State of New Mexico
Energy, Minerals and Natural Resources Department

08/06/2020

Operator Notice Regarding

C-104 Denial and Request for Information

30-015-46210 COLTRANE 36 25 W0PI FEDERAL COM #001H

OCD is providing notice to operators that it will deny your C-104 – *Request for Allowable and Authorization to Transport* if it fails to provide complete and accurate information, including:

Test Allowable, New Well and Recompleted Well

Please review/amend attachment(s):

Amend/Verify highlighted areas.

- ☒ C-103 (or BLM equivalent) for all casing strings
  - ☐ Spud Notice
  - ☐ Surface Casing
  - ☐ Intermediate Casing (if applicable)
  - ☒ Additional Intermediate Casing (if applicable) *No sundry notice proving highlighted on attachments.*
  - ☐ Production Casing or Liner
- ☐ Applicable Order (NSL, NSP, Other _____)
- ☐ Deviation Survey for Vertical Wells
- ☐ Directional Survey
- ☐ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

- ☒ C-103 Completion Sundry (or BLM equivalent) *Tubing install still not in effect?*
- ☒ C-105 Completion Report (or BLM equivalent) *Missing BLM REVISED approval copy, update highlighted fields. Please state on tbg. field of requested exemption as stated on approved Sundry notice.*
- ☐ All Logs Run on Well

The sale or transport of product without an approved C-104 violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC. OCD determines that your C-104 is incomplete or inaccurate. Failure to comply with this notice may result in enforcement action.

If you have any questions, please contact the local OCD District Office.

Once Complete, re-submit through e docs asap. Thank you.

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

State of New Mexico
Energy, Minerals & Natural Resources

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

EMNRD-OCD ARTESIA
REC'D: 4/17/2020

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241	14744
	[3] Reason for Filing Code/ Effective Date NW / 01/24/2020

[4] API Number	[5] Pool Name	[6] Pool Code
30 - 015 - 46210	Purple Sage; Wolfcamp (Gas)	98220
[7] Property Code	[8] Property Name	[9] Well Number
326024	Coltrane 36/25 W0PI Federal Com	1H

II. [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
P	36	25S	31E		400	South	410	East	Eddy

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	25	25S	31E		2321	South	336	West	Eddy

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
F	Flowing	01/21/2020			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
35246	Shell Trading US Co. PO Box 4604 Houston, TX 77210	O
285689	Delaware Basin Midstream 1201 Lake Robbins Drive The Woodlands, Texas 77380	G

IV. Well Completion Data

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

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
09/02/2019	01/24/2020	19143' MD	19122'	11866' - 19122'	NA

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
26" 17 ½"	20" 94# K55 13 ⅜" 54.5# J55	204' 1260'	575 975
12 ¼"	9 ⅝" 40# HCL80	4244'	1175
8 ¾"	7" 29# P110	11843'	825
6 ⅛"	4 ½" 13.5# HCP110	11258' - 19142	475

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
01/24/2020	01/24/2020	01/28/2020	24 hrs	NA	3750
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
25/64"	809	3656	3342		Flowing

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

Signature: Jackie Lathan

Printed name: Jackie Lathan

Title: Regulatory

E-mail Address: jlathan@mewbourne.com

Date: 02/25/2020

Phone: 575-393-5905

OIL CONSERVATION DIVISION

Approved by: DENIED

Title:

Approval Date:

refer to page 1 from attachments

EMNRD-OCD ARTESIA
REC'D: 4/17/2020

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

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	2 Pool Code	3 Pool Name
30-015-46210	98220	Purple Sage; Wolfcamp (Gas)

4 Property Code	5 Property Name	6 Well Number
326024	COLTRANE 36/25 WOPI FEDERAL COM	1H

7 OGRID NO.	8 Operator Name	9 Elevation
14744	MEWBOURNE OIL COMPANY	3301'

10 Surface Location

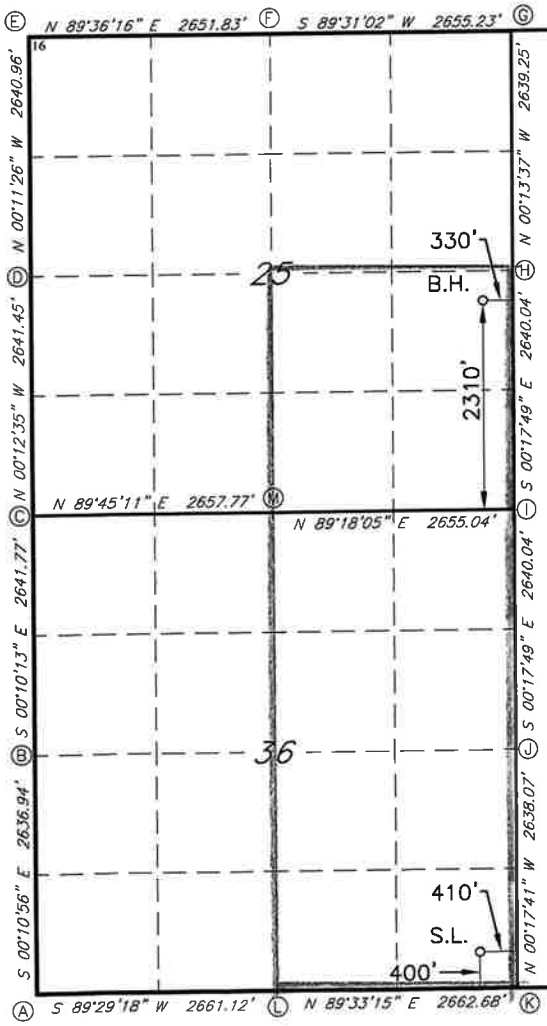
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
P	36	25S	31E		400	SOUTH	410	EAST	EDDY

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
I	25	25S	31E		2321	SOUTH	336	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
480			

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.



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION
N 393606.0 – E 729938.8

LAT: 32.0806392° N
LONG: 103.7243902° W

BOTTOM HOLE
N 400791.6 – E 729981.6

LAT: 32.1003904° N
LONG: 103.7241208° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1916"
N 393164.8 – E 725028.3

B: FOUND BRASS CAP "1939"
N 395801.2 – E 725019.9

C: FOUND BRASS CAP "1939"
N 398442.3 – E 725012.1

D: FOUND BRASS CAP "1939"
N 401083.2 – E 725002.4

E: FOUND BRASS CAP "1939"
N 403723.6 – E 724993.6

F: FOUND BRASS CAP "1939"
N 403741.9 – E 727644.8

G: FOUND 1/2" REBAR
N 403764.2 – E 730299.4

H: FOUND BRASS CAP "1916"
N 401125.6 – E 730309.8

I: CALCULATED CORNER
N 398486.2 – E 730323.5

J: FOUND BRASS CAP "1916"
N 395846.7 – E 730337.2

K: FOUND BRASS CAP "1916"
N 393209.3 – E 730350.7

L: FOUND BRASS CAP "1916"
N 393188.6 – E 727688.7

M: FOUND BRASS CAP "1939"
N 398453.8 – E 727669.2

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.

Jackie Lathan 02/18/2020
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.

