

District I
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District II
811 S. First St., Artesia, NM 88210
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District III
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

EMNRD-OCD ARTESIA
REC'D: 5/08/2020 Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46267	² Pool Code 60660	³ Pool Name Turkey Track; Bone Spring
⁴ Property Code 326089	⁵ Property Name WISHBONE 35/34 B3PM FEDERAL COM	
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 2H
		⁹ Elevation 3434'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
1	35	18S	29E		640	SOUTH	275	EAST	EDDY

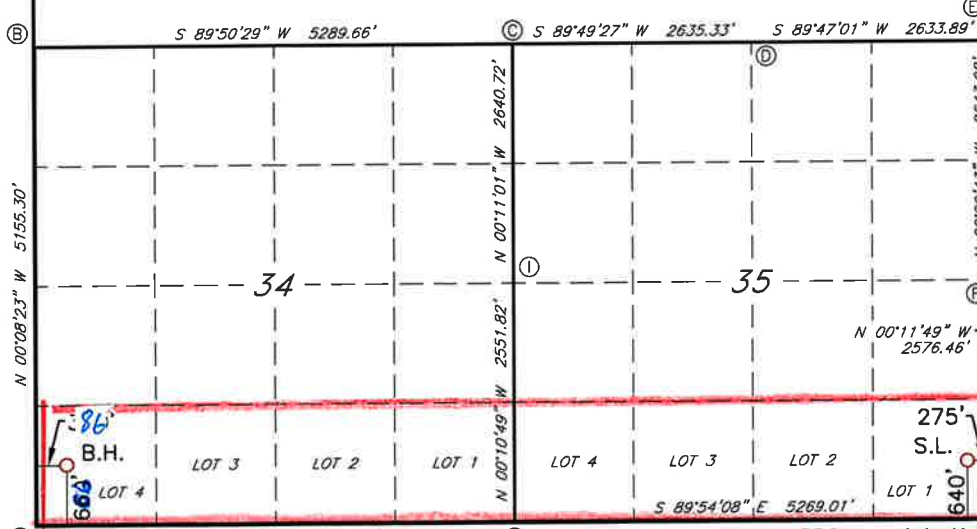
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	34	18S	29E		<i>606</i>	SOUTH	<i>86</i>	WEST	EDDY

¹² Dedicated Acres <i>320</i>	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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298.97

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

¹⁶ GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N 618023.6 - E 632264.7 LAT: 32.6986411° N LONG: 104.0377459° W BOTTOM HOLE N 618073.1 - E 622310.2 LAT: 32.6988492° N LONG: 104.0701054° W			CORNER DATA NAD 83 GRID - NM EAST A: FOUND 1/2" REBAR N 617414.7 - E 621981.9 B: FOUND BRASS CAP "1916" N 622568.7 - E 621969.3 C: FOUND BRASS CAP "1916" N 622583.4 - E 627257.6 D: FOUND BRASS CAP "1916" N 622591.5 - E 629892.3 E: FOUND 1/2" REBAR N 622601.4 - E 632525.6			F: FOUND BRASS CAP "1916" N 619959.0 - E 632533.0 G: FOUND 1 1/2" IRON PIPE N 617383.1 - E 632541.9 H: FOUND 2" GALVANIZED PIPE N 617392.1 - E 627274.1 I: FOUND BRASS CAP "1916" N 619943.3 - E 627266.1		
¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Jackie Lathan</i> 02/27/2020 Signature Date Jackie Lathan Printed Name E-mail Address			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 6-4-18 Date of Survey Signature and Seal of Professional Surveyor  19680 Certificate Number					
¹⁹ WELL LOCATION AND ACREAGE DEDICATION PLAT 								

RRC - Job No.:

LS1806735

Intent ☐ As Drilled ☒

API # 30-015-46267		
Operator Name: Mewbourne Oil Company	Property Name: Wishbone 35/34 B3PM Fed Com	Well Number #2H

Kick Off Point (KOP)

UL P	Section 35	Township 14S	Range 29E	Lot	Feet 655	From N/S S	Feet 25	From E/W E	County Edwards
Latitude 32.6986800					Longitude -104.0369294			NAD 83	

First Take Point (FTP)

UL P	Section 35	Township 14S	Range 29E	Lot	Feet 666	From N/S S	Feet 353	From E/W E	County Edwards
Latitude 32.6987133					Longitude -104.0380047			NAD 83	

Last Take Point (LTP)

UL M	Section 34	Township 14S	Range 29E	Lot	Feet 606	From N/S S	Feet 154	From E/W W	County Edwards
Latitude 32.6987111					Longitude -104.0706797			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☒

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-46268		
Operator Name: Mewbourne Oil Co.	Property Name: Wishbone 35/34 B2PM Fed Com #	Well Number 1H

KZ 06/29/2018

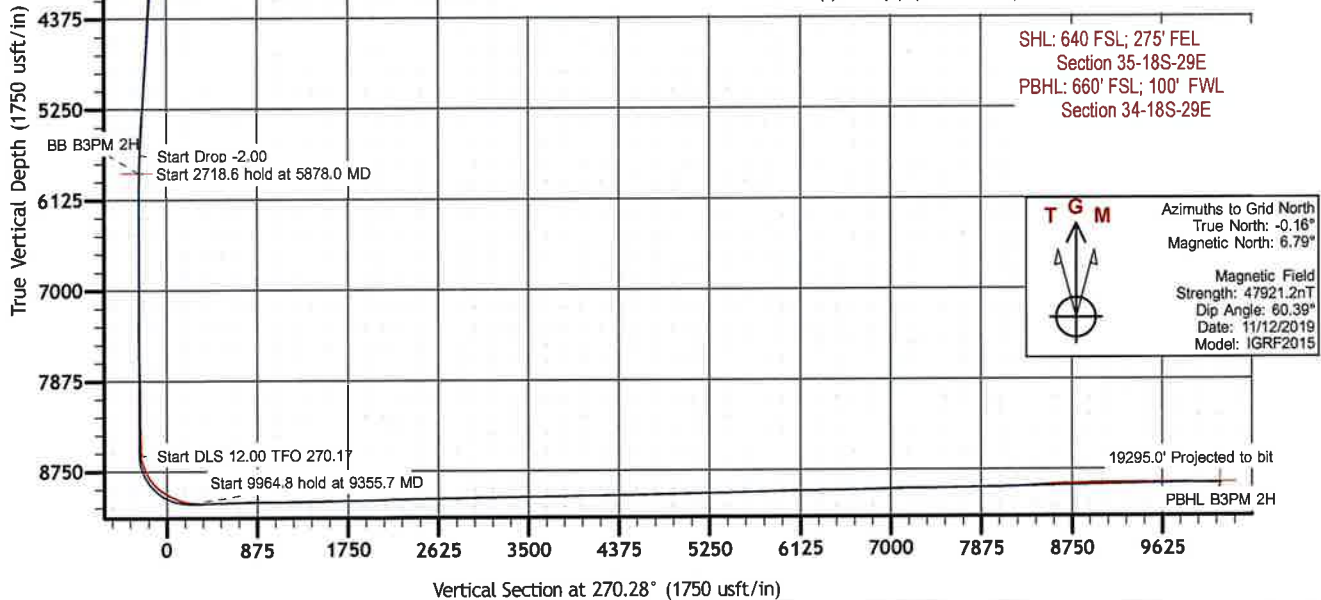
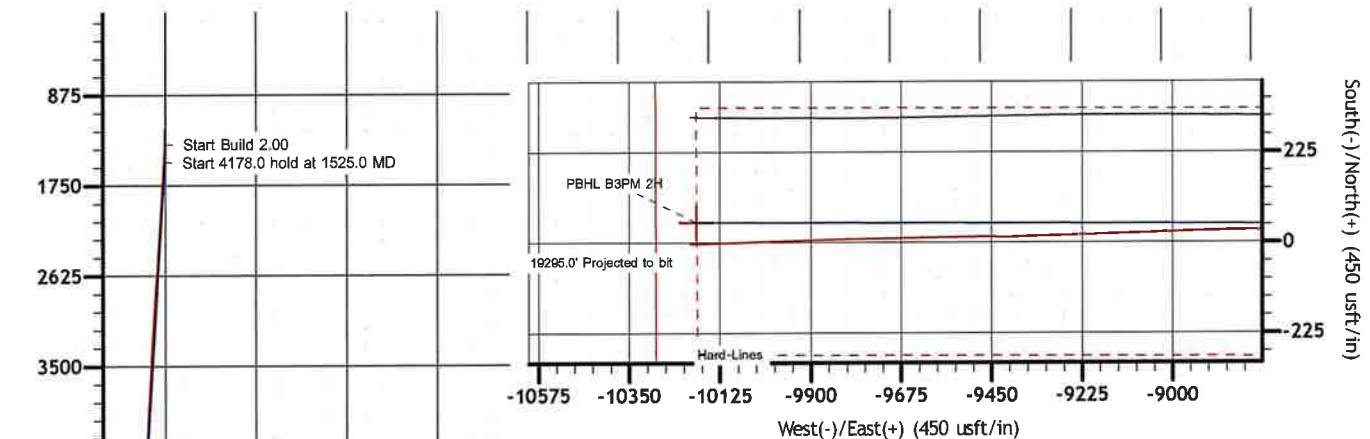
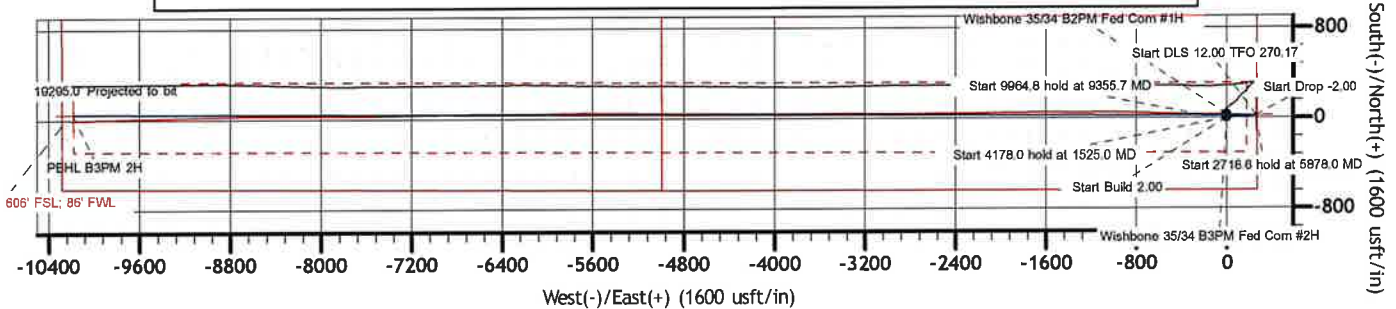


