

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
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: 5/14/2020

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 30-015-46351	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (Gas)
⁴ Property Code 326315	⁵ Property Name ARMSTRONG 26/23 WOFF FED COM	
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 2H
		⁹ Elevation 3332'

¹⁰ Surface Location

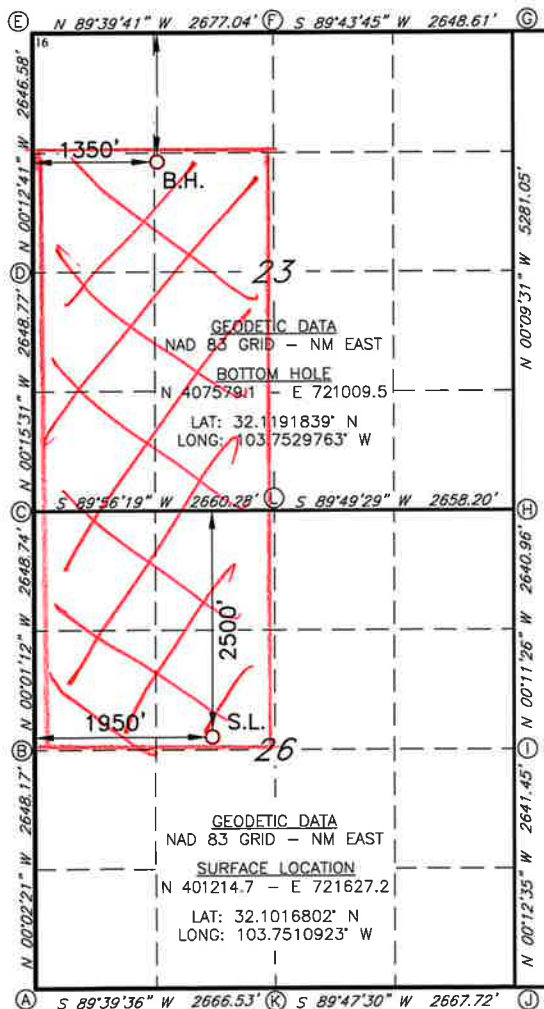
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
F	26	25S	31E		2500	NORTH	1950	WEST	EDDY

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
F	23	25S	31E		1407	NORTH	1336	WEST	EDDY

¹² Dedicated Acres 400	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



CORNER DATA

NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1939"
N 398416.8 - E 719679.1

B: FOUND BRASS CAP "1939"
N 401064.4 - E 719677.2

C: CALCULATED CORNER
N 403712.6 - E 719676.3

D: FOUND BRASS CAP "1939"
N 406360.7 - E 719664.4

E: CALCULATED CORNER
N 409006.7 - E 719654.6

F: FOUND BRASS CAP "1939"
N 408990.9 - E 722331.0

G: FOUND 2" PIPE
N 409003.4 - E 724979.0

H: FOUND BRASS CAP "1939"
N 403723.6 - E 724993.6

I: FOUND BRASS CAP "1939"
N 401083.2 - E 725002.4

J: FOUND BRASS CAP "1939"
N 398442.3 - E 725012.1

K: FOUND BRASS CAP "1939"
N 398432.6 - E 722344.9

L: FOUND BRASS CAP "1939"
N 403715.4 - E 722336.0

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.

Signature: *Jackie Lathan* Date: 05/04/20
Printed Name: Jackie Lathan

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.

12-05-18

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number

REV: 9/16/19 NAME/BHL

LS18121328D

Intent ☐ As Drilled ☒

API #
30-015-46351

Operator Name:
Mewbourne Oil Company

Property Name:
Armstrong 26/23 W0FF Fed Com

Well Number
#2H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	26	255	31E		2647	N	1348	W	Fddy
Latitude					Longitude				NAD
32.1012806					-103.7530333				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	26	255	31E		2267	N	1335	W	Fddy
Latitude					Longitude				NAD
32.1023317					-103.7530739				83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	23	255	31E		1462	N	1336	W	Fddy
Latitude					Longitude				NAD
32.1190694					-103.7530144				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 #
30-015-46307

Operator Name:

Mewbourne O.I. Co

Property Name:

Armstrong 26/23 W1EE Fed Com

Well Number

1H

KZ 06/29/2018



COMPANY: Mewbourne Oil Company
WELL: Armstrong 26/23 W0FF Fed Com #2H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 231

STRYKER
DIRECTIONAL
OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.47°

GEODETTIC ZONE: New Mexico Eastern Zone

3332+27 @ 3359.0usft (Patterson 231)

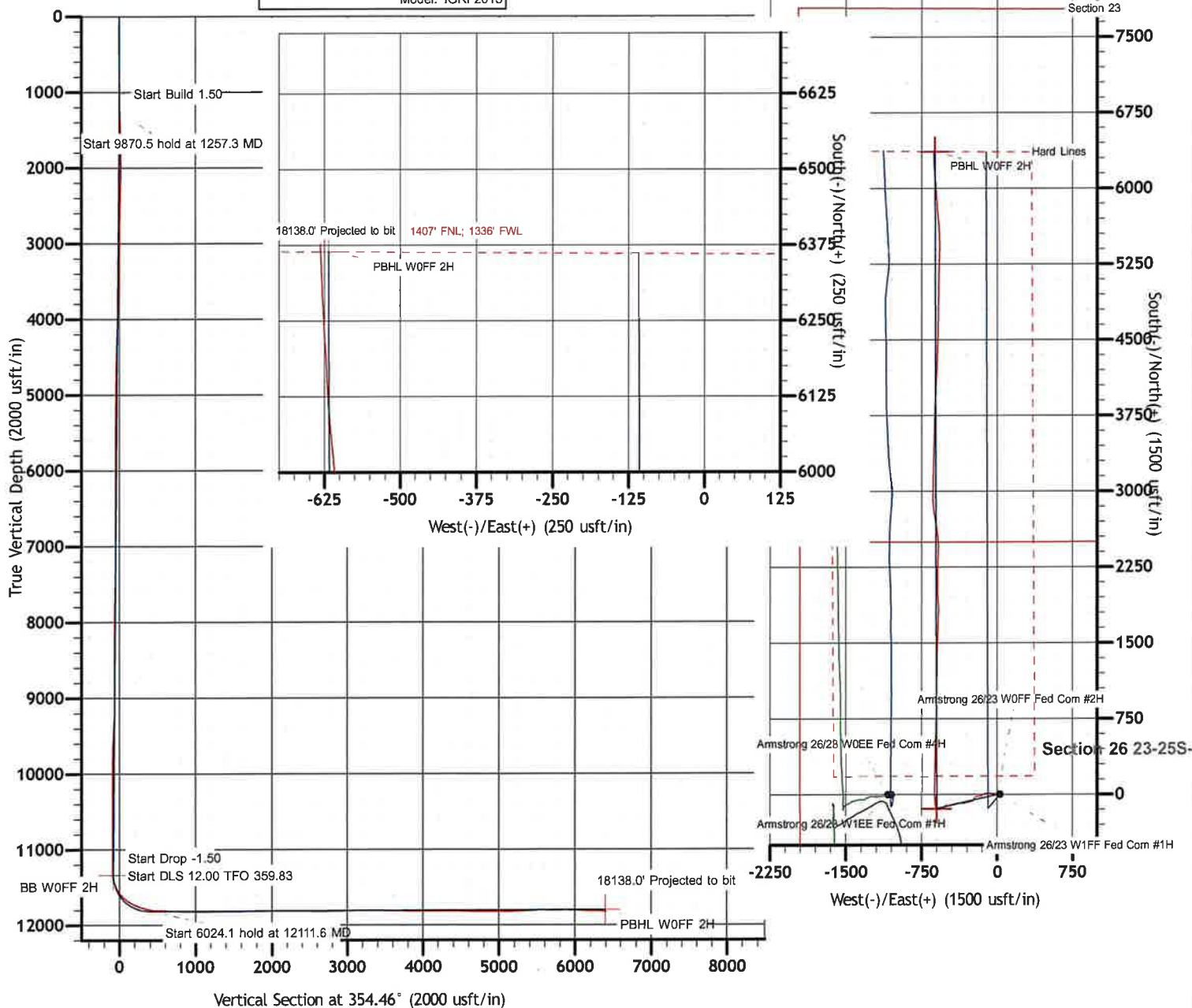
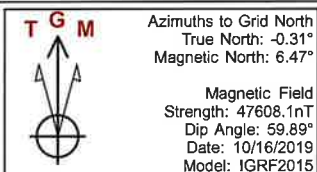
GROUND ELEVATION: 3332.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	401214.70	721627.20	32° 6' 6.049 N	103° 45' 3.932 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1025.0	0.00	0.00	1025.0	0.0	0.0	0.00	0.00	0.0	
3	1257.3	3.48	256.94	1257.1	-1.6	-6.9	1.50	256.94	-0.9	
4	11127.8	3.48	256.94	11109.4	-137.1	-591.2	0.00	0.00	-79.4	
5	11360.0	0.00	0.00	11341.5	-138.7	-598.1	1.50	180.00	-80.3	BB W0FF 2H
6	12111.6	90.19	359.83	11819.0	340.3	-599.5	12.00	359.83	396.7	
7	18135.7	90.19	359.83	11799.0	6364.4	-617.7	0.00	0.00	6394.3	PBHL W0FF 2H