5-9-18
Date of Survey

Signature and Seal of Professional Surveyor

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

19680
Certificate Number

RRC – Job No.: LS1804488

Intent [ ] As Drilled [X]

API #		
30-015-46210		
Operator Name: Mewbourne Oil Company	Property Name: Coltrane 36/25 W0PI Federal Com	Well Number #1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	36	25S	31E		9	S	323	E	Eddy
Latitude			Longitude					NAD	
32.0795656			-103.7241194					83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	36	25S	31E		346	S	330	E	Eddy
Latitude			Longitude					NAD	
32.0804558			-103.7241353					83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	25	25S	31E		2300	S	336	E	Eddy
Latitude			Longitude					NAD	
32.1003617			-103.7241331					83	

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

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 #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

COMPANY: Mewbourne Oil Company
WELL: Coltrane 36/25 W0PI Fed Com #1H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG:Patterson 231
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.46°

STRYKER DIRECTIONAL
OFFICE: 936.582.7296

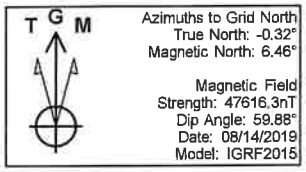
GEODETIC ZONE: New Mexico Eastern Zone
3301+27 @ 3328.0usft
GROUND ELEVATION: 3301.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	393606.00	729938.80	32° 4' 50.301 N	103° 43' 27.804 W	

PLAN SECTIONS

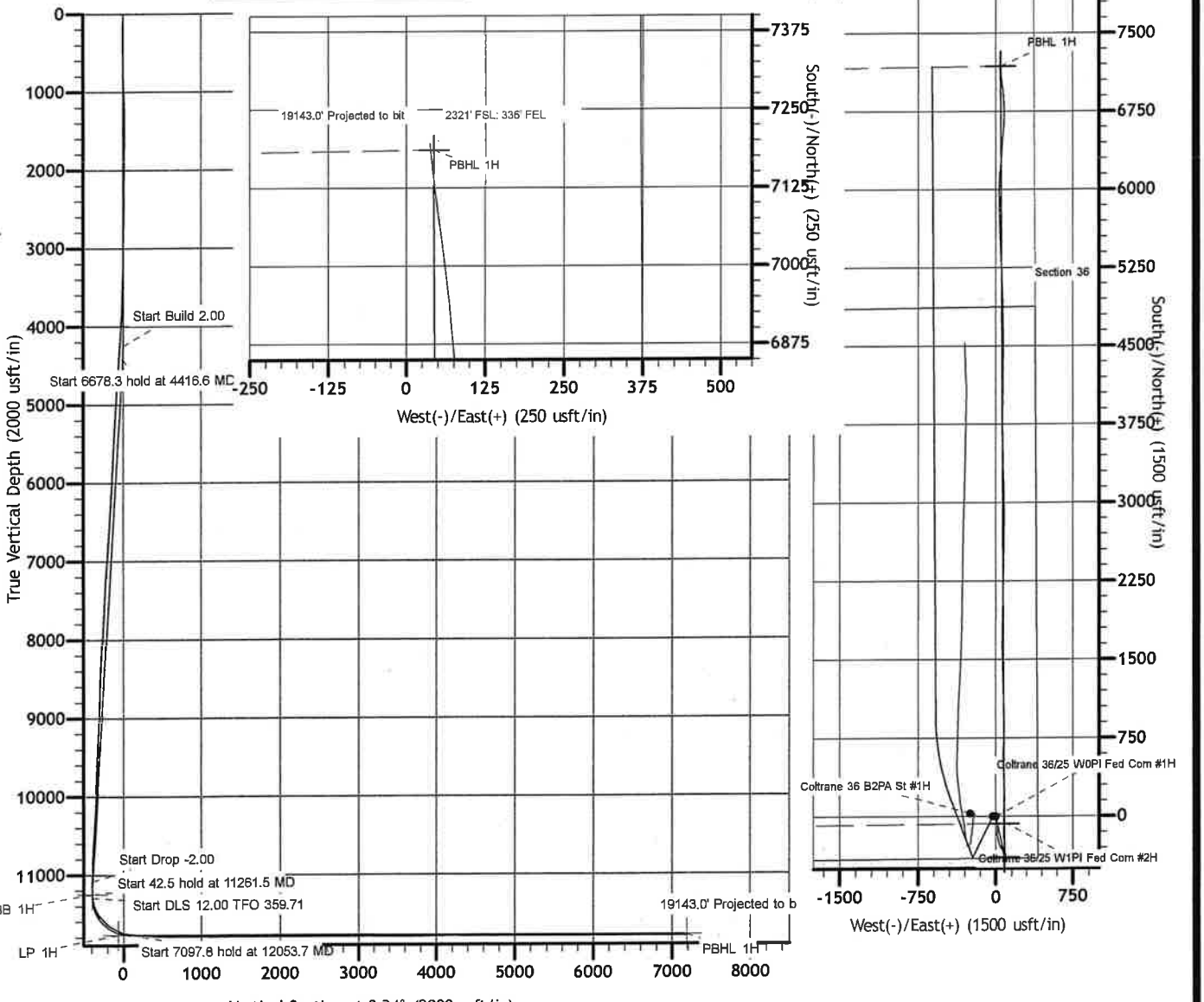
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4250.0	0.00	0.00	4250.0	0.0	0.0	0.00	0.00	0.0	
3	4416.6	3.33	168.13	4416.5	-4.7	1.0	2.00	168.13	-4.7	
4	11094.9	3.33	168.13	11083.5	-384.6	80.8	0.00	0.00	-384.1	
5	11261.5	0.00	0.00	11250.0	-389.3	81.8	2.00	180.00	-388.8	BB 1H
6	11304.0	0.00	0.00	11292.5	-389.3	81.8	0.00	0.00	-388.8	
7	12053.7	89.97	359.71	11770.0	87.9	79.3	12.00	359.71	88.4	
8	19151.5	89.97	359.71	11774.0	7185.6	42.8	0.00	0.00	7185.7	PBHL 1H

SHL: 400' FSL; 410' FEL
Section 36-25S-31E
PBHL: 2310 FSL; 330' FEL
Section 25-25S-31E



Azimuths to Grid North
True North: -0.32°
Magnetic North: 6.46°

Magnetic Field
Strength: 47616.3nT
Dip Angle: 59.88°
Date: 08/14/2019
Model: IGRF2015



Mewbourne Oil Company

Eddy County, N.M. Nad (83)
Section 36 25-25S-31E Coltrane
Coltrane 36/25 W0PI Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

01 October, 2019

Stryker Energy Directional Services

Survey Report

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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 36 25-25S-31E Coltrane				
Site Position:		**Northing:**	393,606.00 usft	**Latitude:**	32° 4' 50.301 N
From:	Map	**Easting:**	729,938.80 usft	**Longitude:**	103° 43' 27.804 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.32 °

Well	Coltrane 36/25 W0PI Fed Com #1H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	393,606.00 usft	**Latitude:**	32° 4' 50.301 N
	+E/-W	0.0 usft	**Easting:**	729,938.80 usft	**Longitude:**	103° 43' 27.804 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	27.0 usft	**Ground Level:**	3,301.0 usft

Wellbore	Original Hole			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	08/14/19	6.78	59.88	47,616.32820214

Design	Original Hole				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	0.29

Survey Program **Date** 10/01/19

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
100.0	1,200.0	Gyro Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
1,303.0	19,143.0	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	0.35	186.90	100.0	-0.3	0.0	-0.3	0.35	0.35	0.00
200.0	0.43	214.31	200.0	-0.9	-0.3	-0.9	0.20	0.08	27.41
300.0	0.29	66.54	300.0	-1.1	-0.3	-1.1	0.69	-0.14	-147.77
400.0	0.53	166.18	400.0	-1.5	0.1	-1.5	0.65	0.24	99.64
500.0	0.42	141.84	500.0	-2.2	0.4	-2.2	0.23	-0.11	-24.34
600.0	0.80	133.08	600.0	-3.0	1.2	-3.0	0.39	0.38	-8.76
700.0	1.57	76.27	700.0	-3.1	3.0	-3.1	1.32	0.77	-56.81
800.0	2.70	39.41	799.9	-1.0	5.8	-1.0	1.72	1.13	-36.86
900.0	2.94	358.31	899.8	3.4	7.2	3.4	1.99	0.24	-41.10