COMPANY: Mewbourne Oil Company
WELL: Wishbone 35/34 B3PM Fed Com #2H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 217

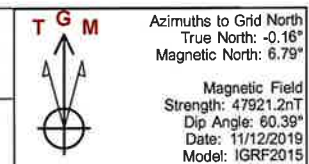


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.79°

GEODETIC ZONE: New Mexico Eastern Zone 3434+27 @ 3461.0usft (Patterson 217) GROUND ELEVATION: 3434.0											Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude						
0.0	0.0	618023.60	632264.70	32° 41' 55.108 N	104° 2' 15.885 W						
PLAN SECTIONS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	1350.0	0.00	0.00	1350.0	0.0	0.0	0.00	0.00	0.0		
3	1525.0	3.50	85.68	1524.9	0.4	5.3	2.00	85.68	-5.3		
4	5703.0	3.50	85.68	5695.1	19.6	259.7	0.00	0.00	-259.6		
5	5878.0	0.00	0.00	5870.0	20.0	265.0	2.00	180.00	-264.9	BB B3PM 2H	
6	8596.6	0.00	0.00	8588.6	20.0	265.0	0.00	0.00	-264.9		
7	9355.7	91.09	270.17	9066.0	21.4	-221.6	12.00	270.17	221.7		
8	19320.5	91.09	270.17	8876.0	50.5	-10184.5	0.00	0.00	10184.6	PBHL B3PM 2H	



SHL: 640 FSL; 275' FEL
Section 35-18S-29E
PBHL: 660' FSL; 100' FWL
Section 34-18S-29E





Mewbourne Oil Company

**Eddy County, N.M. Nad (83)
Section 35-18S-29E Wishbone
Wishbone 35/34 B3PM Fed Com #2H**

Original Hole

Design: As Drilled

Standard Survey Report

28 January, 2020





Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wishbone 35/34 B3PM Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Site:	Section 35-18S-29E Wishbone	MD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Well:	Wishbone 35/34 B3PM Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM5000

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Section 35-18S-29E Wishbone				
Site Position:		Northing:	618,053.60 usft	Latitude:	32° 41' 55.405 N	
From:	Map	Easting:	632,264.60 usft	Longitude:	104° 2' 15.885 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 °

Well	Wishbone 35/34 B3PM Fed Com #2H					
Well Position	+N/-S	0.0 usft	Northing:	618,023.60 usft	Latitude:	32° 41' 55.108
	+E/-W	0.0 usft	Easting:	632,264.70 usft	Longitude:	104° 2' 15.885 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,434.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/12/19	6.95	60.39	47,921.24452973

Design	As Drilled				
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	269.98	

Survey Program	Date	01/28/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	1,215.0	Gyro Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
1,343.0	19,295.0	Stryker Surveys (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	0.51	195.56	100.0	-0.4	-0.1	0.1	0.51	0.51	0.00	
200.0	0.44	126.29	200.0	-1.1	0.1	-0.1	0.54	-0.07	-69.27	
300.0	0.55	165.80	300.0	-1.8	0.5	-0.5	0.35	0.11	39.51	
400.0	1.34	175.77	400.0	-3.4	0.7	-0.7	0.80	0.79	9.97	
500.0	1.33	167.70	500.0	-5.7	1.0	-1.0	0.19	-0.01	-8.07	
600.0	0.98	187.25	599.9	-7.7	1.2	-1.2	0.52	-0.35	19.55	
700.0	0.65	170.48	699.9	-9.1	1.2	-1.2	0.40	-0.33	-16.77	
800.0	0.53	150.69	799.9	-10.1	1.5	-1.5	0.23	-0.12	-19.79	
900.0	0.55	91.22	899.9	-10.5	2.2	-2.2	0.54	0.02	-59.47	



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wishbone 35/34 B3PM Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Site:	Section 35-18S-29E Wishbone	MD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Well:	Wishbone 35/34 B3PM Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM5000