SHL: 2500' FNL; 1950' FWL
Section 26-25S-31E
PBHL: 1420 FNL; 1350' FWL
Section 23-25S-31E





Mewbourne Oil Company

**Eddy County, N.M. Nad (83)
Section 26 23-25S-31E Armstrong
Armstrong 26/23 W0FF Fed Com #2H**

Original Hole

Design: As Drilled

Standard Survey Report

15 January, 2020





Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Armstrong 26/23 W0FF Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Site:	Section 26 23-25S-31E Armstrong	MD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Well:	Armstrong 26/23 W0FF 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 26 23-25S-31E Armstrong		
Site Position:		Northing:	401,213.60 usft
From:	Map	Easting:	720,577.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 6.094 N
		Longitude:	103° 45' 16.141 W
		Grid Convergence:	0.31 °

Well	Armstrong 26/23 W0FF Fed Com #2H		
Well Position	+N/-S	0.0 usft	Northing: 401,214.70 usft
	+E/-W	0.0 usft	Easting: 721,627.20 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 6' 6.049 N
		Longitude:	103° 45' 3.932 W
		Ground Level:	3,332.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/16/19	6.78	59.89	47,608.07489327

Design	As Drilled				
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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	354.34

Survey Program	Date 01/15/20				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	917.0	Gyro Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
1,015.0	18,138.0	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	0.10	150.10	100.0	-0.1	0.0	-0.1	0.10	0.10	0.00	
200.0	0.30	219.20	200.0	-0.4	-0.1	-0.3	0.28	0.20	69.10	
300.0	0.12	278.01	300.0	-0.5	-0.3	-0.5	0.26	-0.18	58.81	
400.0	0.18	287.23	400.0	-0.5	-0.6	-0.4	0.06	0.06	9.22	
500.0	0.05	13.99	500.0	-0.4	-0.7	-0.3	0.18	-0.13	86.76	
600.0	0.12	13.66	600.0	-0.2	-0.7	-0.2	0.07	0.07	-0.33	
700.0	0.39	6.09	700.0	0.2	-0.6	0.3	0.27	0.27	-7.57	
800.0	0.82	12.07	800.0	1.2	-0.5	1.3	0.43	0.43	5.98	
900.0	0.80	359.05	900.0	2.6	-0.3	2.6	0.18	-0.02	-13.02	



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Armstrong 26/23 W0FF Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Site:	Section 26 23-25S-31E Armstrong	MD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Well:	Armstrong 26/23 W0FF 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)
917.0	0.38	19.34	917.0	2.8	-0.3	2.8	2.72	-2.47	119.35
First Stryker Surveys									
1,015.0	0.90	11.80	1,015.0	3.9	0.0	3.8	0.54	0.53	-7.69
1,109.0	2.40	288.70	1,108.9	5.2	-1.8	5.4	2.62	1.60	-88.40
1,235.0	7.40	270.90	1,234.4	6.2	-12.4	7.4	4.10	3.97	-14.13
1,424.0	7.40	276.40	1,421.9	7.7	-36.6	11.3	0.37	0.00	2.91
1,611.0	7.00	281.10	1,607.4	11.3	-59.8	17.1	0.38	-0.21	2.51
1,802.0	5.80	268.90	1,797.2	13.3	-80.9	21.2	0.95	-0.63	-6.39
1,991.0	6.30	261.50	1,985.2	11.6	-100.7	21.5	0.49	0.26	-3.92
2,179.0	5.80	260.60	2,172.1	8.5	-120.2	20.3	0.27	-0.27	-0.48
2,369.0	4.40	238.30	2,361.4	3.1	-135.9	16.5	1.26	-0.74	-11.74
2,557.0	5.00	234.40	2,548.7	-5.4	-148.7	9.3	0.36	0.32	-2.07
2,747.0	3.90	249.80	2,738.2	-12.5	-161.5	3.5	0.85	-0.58	8.11
2,937.0	3.70	257.70	2,927.8	-16.0	-173.6	1.2	0.29	-0.11	4.16
3,126.0	3.90	269.40	3,116.3	-17.4	-185.9	1.0	0.42	0.11	6.19
3,315.0	4.00	266.20	3,304.9	-17.9	-198.9	1.8	0.13	0.05	-1.69
3,505.0	2.90	249.00	3,494.6	-20.0	-210.0	0.8	0.79	-0.58	-9.05
3,694.0	2.80	209.90	3,683.3	-25.8	-216.8	-4.3	1.01	-0.05	-20.69
3,882.0	3.60	214.20	3,871.0	-34.6	-222.4	-12.5	0.44	0.43	2.29
4,070.0	2.60	199.70	4,058.8	-43.5	-227.2	-20.9	0.67	-0.53	-7.71
4,220.0	2.20	199.00	4,208.6	-49.4	-229.3	-26.6	0.27	-0.27	-0.47
4,355.0	2.20	213.60	4,343.5	-54.1	-231.5	-31.0	0.41	0.00	10.81
4,545.0	6.20	246.10	4,533.0	-61.3	-242.9	-37.0	2.37	2.11	17.11
4,734.0	4.90	246.20	4,721.1	-68.6	-259.7	-42.7	0.69	-0.69	0.05
4,923.0	3.60	264.40	4,909.6	-72.5	-273.0	-45.2	0.98	-0.69	9.63
5,112.0	3.80	262.90	5,098.2	-73.8	-285.1	-45.4	0.12	0.11	-0.79
5,301.0	3.80	254.80	5,286.8	-76.2	-297.3	-46.6	0.28	0.00	-4.29
5,490.0	3.90	250.70	5,475.4	-80.0	-309.4	-49.1	0.15	0.05	-2.17
5,679.0	4.40	251.10	5,663.9	-84.5	-322.4	-52.3	0.26	0.26	0.21
5,868.0	3.60	271.00	5,852.4	-86.7	-335.2	-53.3	0.84	-0.42	10.53
6,057.0	3.50	273.10	6,041.1	-86.3	-346.9	-51.7	0.09	-0.05	1.11
6,246.0	4.00	270.80	6,229.7	-85.9	-359.2	-50.1	0.28	0.26	-1.22
6,436.0	4.00	273.30	6,419.2	-85.4	-372.4	-48.3	0.09	0.00	1.32
6,622.0	4.10	269.20	6,604.7	-85.2	-385.6	-46.7	0.16	0.05	-2.20
6,811.0	3.20	254.40	6,793.3	-86.7	-397.4	-47.1	0.69	-0.48	-7.83
7,000.0	2.80	254.90	6,982.1	-89.3	-406.9	-48.7	0.21	-0.21	0.26
7,189.0	2.90	252.20	7,170.9	-92.0	-416.0	-50.5	0.09	0.05	-1.43
7,378.0	2.80	247.40	7,359.6	-95.2	-424.8	-52.9	0.14	-0.05	-2.54
7,567.0	3.20	258.30	7,548.4	-98.0	-434.2	-54.8	0.37	0.21	5.77
7,756.0	3.00	253.20	7,737.1	-100.5	-444.1	-56.3	0.18	-0.11	-2.70
7,945.0	2.80	257.70	7,925.8	-102.9	-453.3	-57.8	0.16	-0.11	2.38
8,136.0	2.60	256.90	8,116.6	-104.9	-462.1	-58.9	0.11	-0.10	-0.42
8,325.0	2.30	249.00	8,305.5	-107.3	-469.8	-60.4	0.24	-0.16	-4.18