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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	3.88	335.95	999.6	9.1	5.8	9.1	1.61	0.94	-22.36
1,100.0	2.87	51.78	1,099.5	13.7	6.4	13.7	4.22	-1.01	75.83
1,200.0	2.39	78.11	1,199.4	15.7	10.4	15.7	1.29	-0.48	26.33
1,303.0	3.10	85.70	1,302.3	16.3	15.3	16.4	0.77	0.69	7.37
1,492.0	1.60	106.60	1,491.1	16.0	22.9	16.1	0.90	-0.79	11.06
1,586.0	2.10	101.30	1,585.1	15.2	25.8	15.4	0.56	0.53	-5.64
1,778.0	1.90	92.20	1,776.9	14.4	32.5	14.6	0.20	-0.10	-4.74
1,968.0	0.50	228.50	1,966.9	13.8	35.0	13.9	1.20	-0.74	71.74
2,157.0	1.30	250.40	2,155.9	12.5	32.3	12.7	0.45	0.42	11.59
2,347.0	1.50	227.10	2,345.8	10.1	28.5	10.2	0.31	0.11	-12.26
2,536.0	1.80	243.80	2,534.7	7.1	24.0	7.2	0.30	0.16	8.84
2,725.0	1.50	248.30	2,723.7	4.9	19.1	5.0	0.17	-0.16	2.38
2,915.0	1.70	250.40	2,913.6	3.0	14.1	3.1	0.11	0.11	1.11
3,104.0	1.80	247.80	3,102.5	0.9	8.7	1.0	0.07	0.05	-1.38
3,294.0	1.50	228.10	3,292.4	-1.9	4.1	-1.8	0.34	-0.16	-10.37
3,482.0	1.60	189.30	3,480.4	-6.1	1.8	-6.1	0.55	0.05	-20.64
3,671.0	1.70	181.50	3,669.3	-11.5	1.3	-11.5	0.13	0.05	-4.13
3,860.0	2.50	168.50	3,858.2	-18.3	2.1	-18.3	0.49	0.42	-6.88
4,050.0	3.40	160.20	4,047.9	-27.7	4.8	-27.7	0.52	0.47	-4.37
4,199.0	4.20	164.70	4,196.6	-37.1	7.8	-37.1	0.57	0.54	3.02
4,249.0	4.80	170.70	4,246.4	-41.0	8.6	-40.9	1.52	1.20	12.00
4,438.0	4.00	174.00	4,434.9	-55.3	10.5	-55.3	0.44	-0.42	1.75
4,627.0	3.40	181.60	4,623.5	-67.5	11.1	-67.4	0.41	-0.32	4.02
4,816.0	3.80	179.10	4,812.1	-79.3	11.0	-79.3	0.23	0.21	-1.32
5,004.0	3.50	175.90	4,999.7	-91.3	11.5	-91.2	0.19	-0.16	-1.70
5,194.0	3.10	181.50	5,189.4	-102.2	11.8	-102.1	0.27	-0.21	2.95
5,384.0	3.30	178.20	5,379.1	-112.8	11.8	-112.7	0.14	0.11	-1.74
5,574.0	2.90	173.50	5,568.8	-123.1	12.6	-123.0	0.25	-0.21	-2.47
5,763.0	3.10	183.10	5,757.6	-132.9	12.8	-132.8	0.29	0.11	5.08
5,951.0	2.70	184.50	5,945.3	-142.4	12.2	-142.3	0.22	-0.21	0.74
6,139.0	3.10	183.70	6,133.1	-151.9	11.5	-151.8	0.21	0.21	-0.43
6,329.0	2.90	185.90	6,322.8	-161.8	10.7	-161.7	0.12	-0.11	1.16
6,516.0	2.70	187.30	6,509.6	-170.9	9.7	-170.8	0.11	-0.11	0.75
6,705.0	4.40	159.90	6,698.2	-182.1	11.6	-182.0	1.25	0.90	-14.50
6,894.0	4.10	167.90	6,886.7	-195.5	15.5	-195.4	0.35	-0.16	4.23
7,082.0	4.10	165.50	7,074.2	-208.6	18.6	-208.5	0.09	0.00	-1.28
7,272.0	3.40	165.80	7,263.8	-220.6	21.7	-220.5	0.37	-0.37	0.16
7,461.0	2.90	166.30	7,452.6	-230.7	24.2	-230.6	0.26	-0.26	0.26
7,649.0	2.90	166.10	7,640.3	-239.9	26.4	-239.8	0.01	0.00	-0.11
7,838.0	2.90	164.80	7,829.1	-249.2	28.8	-249.0	0.03	0.00	-0.69
8,027.0	2.80	165.80	8,017.8	-258.3	31.2	-258.1	0.06	-0.05	0.53
8,216.0	3.60	148.20	8,206.5	-267.8	35.5	-267.6	0.67	0.42	-9.31
8,406.0	2.90	159.00	8,396.2	-277.4	40.4	-277.1	0.49	-0.37	5.68