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	1.13	101.38	999.9	-10.7	3.6	-3.6	0.60	0.58	10.16
1,100.0	0.79	69.84	1,099.9	-10.6	5.2	-5.2	0.62	-0.34	-31.54
1,200.0	0.80	85.58	1,199.9	-10.3	6.6	-6.6	0.22	0.01	15.74
1,215.0	0.99	70.83	1,214.9	-10.3	6.8	-6.8	1.98	1.27	-98.33
First Stryker Surveys									
1,343.0	0.50	70.70	1,342.9	-9.7	8.4	-8.4	0.38	-0.38	-0.10
1,437.0	3.10	73.90	1,436.8	-8.9	11.2	-11.2	2.77	2.77	3.40
1,626.0	4.20	68.30	1,625.4	-4.9	22.6	-22.6	0.61	0.58	-2.96
1,815.0	3.60	92.30	1,814.0	-2.6	34.9	-34.9	0.91	-0.32	12.70
2,004.0	3.60	70.30	2,002.6	-0.8	46.4	-46.4	0.73	0.00	-11.64
2,194.0	3.70	83.30	2,192.3	1.9	58.1	-58.1	0.44	0.05	6.84
2,383.0	3.90	86.20	2,380.8	3.0	70.6	-70.6	0.15	0.11	1.53
2,572.0	3.70	87.70	2,569.4	3.7	83.1	-83.1	0.12	-0.11	0.79
2,762.0	3.90	88.80	2,759.0	4.1	95.7	-95.7	0.11	0.11	0.58
2,951.0	3.50	82.10	2,947.6	5.0	107.8	-107.8	0.31	-0.21	-3.54
3,140.0	3.70	83.30	3,136.2	6.5	119.6	-119.6	0.11	0.11	0.63
3,330.0	2.90	81.10	3,325.9	8.0	130.5	-130.5	0.43	-0.42	-1.16
3,520.0	2.80	78.20	3,515.7	9.7	139.7	-139.7	0.09	-0.05	-1.53
3,710.0	2.90	75.30	3,705.5	11.8	148.9	-148.9	0.09	0.05	-1.53
3,899.0	2.90	76.30	3,894.2	14.2	158.2	-158.2	0.03	0.00	0.53
4,089.0	3.00	85.20	4,084.0	15.7	167.8	-167.8	0.25	0.05	4.68
4,278.0	3.10	88.40	4,272.7	16.3	177.9	-177.9	0.10	0.05	1.69
4,468.0	2.90	85.90	4,462.4	16.8	187.8	-187.8	0.13	-0.11	-1.32
4,656.0	3.30	82.60	4,650.2	17.8	197.9	-197.9	0.23	0.21	-1.76
4,846.0	3.50	85.70	4,839.8	18.9	209.1	-209.1	0.14	0.11	1.63
5,035.0	3.50	89.60	5,028.5	19.4	220.6	-220.6	0.13	0.00	2.06
5,225.0	3.30	83.00	5,218.1	20.1	231.9	-231.9	0.23	-0.11	-3.47
5,414.0	3.80	86.30	5,406.8	21.2	243.5	-243.5	0.29	0.26	1.75
5,604.0	2.80	95.20	5,596.5	21.2	254.4	-254.4	0.59	-0.53	4.68
5,792.0	1.40	94.10	5,784.3	20.6	261.3	-261.3	0.74	-0.74	-0.59
5,982.0	0.40	52.80	5,974.3	20.8	264.1	-264.1	0.60	-0.53	-21.74
6,172.0	1.00	7.40	6,164.3	22.9	264.9	-264.9	0.41	0.32	-23.89
6,361.0	0.70	15.80	6,353.3	25.6	265.4	-265.4	0.17	-0.16	4.44
6,550.0	0.90	310.10	6,542.2	27.7	264.6	-264.6	0.47	0.11	-34.76
6,739.0	0.10	252.40	6,731.2	28.6	263.3	-263.3	0.45	-0.42	-30.53
6,928.0	0.30	85.00	6,920.2	28.6	263.6	-263.6	0.21	0.11	-88.57
7,116.0	0.70	69.10	7,108.2	29.0	265.2	-265.2	0.22	0.21	-8.46
7,306.0	0.30	57.90	7,298.2	29.7	266.7	-266.7	0.22	-0.21	-5.89
7,496.0	0.50	359.60	7,488.2	30.8	267.1	-267.1	0.22	0.11	-30.68
7,685.0	2.20	249.40	7,677.2	30.4	263.7	-263.7	1.28	0.90	-58.31
7,874.0	1.50	202.40	7,866.1	26.8	259.4	-259.4	0.85	-0.37	-24.87
8,062.0	0.60	230.60	8,054.1	23.9	257.7	-257.7	0.54	-0.48	15.00
8,251.0	1.30	243.10	8,243.0	22.3	255.0	-255.0	0.38	0.37	6.61



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wishbone 35/34 B3PM Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Site:	Section 35-18S-29E Wishbone	MD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Well:	Wishbone 35/34 B3PM Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM5000

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)
8,437.0	2.00	185.00	8,429.0	18.1	252.8	-252.8	0.92	0.38	-31.24
8,512.0	1.80	212.70	8,503.9	15.8	252.1	-252.1	1.24	-0.27	36.93
8,560.0	1.60	245.30	8,551.9	14.9	251.0	-251.1	2.03	-0.42	67.92
8,592.0	4.50	277.50	8,583.9	14.9	249.4	-249.4	10.19	9.06	100.63
8,639.0	10.40	286.20	8,630.4	16.3	243.5	-243.5	12.74	12.55	18.51
8,686.0	16.00	281.40	8,676.2	18.8	233.1	-233.1	12.13	11.91	-10.21
8,733.0	21.80	275.30	8,720.6	20.9	218.0	-218.0	13.02	12.34	-12.98
8,781.0	26.10	271.10	8,764.5	21.9	198.6	-198.6	9.63	8.96	-8.75
8,828.0	29.70	267.60	8,806.0	21.6	176.6	-176.6	8.41	7.66	-7.45
8,875.0	35.70	269.00	8,845.6	20.9	151.2	-151.2	12.87	12.77	2.98
8,922.0	42.90	269.70	8,881.9	20.5	121.5	-121.5	15.35	15.32	1.49
8,969.0	49.60	270.50	8,914.4	20.6	87.5	-87.5	14.31	14.26	1.70
9,016.0	54.50	272.00	8,943.3	21.4	50.5	-50.5	10.72	10.43	3.19
9,063.0	58.90	272.70	8,969.1	23.1	11.3	-11.3	9.44	9.36	1.49
9,110.0	63.10	271.70	8,991.9	24.6	-29.8	29.8	9.13	8.94	-2.13
9,157.0	66.50	271.70	9,011.9	25.9	-72.3	72.3	7.23	7.23	0.00
9,204.0	70.30	270.80	9,029.2	26.8	-116.0	116.0	8.28	8.09	-1.91
9,251.0	74.10	269.80	9,043.5	27.1	-160.7	160.7	8.33	8.09	-2.13
9,298.0	80.50	269.00	9,053.9	26.6	-206.6	206.5	13.72	13.62	-1.70
9,344.0	84.90	269.80	9,059.7	26.1	-252.2	252.2	9.72	9.57	1.74
9,433.0	91.40	274.90	9,062.6	29.8	-341.0	341.0	9.28	7.30	5.73
9,473.0	91.50	271.40	9,061.6	32.0	-380.9	380.9	8.75	0.25	-8.75
9,567.0	91.50	272.00	9,059.1	34.7	-474.8	474.8	0.64	0.00	0.64
9,661.0	91.80	272.00	9,056.4	38.0	-568.7	568.7	0.32	0.32	0.00
9,755.0	91.40	272.00	9,053.8	41.3	-662.6	662.6	0.43	-0.43	0.00
9,848.0	90.70	271.90	9,052.1	44.5	-755.6	755.5	0.76	-0.75	-0.11
9,942.0	90.00	271.30	9,051.5	47.1	-849.5	849.5	0.98	-0.74	-0.64
10,037.0	89.90	271.30	9,051.6	49.2	-944.5	944.5	0.11	-0.11	0.00
10,132.0	89.50	269.90	9,052.1	50.2	-1,039.5	1,039.5	1.53	-0.42	-1.47
10,226.0	90.60	269.30	9,052.0	49.6	-1,133.5	1,133.5	1.33	1.17	-0.64
10,321.0	91.30	270.00	9,050.4	49.0	-1,228.5	1,228.4	1.04	0.74	0.74
10,416.0	91.30	270.00	9,048.3	49.0	-1,323.4	1,323.4	0.00	0.00	0.00
10,511.0	91.30	270.50	9,046.1	49.4	-1,418.4	1,418.4	0.53	0.00	0.53
10,605.0	90.90	270.70	9,044.3	50.4	-1,512.4	1,512.4	0.48	-0.43	0.21
10,700.0	91.30	270.50	9,042.5	51.4	-1,607.4	1,607.3	0.47	0.42	-0.21
10,795.0	91.50	269.80	9,040.2	51.6	-1,702.3	1,702.3	0.77	0.21	-0.74
10,888.0	91.50	269.30	9,037.7	50.9	-1,795.3	1,795.3	0.54	0.00	-0.54
10,983.0	91.30	268.70	9,035.4	49.3	-1,890.3	1,890.2	0.67	-0.21	-0.63
11,078.0	92.00	268.90	9,032.7	47.3	-1,985.2	1,985.2	0.77	0.74	0.21
11,173.0	92.00	268.60	9,029.4	45.2	-2,080.1	2,080.1	0.32	0.00	-0.32
11,267.0	92.00	269.20	9,026.1	43.4	-2,174.0	2,174.0	0.64	0.00	0.64
11,361.0	91.60	269.30	9,023.1	42.2	-2,268.0	2,268.0	0.44	-0.43	0.11
11,456.0	90.90	270.00	9,021.0	41.6	-2,363.0	2,362.9	1.04	-0.74	0.74



