Mewbourne Oil Company
Fuller 13/24 B2LM Fed #1H
Eddy County, New Mexico
Rig: Patterson #231
Created By: Shane Robbins
Date: 12/29/2015

Fuller 13/24 B2LM Fed #1H
Eddy County, New Mexico
Q150851 & WT-150731
Design #2 Tied into Gyro

RECEIVED



MEWBOURNE
OIL COMPANY



PROJECT DETAILS: Eddy County, New Mexico

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

WELL DETAILS: Fuller 13/24 B2LM Fed #1H

Ground Level: 2957.0
Northing: 370078.50
Easting: 820833.02
Latitude: 32° 1' 13.906 N
Longitude: 103° 58' 38.424 W

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
PBHL Fuller 13/24 B2LM Fed #1H - plan hits target center	8887.0	-7057.0	-2.1	371418.41	820833.02	32° 1' 13.906 N	103° 58' 38.789 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	VSec1	Departure	Annotation
8100.0	3.36	12.68	8083.1	-47.0	12.3	47.0	264.5	Gyro Tie-In @ 8100' MD / 8083' TVD
8578.1	48.45	181.39	8589.3	-259.8	35.4	259.8	489.3	Crossed Hard Line @ 8578' MD / 8589' TVD
16159.0	58.50	185.50	8880.0	-7845.5	30.1	7845.4	7585.2	TD @ 16159' MD / 8880' TVD