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
8,596.0	1.90	159.90	8,586.1	-284.8	43.2	-284.6	0.53	-0.53	0.47
8,785.0	2.60	154.50	8,774.9	-291.6	46.1	-291.4	0.39	0.37	-2.86
8,975.0	2.60	158.50	8,964.7	-299.5	49.5	-299.3	0.10	0.00	2.11
9,164.0	2.10	157.20	9,153.6	-306.7	52.4	-306.4	0.27	-0.26	-0.69
9,353.0	2.80	132.80	9,342.4	-313.0	57.2	-312.7	0.66	0.37	-12.91
9,542.0	2.90	133.30	9,531.2	-319.4	64.0	-319.1	0.05	0.05	0.26
9,730.0	2.60	129.20	9,719.0	-325.4	70.8	-325.0	0.19	-0.16	-2.18
9,920.0	3.40	139.50	9,908.7	-332.4	77.8	-332.0	0.51	0.42	5.42
10,108.0	3.10	153.80	10,096.4	-341.2	83.7	-340.8	0.46	-0.16	7.61
10,297.0	4.30	167.90	10,285.0	-352.7	87.4	-352.3	0.79	0.63	7.46
10,486.0	4.00	170.80	10,473.5	-366.1	89.9	-365.7	0.19	-0.16	1.53
10,675.0	3.50	173.70	10,662.1	-378.4	91.6	-377.9	0.28	-0.26	1.53
10,864.0	1.00	187.70	10,850.9	-385.8	92.0	-385.3	1.34	-1.32	7.41
11,053.0	1.10	233.40	11,039.9	-388.5	90.4	-388.0	0.43	0.05	24.18
11,242.0	0.90	235.20	11,228.9	-390.4	87.7	-390.0	0.11	-0.11	0.95
11,263.2	1.00	283.64	11,250.1	-390.5	87.4	-390.0	3.70	0.47	228.23
BB 1H									
11,289.0	1.70	312.40	11,275.9	-390.1	86.9	-389.7	3.70	2.71	111.57
11,321.0	6.30	343.40	11,307.8	-388.1	86.0	-387.7	15.38	14.38	96.88
11,352.0	11.00	354.90	11,338.4	-383.6	85.3	-383.1	16.08	15.16	37.10
11,384.0	15.10	354.80	11,369.6	-376.4	84.6	-375.9	12.81	12.81	-0.31
11,415.0	19.60	356.30	11,399.2	-367.2	83.9	-366.7	14.59	14.52	4.84
11,447.0	23.10	357.80	11,429.0	-355.5	83.3	-355.1	11.07	10.94	4.69
11,478.0	26.50	359.20	11,457.1	-342.5	83.0	-342.1	11.13	10.97	4.52
11,510.0	30.20	0.00	11,485.3	-327.3	82.9	-326.9	11.62	11.56	2.50
11,542.0	33.30	1.20	11,512.5	-310.5	83.1	-310.1	9.89	9.69	3.75
11,573.0	36.00	1.60	11,538.0	-292.9	83.5	-292.4	8.74	8.71	1.29
11,605.0	39.10	1.20	11,563.3	-273.4	84.0	-273.0	9.72	9.69	-1.25
11,637.0	42.80	0.00	11,587.5	-252.4	84.2	-252.0	11.82	11.56	-3.75
11,668.0	46.20	358.50	11,609.6	-230.7	83.9	-230.3	11.48	10.97	-4.84
11,700.0	49.60	357.70	11,631.1	-207.0	83.1	-206.5	10.79	10.63	-2.50
11,731.0	53.30	357.40	11,650.4	-182.8	82.1	-182.3	11.96	11.94	-0.97
11,763.0	56.50	357.90	11,668.8	-156.6	81.0	-156.2	10.08	10.00	1.56
11,794.0	59.70	358.40	11,685.2	-130.3	80.2	-129.9	10.41	10.32	1.61
11,880.0	66.20	0.10	11,724.3	-53.8	79.2	-53.3	7.76	7.56	1.98
11,883.1	66.47	0.07	11,725.5	-50.9	79.2	-50.5	8.76	8.71	-0.99
LP 1H									
11,911.0	68.90	359.80	11,736.1	-25.1	79.2	-24.7	8.76	8.71	-0.97
11,943.0	73.80	359.60	11,746.3	5.2	79.0	5.6	15.32	15.31	-0.63
11,974.0	78.40	0.30	11,753.8	35.3	79.0	35.7	15.00	14.84	2.26
12,005.0	80.30	2.00	11,759.5	65.7	79.6	66.2	8.16	6.13	5.48
12,037.0	82.90	2.50	11,764.2	97.4	80.8	97.8	8.27	8.13	1.56
12,068.0	84.70	2.60	11,767.5	128.2	82.2	128.6	5.82	5.81	0.32
12,100.0	85.70	1.20	11,770.2	160.0	83.3	160.5	5.36	3.13	-4.38

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
12,132.0	87.10	358.30	11,772.2	192.0	83.1	192.4	10.05	4.38	-9.06
12,163.0	87.80	358.30	11,773.6	222.9	82.2	223.3	2.26	2.26	0.00
12,195.0	86.80	358.00	11,775.1	254.9	81.2	255.3	3.26	-3.13	-0.94
12,257.0	87.10	359.10	11,778.4	316.8	79.6	317.2	1.84	0.48	1.77
12,352.0	87.70	357.00	11,782.7	411.6	76.4	412.0	2.30	0.63	-2.21
12,446.0	87.50	357.20	11,786.6	505.4	71.6	505.8	0.30	-0.21	0.21
12,540.0	90.50	1.50	11,788.3	599.3	70.6	599.7	5.58	3.19	4.57
12,635.0	90.80	1.90	11,787.2	694.3	73.4	694.7	0.53	0.32	0.42
12,730.0	90.90	2.20	11,785.8	789.2	76.8	789.6	0.33	0.11	0.32
12,824.0	89.80	359.30	11,785.2	883.2	78.0	883.6	3.30	-1.17	-3.09
12,932.0	88.60	358.60	11,786.7	991.2	76.0	991.5	1.29	-1.11	-0.65
13,026.0	88.70	358.70	11,788.9	1,085.1	73.8	1,085.5	0.15	0.11	0.11
13,121.0	89.40	358.50	11,790.5	1,180.1	71.5	1,180.4	0.77	0.74	-0.21
13,216.0	89.60	359.30	11,791.3	1,275.1	69.7	1,275.4	0.87	0.21	0.84
13,310.0	90.20	358.40	11,791.5	1,369.0	67.8	1,369.4	1.15	0.64	-0.96
13,405.0	90.30	357.90	11,791.1	1,464.0	64.7	1,464.3	0.54	0.11	-0.53
13,499.0	89.20	358.70	11,791.5	1,557.9	61.9	1,558.2	1.45	-1.17	0.85
13,593.0	90.10	0.80	11,792.1	1,651.9	61.5	1,652.2	2.43	0.96	2.23
13,688.0	90.20	1.30	11,791.8	1,746.9	63.3	1,747.2	0.54	0.11	0.53
13,782.0	90.00	0.50	11,791.7	1,840.9	64.7	1,841.2	0.88	-0.21	-0.85
13,877.0	90.60	0.70	11,791.2	1,935.9	65.7	1,936.2	0.67	0.63	0.21
13,972.0	90.50	0.40	11,790.3	2,030.9	66.6	2,031.2	0.33	-0.11	-0.32
14,066.0	90.50	0.90	11,789.4	2,124.9	67.7	2,125.2	0.53	0.00	0.53
14,161.0	90.70	1.60	11,788.4	2,219.8	69.8	2,220.2	0.77	0.21	0.74
14,255.0	90.50	0.70	11,787.5	2,313.8	71.7	2,314.2	0.98	-0.21	-0.96
14,350.0	90.50	0.60	11,786.6	2,408.8	72.7	2,409.2	0.11	0.00	-0.11
14,444.0	90.20	0.80	11,786.1	2,502.8	73.9	2,503.1	0.38	-0.32	0.21
14,538.0	89.80	0.20	11,786.1	2,596.8	74.7	2,597.1	0.77	-0.43	-0.64
14,633.0	89.30	1.10	11,786.8	2,691.8	75.8	2,692.1	1.08	-0.53	0.95
14,728.0	89.50	0.60	11,787.8	2,786.8	77.2	2,787.1	0.57	0.21	-0.53
14,822.0	89.80	1.40	11,788.4	2,880.8	78.8	2,881.1	0.91	0.32	0.85
14,918.0	89.80	358.60	11,788.7	2,976.7	78.8	2,977.1	2.92	0.00	-2.92
15,012.0	89.80	358.50	11,789.0	3,070.7	76.5	3,071.1	0.11	0.00	-0.11
15,107.0	89.60	358.50	11,789.5	3,165.7	74.0	3,166.0	0.21	-0.21	0.00
15,201.0	89.50	358.70	11,790.3	3,259.6	71.7	3,260.0	0.24	-0.11	0.21
15,295.0	89.50	358.50	11,791.1	3,353.6	69.4	3,353.9	0.21	0.00	-0.21
15,390.0	89.70	358.50	11,791.7	3,448.6	66.9	3,448.9	0.21	0.21	0.00
15,484.0	89.70	359.20	11,792.2	3,542.6	65.0	3,542.8	0.74	0.00	0.74
15,579.0	90.40	359.50	11,792.2	3,637.6	63.9	3,637.8	0.80	0.74	0.32
15,675.0	91.10	0.20	11,790.9	3,733.5	63.7	3,733.8	1.03	0.73	0.73
15,770.0	91.20	0.30	11,789.0	3,828.5	64.1	3,828.8	0.15	0.11	0.11
15,864.0	91.20	0.60	11,787.0	3,922.5	64.8	3,922.8	0.32	0.00	0.32
15,959.0	91.60	1.00	11,784.7	4,017.5	66.2	4,017.7	0.60	0.42	0.42