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wishbone 35/34 B3PM Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Site:	Section 35-18S-29E Wishbone	MD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Well:	Wishbone 35/34 B3PM Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM5000

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)
11,550.0	90.90	269.80	9,019.6	41.4	-2,456.9	2,456.9	0.21	0.00	-0.21
11,644.0	90.80	269.80	9,018.2	41.1	-2,550.9	2,550.9	0.11	-0.11	0.00
11,739.0	90.90	270.10	9,016.8	41.0	-2,645.9	2,645.9	0.33	0.11	0.32
11,834.0	90.80	269.80	9,015.4	40.9	-2,740.9	2,740.9	0.33	-0.11	-0.32
11,928.0	90.90	270.30	9,014.0	41.0	-2,834.9	2,834.9	0.54	0.11	0.53
12,022.0	90.70	269.80	9,012.7	41.1	-2,928.9	2,928.9	0.57	-0.21	-0.53
12,117.0	90.80	269.80	9,011.4	40.8	-3,023.9	3,023.9	0.11	0.11	0.00
12,210.0	90.90	270.40	9,010.0	40.9	-3,116.9	3,116.9	0.65	0.11	0.65
12,305.0	90.80	270.40	9,008.6	41.6	-3,211.9	3,211.9	0.11	-0.11	0.00
12,398.0	90.80	270.20	9,007.3	42.1	-3,304.9	3,304.8	0.22	0.00	-0.22
12,493.0	90.80	270.00	9,006.0	42.2	-3,399.8	3,399.8	0.21	0.00	-0.21
12,587.0	90.80	270.00	9,004.7	42.2	-3,493.8	3,493.8	0.00	0.00	0.00
12,682.0	90.80	270.00	9,003.4	42.2	-3,588.8	3,588.8	0.00	0.00	0.00
12,777.0	90.80	270.10	9,002.0	42.3	-3,683.8	3,683.8	0.11	0.00	0.11
12,871.0	90.80	269.90	9,000.7	42.3	-3,777.8	3,777.8	0.21	0.00	-0.21
12,966.0	90.80	269.90	8,999.4	42.2	-3,872.8	3,872.8	0.00	0.00	0.00
13,060.0	90.80	269.80	8,998.1	41.9	-3,966.8	3,966.8	0.11	0.00	-0.11
13,155.0	90.90	270.20	8,996.7	41.9	-4,061.8	4,061.8	0.43	0.11	0.42
13,249.0	90.90	269.90	8,995.2	42.0	-4,155.8	4,155.8	0.32	0.00	-0.32
13,344.0	90.90	270.40	8,993.7	42.2	-4,250.8	4,250.7	0.53	0.00	0.53
13,438.0	91.00	270.40	8,992.1	42.9	-4,344.7	4,344.7	0.11	0.11	0.00
13,532.0	91.50	270.10	8,990.1	43.3	-4,438.7	4,438.7	0.62	0.53	-0.32
13,627.0	90.90	270.20	8,988.1	43.6	-4,533.7	4,533.7	0.64	-0.63	0.11
13,721.0	90.90	270.40	8,986.6	44.0	-4,627.7	4,627.7	0.21	0.00	0.21
13,814.0	90.90	270.30	8,985.2	44.6	-4,720.7	4,720.7	0.11	0.00	-0.11
13,909.0	91.40	270.50	8,983.3	45.3	-4,815.6	4,815.6	0.57	0.53	0.21
14,004.0	91.50	270.50	8,980.9	46.1	-4,910.6	4,910.6	0.11	0.11	0.00
14,098.0	91.60	270.90	8,978.3	47.3	-5,004.6	5,004.6	0.44	0.11	0.43
14,183.0	92.00	270.70	8,975.6	48.4	-5,089.5	5,089.5	0.53	0.47	-0.24
14,284.0	91.60	270.50	8,972.5	49.5	-5,190.5	5,190.4	0.44	-0.40	-0.20
14,377.0	91.20	270.20	8,970.2	50.1	-5,283.4	5,283.4	0.54	-0.43	-0.32
14,472.0	91.20	270.40	8,968.2	50.6	-5,378.4	5,378.4	0.21	0.00	0.21
14,557.0	91.00	270.50	8,966.6	51.2	-5,463.4	5,463.4	0.26	-0.24	0.12
14,651.0	91.50	270.50	8,964.5	52.0	-5,557.4	5,557.3	0.53	0.53	0.00
14,746.0	91.60	270.80	8,962.0	53.1	-5,652.3	5,652.3	0.33	0.11	0.32
14,841.0	91.20	269.10	8,959.6	53.0	-5,747.3	5,747.3	1.84	-0.42	-1.79
14,936.0	91.40	268.70	8,957.5	51.2	-5,842.3	5,842.2	0.47	0.21	-0.42
15,030.0	91.60	268.40	8,955.0	48.8	-5,936.2	5,936.2	0.38	0.21	-0.32
15,125.0	90.90	268.50	8,952.9	46.3	-6,031.1	6,031.1	0.74	-0.74	0.11
15,219.0	90.70	269.10	8,951.6	44.3	-6,125.1	6,125.1	0.67	-0.21	0.64
15,314.0	90.70	269.80	8,950.5	43.4	-6,220.1	6,220.1	0.74	0.00	0.74
15,409.0	90.80	270.30	8,949.2	43.5	-6,315.1	6,315.1	0.54	0.11	0.53
15,503.0	90.70	270.30	8,948.0	44.0	-6,409.1	6,409.1	0.11	-0.11	0.00
15,597.0	91.20	270.30	8,946.4	44.5	-6,503.1	6,503.0	0.53	0.53	0.00



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wishbone 35/34 B3PM Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Site:	Section 35-18S-29E Wishbone	MD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Well:	Wishbone 35/34 B3PM Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM5000