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Armstrong 26/23 W0FF Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Site:	Section 26 23-25S-31E Armstrong	MD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Well:	Armstrong 26/23 W0FF 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)
8,514.0	2.90	262.30	8,494.3	-109.3	-478.1	-61.6	0.45	0.32	7.04
8,703.0	2.80	275.10	8,683.0	-109.5	-487.5	-60.9	0.34	-0.05	6.77
8,893.0	2.80	276.60	8,872.8	-108.5	-496.7	-59.1	0.04	0.00	0.79
9,083.0	2.90	259.20	9,062.6	-108.9	-506.0	-58.5	0.46	0.05	-9.16
9,273.0	3.70	204.50	9,252.3	-115.4	-513.3	-64.2	1.64	0.42	-28.79
9,461.0	3.90	208.60	9,439.9	-126.5	-518.9	-74.8	0.18	0.11	2.18
9,649.0	3.90	234.50	9,627.5	-135.8	-527.1	-83.2	0.93	0.00	13.78
9,838.0	3.70	264.60	9,816.1	-140.2	-538.4	-86.4	1.05	-0.11	15.93
10,028.0	1.80	273.90	10,005.8	-140.5	-547.5	-85.9	1.02	-1.00	4.89
10,217.0	1.60	264.80	10,194.8	-140.6	-553.1	-85.4	0.18	-0.11	-4.81
10,406.0	2.80	258.40	10,383.6	-141.7	-560.2	-85.8	0.65	0.63	-3.39
10,595.0	3.00	240.50	10,572.4	-145.1	-569.1	-88.3	0.49	0.11	-9.47
10,784.0	3.20	258.70	10,761.1	-148.6	-578.6	-90.8	0.53	0.11	9.63
10,973.0	2.20	274.20	10,949.9	-149.3	-587.3	-90.7	0.65	-0.53	8.20
11,161.0	2.40	277.60	11,137.8	-148.5	-594.8	-89.2	0.13	0.11	1.81
11,238.0	2.20	263.50	11,214.7	-148.5	-597.9	-88.8	0.78	-0.26	-18.31
11,301.0	2.20	266.50	11,277.6	-148.7	-600.3	-88.8	0.18	0.00	4.76
11,364.0	3.30	331.50	11,340.6	-147.2	-602.4	-87.1	4.92	1.75	103.17
11,396.0	8.40	342.10	11,372.4	-144.2	-603.5	-84.0	16.22	15.94	33.13
11,427.0	11.90	345.60	11,402.9	-138.9	-605.0	-78.6	11.46	11.29	11.29
11,459.0	16.20	345.90	11,434.0	-131.4	-606.9	-70.9	13.44	13.44	0.94
11,490.0	19.80	350.70	11,463.4	-122.0	-608.9	-61.4	12.55	11.61	15.48
11,522.0	24.80	354.00	11,493.0	-110.0	-610.4	-49.3	16.10	15.63	10.31
11,553.0	29.20	353.90	11,520.6	-96.0	-611.9	-35.2	14.19	14.19	-0.32
11,584.0	32.20	353.50	11,547.3	-80.2	-613.7	-19.4	9.70	9.68	-1.29
11,616.0	36.10	354.60	11,573.8	-62.4	-615.5	-1.4	12.34	12.19	3.44
11,648.0	40.00	355.80	11,599.0	-42.7	-617.1	18.3	12.40	12.19	3.75
11,679.0	43.40	358.20	11,622.1	-22.1	-618.2	38.9	12.12	10.97	7.74
11,710.0	46.60	359.60	11,644.0	-0.2	-618.6	60.8	10.80	10.32	4.52
11,742.0	49.90	0.80	11,665.3	23.6	-618.5	84.5	10.68	10.31	3.75
11,773.0	52.00	0.50	11,684.9	47.7	-618.3	108.4	6.82	6.77	-0.97
11,804.0	56.30	1.20	11,703.0	72.8	-617.9	133.4	13.99	13.87	2.26
11,836.0	60.50	1.50	11,719.8	100.1	-617.2	160.4	13.15	13.13	0.94
11,867.0	65.10	1.60	11,733.9	127.6	-616.5	187.8	14.84	14.84	0.32
11,899.0	68.30	0.90	11,746.6	157.0	-615.9	216.9	10.20	10.00	-2.19
11,931.0	71.20	0.60	11,757.7	187.0	-615.5	246.8	9.11	9.06	-0.94
11,962.0	72.60	0.70	11,767.3	216.5	-615.1	276.1	4.53	4.52	0.32
11,994.0	73.90	1.20	11,776.5	247.1	-614.6	306.5	4.33	4.06	1.56
12,025.0	73.50	1.30	11,785.2	276.9	-614.0	336.0	1.33	-1.29	0.32
12,057.0	74.50	1.00	11,794.1	307.6	-613.4	366.6	3.25	3.13	-0.94
12,088.0	77.70	0.90	11,801.5	337.7	-612.9	396.5	10.33	10.32	-0.32
12,120.0	82.20	0.80	11,807.1	369.2	-612.4	427.8	14.07	14.06	-0.31
12,151.0	86.50	0.70	11,810.1	400.0	-612.0	458.4	13.87	13.87	-0.32