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
16,053.0	90.10	0.30	11,783.3	4,111.4	67.2	4,111.7	1.76	-1.60	-0.74
16,147.0	90.00	0.90	11,783.2	4,205.4	68.2	4,205.7	0.65	-0.11	0.64
16,241.0	90.20	0.20	11,783.1	4,299.4	69.1	4,299.7	0.77	0.21	-0.74
16,336.0	89.50	0.50	11,783.3	4,394.4	69.7	4,394.7	0.80	-0.74	0.32
16,430.0	89.40	0.00	11,784.2	4,488.4	70.1	4,488.7	0.54	-0.11	-0.53
16,525.0	89.90	0.00	11,784.8	4,583.4	70.1	4,583.7	0.53	0.53	0.00
16,620.0	89.60	0.10	11,785.2	4,678.4	70.2	4,678.7	0.33	-0.32	0.11
16,714.0	91.10	359.40	11,784.6	4,772.4	69.8	4,772.7	1.76	1.60	-0.74
16,808.0	88.30	358.20	11,785.1	4,866.4	67.8	4,866.7	3.24	-2.98	-1.28
16,903.0	89.60	357.30	11,786.9	4,961.3	64.1	4,961.6	1.66	1.37	-0.95
17,000.0	89.40	357.70	11,787.7	5,058.2	59.8	5,058.4	0.46	-0.21	0.41
17,094.0	89.50	357.70	11,788.6	5,152.1	56.1	5,152.3	0.11	0.11	0.00
17,189.0	89.60	357.70	11,789.4	5,247.0	52.3	5,247.2	0.11	0.11	0.00
17,284.0	90.40	358.50	11,789.4	5,342.0	49.1	5,342.2	1.19	0.84	0.84
17,378.0	90.40	358.10	11,788.7	5,435.9	46.3	5,436.1	0.43	0.00	-0.43
17,473.0	90.20	357.80	11,788.2	5,530.9	42.9	5,531.0	0.38	-0.21	-0.32
17,568.0	89.60	357.10	11,788.4	5,625.8	38.7	5,625.9	0.97	-0.63	-0.74
17,662.0	90.00	358.20	11,788.7	5,719.7	34.8	5,719.8	1.25	0.43	1.17
17,757.0	91.60	359.10	11,787.4	5,814.7	32.6	5,814.7	1.93	1.68	0.95
17,846.0	90.40	0.00	11,785.8	5,903.6	31.9	5,903.7	1.69	-1.35	1.01
17,941.0	90.90	0.00	11,784.7	5,998.6	31.9	5,998.7	0.53	0.53	0.00
18,036.0	90.00	3.70	11,784.0	6,093.6	35.0	6,093.7	4.01	-0.95	3.89
18,130.0	89.90	5.10	11,784.1	6,187.3	42.2	6,187.4	1.49	-0.11	1.49
18,225.0	89.30	4.40	11,784.7	6,282.0	50.0	6,282.1	0.97	-0.63	-0.74
18,320.0	90.30	3.50	11,785.1	6,376.7	56.6	6,376.9	1.42	1.05	-0.95
18,415.0	90.00	3.90	11,784.8	6,471.5	62.7	6,471.8	0.53	-0.32	0.42
18,510.0	90.10	5.10	11,784.7	6,566.2	70.2	6,566.5	1.27	0.11	1.26
18,606.0	89.20	3.00	11,785.3	6,662.0	77.0	6,662.3	2.38	-0.94	-2.19
18,700.0	89.10	359.60	11,786.7	6,755.9	79.1	6,756.3	3.62	-0.11	-3.62
18,795.0	89.90	356.50	11,787.6	6,850.9	75.9	6,851.2	3.37	0.84	-3.26
18,890.0	89.90	353.30	11,787.7	6,945.5	67.4	6,945.7	3.37	0.00	-3.37
18,985.0	90.20	352.60	11,787.6	7,039.8	55.8	7,039.9	0.80	0.32	-0.74
19,080.0	89.50	352.50	11,787.9	7,134.0	43.4	7,134.1	0.74	-0.74	-0.11
19,104.0	91.00	354.50	11,787.8	7,157.8	40.7	7,157.9	10.42	6.25	8.33
19,131.7	91.00	354.50	11,787.3	7,185.4	38.1	7,185.5	0.00	0.00	0.00
PBHL 1H									
19,143.0	91.00	354.50	11,787.1	7,196.6	37.0	7,196.7	0.00	0.00	0.00

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	EDM5000

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
19,143.0	11,787.1	7,196.6	37.0	19143.0' Projected to bit

Checked By: _____ Approved By: _____ Date: _____

STRYKER
DIRECTIONAL

January 17, 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
Coltrane 36 25 W0PI Federal Com #001H
Purple Sage; Wolfcamp
Eddy County, New Mexico
API# 30-015-46210

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:

Name & Title	Drainhole No.	Survey Depths	Dates Performed	Type Survey
Glenn Thompson	Original Hole	1,303ft. to 19,131ft.	09-07-19 to 09-28-19	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.

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\Coltrane 36 25 W0PI Fed Com #1H\M191170

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

STRYKER
DIRECTIONAL

January 17, 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 September 7,2019, through September 28,2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,303feet to a depth of 19,131feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Coltrane 36 25 W0PI Federal Com #001H,well API # **30-015-46210** 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.

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

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	EDM5000

Survey Program **Date** 10/01/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	1,200.0	Gyro Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
1,303.0	19,143.0	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	393,606.00	729,938.80
100.0	0.35	186.90	100.0	-0.3	0.0	0.3	186.90	0.35	393,605.70	729,938.76
200.0	0.43	214.31	200.0	-0.9	-0.3	1.0	197.27	0.20	393,605.08	729,938.52
300.0	0.29	66.54	300.0	-1.1	-0.3	1.2	193.21	0.69	393,604.87	729,938.54
400.0	0.53	166.18	400.0	-1.5	0.1	1.5	176.96	0.65	393,604.53	729,938.88
500.0	0.42	141.84	500.0	-2.2	0.4	2.2	169.36	0.23	393,603.79	729,939.22
600.0	0.80	133.08	600.0	-3.0	1.2	3.2	158.85	0.39	393,603.02	729,939.95
700.0	1.57	76.27	700.0	-3.1	3.0	4.3	136.27	1.32	393,602.87	729,941.79
800.0	2.70	39.41	799.9	-1.0	5.8	5.9	99.59	1.72	393,605.02	729,944.62
900.0	2.94	358.31	899.8	3.4	7.2	8.0	64.84	1.99	393,609.40	729,946.04
1,000.0	3.88	335.95	999.6	9.1	5.8	10.7	32.57	1.61	393,615.05	729,944.58
1,100.0	2.87	51.78	1,099.5	13.7	6.4	15.1	24.95	4.22	393,619.69	729,945.17
1,200.0	2.39	78.11	1,199.4	15.7	10.4	18.8	33.51	1.29	393,621.67	729,949.18
1,303.0	3.10	85.70	1,302.3	16.3	15.3	22.3	43.07	0.77	393,622.32	729,954.06
1,492.0	1.60	106.60	1,491.1	16.0	22.9	27.9	55.12	0.90	393,621.95	729,961.68
1,586.0	2.10	101.30	1,585.1	15.2	25.8	30.0	59.46	0.56	393,621.24	729,964.63
1,778.0	1.90	92.20	1,776.9	14.4	32.5	35.5	66.03	0.20	393,620.43	729,971.26
1,968.0	0.50	228.50	1,966.9	13.8	35.0	37.6	68.53	1.20	393,619.76	729,973.79
2,157.0	1.30	250.40	2,155.9	12.5	32.3	34.7	68.88	0.45	393,618.49	729,971.15
2,347.0	1.50	227.10	2,345.8	10.1	28.5	30.2	70.52	0.31	393,616.08	729,967.30
2,536.0	1.80	243.80	2,534.7	7.1	24.0	25.0	73.57	0.30	393,613.08	729,962.82