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)
15,692.0	90.80	269.90	8,944.8	44.6	-6,598.0	6,598.0	0.60	-0.42	-0.42
15,787.0	91.60	269.90	8,942.8	44.5	-6,693.0	6,693.0	0.84	0.84	0.00
15,881.0	90.80	269.80	8,940.8	44.2	-6,787.0	6,787.0	0.86	-0.85	-0.11
15,975.0	91.50	269.80	8,938.9	43.9	-6,881.0	6,881.0	0.74	0.74	0.00
16,070.0	90.80	269.30	8,937.0	43.1	-6,976.0	6,975.9	0.91	-0.74	-0.53
16,165.0	91.90	268.80	8,934.8	41.6	-7,070.9	7,070.9	1.27	1.16	-0.53
16,247.0	92.00	267.30	8,932.0	38.8	-7,152.8	7,152.8	1.83	0.12	-1.83
16,340.0	90.50	269.00	8,930.0	35.8	-7,245.7	7,245.7	2.44	-1.61	1.83
16,433.0	89.80	269.20	8,929.7	34.3	-7,338.7	7,338.7	0.78	-0.75	0.22
16,525.0	89.20	269.40	8,930.5	33.2	-7,430.7	7,430.7	0.69	-0.65	0.22
16,617.0	90.70	270.40	8,930.6	33.0	-7,522.7	7,522.7	1.96	1.63	1.09
16,711.0	91.30	269.80	8,929.0	33.2	-7,616.7	7,616.7	0.90	0.64	-0.64
16,804.0	90.90	269.80	8,927.2	32.9	-7,709.7	7,709.7	0.43	-0.43	0.00
16,897.0	90.90	269.80	8,925.7	32.5	-7,802.7	7,802.7	0.00	0.00	0.00
16,988.0	89.70	269.90	8,925.2	32.3	-7,893.7	7,893.7	1.32	-1.32	0.11
17,081.0	92.30	270.50	8,923.6	32.6	-7,986.6	7,986.6	2.87	2.80	0.65
17,174.0	91.70	269.90	8,920.4	33.0	-8,079.6	8,079.6	0.91	-0.65	-0.65
17,266.0	91.90	269.90	8,917.5	32.8	-8,171.5	8,171.5	0.22	0.22	0.00
17,359.0	92.40	269.70	8,914.0	32.5	-8,264.5	8,264.5	0.58	0.54	-0.22
17,451.0	93.20	270.40	8,909.5	32.6	-8,356.4	8,356.3	1.15	0.87	0.76
17,543.0	93.50	269.40	8,904.1	32.4	-8,448.2	8,448.2	1.13	0.33	-1.09
17,638.0	94.00	269.30	8,897.9	31.3	-8,543.0	8,543.0	0.54	0.53	-0.11
17,733.0	94.20	269.70	8,891.1	30.5	-8,637.7	8,637.7	0.47	0.21	0.42
17,828.0	90.90	269.80	8,886.9	30.1	-8,732.6	8,732.6	3.48	-3.47	0.11
17,922.0	91.00	269.50	8,885.3	29.5	-8,826.6	8,826.6	0.34	0.11	-0.32
18,016.0	91.00	268.80	8,883.7	28.1	-8,920.6	8,920.6	0.74	0.00	-0.74
18,111.0	90.80	268.20	8,882.2	25.6	-9,015.6	9,015.5	0.67	-0.21	-0.63
18,206.0	89.60	268.40	8,881.9	22.8	-9,110.5	9,110.5	1.28	-1.26	0.21
18,301.0	90.50	268.00	8,881.8	19.8	-9,205.5	9,205.5	1.04	0.95	-0.42
18,396.0	91.30	268.40	8,880.3	16.8	-9,300.4	9,300.4	0.94	0.84	0.42
18,490.0	90.70	269.00	8,878.7	14.7	-9,394.4	9,394.4	0.90	-0.64	0.64
18,584.0	90.50	269.50	8,877.7	13.5	-9,488.3	9,488.3	0.57	-0.21	0.53
18,679.0	89.70	269.00	8,877.5	12.2	-9,583.3	9,583.3	0.99	-0.84	-0.53
18,773.0	89.50	269.10	8,878.2	10.7	-9,677.3	9,677.3	0.24	-0.21	0.11
18,867.0	89.10	268.80	8,879.3	8.9	-9,771.3	9,771.3	0.53	-0.43	-0.32
18,962.0	89.10	268.40	8,880.8	6.6	-9,866.3	9,866.3	0.42	0.00	-0.42
19,055.0	88.80	268.40	8,882.5	4.0	-9,959.2	9,959.2	0.32	-0.32	0.00
19,149.0	89.10	268.30	8,884.2	1.3	-10,053.2	10,053.2	0.34	0.32	-0.11
19,234.0	88.90	268.10	8,885.7	-1.3	-10,138.1	10,138.1	0.33	-0.24	-0.24
19,295.0	88.90	268.10	8,886.9	-3.4	-10,199.1	10,199.1	0.00	0.00	0.00
19295.0' Projected to bit									



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wishbone 35/34 B3PM Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Site:	Section 35-18S-29E Wishbone	MD Reference:	3434+27 @ 3461.0usft (Patterson 217)
Well:	Wishbone 35/34 B3PM Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Databaso:	EDM5000

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,215.0	1,214.9	-10.3	6.8	First Stryker Surveys
19,295.0	8,886.9	-3.4	-10,199.1	19295.0' Projected to bit

Checked By: _____	Approved By: _____	Date: _____
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February 19, 2020

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Wishbone 35 34 B3PM Federal Com #2H
Turkey Track; Bone Spring
Eddy County, New Mexico
API# 30-015-46267

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Gregg Morris	Original Hole	1,343ft. to 19,234ft.	12-22-19 to 01-27-20	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone

number.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Wishbone 35 34 B3PM Federal Com #2H\M191240

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



February 19, 2020

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of December 22, 2019, through January 27, 2020 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,343feet to a depth of 19,234feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Wishbone 35 34 B3PM Federal Com #2H, well API # **30-015-46267** in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163**



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 35-18S-29E Wishbone
Well: Wishbone 35/34 B3PM Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference: Well Wishbone 35/34 B3PM Fed Com #2H
TVD Reference: 3434+27 @ 3461.0usft (Patterson 217)
MD Reference: 3434+27 @ 3461.0usft (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey Program		Date								
From (usft)	To (usft)	Survey (Wellbore)		Tool Name		Description				
100.0	1,215.0	Gyro Surveys (Original Hole)		SRG-GYRO-MS		surface readout gyro multishot				
1,343.0	19,295.0	Stryker Surveys (Original Hole)		MWD		MWD v3:standard declination				
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	618,023.60	632,264.70
100.0	0.51	195.56	100.0	-0.4	-0.1	0.4	195.56	0.51	618,023.17	632,264.58
200.0	0.44	126.29	200.0	-1.1	0.1	1.1	176.27	0.54	618,022.52	632,264.77
300.0	0.55	165.80	300.0	-1.8	0.5	1.8	164.35	0.35	618,021.82	632,265.20
400.0	1.34	175.77	400.0	-3.4	0.7	3.5	168.36	0.80	618,020.19	632,265.40
500.0	1.33	167.70	500.0	-5.7	1.0	5.8	169.72	0.19	618,017.89	632,265.74
600.0	0.98	187.25	599.9	-7.7	1.2	7.8	171.32	0.52	618,015.91	632,265.87
700.0	0.65	170.48	699.9	-9.1	1.2	9.2	172.73	0.40	618,014.50	632,265.86
800.0	0.53	150.69	799.9	-10.1	1.5	10.2	171.63	0.23	618,013.54	632,266.18
900.0	0.55	91.22	899.9	-10.5	2.2	10.7	168.21	0.54	618,013.13	632,266.89
1,000.0	1.13	101.38	999.9	-10.7	3.6	11.3	161.21	0.60	618,012.92	632,268.33
1,100.0	0.79	69.84	1,099.9	-10.6	5.2	11.9	153.74	0.62	618,012.96	632,269.95
1,200.0	0.80	85.58	1,199.9	-10.3	6.6	12.3	147.50	0.22	618,013.25	632,271.29
1,215.0	0.99	70.83	1,214.9	-10.3	6.8	12.3	146.49	1.98	618,013.31	632,271.52
First Stryker Surveys										
1,343.0	0.50	70.70	1,342.9	-9.7	8.4	12.9	139.28	0.38	618,013.85	632,273.09
1,437.0	3.10	73.90	1,436.8	-8.9	11.2	14.3	128.45	2.77	618,014.69	632,275.92
1,626.0	4.20	68.30	1,625.4	-4.9	22.6	23.1	102.33	0.61	618,018.67	632,287.26
1,815.0	3.60	92.30	1,814.0	-2.6	34.9	35.0	94.27	0.91	618,020.99	632,299.62
2,004.0	3.60	70.30	2,002.6	-0.8	46.4	46.4	91.04	0.73	618,022.75	632,311.14
2,194.0	3.70	83.30	2,192.3	1.9	58.1	58.2	88.15	0.44	618,025.48	632,322.84