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Armstrong 26/23 W0FF Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Site:	Section 26 23-25S-31E Armstrong	MD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Well:	Armstrong 26/23 W0FF 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)
12,183.0	88.10	0.00	11,811.6	432.0	-611.8	490.2	5.46	5.00	-2.19
12,214.0	89.30	1.90	11,812.3	463.0	-611.3	521.0	7.25	3.87	6.13
12,246.0	89.50	2.50	11,812.7	495.0	-610.1	552.7	1.98	0.63	1.88
12,278.0	88.40	1.80	11,813.3	526.9	-608.8	584.4	4.07	-3.44	-2.19
12,309.0	88.60	1.90	11,814.1	557.9	-607.8	615.1	0.72	0.65	0.32
12,340.0	89.40	3.00	11,814.6	588.9	-606.5	645.8	4.39	2.58	3.55
12,351.0	89.50	3.30	11,814.7	599.9	-605.9	656.7	2.87	0.91	2.73
12,446.0	88.70	0.50	11,816.2	694.8	-602.8	750.8	3.06	-0.84	-2.95
12,540.0	88.90	359.50	11,818.2	788.8	-602.8	844.3	1.08	0.21	-1.06
12,635.0	88.60	0.80	11,820.3	883.7	-602.5	938.8	1.40	-0.32	1.37
12,729.0	89.70	1.90	11,821.7	977.7	-600.3	1,032.1	1.65	1.17	1.17
12,824.0	89.30	0.80	11,822.5	1,072.7	-598.1	1,126.4	1.23	-0.42	-1.16
12,919.0	89.50	0.90	11,823.5	1,167.7	-596.7	1,220.8	0.24	0.21	0.11
13,014.0	91.10	359.10	11,823.0	1,262.6	-596.7	1,315.3	2.54	1.68	-1.89
13,108.0	90.50	0.80	11,821.7	1,356.6	-596.7	1,408.8	1.92	-0.64	1.81
13,203.0	90.50	3.90	11,820.8	1,451.5	-592.8	1,502.9	3.26	0.00	3.26
13,298.0	90.90	0.00	11,819.7	1,546.5	-589.6	1,597.0	4.13	0.42	-4.11
13,392.0	90.90	2.20	11,818.2	1,640.4	-587.8	1,690.4	2.34	0.00	2.34
13,487.0	90.90	1.70	11,816.7	1,735.4	-584.6	1,784.5	0.53	0.00	-0.53
13,581.0	91.00	0.00	11,815.1	1,829.3	-583.2	1,877.9	1.81	0.11	-1.81
13,676.0	91.00	356.60	11,813.5	1,924.3	-586.0	1,972.6	3.58	0.00	-3.58
13,770.0	90.40	359.00	11,812.3	2,018.2	-589.6	2,066.5	2.63	-0.64	2.55
13,865.0	88.90	359.80	11,812.9	2,113.2	-590.6	2,161.1	1.79	-1.58	0.84
13,959.0	89.40	1.00	11,814.3	2,207.1	-589.9	2,254.6	1.38	0.53	1.28
14,054.0	89.80	2.60	11,815.0	2,302.1	-587.0	2,348.7	1.74	0.42	1.68
14,148.0	89.50	1.80	11,815.6	2,396.0	-583.4	2,441.9	0.91	-0.32	-0.85
14,242.0	89.80	357.30	11,816.1	2,490.0	-584.1	2,535.4	4.80	0.32	-4.79
14,337.0	90.00	353.40	11,816.3	2,584.7	-591.8	2,630.4	4.11	0.21	-4.11
14,432.0	89.30	349.70	11,816.9	2,678.6	-605.8	2,725.3	3.96	-0.74	-3.89
14,527.0	90.20	350.10	11,817.3	2,772.1	-622.4	2,820.0	1.04	0.95	0.42
14,558.0	90.90	352.10	11,817.0	2,802.8	-627.2	2,850.9	6.84	2.26	6.45
14,590.0	91.10	354.80	11,816.4	2,834.5	-630.9	2,882.9	8.46	0.63	8.44
14,622.0	91.80	355.20	11,815.6	2,866.4	-633.6	2,914.9	2.52	2.19	1.25
14,653.0	91.70	357.90	11,814.7	2,897.3	-635.5	2,945.9	8.71	-0.32	8.71
14,684.0	92.40	359.80	11,813.6	2,928.3	-636.1	2,976.8	6.53	2.26	6.13
14,716.0	92.40	0.80	11,812.2	2,960.3	-636.0	3,008.6	3.12	0.00	3.13
14,748.0	92.40	0.00	11,810.9	2,992.3	-635.7	3,040.3	2.50	0.00	-2.50
14,779.0	91.50	1.20	11,809.8	3,023.2	-635.4	3,071.1	4.84	-2.90	3.87
14,811.0	91.30	1.50	11,809.0	3,055.2	-634.7	3,102.9	1.13	-0.63	0.94
14,842.0	92.20	1.80	11,808.1	3,086.2	-633.8	3,133.6	3.06	2.90	0.97
14,874.0	91.80	0.70	11,807.0	3,118.2	-633.1	3,165.4	3.66	-1.25	-3.44
14,905.0	90.60	0.70	11,806.3	3,149.1	-632.7	3,196.2	3.87	-3.87	0.00
14,937.0	89.40	0.60	11,806.3	3,181.1	-632.3	3,228.0	3.76	-3.75	-0.31
14,968.0	90.10	1.80	11,806.5	3,212.1	-631.7	3,258.8	4.48	2.26	3.87



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Armstrong 26/23 W0FF Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Site:	Section 26 23-25S-31E Armstrong	MD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Well:	Armstrong 26/23 W0FF Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM5000

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)
15,000.0	90.20	3.00	11,806.4	3,244.1	-630.3	3,290.4	3.76	0.31	3.75
15,031.0	89.80	2.00	11,806.4	3,275.1	-629.0	3,321.1	3.47	-1.29	-3.23
15,063.0	89.80	2.70	11,806.5	3,307.1	-627.7	3,352.8	2.19	0.00	2.19
15,094.0	89.00	0.40	11,806.8	3,338.0	-626.8	3,383.6	7.85	-2.58	-7.42
15,188.0	88.60	2.30	11,808.8	3,432.0	-624.6	3,476.8	2.07	-0.43	2.02
15,283.0	88.70	0.70	11,811.0	3,526.9	-622.1	3,571.1	1.69	0.11	-1.68
15,378.0	89.50	0.90	11,812.5	3,621.9	-620.8	3,665.5	0.87	0.84	0.21
15,472.0	89.50	0.70	11,813.3	3,715.9	-619.5	3,758.9	0.21	0.00	-0.21
15,566.0	88.70	2.50	11,814.8	3,809.8	-616.9	3,852.1	2.10	-0.85	1.91
15,661.0	90.50	3.30	11,815.5	3,904.7	-612.1	3,946.0	2.07	1.89	0.84
15,755.0	89.90	1.70	11,815.2	3,998.6	-608.0	4,039.1	1.82	-0.64	-1.70
15,849.0	90.80	2.30	11,814.6	4,092.6	-604.7	4,132.2	1.15	0.96	0.64
15,944.0	91.60	3.40	11,812.6	4,187.4	-600.0	4,226.2	1.43	0.84	1.16
16,038.0	89.30	1.60	11,811.9	4,281.3	-595.9	4,319.2	3.11	-2.45	-1.91
16,132.0	88.50	1.50	11,813.7	4,375.3	-593.3	4,412.4	0.86	-0.85	-0.11
16,226.0	87.80	1.80	11,816.7	4,469.2	-590.6	4,505.6	0.81	-0.74	0.32
16,321.0	88.90	1.40	11,819.4	4,564.1	-588.0	4,599.8	1.23	1.16	-0.42
16,416.0	89.80	2.40	11,820.5	4,659.0	-584.8	4,694.0	1.42	0.95	1.05
16,510.0	89.50	0.70	11,821.1	4,753.0	-582.3	4,787.2	1.84	-0.32	-1.81
16,605.0	89.30	359.30	11,822.1	4,848.0	-582.3	4,881.8	1.49	-0.21	-1.47
16,700.0	90.70	0.80	11,822.1	4,943.0	-582.2	4,976.3	2.16	1.47	1.58
16,794.0	90.50	359.70	11,821.1	5,037.0	-581.8	5,069.8	1.19	-0.21	-1.17
16,892.0	90.20	0.80	11,820.5	5,135.0	-581.4	5,167.3	1.16	-0.31	1.12
16,987.0	93.10	2.20	11,817.8	5,229.9	-578.9	5,261.5	3.39	3.05	1.47
17,082.0	93.50	2.60	11,812.3	5,324.6	-574.9	5,355.4	0.59	0.42	0.42
17,176.0	93.80	0.40	11,806.3	5,418.4	-572.4	5,448.5	2.36	0.32	-2.34
17,208.0	92.20	359.40	11,804.6	5,450.4	-572.5	5,480.3	5.89	-5.00	-3.13
17,239.0	91.00	358.20	11,803.8	5,481.3	-573.1	5,511.1	5.47	-3.87	-3.87
17,271.0	92.00	357.70	11,802.9	5,513.3	-574.3	5,543.1	3.49	3.13	-1.56
17,303.0	91.90	358.40	11,801.8	5,545.3	-575.4	5,575.0	2.21	-0.31	2.19
17,334.0	90.60	357.30	11,801.2	5,576.2	-576.5	5,605.9	5.49	-4.19	-3.55
17,366.0	90.80	356.50	11,800.8	5,608.2	-578.3	5,637.9	2.58	0.63	-2.50
17,397.0	88.30	355.70	11,801.0	5,639.1	-580.4	5,668.9	8.47	-8.06	-2.58
17,429.0	87.90	354.30	11,802.1	5,671.0	-583.2	5,700.8	4.55	-1.25	-4.38
17,461.0	87.30	354.40	11,803.4	5,702.8	-586.3	5,732.8	1.90	-1.88	0.31
17,492.0	88.30	353.90	11,804.6	5,733.6	-589.5	5,763.8	3.61	3.23	-1.61
17,524.0	89.90	354.80	11,805.1	5,765.5	-592.6	5,795.8	5.74	5.00	2.81
17,556.0	92.30	357.90	11,804.5	5,797.4	-594.7	5,827.8	12.25	7.50	9.69
17,587.0	91.30	356.00	11,803.5	5,828.3	-596.3	5,858.7	6.92	-3.23	-6.13
17,619.0	89.30	356.60	11,803.3	5,860.2	-598.4	5,890.7	6.53	-6.25	1.88
17,650.0	89.40	356.90	11,803.7	5,891.2	-600.1	5,921.7	1.02	0.32	0.97
17,681.0	89.10	355.50	11,804.1	5,922.1	-602.2	5,952.6	4.62	-0.97	-4.52
17,713.0	88.40	355.10	11,804.8	5,954.0	-604.8	5,984.6	2.52	-2.19	-1.25