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
2,725.0	1.50	248.30	2,723.7	4.9	19.1	19.7	75.70	0.17	393,610.86	729,957.86
2,915.0	1.70	250.40	2,913.6	3.0	14.1	14.4	78.01	0.11	393,608.99	729,952.89
3,104.0	1.80	247.80	3,102.5	0.9	8.7	8.8	83.89	0.07	393,606.93	729,947.51
3,294.0	1.50	228.10	3,292.4	-1.9	4.1	4.5	114.41	0.34	393,604.14	729,942.89
3,482.0	1.60	189.30	3,480.4	-6.1	1.8	6.4	163.22	0.55	393,599.91	729,940.64
3,671.0	1.70	181.50	3,669.3	-11.5	1.3	11.6	173.37	0.13	393,594.50	729,940.14
3,860.0	2.50	168.50	3,858.2	-18.3	2.1	18.5	173.51	0.49	393,587.66	729,940.88
4,050.0	3.40	160.20	4,047.9	-27.7	4.8	28.1	170.13	0.52	393,578.30	729,943.62
4,199.0	4.20	164.70	4,196.6	-37.1	7.8	37.9	168.20	0.57	393,568.88	729,946.56
4,249.0	4.80	170.70	4,246.4	-41.0	8.6	41.8	168.17	1.52	393,565.05	729,947.38
4,438.0	4.00	174.00	4,434.9	-55.3	10.5	56.3	169.21	0.44	393,550.69	729,949.34
4,627.0	3.40	181.60	4,623.5	-67.5	11.1	68.4	170.68	0.41	393,538.53	729,949.88
4,816.0	3.80	179.10	4,812.1	-79.3	11.0	80.1	172.09	0.23	393,526.67	729,949.82
5,004.0	3.50	175.90	4,999.7	-91.3	11.5	92.0	172.80	0.19	393,514.71	729,950.33
5,194.0	3.10	181.50	5,189.4	-102.2	11.8	102.9	173.41	0.27	393,503.79	729,950.61
5,384.0	3.30	178.20	5,379.1	-112.8	11.8	113.4	174.01	0.14	393,493.19	729,950.64
5,574.0	2.90	173.50	5,568.8	-123.1	12.6	123.7	174.17	0.25	393,482.95	729,951.36
5,763.0	3.10	183.10	5,757.6	-132.9	12.8	133.5	174.49	0.29	393,473.10	729,951.62
5,951.0	2.70	184.50	5,945.3	-142.4	12.2	142.9	175.10	0.22	393,463.61	729,951.00
6,139.0	3.10	183.70	6,133.1	-151.9	11.5	152.3	175.66	0.21	393,454.12	729,950.33
6,329.0	2.90	185.90	6,322.8	-161.8	10.7	162.1	176.22	0.12	393,444.21	729,949.50
6,516.0	2.70	187.30	6,509.6	-170.9	9.7	171.1	176.77	0.11	393,435.14	729,948.46
6,705.0	4.40	159.90	6,698.2	-182.1	11.6	182.5	176.36	1.25	393,423.91	729,950.38
6,894.0	4.10	167.90	6,886.7	-195.5	15.5	196.1	175.47	0.35	393,410.50	729,954.29
7,082.0	4.10	165.50	7,074.2	-208.6	18.6	209.4	174.91	0.09	393,397.42	729,957.38
7,272.0	3.40	165.80	7,263.8	-220.6	21.7	221.7	174.39	0.37	393,385.38	729,960.46
7,461.0	2.90	166.30	7,452.6	-230.7	24.2	232.0	174.02	0.26	393,375.30	729,962.97

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
7,649.0	2.90	166.10	7,640.3	-239.9	26.4	241.4	173.71	0.01	393,366.07	729,965.24
7,838.0	2.90	164.80	7,829.1	-249.2	28.8	250.9	173.40	0.03	393,356.81	729,967.64
8,027.0	2.80	165.80	8,017.8	-258.3	31.2	260.2	173.11	0.06	393,347.72	729,970.03
8,216.0	3.60	148.20	8,206.5	-267.8	35.5	270.1	172.45	0.67	393,338.20	729,974.29
8,406.0	2.90	159.00	8,396.2	-277.4	40.4	280.3	171.72	0.49	393,328.65	729,979.15
8,596.0	1.90	159.90	8,586.1	-284.8	43.2	288.1	171.38	0.53	393,321.20	729,981.96
8,785.0	2.60	154.50	8,774.9	-291.6	46.1	295.2	171.02	0.39	393,314.39	729,984.88
8,975.0	2.60	158.50	8,964.7	-299.5	49.5	303.6	170.61	0.10	393,306.49	729,988.32
9,164.0	2.10	157.20	9,153.6	-306.7	52.4	311.1	170.30	0.27	393,299.31	729,991.23
9,353.0	2.80	132.80	9,342.4	-313.0	57.2	318.2	169.65	0.66	393,292.98	729,995.96
9,542.0	2.90	133.30	9,531.2	-319.4	64.0	325.8	168.67	0.05	393,286.56	730,002.82
9,730.0	2.60	129.20	9,719.0	-325.4	70.8	333.0	167.73	0.19	393,280.61	730,009.59
9,920.0	3.40	139.50	9,908.7	-332.4	77.8	341.4	166.83	0.51	393,273.60	730,016.59
10,108.0	3.10	153.80	10,096.4	-341.2	83.7	351.3	166.22	0.46	393,264.80	730,022.45
10,297.0	4.30	167.90	10,285.0	-352.7	87.4	363.4	166.08	0.79	393,253.29	730,026.20
10,486.0	4.00	170.80	10,473.5	-366.1	89.9	377.0	166.20	0.19	393,239.85	730,028.73
10,675.0	3.50	173.70	10,662.1	-378.4	91.6	389.3	166.39	0.28	393,227.61	730,030.42
10,864.0	1.00	187.70	10,850.9	-385.8	92.0	396.6	166.58	1.34	393,220.24	730,030.83
11,053.0	1.10	233.40	11,039.9	-388.5	90.4	398.8	166.91	0.43	393,217.52	730,029.16
11,242.0	0.90	235.20	11,228.9	-390.4	87.7	400.1	167.34	0.11	393,215.59	730,026.48
11,263.2	1.00	283.64	11,250.1	-390.5	87.4	400.1	167.39	3.70	393,215.54	730,026.16
BB 1H										
11,289.0	1.70	312.40	11,275.9	-390.1	86.9	399.7	167.45	3.70	393,215.85	730,025.66
11,321.0	6.30	343.40	11,307.8	-388.1	86.0	397.6	167.51	15.38	393,217.86	730,024.81
11,352.0	11.00	354.90	11,338.4	-383.6	85.3	392.9	167.47	16.08	393,222.44	730,024.06
11,384.0	15.10	354.80	11,369.6	-376.4	84.6	385.8	167.33	12.81	393,229.63	730,023.41
11,415.0	19.60	356.30	11,399.2	-367.2	83.9	376.6	167.13	14.59	393,238.85	730,022.71