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 35-18S-29E Wishbone
Well: Wishbone 35/34 B3PM Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Wishbone 35/34 B3PM Fed Com #2H
3434+27 @ 3461.0usft (Patterson 217)
3434+27 @ 3461.0usft (Patterson 217)
Grid
Minimum Curvature
EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,383.0	3.90	86.20	2,380.8	3.0	70.6	70.7	87.55	0.15	618,026.62	632,335.31
2,572.0	3.70	87.70	2,569.4	3.7	83.1	83.2	87.46	0.12	618,027.29	632,347.82
2,762.0	3.90	88.80	2,759.0	4.1	95.7	95.8	87.57	0.11	618,027.67	632,360.40
2,951.0	3.50	82.10	2,947.6	5.0	107.8	108.0	87.35	0.31	618,028.60	632,372.54
3,140.0	3.70	83.30	3,136.2	6.5	119.6	119.8	86.89	0.11	618,030.10	632,384.31
3,330.0	2.90	81.10	3,325.9	8.0	130.5	130.7	86.51	0.43	618,031.56	632,395.15
3,520.0	2.80	78.20	3,515.7	9.7	139.7	140.1	86.05	0.09	618,033.25	632,404.44
3,710.0	2.90	75.30	3,705.5	11.8	148.9	149.4	85.46	0.09	618,035.42	632,413.63
3,899.0	2.90	76.30	3,894.2	14.2	158.2	158.8	84.88	0.03	618,037.77	632,422.90
4,089.0	3.00	85.20	4,084.0	15.7	167.8	168.6	84.65	0.25	618,039.32	632,432.53
4,278.0	3.10	88.40	4,272.7	16.3	177.9	178.6	84.77	0.10	618,039.88	632,442.57
4,468.0	2.90	85.90	4,462.4	16.8	187.8	188.5	84.90	0.13	618,040.36	632,452.49
4,656.0	3.30	82.60	4,650.2	17.8	197.9	198.7	84.86	0.23	618,041.40	632,462.60
4,846.0	3.50	85.70	4,839.8	18.9	209.1	210.0	84.82	0.14	618,042.54	632,473.81
5,035.0	3.50	89.60	5,028.5	19.4	220.6	221.5	84.97	0.13	618,043.01	632,485.33
5,225.0	3.30	83.00	5,218.1	20.1	231.9	232.7	85.04	0.23	618,043.72	632,496.56
5,414.0	3.80	86.30	5,406.8	21.2	243.5	244.4	85.03	0.29	618,044.79	632,508.21
5,604.0	2.80	95.20	5,596.5	21.2	254.4	255.3	85.24	0.59	618,044.77	632,519.11
5,792.0	1.40	94.10	5,784.3	20.6	261.3	262.1	85.49	0.74	618,044.19	632,525.98
5,982.0	0.40	52.80	5,974.3	20.8	264.1	264.9	85.49	0.60	618,044.43	632,528.82
6,172.0	1.00	7.40	6,164.3	22.9	264.9	265.8	85.06	0.41	618,046.47	632,529.56
6,361.0	0.70	15.80	6,353.3	25.6	265.4	266.6	84.49	0.17	618,049.22	632,530.09
6,550.0	0.90	310.10	6,542.2	27.7	264.6	266.0	84.03	0.47	618,051.29	632,529.27
6,739.0	0.10	252.40	6,731.2	28.6	263.3	264.8	83.80	0.45	618,052.19	632,527.98
6,928.0	0.30	85.00	6,920.2	28.6	263.6	265.2	83.81	0.21	618,052.19	632,528.31
7,116.0	0.70	69.10	7,108.2	29.0	265.2	266.8	83.75	0.22	618,052.64	632,529.88
7,306.0	0.30	57.90	7,298.2	29.7	266.7	268.3	83.64	0.22	618,053.32	632,531.38



Stryker Energy Directional Services

Survey Report Landscape



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Project: Eddy County N.M. Nad (83)
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Well: Wishbone 35/34 B3PM Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,496.0	0.50	359.60	7,488.2	30.8	267.1	268.9	83.42	0.22	618,054.41	632,531.80
7,685.0	2.20	249.40	7,677.2	30.4	263.7	265.4	83.43	1.28	618,053.96	632,528.39
7,874.0	1.50	202.40	7,866.1	26.8	259.4	260.7	84.10	0.85	618,050.39	632,524.06
8,062.0	0.60	230.60	8,054.1	23.9	257.7	258.8	84.70	0.54	618,047.49	632,522.36
8,251.0	1.30	243.10	8,243.0	22.3	255.0	256.0	85.00	0.38	618,045.90	632,519.68
8,437.0	2.00	185.00	8,429.0	18.1	252.8	253.5	85.90	0.92	618,041.71	632,517.52
8,512.0	1.80	212.70	8,503.9	15.8	252.1	252.6	86.41	1.24	618,039.41	632,516.77
8,560.0	1.60	245.30	8,551.9	14.9	251.0	251.5	86.60	2.03	618,038.50	632,515.75
8,592.0	4.50	277.50	8,583.9	14.9	249.4	249.8	86.59	10.19	618,038.48	632,514.10
8,639.0	10.40	286.20	8,630.4	16.3	243.5	244.0	86.17	12.74	618,039.90	632,508.19
8,686.0	16.00	281.40	8,676.2	18.8	233.1	233.8	85.40	12.13	618,042.37	632,497.76
8,733.0	21.80	275.30	8,720.6	20.9	218.0	219.0	84.54	13.02	618,044.46	632,482.71
8,781.0	26.10	271.10	8,764.5	21.9	198.6	199.8	83.71	9.63	618,045.48	632,463.26
8,828.0	29.70	267.60	8,806.0	21.6	176.6	177.9	83.03	8.41	618,045.19	632,441.29
8,875.0	35.70	269.00	8,845.6	20.9	151.2	152.7	82.14	12.87	618,044.47	632,415.92
8,922.0	42.90	269.70	8,881.9	20.5	121.5	123.2	80.40	15.35	618,044.14	632,386.17
8,969.0	49.60	270.50	8,914.4	20.6	87.5	89.9	76.75	14.31	618,044.21	632,352.24
9,016.0	54.50	272.00	8,943.3	21.4	50.5	54.9	67.00	10.72	618,045.04	632,315.20
9,063.0	58.90	272.70	8,969.1	23.1	11.3	25.7	26.03	9.44	618,046.66	632,275.96
9,110.0	63.10	271.70	8,991.9	24.6	-29.8	38.7	309.56	9.13	618,048.23	632,234.89
9,157.0	66.50	271.70	9,011.9	25.9	-72.3	76.8	289.70	7.23	618,049.49	632,192.39
9,204.0	70.30	270.80	9,029.2	26.8	-116.0	119.1	283.03	8.28	618,050.44	632,148.71
9,251.0	74.10	269.80	9,043.5	27.1	-160.7	163.0	279.56	8.33	618,050.67	632,103.97
9,298.0	80.50	269.00	9,053.9	26.6	-206.6	208.3	277.33	13.72	618,050.18	632,058.15
9,344.0	84.90	269.80	9,059.7	26.1	-252.2	253.5	275.91	9.72	618,049.71	632,012.53
9,433.0	91.40	274.90	9,062.6	29.8	-341.0	342.3	274.99	9.28	618,053.36	631,923.73
9,473.0	91.50	271.40	9,061.6	32.0	-380.9	382.2	274.80	8.75	618,055.55	631,883.81



Stryker Energy Directional Services

Survey Report Landscape



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Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference: 3434+27 @ 3461.0usft (Patterson 217)
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Survey Calculation Method: Minimum Curvature
Database: EDM5000