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Armstrong 26/23 W0FF Fed Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Site:	Section 26 23-25S-31E Armstrong	MD Reference:	3332+27 @ 3359.0usft (Patterson 231)
Well:	Armstrong 26/23 W0FF 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)
17,745.0	88.00	356.50	11,805.8	5,985.9	-607.2	6,016.6	4.55	-1.25	4.38
17,776.0	85.50	355.40	11,807.6	6,016.8	-609.3	6,047.5	8.81	-8.06	-3.55
17,808.0	85.50	353.80	11,810.1	6,048.5	-612.3	6,079.4	4.98	0.00	-5.00
17,840.0	85.70	354.90	11,812.5	6,080.3	-615.5	6,111.3	3.48	0.63	3.44
17,871.0	86.90	356.20	11,814.5	6,111.1	-617.9	6,142.3	5.70	3.87	4.19
17,903.0	89.50	356.50	11,815.5	6,143.0	-619.9	6,174.2	8.18	8.13	0.94
17,934.0	90.00	358.00	11,815.7	6,174.0	-621.4	6,205.2	5.10	1.61	4.84
17,966.0	89.50	355.30	11,815.8	6,205.9	-623.3	6,237.2	8.58	-1.56	-8.44
17,997.0	90.30	357.00	11,815.9	6,236.9	-625.4	6,268.1	6.06	2.58	5.48
18,028.0	88.60	357.30	11,816.2	6,267.8	-626.9	6,299.1	5.57	-5.48	0.97
18,062.0	87.80	357.50	11,817.2	6,301.8	-628.4	6,333.0	2.43	-2.35	0.59
18,138.0	87.80	357.50	11,820.2	6,377.7	-631.7	6,408.9	0.00	0.00	0.00
18138.0' Projected to bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
917.0	917.0	2.8	-0.3	First Stryker Surveys
18,138.0	11,820.2	6,377.7	-631.7	18138.0' Projected to bit

Checked By: _____ Approved By: _____ Date: _____



May 4, 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

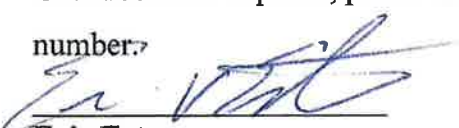
Re: Mewbourne Oil Company
Armstrong 26 23 W0FF Federal Com #2H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-46351

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>
Glenn Thompson	Original Hole	1,015ft. to 18,062ft.	12-24-19 to 01-16-20	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:

number:


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\Armstrong 26 23 W0FF Fed Com #2H\M191205

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



May 4, 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 24, 2019, through January 16, 2020 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,015 feet to a depth of 18,062 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Armstrong 26 23 W0FF Federal Com #002H, well API # **30-015-46351** 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 blue 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 26 23-25S-31E Armstrong
Well: Armstrong 26/23 W0FF Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference: 3332+27 @ 3359.0usft (Patterson 231)
MD Reference: 3332+27 @ 3359.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey Program **Date** 01/15/20

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	917.0	Gyro Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
1,015.0	18,138.0	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	401,214.70	721,627.20
100.0	0.10	150.10	100.0	-0.1	0.0	0.1	150.10	0.10	401,214.62	721,627.24
200.0	0.30	219.20	200.0	-0.4	-0.1	0.4	192.49	0.28	401,214.35	721,627.12
300.0	0.12	278.01	300.0	-0.5	-0.3	0.6	212.65	0.26	401,214.16	721,626.85
400.0	0.18	287.23	400.0	-0.5	-0.6	0.8	231.32	0.06	401,214.22	721,626.60
500.0	0.05	13.99	500.0	-0.4	-0.7	0.8	242.09	0.18	401,214.31	721,626.46
600.0	0.12	13.66	600.0	-0.2	-0.7	0.7	250.61	0.07	401,214.45	721,626.49
700.0	0.39	6.09	700.0	0.2	-0.6	0.7	286.57	0.27	401,214.89	721,626.56
800.0	0.82	12.07	800.0	1.2	-0.5	1.3	339.54	0.43	401,215.93	721,626.74
900.0	0.80	359.05	900.0	2.6	-0.3	2.6	353.04	0.18	401,217.33	721,626.88
917.0	0.38	19.34	917.0	2.8	-0.3	2.8	353.80	2.72	401,217.50	721,626.90
First Stryker Surveys										
1,015.0	0.90	11.80	1,015.0	3.9	0.0	3.9	359.42	0.54	401,218.56	721,627.16
1,109.0	2.40	288.70	1,108.9	5.2	-1.8	5.5	341.42	2.62	401,219.91	721,625.45
1,235.0	7.40	270.90	1,234.4	6.2	-12.4	13.8	296.57	4.10	401,220.89	721,614.83
1,424.0	7.40	276.40	1,421.9	7.7	-36.6	37.4	281.92	0.37	401,222.44	721,590.56
1,611.0	7.00	281.10	1,607.4	11.3	-59.8	60.8	280.68	0.38	401,225.97	721,567.41
1,802.0	5.80	268.90	1,797.2	13.3	-80.9	81.9	279.36	0.95	401,228.03	721,546.34
1,991.0	6.30	261.50	1,985.2	11.6	-100.7	101.3	276.58	0.49	401,226.31	721,526.54
2,179.0	5.80	260.60	2,172.1	8.5	-120.2	120.5	274.06	0.27	401,223.23	721,506.96
2,369.0	4.40	238.30	2,361.4	3.1	-135.9	135.9	271.32	1.26	401,217.84	721,491.29

Company: Newbourn Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 26 23-25S-31E Armstrong
Well: Armstrong 26/23 W0FF Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

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

Well Armstrong 26/23 W0FF Fed Com #2H
 3332+27 @ 3359.0usft (Patterson 231)
 3332+27 @ 3359.0usft (Patterson 231)
 Grid
 Minimum Curvature
 EDM5000

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closeure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,557.0	5.00	234.40	2,548.7	-5.4	-148.7	148.8	267.91	0.36	401,209.28	721,478.49
2,747.0	3.90	249.80	2,738.2	-12.5	-161.5	162.0	265.58	0.85	401,202.23	721,465.69
2,937.0	3.70	257.70	2,927.8	-16.0	-173.6	174.3	264.73	0.29	401,198.69	721,453.64
3,126.0	3.90	269.40	3,116.3	-17.4	-185.9	186.8	264.66	0.42	401,197.32	721,441.25
3,315.0	4.00	266.20	3,304.9	-17.9	-198.9	199.8	264.86	0.13	401,196.82	721,428.25
3,505.0	2.90	249.00	3,494.6	-20.0	-210.0	211.0	264.55	0.79	401,194.66	721,417.15
3,694.0	2.80	209.90	3,683.3	-25.8	-216.8	218.3	263.22	1.01	401,188.94	721,410.39
3,882.0	3.60	214.20	3,871.0	-34.6	-222.4	225.1	261.15	0.44	401,180.08	721,404.78
4,070.0	2.60	199.70	4,058.8	-43.5	-227.2	231.3	259.16	0.67	401,171.18	721,400.02
4,220.0	2.20	199.00	4,208.6	-49.4	-229.3	234.5	257.83	0.27	401,165.26	721,397.94
4,355.0	2.20	213.60	4,343.5	-54.1	-231.5	237.8	256.86	0.41	401,160.65	721,395.66
4,545.0	6.20	246.10	4,533.0	-61.3	-242.9	250.5	255.85	2.37	401,153.45	721,384.26
4,734.0	4.90	246.20	4,721.1	-68.6	-259.7	268.6	255.19	0.69	401,146.06	721,367.54
4,923.0	3.60	264.40	4,909.6	-72.5	-273.0	282.4	255.13	0.98	401,142.22	721,354.25
5,112.0	3.80	262.90	5,098.2	-73.8	-285.1	294.5	255.48	0.12	401,140.87	721,342.13
5,301.0	3.80	254.80	5,286.8	-76.2	-297.3	307.0	255.62	0.28	401,138.45	721,329.87
5,490.0	3.90	250.70	5,475.4	-80.0	-309.4	319.6	255.50	0.15	401,134.68	721,317.76
5,679.0	4.40	251.10	5,663.9	-84.5	-322.4	333.3	255.31	0.26	401,130.21	721,304.83
5,868.0	3.60	271.00	5,852.4	-86.7	-335.2	346.2	255.49	0.84	401,127.97	721,292.04
6,057.0	3.50	273.10	6,041.1	-86.3	-346.9	357.4	256.03	0.09	401,128.38	721,280.35
6,246.0	4.00	270.80	6,229.7	-85.9	-359.2	369.3	256.55	0.28	401,128.79	721,268.00
6,436.0	4.00	273.30	6,419.2	-85.4	-372.4	382.1	257.08	0.09	401,129.26	721,254.75
6,622.0	4.10	269.20	6,604.7	-85.2	-385.6	394.9	257.55	0.16	401,129.54	721,241.63
6,811.0	3.20	254.40	6,793.3	-86.7	-397.4	406.8	257.70	0.69	401,128.03	721,229.79
7,000.0	2.80	254.90	6,982.1	-89.3	-406.9	416.6	257.62	0.21	401,125.41	721,220.25
7,189.0	2.90	252.20	7,170.9	-92.0	-416.0	426.0	257.53	0.09	401,122.74	721,211.24
7,378.0	2.80	247.40	7,359.6	-95.2	-424.8	435.3	257.37	0.14	401,119.51	721,202.43