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
11,447.0	23.10	357.80	11,429.0	-355.5	83.3	365.2	166.81	11.07	393,250.48	730,022.12
11,478.0	26.50	359.20	11,457.1	-342.5	83.0	352.4	166.38	11.13	393,263.47	730,021.79
11,510.0	30.20	0.00	11,485.3	-327.3	82.9	337.7	165.79	11.62	393,278.67	730,021.69
11,542.0	33.30	1.20	11,512.5	-310.5	83.1	321.4	165.02	9.89	393,295.50	730,021.88
11,573.0	36.00	1.60	11,538.0	-292.9	83.5	304.6	164.09	8.74	393,313.12	730,022.31
11,605.0	39.10	1.20	11,563.3	-273.4	84.0	286.0	162.92	9.72	393,332.61	730,022.78
11,637.0	42.80	0.00	11,587.5	-252.4	84.2	266.1	161.55	11.82	393,353.58	730,022.99
11,668.0	46.20	358.50	11,609.6	-230.7	83.9	245.5	160.01	11.48	393,375.30	730,022.70
11,700.0	49.60	357.70	11,631.1	-207.0	83.1	223.0	158.12	10.79	393,399.03	730,021.91
11,731.0	53.30	357.40	11,650.4	-182.8	82.1	200.3	155.82	11.96	393,423.25	730,020.87
11,763.0	56.50	357.90	11,668.8	-156.6	81.0	176.3	152.65	10.08	393,449.40	730,019.80
11,794.0	59.70	358.40	11,685.2	-130.3	80.2	153.0	148.40	10.41	393,475.70	730,018.95
11,880.0	66.20	0.10	11,724.3	-53.8	79.2	95.7	124.17	7.76	393,552.24	730,017.98
11,883.1	66.47	0.07	11,725.5	-50.9	79.2	94.1	122.74	8.76	393,555.09	730,017.99
LP 1H										
11,911.0	68.90	359.80	11,736.1	-25.1	79.2	83.0	107.60	8.76	393,580.89	730,017.96
11,943.0	73.80	359.60	11,746.3	5.2	79.0	79.2	86.23	15.32	393,611.20	730,017.80
11,974.0	78.40	0.30	11,753.8	35.3	79.0	86.5	65.92	15.00	393,641.29	730,017.77
12,005.0	80.30	2.00	11,759.5	65.7	79.6	103.2	50.44	8.16	393,671.74	730,018.39
12,037.0	82.90	2.50	11,764.2	97.4	80.8	126.6	39.70	8.27	393,703.37	730,019.63
12,068.0	84.70	2.60	11,767.5	128.2	82.2	152.3	32.68	5.82	393,734.16	730,021.00
12,100.0	85.70	1.20	11,770.2	160.0	83.3	180.4	27.49	5.36	393,766.03	730,022.06
12,132.0	87.10	358.30	11,772.2	192.0	83.1	209.2	23.41	10.05	393,797.96	730,021.92
12,163.0	87.80	358.30	11,773.6	222.9	82.2	237.6	20.24	2.26	393,828.92	730,021.00
12,195.0	86.80	358.00	11,775.1	254.9	81.2	267.5	17.67	3.26	393,860.86	730,019.97
12,257.0	87.10	359.10	11,778.4	316.8	79.6	326.6	14.11	1.84	393,922.76	730,018.40
12,352.0	87.70	357.00	11,782.7	411.6	76.4	418.6	10.51	2.30	394,017.60	730,015.17

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
12,446.0	87.50	357.20	11,786.6	505.4	71.6	510.4	8.07	0.30	394,111.39	730,010.42
12,540.0	90.50	1.50	11,788.3	599.3	70.6	603.5	6.71	5.58	394,205.34	730,009.36
12,635.0	90.80	1.90	11,787.2	694.3	73.4	698.2	6.03	0.53	394,300.29	730,012.17
12,730.0	90.90	2.20	11,785.8	789.2	76.8	792.9	5.56	0.33	394,395.22	730,015.57
12,824.0	89.80	359.30	11,785.2	883.2	78.0	886.6	5.05	3.30	394,489.20	730,016.80
12,932.0	88.60	358.60	11,786.7	991.2	76.0	994.1	4.39	1.29	394,597.17	730,014.82
13,026.0	88.70	358.70	11,788.9	1,085.1	73.8	1,087.6	3.89	0.15	394,691.12	730,012.61
13,121.0	89.40	358.50	11,790.5	1,180.1	71.5	1,182.2	3.47	0.77	394,786.07	730,010.29
13,216.0	89.60	359.30	11,791.3	1,275.1	69.7	1,277.0	3.13	0.87	394,881.05	730,008.47
13,310.0	90.20	358.40	11,791.5	1,369.0	67.8	1,370.7	2.83	1.15	394,975.03	730,006.58
13,405.0	90.30	357.90	11,791.1	1,464.0	64.7	1,465.4	2.53	0.54	395,069.98	730,003.51
13,499.0	89.20	358.70	11,791.5	1,557.9	61.9	1,559.2	2.28	1.45	395,163.94	730,000.72
13,593.0	90.10	0.80	11,792.1	1,651.9	61.5	1,653.1	2.13	2.43	395,257.93	730,000.31
13,688.0	90.20	1.30	11,791.8	1,746.9	63.3	1,748.1	2.07	0.54	395,352.91	730,002.05
13,782.0	90.00	0.50	11,791.7	1,840.9	64.7	1,842.0	2.01	0.88	395,446.90	730,003.53
13,877.0	90.60	0.70	11,791.2	1,935.9	65.7	1,937.0	1.94	0.67	395,541.89	730,004.53
13,972.0	90.50	0.40	11,790.3	2,030.9	66.6	2,032.0	1.88	0.33	395,636.88	730,005.44
14,066.0	90.50	0.90	11,789.4	2,124.9	67.7	2,126.0	1.82	0.53	395,730.87	730,006.50
14,161.0	90.70	1.60	11,788.4	2,219.8	69.8	2,220.9	1.80	0.77	395,825.84	730,008.58
14,255.0	90.50	0.70	11,787.5	2,313.8	71.7	2,314.9	1.77	0.98	395,919.82	730,010.46
14,350.0	90.50	0.60	11,786.6	2,408.8	72.7	2,409.9	1.73	0.11	396,014.81	730,011.54
14,444.0	90.20	0.80	11,786.1	2,502.8	73.9	2,503.9	1.69	0.38	396,108.80	730,012.69
14,538.0	89.80	0.20	11,786.1	2,596.8	74.7	2,597.9	1.65	0.77	396,202.80	730,013.51
14,633.0	89.30	1.10	11,786.8	2,691.8	75.8	2,692.9	1.61	1.08	396,297.79	730,014.59
14,728.0	89.50	0.60	11,787.8	2,786.8	77.2	2,787.8	1.59	0.57	396,392.77	730,016.00
14,822.0	89.80	1.40	11,788.4	2,880.8	78.8	2,881.8	1.57	0.91	396,486.75	730,017.64
14,918.0	89.80	358.60	11,788.7	2,976.7	78.8	2,977.8	1.52	2.92	396,582.74	730,017.64