Well Wishbone 35/34 B3PM Fed Com #2H
3434+27 @ 3461.0usft (Patterson 217)
3434+27 @ 3461.0usft (Patterson 217)
Grid
Minimum Curvature
EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
9,567.0	91.50	272.00	9,059.1	34.7	-474.8	476.1	274.18	0.64	618,058.34	631,789.89
9,661.0	91.80	272.00	9,056.4	38.0	-568.7	570.0	273.82	0.32	618,061.62	631,695.98
9,755.0	91.40	272.00	9,053.8	41.3	-662.6	663.9	273.57	0.43	618,064.90	631,602.08
9,848.0	90.70	271.90	9,052.1	44.5	-755.6	756.9	273.37	0.76	618,068.06	631,509.15
9,942.0	90.00	271.30	9,051.5	47.1	-849.5	850.8	273.17	0.98	618,070.69	631,415.19
10,037.0	89.90	271.30	9,051.6	49.2	-944.5	945.8	272.98	0.11	618,072.84	631,320.21
10,132.0	89.50	269.90	9,052.1	50.2	-1,039.5	1,040.7	272.77	1.53	618,073.84	631,225.22
10,226.0	90.60	269.30	9,052.0	49.6	-1,133.5	1,134.6	272.50	1.33	618,073.18	631,131.22
10,321.0	91.30	270.00	9,050.4	49.0	-1,228.5	1,229.4	272.28	1.04	618,072.60	631,036.24
10,416.0	91.30	270.00	9,048.3	49.0	-1,323.4	1,324.3	272.12	0.00	618,072.60	630,941.26
10,511.0	91.30	270.50	9,046.1	49.4	-1,418.4	1,419.3	272.00	0.53	618,073.02	630,846.29
10,605.0	90.90	270.70	9,044.3	50.4	-1,512.4	1,513.2	271.91	0.48	618,074.00	630,752.31
10,700.0	91.30	270.50	9,042.5	51.4	-1,607.4	1,608.2	271.83	0.47	618,075.00	630,657.33
10,795.0	91.50	269.80	9,040.2	51.6	-1,702.3	1,703.1	271.74	0.77	618,075.24	630,562.36
10,888.0	91.50	269.30	9,037.7	50.9	-1,795.3	1,796.0	271.62	0.54	618,074.51	630,469.40
10,983.0	91.30	268.70	9,035.4	49.3	-1,890.3	1,890.9	271.49	0.67	618,072.86	630,374.44
11,078.0	92.00	268.90	9,032.7	47.3	-1,985.2	1,985.8	271.36	0.77	618,070.87	630,279.50
11,173.0	92.00	268.60	9,029.4	45.2	-2,080.1	2,080.6	271.24	0.32	618,068.80	630,184.58
11,267.0	92.00	269.20	9,026.1	43.4	-2,174.0	2,174.5	271.14	0.64	618,066.99	630,090.66
11,361.0	91.60	269.30	9,023.1	42.2	-2,268.0	2,268.4	271.07	0.44	618,065.76	629,996.71
11,456.0	90.90	270.00	9,021.0	41.6	-2,363.0	2,363.3	271.01	1.04	618,065.18	629,901.74
11,550.0	90.90	269.80	9,019.6	41.4	-2,456.9	2,457.3	270.97	0.21	618,065.02	629,807.75
11,644.0	90.80	269.80	9,018.2	41.1	-2,550.9	2,551.3	270.92	0.11	618,064.69	629,713.76
11,739.0	90.90	270.10	9,016.8	41.0	-2,645.9	2,646.2	270.89	0.33	618,064.61	629,618.77
11,834.0	90.80	269.80	9,015.4	40.9	-2,740.9	2,741.2	270.86	0.33	618,064.53	629,523.78
11,928.0	90.90	270.30	9,014.0	41.0	-2,834.9	2,835.2	270.83	0.54	618,064.61	629,429.79
12,022.0	90.70	269.80	9,012.7	41.1	-2,928.9	2,929.2	270.80	0.57	618,064.69	629,335.80



Stryker Energy Directional Services

Survey Report Landscape



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Well Wishbone 35/34 B3PM Fed Com #2H
3434+27 @ 3461.0usft (Patterson 217)
3434+27 @ 3461.0usft (Patterson 217)
Grid
Minimum Curvature
EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
12,117.0	90.80	269.80	9,011.4	40.8	-3,023.9	3,024.2	270.77	0.11	618,064.36	629,240.81
12,210.0	90.90	270.40	9,010.0	40.9	-3,116.9	3,117.1	270.75	0.65	618,064.52	629,147.82
12,305.0	90.80	270.40	9,008.6	41.6	-3,211.9	3,212.1	270.74	0.11	618,065.18	629,052.84
12,398.0	90.80	270.20	9,007.3	42.1	-3,304.9	3,305.1	270.73	0.22	618,065.67	628,959.85
12,493.0	90.80	270.00	9,006.0	42.2	-3,399.8	3,400.1	270.71	0.21	618,065.84	628,864.86
12,587.0	90.80	270.00	9,004.7	42.2	-3,493.8	3,494.1	270.69	0.00	618,065.84	628,770.86
12,682.0	90.80	270.00	9,003.4	42.2	-3,588.8	3,589.1	270.67	0.00	618,065.84	628,675.87
12,777.0	90.80	270.10	9,002.0	42.3	-3,683.8	3,684.1	270.66	0.11	618,065.92	628,580.88
12,871.0	90.80	269.90	9,000.7	42.3	-3,777.8	3,778.0	270.64	0.21	618,065.92	628,486.89
12,966.0	90.80	269.90	8,999.4	42.2	-3,872.8	3,873.0	270.62	0.00	618,065.75	628,391.90
13,060.0	90.80	269.80	8,998.1	41.9	-3,966.8	3,967.0	270.61	0.11	618,065.51	628,297.91
13,155.0	90.90	270.20	8,996.7	41.9	-4,061.8	4,062.0	270.59	0.43	618,065.51	628,202.92
13,249.0	90.90	269.90	8,995.2	42.0	-4,155.8	4,156.0	270.58	0.32	618,065.59	628,108.93
13,344.0	90.90	270.40	8,993.7	42.2	-4,250.8	4,251.0	270.57	0.53	618,065.84	628,013.95
13,438.0	91.00	270.40	8,992.1	42.9	-4,344.7	4,345.0	270.57	0.11	618,066.49	627,919.96
13,532.0	91.50	270.10	8,990.1	43.3	-4,438.7	4,438.9	270.56	0.62	618,066.90	627,825.98
13,627.0	90.90	270.20	8,988.1	43.6	-4,533.7	4,533.9	270.55	0.64	618,067.15	627,731.01
13,721.0	90.90	270.40	8,986.6	44.0	-4,627.7	4,627.9	270.55	0.21	618,067.65	627,637.02
13,814.0	90.90	270.30	8,985.2	44.6	-4,720.7	4,720.9	270.54	0.11	618,068.21	627,544.03
13,909.0	91.40	270.50	8,983.3	45.3	-4,815.6	4,815.9	270.54	0.57	618,068.88	627,449.05
14,004.0	91.50	270.50	8,980.9	46.1	-4,910.6	4,910.8	270.54	0.11	618,069.71	627,354.09
14,098.0	91.60	270.90	8,978.3	47.3	-5,004.6	5,004.8	270.54	0.44	618,070.85	627,260.13
14,183.0	92.00	270.70	8,975.6	48.4	-5,089.5	5,089.7	270.55	0.53	618,072.04	627,175.18
14,284.0	91.60	270.50	8,972.5	49.5	-5,180.5	5,180.7	270.55	0.44	618,073.10	627,074.24
14,377.0	91.20	270.20	8,970.2	50.1	-5,283.4	5,283.7	270.54	0.54	618,073.66	626,981.27
14,472.0	91.20	270.40	8,968.2	50.6	-5,378.4	5,378.6	270.54	0.21	618,074.16	626,886.29
14,557.0	91.00	270.50	8,966.6	51.2	-5,463.4	5,463.6	270.54	0.26	618,074.83	626,801.31