Company: Newbourn Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 26 23-25S-31E Armstrong
Well: Armstrong 26/23 W0FF Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

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

Well Armstrong 26/23 W0FF Fed Com #2H
 3332+27 @ 3359.0usft (Patterson 231)
 3332+27 @ 3359.0usft (Patterson 231)
 Grid
 Minimum Curvature
 EDM5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closeure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
	7,567.0	3.20	258.30	7,548.4	-98.0	-434.2	445.1	257.28	0.37	401,116.66	721,193.00
	7,756.0	3.00	253.20	7,737.1	-100.5	-444.1	455.3	257.24	0.18	401,114.16	721,183.10
	7,945.0	2.80	257.70	7,925.8	-102.9	-453.3	464.9	257.21	0.16	401,111.75	721,173.86
	8,136.0	2.60	256.90	8,116.6	-104.9	-462.1	473.9	257.21	0.11	401,109.78	721,165.08
	8,325.0	2.30	249.00	8,305.5	-107.3	-469.8	481.9	257.14	0.24	401,107.45	721,157.36
	8,514.0	2.90	262.30	8,494.3	-109.3	-478.1	490.4	257.13	0.45	401,105.45	721,149.09
	8,703.0	2.80	275.10	8,683.0	-109.5	-487.5	499.6	257.34	0.34	401,105.22	721,139.75
	8,893.0	2.80	276.60	8,872.8	-108.5	-496.7	508.4	257.67	0.04	401,106.16	721,130.52
	9,083.0	2.90	259.20	9,062.6	-108.9	-506.0	517.6	257.85	0.46	401,105.79	721,121.19
	9,273.0	3.70	204.50	9,252.3	-115.4	-513.3	526.1	257.33	1.64	401,099.31	721,113.92
	9,461.0	3.90	208.60	9,439.9	-126.5	-518.9	534.1	256.30	0.18	401,088.18	721,108.34
	9,649.0	3.90	234.50	9,627.5	-135.8	-527.1	544.3	255.55	0.93	401,078.85	721,100.08
	9,838.0	3.70	264.60	9,816.1	-140.2	-538.4	556.4	255.41	1.05	401,074.55	721,088.77
	10,028.0	1.80	273.90	10,005.8	-140.5	-547.5	565.3	255.60	1.02	401,074.17	721,079.69
	10,217.0	1.60	264.80	10,194.8	-140.6	-553.1	570.7	255.74	0.18	401,074.14	721,074.10
	10,406.0	2.80	258.40	10,383.6	-141.7	-560.2	577.9	255.80	0.65	401,072.97	721,066.95
	10,595.0	3.00	240.50	10,572.4	-145.1	-569.1	587.3	255.70	0.49	401,069.60	721,058.13
	10,784.0	3.20	258.70	10,761.1	-148.6	-578.6	597.3	255.60	0.53	401,066.13	721,048.65
	10,973.0	2.20	274.20	10,949.9	-149.3	-587.3	606.0	255.73	0.65	401,065.37	721,039.86
	11,161.0	2.40	277.60	11,137.8	-148.5	-594.8	613.1	255.98	0.13	401,066.15	721,032.36
	11,238.0	2.20	263.50	11,214.7	-148.5	-597.9	616.1	256.05	0.78	401,066.20	721,029.29
	11,301.0	2.20	266.50	11,277.6	-148.7	-600.3	618.5	256.09	0.18	401,065.99	721,026.88
	11,364.0	3.30	331.50	11,340.6	-147.2	-602.4	620.1	256.27	4.92	401,067.51	721,024.81
	11,396.0	8.40	342.10	11,372.4	-144.2	-603.5	620.5	256.57	16.22	401,070.54	721,023.65
	11,427.0	11.90	345.60	11,402.9	-138.9	-605.0	620.8	257.07	11.46	401,075.79	721,022.16
	11,459.0	16.20	345.90	11,434.0	-131.4	-606.9	621.0	257.79	13.44	401,083.32	721,020.25
	11,490.0	19.80	350.70	11,463.4	-122.0	-608.9	621.0	258.67	12.55	401,092.70	721,018.35



Stryker Energy Directional Services

Survey Report Landscape



Company: Newbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 26 23-25S-31E Armstrong
Well: Armstrong 26/23 W0FF Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference: 3332+27 @ 3359.0usft (Patterson 231)
MD Reference: 3332+27 @ 3359.0usft (Patterson 231)
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)	Close Azimuth (°)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
11,522.0	24.80	354.00	11,493.0	-110.0	-610.4	620.3	259.79	16.10	401,104.73	721,016.77
11,553.0	29.20	353.90	11,520.6	-96.0	-611.9	619.4	261.09	14.19	401,118.73	721,015.29
11,584.0	32.20	353.50	11,547.3	-80.2	-613.7	618.9	262.55	9.70	401,134.45	721,013.55
11,616.0	36.10	354.60	11,573.8	-62.4	-615.5	618.7	264.21	12.34	401,152.32	721,011.69
11,648.0	40.00	355.80	11,599.0	-42.7	-617.1	618.6	266.04	12.40	401,171.97	721,010.05
11,679.0	43.40	358.20	11,622.1	-22.1	-618.2	618.6	267.95	12.12	401,192.56	721,008.99
11,710.0	46.60	359.60	11,644.0	-0.2	-618.6	618.6	269.98	10.80	401,214.47	721,008.57
11,742.0	49.90	0.80	11,665.3	23.6	-618.5	619.0	272.19	10.68	401,238.34	721,008.66
11,773.0	52.00	0.50	11,684.9	47.7	-618.3	620.1	274.41	6.82	401,262.41	721,008.94
11,804.0	56.30	1.20	11,703.0	72.8	-617.9	622.2	276.72	13.99	401,287.53	721,009.31
11,836.0	60.50	1.50	11,719.8	100.1	-617.2	625.3	279.21	13.15	401,314.77	721,009.96
11,867.0	65.10	1.60	11,733.9	127.6	-616.5	629.6	281.70	14.84	401,342.32	721,010.70
11,899.0	68.30	0.90	11,746.6	157.0	-615.9	635.6	284.30	10.20	401,371.70	721,011.34
11,931.0	71.20	0.60	11,757.7	187.0	-615.5	643.3	286.90	9.11	401,401.72	721,011.73
11,962.0	72.60	0.70	11,767.3	216.5	-615.1	652.1	289.39	4.53	401,431.18	721,012.07
11,994.0	73.90	1.20	11,776.5	247.1	-614.6	662.4	291.90	4.33	401,461.82	721,012.58
12,025.0	73.50	1.30	11,785.2	276.9	-614.0	673.5	294.27	1.33	401,491.57	721,013.23
12,057.0	74.50	1.00	11,794.1	307.6	-613.4	686.2	296.64	3.25	401,522.32	721,013.84
12,088.0	77.70	0.90	11,801.5	337.7	-612.9	699.7	298.86	10.33	401,552.41	721,014.34
12,120.0	82.20	0.80	11,807.1	369.2	-612.4	715.1	301.09	14.07	401,583.90	721,014.81
12,151.0	86.50	0.70	11,810.1	400.0	-612.0	731.1	303.17	13.87	401,614.74	721,015.21
12,183.0	88.10	0.00	11,811.6	432.0	-611.8	748.9	305.23	5.46	401,646.70	721,015.41
12,214.0	89.30	1.90	11,812.3	463.0	-611.3	766.8	307.14	7.25	401,677.69	721,015.92
12,246.0	89.50	2.50	11,812.7	495.0	-610.1	785.6	309.05	1.98	401,709.67	721,017.15
12,278.0	88.40	1.80	11,813.3	526.9	-608.8	805.2	310.87	4.07	401,741.64	721,018.35
12,309.0	88.60	1.90	11,814.1	557.9	-607.8	825.1	312.55	0.72	401,772.61	721,019.35
12,340.0	89.40	3.00	11,814.6	588.9	-606.5	845.4	314.15	4.39	401,803.58	721,020.68