Stryker Energy Directional Services

Survey Report Landscape



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Well Wishbone 35/34 B3PM Fed Com #2H
3434+27 @ 3461.0usft (Patterson 217)
3434+27 @ 3461.0usft (Patterson 217)
Grid
Minimum Curvature
EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
14,651.0	91.50	270.50	8,964.5	52.0	-5,557.4	5,557.6	270.54	0.53	618,075.65	626,707.33
14,746.0	91.60	270.80	8,962.0	53.1	-5,652.3	5,652.6	270.54	0.33	618,076.73	626,612.37
14,841.0	91.20	269.10	8,959.6	53.0	-5,747.3	5,747.5	270.53	1.84	618,076.64	626,517.41
14,936.0	91.40	268.70	8,957.5	51.2	-5,842.3	5,842.5	270.50	0.47	618,074.82	626,422.45
15,030.0	91.60	268.40	8,955.0	48.8	-5,936.2	5,936.4	270.47	0.38	618,072.44	626,328.51
15,125.0	90.90	268.50	8,952.9	46.3	-6,031.1	6,031.3	270.44	0.74	618,069.87	626,233.57
15,219.0	90.70	269.10	8,951.6	44.3	-6,125.1	6,125.3	270.41	0.67	618,067.90	626,139.60
15,314.0	90.70	269.80	8,950.5	43.4	-6,220.1	6,220.2	270.40	0.74	618,066.99	626,044.61
15,409.0	90.80	270.30	8,949.2	43.5	-6,315.1	6,315.2	270.39	0.54	618,067.08	625,949.62
15,503.0	90.70	270.30	8,948.0	44.0	-6,409.1	6,409.2	270.39	0.11	618,067.57	625,855.63
15,597.0	91.20	270.30	8,946.4	44.5	-6,503.1	6,503.2	270.39	0.53	618,068.06	625,761.64
15,692.0	90.80	269.90	8,944.8	44.6	-6,598.0	6,598.2	270.39	0.60	618,068.23	625,666.66
15,787.0	91.60	269.90	8,942.8	44.5	-6,693.0	6,693.2	270.38	0.84	618,068.06	625,571.68
15,881.0	90.80	269.80	8,940.8	44.2	-6,787.0	6,787.1	270.37	0.86	618,067.81	625,477.70
15,975.0	91.50	269.80	8,938.9	43.9	-6,881.0	6,881.1	270.37	0.74	618,067.49	625,383.72
16,070.0	90.80	269.30	8,937.0	43.1	-6,976.0	6,976.1	270.35	0.91	618,066.74	625,288.74
16,165.0	91.90	268.80	8,934.8	41.6	-7,070.9	7,071.0	270.34	1.27	618,065.17	625,193.79
16,247.0	92.00	267.30	8,932.0	38.8	-7,152.8	7,152.9	270.31	1.83	618,062.38	625,111.88
16,340.0	90.50	269.00	8,930.0	35.8	-7,245.7	7,245.8	270.28	2.44	618,059.38	625,018.96
16,433.0	89.80	269.20	8,929.7	34.3	-7,338.7	7,338.8	270.27	0.78	618,057.92	624,925.97
16,525.0	89.20	269.40	8,930.5	33.2	-7,430.7	7,430.8	270.26	0.69	618,056.79	624,833.98
16,617.0	90.70	270.40	8,930.6	33.0	-7,522.7	7,522.8	270.25	1.96	618,056.63	624,741.99
16,711.0	91.30	269.80	8,929.0	33.2	-7,616.7	7,616.8	270.25	0.90	618,056.79	624,648.00
16,804.0	90.90	269.80	8,927.2	32.9	-7,709.7	7,709.7	270.24	0.43	618,056.47	624,555.02
16,897.0	90.90	269.80	8,925.7	32.5	-7,802.7	7,802.7	270.24	0.00	618,056.15	624,462.03
16,988.0	89.70	269.90	8,925.2	32.3	-7,893.7	7,893.7	270.23	1.32	618,055.91	624,371.04
17,081.0	92.30	270.50	8,923.6	32.6	-7,986.6	7,986.7	270.23	2.87	618,056.23	624,278.06



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 35-18S-29E Wishbone
Well: Wishbone 35/34 B3PM Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference: 3434+27 @ 3461.0ust (Patterson 217)
MD Reference: 3434+27 @ 3461.0ust (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Well: Wishbone 35/34 B3PM Fed Com #2H
3434+27 @ 3461.0ust (Patterson 217)
3434+27 @ 3461.0ust (Patterson 217)
Grid
Minimum Curvature
EDM5000

Survey

MD (ust)	Inc (°)	Azi (azimuth) (°)	TVD (ust)	N/S (ust)	E/W (ust)	Closure Distance (ust)	Closure Azimuth (°)	D/Leg (°/100ust)	Northing (ust)	Easting (ust)
17,174.0	91.70	269.90	8,920.4	33.0	-8,079.6	8,079.7	270.23	0.91	618,056.56	624,185.12
17,266.0	91.90	269.90	8,917.5	32.8	-8,171.5	8,171.6	270.23	0.22	618,056.40	624,093.16
17,359.0	92.40	269.70	8,914.0	32.5	-8,264.5	8,264.5	270.23	0.58	618,056.07	624,000.23
17,451.0	93.20	270.40	8,909.5	32.6	-8,356.4	8,356.4	270.22	1.15	618,056.15	623,908.34
17,543.0	93.50	269.40	8,904.1	32.4	-8,448.2	8,448.3	270.22	1.13	618,055.99	623,816.50
17,638.0	94.00	269.30	8,897.9	31.3	-8,543.0	8,543.0	270.21	0.54	618,054.92	623,721.71
17,733.0	94.20	269.70	8,891.1	30.5	-8,637.7	8,637.8	270.20	0.47	618,054.09	623,626.96
17,828.0	90.90	269.80	8,886.9	30.1	-8,732.6	8,732.7	270.20	3.48	618,053.67	623,532.06
17,922.0	91.00	269.50	8,885.3	29.5	-8,826.6	8,826.7	270.19	0.34	618,053.10	623,438.08
18,016.0	91.00	268.80	8,883.7	28.1	-8,920.6	8,920.6	270.18	0.74	618,051.71	623,344.10
18,111.0	90.80	268.20	8,882.2	25.6	-9,015.6	9,015.6	270.16	0.67	618,049.22	623,249.15
18,206.0	89.60	268.40	8,881.9	22.8	-9,110.5	9,110.5	270.14	1.28	618,046.40	623,154.19
18,301.0	90.50	268.00	8,881.8	19.8	-9,205.5	9,205.5	270.12	1.04	618,043.42	623,059.24
18,396.0	91.30	268.40	8,880.3	16.8	-9,300.4	9,300.4	270.10	0.94	618,040.43	622,964.30
18,490.0	90.70	269.00	8,878.7	14.7	-9,394.4	9,394.4	270.09	0.90	618,038.30	622,870.34
18,584.0	90.50	269.50	8,877.7	13.5	-9,488.3	9,488.4	270.08	0.57	618,037.07	622,776.35
18,679.0	89.70	269.00	8,877.5	12.2	-9,583.3	9,583.3	270.07	0.99	618,035.83	622,681.36
18,773.0	89.50	269.10	8,878.2	10.7	-9,677.3	9,677.3	270.06	0.24	618,034.27	622,587.38
18,867.0	89.10	268.80	8,879.3	8.9	-9,771.3	9,771.3	270.05	0.53	618,032.55	622,493.40
18,962.0	89.10	268.40	8,880.8	6.6	-9,866.3	9,866.3	270.04	0.42	618,030.23	622,398.44
19,055.0	88.80	268.40	8,882.5	4.0	-9,959.2	9,959.2	270.02	0.32	618,027.63	622,305.49
19,149.0	89.10	268.30	8,884.2	1.3	-10,053.2	10,053.2	270.01	0.34	618,024.92	622,211.55
19,243.0	88.90	268.10	8,885.7	-1.3	-10,138.1	10,138.1	269.99	0.33	618,022.25	622,126.60
19,295.0	88.90	268.10	8,886.9	-3.4	-10,199.1	10,199.1	269.98	0.00	618,020.23	622,065.65

19295.0' Projected to bit



Stryker Energy Directional Services
Survey Report Landscape



Company: Newbourn Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 35-18S-29E Wishbone
Well: Wishbone 35/34 B3PM Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Wishbone 35/34 B3PM Fed Com #2H
3434+27 @ 3461.0usft (Patterson 217)
3434+27 @ 3461.0usft (Patterson 217)
Grid
Minimum Curvature
EDM5000

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1,215.0	1,214.9	-10.3	6.8	First Stryker Surveys
19,295.0	8,886.9	-3.4	-10,199.1	19295.0' Projected to bit

Checked By: _____

Approved By: _____

Date: _____