Company: Mewbourne Oil Company
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Site: Section 26 23-25S-31E Armstrong
Well: Armstrong 26/23 W0FF Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
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MD Reference: 3332+27 @ 3359.0usft (Patterson 231)
North Reference: 3332+27 @ 3359.0usft (Patterson 231)
Survey Calculation Method: Grid
Database: Minimum Curvature
EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
12,351.0	89.50	3.30	11,814.7	599.9	-605.9	852.6	314.71	2.87	401,814.56	721,021.28
12,446.0	88.70	0.50	11,816.2	694.8	-602.8	919.8	319.06	3.06	401,909.48	721,024.43
12,540.0	88.90	359.50	11,818.2	788.8	-602.8	992.7	322.61	1.08	402,003.46	721,024.43
12,635.0	88.60	0.80	11,820.3	883.7	-602.5	1,069.6	325.71	1.40	402,098.44	721,024.68
12,729.0	89.70	1.90	11,821.7	977.7	-600.3	1,147.3	328.45	1.65	402,192.40	721,026.89
12,824.0	89.30	0.80	11,822.5	1,072.7	-598.1	1,228.1	330.86	1.23	402,287.37	721,029.13
12,919.0	89.50	0.90	11,823.5	1,167.7	-596.7	1,311.3	332.93	0.24	402,382.35	721,030.54
13,014.0	91.10	359.10	11,823.0	1,262.6	-596.7	1,396.5	334.71	2.54	402,477.34	721,030.54
13,108.0	90.50	0.80	11,821.7	1,356.6	-596.7	1,482.1	336.26	1.92	402,571.33	721,030.46
13,203.0	90.50	3.90	11,820.8	1,451.5	-592.8	1,567.9	337.78	3.26	402,666.23	721,034.35
13,298.0	90.90	0.00	11,819.7	1,546.5	-589.6	1,655.0	339.13	4.13	402,761.15	721,037.58
13,392.0	90.90	2.20	11,818.2	1,640.4	-587.8	1,742.6	340.29	2.34	402,855.12	721,039.39
13,487.0	90.90	1.70	11,816.7	1,735.4	-584.6	1,831.2	341.38	0.53	402,950.05	721,042.62
13,581.0	91.00	0.00	11,815.1	1,829.3	-583.2	1,920.0	342.32	1.81	403,044.03	721,044.01
13,676.0	91.00	356.60	11,813.5	1,924.3	-586.0	2,011.5	343.06	3.58	403,138.96	721,041.20
13,770.0	90.40	359.00	11,812.3	2,018.2	-589.6	2,102.5	343.71	2.63	403,232.87	721,037.59
13,865.0	88.90	359.80	11,812.9	2,113.2	-590.6	2,194.1	344.38	1.79	403,327.86	721,036.59
13,959.0	89.40	1.00	11,814.3	2,207.1	-589.9	2,284.6	345.04	1.38	403,421.85	721,037.25
14,054.0	89.80	2.60	11,815.0	2,302.1	-587.0	2,375.7	345.70	1.74	403,516.79	721,040.23
14,148.0	89.50	1.80	11,815.6	2,396.0	-583.4	2,466.0	346.32	0.91	403,610.72	721,043.84
14,242.0	89.80	357.30	11,816.1	2,490.0	-584.1	2,557.6	346.80	4.80	403,704.69	721,043.11
14,337.0	90.00	353.40	11,816.3	2,584.7	-591.8	2,651.5	347.10	4.11	403,799.36	721,035.41
14,432.0	89.30	349.70	11,816.9	2,678.6	-605.8	2,746.3	347.26	3.96	403,893.31	721,021.45
14,527.0	90.20	350.10	11,817.3	2,772.1	-622.4	2,841.2	347.35	1.04	403,986.84	721,004.79
14,558.0	90.90	352.10	11,817.0	2,802.8	-627.2	2,872.1	347.39	6.84	404,017.46	720,999.99
14,590.0	91.10	354.80	11,816.4	2,834.5	-630.9	2,903.9	347.45	8.46	404,049.24	720,996.34
14,622.0	91.80	355.20	11,815.6	2,866.4	-633.6	2,935.6	347.53	2.52	404,081.11	720,993.56



Stryker Energy Directional Services

Survey Report Landscape



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TVD Reference: 3332+27 @ 3359.0usft (Patterson 231)
MD Reference: 3332+27 @ 3359.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Well Armstrong 26/23 W0FF Fed Com #2H
3332+27 @ 3359.0usft (Patterson 231)
3332+27 @ 3359.0usft (Patterson 231)
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)
14,653.0	91.70	357.90	11,814.7	2,897.3	-635.5	2,966.2	347.63	8.71	404,112.04	720,991.69
14,684.0	92.40	359.80	11,813.6	2,928.3	-636.1	2,996.6	347.74	6.53	404,143.01	720,991.07
14,716.0	92.40	0.80	11,812.2	2,960.3	-636.0	3,027.8	347.88	3.12	404,174.98	720,991.24
14,748.0	92.40	0.00	11,810.9	2,992.3	-635.7	3,059.0	348.01	2.50	404,206.95	720,991.46
14,779.0	91.50	1.20	11,809.8	3,023.2	-635.4	3,089.3	348.13	4.84	404,237.93	720,991.78
14,811.0	91.30	1.50	11,809.0	3,055.2	-634.7	3,120.4	348.26	1.13	404,269.91	720,992.54
14,842.0	92.20	1.80	11,808.1	3,086.2	-633.8	3,150.6	348.40	3.06	404,300.89	720,993.43
14,874.0	91.80	0.70	11,807.0	3,118.2	-633.1	3,181.8	348.52	3.66	404,332.86	720,994.13
14,905.0	90.60	0.70	11,806.3	3,149.1	-632.7	3,212.1	348.64	3.87	404,363.85	720,994.51
14,937.0	89.40	0.60	11,806.3	3,181.1	-632.3	3,243.4	348.76	3.76	404,395.85	720,994.87
14,968.0	90.10	1.80	11,806.5	3,212.1	-631.7	3,273.7	348.87	4.48	404,426.84	720,995.52
15,000.0	90.20	3.00	11,806.4	3,244.1	-630.3	3,304.8	349.00	3.76	404,458.81	720,996.86
15,031.0	89.80	2.00	11,806.4	3,275.1	-629.0	3,334.9	349.13	3.47	404,489.78	720,998.21
15,063.0	89.80	2.70	11,806.5	3,307.1	-627.7	3,366.1	349.25	2.19	404,521.75	720,999.52
15,094.0	89.00	0.40	11,806.8	3,338.0	-626.8	3,396.4	349.36	7.85	404,552.74	721,000.36
15,188.0	88.60	2.30	11,808.8	3,432.0	-624.6	3,488.4	349.69	2.07	404,646.69	721,002.58
15,283.0	88.70	0.70	11,811.0	3,526.9	-622.1	3,581.4	350.00	1.69	404,741.62	721,005.06
15,378.0	89.50	0.90	11,812.5	3,621.9	-620.8	3,674.7	350.27	0.87	404,836.60	721,006.39
15,472.0	89.50	0.70	11,813.3	3,715.9	-619.5	3,767.2	350.53	0.21	404,930.59	721,007.70
15,566.0	88.70	2.50	11,814.8	3,809.8	-616.9	3,859.5	350.80	2.10	405,024.54	721,010.32
15,661.0	90.50	3.30	11,815.5	3,904.7	-612.1	3,952.4	351.09	2.07	405,119.41	721,015.13
15,755.0	89.90	1.70	11,815.2	3,998.6	-608.0	4,044.6	351.35	1.82	405,213.31	721,019.23
15,849.0	90.80	2.30	11,814.6	4,092.6	-604.7	4,137.0	351.60	1.15	405,307.25	721,022.51
15,944.0	91.60	3.40	11,812.6	4,187.4	-600.0	4,230.2	351.85	1.43	405,402.11	721,027.23
16,038.0	89.30	1.60	11,811.9	4,281.3	-595.9	4,322.6	352.08	3.11	405,496.01	721,031.33
16,132.0	88.50	1.50	11,813.7	4,375.3	-593.3	4,415.3	352.28	0.86	405,589.96	721,033.87
16,226.0	87.80	1.80	11,816.7	4,469.2	-590.6	4,508.0	352.47	0.81	405,683.87	721,036.58



Stryker Energy Directional Services

Survey Report Landscape



Company: Newbourn Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 26 23-25S-31E Armstrong
Well: Armstrong 26/23 W0FF Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference: 3332+27 @ 3359.0usft (Patterson 231)
MD Reference: 3332+27 @ 3359.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Close Azimuth (°)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
16,321.0	88.90	1.40	11,819.4	4,564.1	-588.0	4,601.8	352.66	1.23	405,778.79	721,039.23
16,416.0	89.80	2.40	11,820.5	4,659.0	-584.8	4,695.6	352.85	1.42	405,873.73	721,042.38
16,510.0	89.50	0.70	11,821.1	4,753.0	-582.3	4,788.5	353.02	1.84	405,967.69	721,044.92
16,605.0	89.30	359.30	11,822.1	4,848.0	-582.3	4,882.8	353.15	1.49	406,062.68	721,044.92
16,700.0	90.70	0.80	11,822.1	4,943.0	-582.2	4,977.1	353.28	2.16	406,157.68	721,045.01
16,794.0	90.50	359.70	11,821.1	5,037.0	-581.8	5,070.5	353.41	1.19	406,251.67	721,045.42
16,892.0	90.20	0.80	11,820.5	5,135.0	-581.4	5,167.8	353.54	1.16	406,349.67	721,045.84
16,987.0	93.10	2.20	11,817.8	5,229.9	-578.9	5,261.8	353.68	3.39	406,444.58	721,048.33
17,082.0	93.50	2.60	11,812.3	5,324.6	-574.9	5,355.6	353.84	0.59	406,539.34	721,052.30
17,176.0	93.80	0.40	11,806.3	5,418.4	-572.4	5,448.6	353.97	2.36	406,633.11	721,054.76
17,208.0	92.20	359.40	11,804.6	5,450.4	-572.5	5,480.4	354.00	5.89	406,665.07	721,054.70
17,239.0	91.00	358.20	11,803.8	5,481.3	-573.1	5,511.2	354.03	5.47	406,696.05	721,054.05
17,271.0	92.00	357.70	11,802.9	5,513.3	-574.3	5,543.1	354.05	3.49	406,728.02	721,052.91
17,303.0	91.90	358.40	11,801.8	5,545.3	-575.4	5,575.0	354.08	2.21	406,759.98	721,051.82
17,334.0	90.60	357.30	11,801.2	5,576.2	-576.5	5,606.0	354.10	5.49	406,790.95	721,050.66
17,366.0	90.80	356.50	11,800.8	5,608.2	-578.3	5,637.9	354.11	2.58	406,822.90	721,048.92
17,397.0	88.30	355.70	11,801.0	5,639.1	-580.4	5,668.9	354.12	8.47	406,853.82	721,046.82
17,429.0	87.90	354.30	11,802.1	5,671.0	-583.2	5,700.9	354.13	4.55	406,885.68	721,044.03
17,461.0	87.30	354.40	11,803.4	5,702.8	-586.3	5,732.9	354.13	1.90	406,917.50	721,040.88
17,492.0	88.30	353.90	11,804.6	5,733.6	-589.5	5,763.8	354.13	3.61	406,948.31	721,037.72
17,524.0	89.90	354.80	11,805.1	5,765.5	-592.6	5,795.8	354.13	5.74	406,980.15	721,034.57
17,556.0	92.30	357.90	11,804.5	5,797.4	-594.7	5,827.8	354.14	12.25	407,012.08	721,032.54
17,587.0	91.30	356.00	11,803.5	5,828.3	-596.3	5,858.7	354.16	6.92	407,043.02	721,030.89
17,619.0	89.30	356.60	11,803.3	5,860.2	-598.4	5,890.7	354.17	6.53	407,074.95	721,028.82
17,650.0	89.40	356.90	11,803.7	5,891.2	-600.1	5,921.7	354.18	1.02	407,105.90	721,027.07
17,681.0	89.10	355.50	11,804.1	5,922.1	-602.2	5,952.7	354.19	4.62	407,136.82	721,025.01
17,713.0	88.40	355.10	11,804.8	5,954.0	-604.8	5,984.6	354.20	2.52	407,168.71	721,022.39



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 26 23-25S-31E Armstrong
Well: Armstrong 26/23 W0FF Fed Com #2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference: 3332+27 @ 3359.0usft (Patterson 231)
MD Reference: 3332+27 @ 3359.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 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)
17,745.0	88.00	356.50	11,805.8	5,985.9	-607.2	6,016.6	354.21	4.55	407,200.61	721,020.05
17,776.0	85.50	355.40	11,807.6	6,016.8	-609.3	6,047.6	354.22	8.81	407,231.48	721,017.86
17,808.0	85.50	353.80	11,810.1	6,048.5	-612.3	6,079.5	354.22	4.98	407,263.23	721,014.86
17,840.0	85.70	354.90	11,812.5	6,080.3	-615.5	6,111.4	354.22	3.48	407,294.98	721,011.72
17,871.0	86.90	356.20	11,814.5	6,111.1	-617.9	6,142.3	354.23	5.70	407,325.83	721,009.32
17,903.0	89.50	356.50	11,815.5	6,143.0	-619.9	6,174.2	354.24	8.18	407,357.74	721,007.28
17,934.0	90.00	358.00	11,815.7	6,174.0	-621.4	6,205.2	354.25	5.10	407,388.70	721,005.80
17,966.0	89.50	355.30	11,815.8	6,205.9	-623.3	6,237.2	354.26	8.58	407,420.65	721,003.93
17,997.0	90.30	357.00	11,815.9	6,236.9	-625.4	6,268.1	354.27	6.06	407,451.58	721,001.85
18,028.0	88.60	357.30	11,816.2	6,267.8	-626.9	6,299.1	354.29	5.57	407,482.53	721,000.30
18,062.0	87.80	357.50	11,817.2	6,301.8	-628.4	6,333.0	354.31	2.43	407,516.48	720,998.76
18,138.0	87.80	357.50	11,820.2	6,377.7	-631.7	6,408.9	354.34	0.00	407,592.35	720,995.45
18138.0' Projected to bit										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/S (usft)	+E/W (usft)	Comment
917.0	917.0	2.8	-0.3	First Stryker Surveys
18,138.0	11,820.2	6,377.7	-631.7	18138.0' Projected to bit

Checked By: _____

Approved By: _____

Date: _____