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
15,012.0	89.80	358.50	11,789.0	3,070.7	76.5	3,071.7	1.43	0.11	396,676.71	730,015.26
15,107.0	89.60	358.50	11,789.5	3,165.7	74.0	3,166.5	1.34	0.21	396,771.68	730,012.77
15,201.0	89.50	358.70	11,790.3	3,259.6	71.7	3,260.4	1.26	0.24	396,865.65	730,010.47
15,295.0	89.50	358.50	11,791.1	3,353.6	69.4	3,354.3	1.19	0.21	396,959.62	730,008.18
15,390.0	89.70	358.50	11,791.7	3,448.6	66.9	3,449.2	1.11	0.21	397,054.58	730,005.69
15,484.0	89.70	359.20	11,792.2	3,542.6	65.0	3,543.2	1.05	0.74	397,148.56	730,003.80
15,579.0	90.40	359.50	11,792.2	3,637.6	63.9	3,638.1	1.01	0.80	397,243.55	730,002.73
15,675.0	91.10	0.20	11,790.9	3,733.5	63.7	3,734.1	0.98	1.03	397,339.54	730,002.48
15,770.0	91.20	0.30	11,789.0	3,828.5	64.1	3,829.1	0.96	0.15	397,434.52	730,002.89
15,864.0	91.20	0.60	11,787.0	3,922.5	64.8	3,923.0	0.95	0.32	397,528.50	730,003.63
15,959.0	91.60	1.00	11,784.7	4,017.5	66.2	4,018.0	0.94	0.60	397,623.46	730,004.95
16,053.0	90.10	0.30	11,783.3	4,111.4	67.2	4,112.0	0.94	1.76	397,717.44	730,006.02
16,147.0	90.00	0.90	11,783.2	4,205.4	68.2	4,206.0	0.93	0.65	397,811.44	730,007.00
16,241.0	90.20	0.20	11,783.1	4,299.4	69.1	4,300.0	0.92	0.77	397,905.43	730,007.91
16,336.0	89.50	0.50	11,783.3	4,394.4	69.7	4,395.0	0.91	0.80	398,000.43	730,008.49
16,430.0	89.40	0.00	11,784.2	4,488.4	70.1	4,489.0	0.89	0.54	398,094.42	730,008.90
16,525.0	89.90	0.00	11,784.8	4,583.4	70.1	4,584.0	0.88	0.53	398,189.42	730,008.90
16,620.0	89.60	0.10	11,785.2	4,678.4	70.2	4,678.9	0.86	0.33	398,284.42	730,008.98
16,714.0	91.10	359.40	11,784.6	4,772.4	69.8	4,772.9	0.84	1.76	398,378.41	730,008.57
16,808.0	88.30	358.20	11,785.1	4,866.4	67.8	4,866.9	0.80	3.24	398,472.38	730,006.60
16,903.0	89.60	357.30	11,786.9	4,961.3	64.1	4,961.7	0.74	1.66	398,567.29	730,002.87
17,000.0	89.40	357.70	11,787.7	5,058.2	59.8	5,058.5	0.68	0.46	398,664.19	729,998.64
17,094.0	89.50	357.70	11,788.6	5,152.1	56.1	5,152.4	0.62	0.11	398,758.11	729,994.87
17,189.0	89.60	357.70	11,789.4	5,247.0	52.3	5,247.3	0.57	0.11	398,853.03	729,991.06
17,284.0	90.40	358.50	11,789.4	5,342.0	49.1	5,342.2	0.53	1.19	398,947.98	729,987.91
17,378.0	90.40	358.10	11,788.7	5,435.9	46.3	5,436.1	0.49	0.43	399,041.94	729,985.12
17,473.0	90.20	357.80	11,788.2	5,530.9	42.9	5,531.0	0.44	0.38	399,136.87	729,981.72

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Coltrane 36/25 W0PI Fed Com #1H
Project:	Eddy County, N.M. Nad (83)	**TVD Reference:**	3301+27 @ 3328.0usft
Site:	Section 36 25-25S-31E Coltrane	**MD Reference:**	3301+27 @ 3328.0usft
Well:	Coltrane 36/25 W0PI Fed Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
17,568.0	89.60	357.10	11,788.4	5,625.8	38.7	5,625.9	0.39	0.97	399,231.78	729,977.49
17,662.0	90.00	358.20	11,788.7	5,719.7	34.8	5,719.8	0.35	1.25	399,325.70	729,973.64
17,757.0	91.60	359.10	11,787.4	5,814.7	32.6	5,814.7	0.32	1.93	399,420.66	729,971.40
17,846.0	90.40	0.00	11,785.8	5,903.6	31.9	5,903.7	0.31	1.69	399,509.64	729,970.70
17,941.0	90.90	0.00	11,784.7	5,998.6	31.9	5,998.7	0.30	0.53	399,604.63	729,970.70
18,036.0	90.00	3.70	11,784.0	6,093.6	35.0	6,093.7	0.33	4.01	399,699.56	729,973.77
18,130.0	89.90	5.10	11,784.1	6,187.3	42.2	6,187.4	0.39	1.49	399,793.28	729,980.98
18,225.0	89.30	4.40	11,784.7	6,282.0	50.0	6,282.2	0.46	0.97	399,887.95	729,988.85
18,320.0	90.30	3.50	11,785.1	6,376.7	56.6	6,377.0	0.51	1.42	399,982.72	729,995.39
18,415.0	90.00	3.90	11,784.8	6,471.5	62.7	6,471.8	0.56	0.53	400,077.53	730,001.52
18,510.0	90.10	5.10	11,784.7	6,566.2	70.2	6,566.6	0.61	1.27	400,172.23	730,008.98
18,606.0	89.20	3.00	11,785.3	6,662.0	77.0	6,662.4	0.66	2.38	400,267.98	730,015.75
18,700.0	89.10	359.60	11,786.7	6,755.9	79.1	6,756.4	0.67	3.62	400,361.93	730,017.89
18,795.0	89.90	356.50	11,787.6	6,850.9	75.9	6,851.3	0.63	3.37	400,456.86	730,014.65
18,890.0	89.90	353.30	11,787.7	6,945.5	67.4	6,945.8	0.56	3.37	400,551.48	730,006.21
18,985.0	90.20	352.60	11,787.6	7,039.8	55.8	7,040.0	0.45	0.80	400,645.76	729,994.55
19,080.0	89.50	352.50	11,787.9	7,134.0	43.4	7,134.1	0.35	0.74	400,739.95	729,982.23
19,104.0	91.00	354.50	11,787.8	7,157.8	40.7	7,157.9	0.33	10.42	400,763.80	729,979.52
19,131.7	91.00	354.50	11,787.3	7,185.4	38.1	7,185.5	0.30	0.00	400,791.38	729,976.86
PBHL 1H										
19,143.0	91.00	354.50	11,787.1	7,196.6	37.0	7,196.7	0.29	0.00	400,802.61	729,975.78

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
19,143.0	11,787.1	7,196.6	37.0	19143.0' Projected to bit

COMPANY: Mewbourne Oil Company
WELL: Coltrane 36/25 W0PI Fed Com #1H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG:Patterson 231
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.46°

STRYKER DIRECTIONAL
OFFICE: 936.582.7296

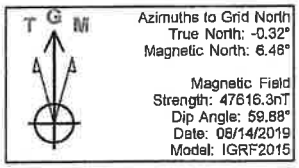
GEODETIC ZONE: New Mexico Eastern Zone
3301+27 @ 3328.0usft
GROUND ELEVATION: 3301.0

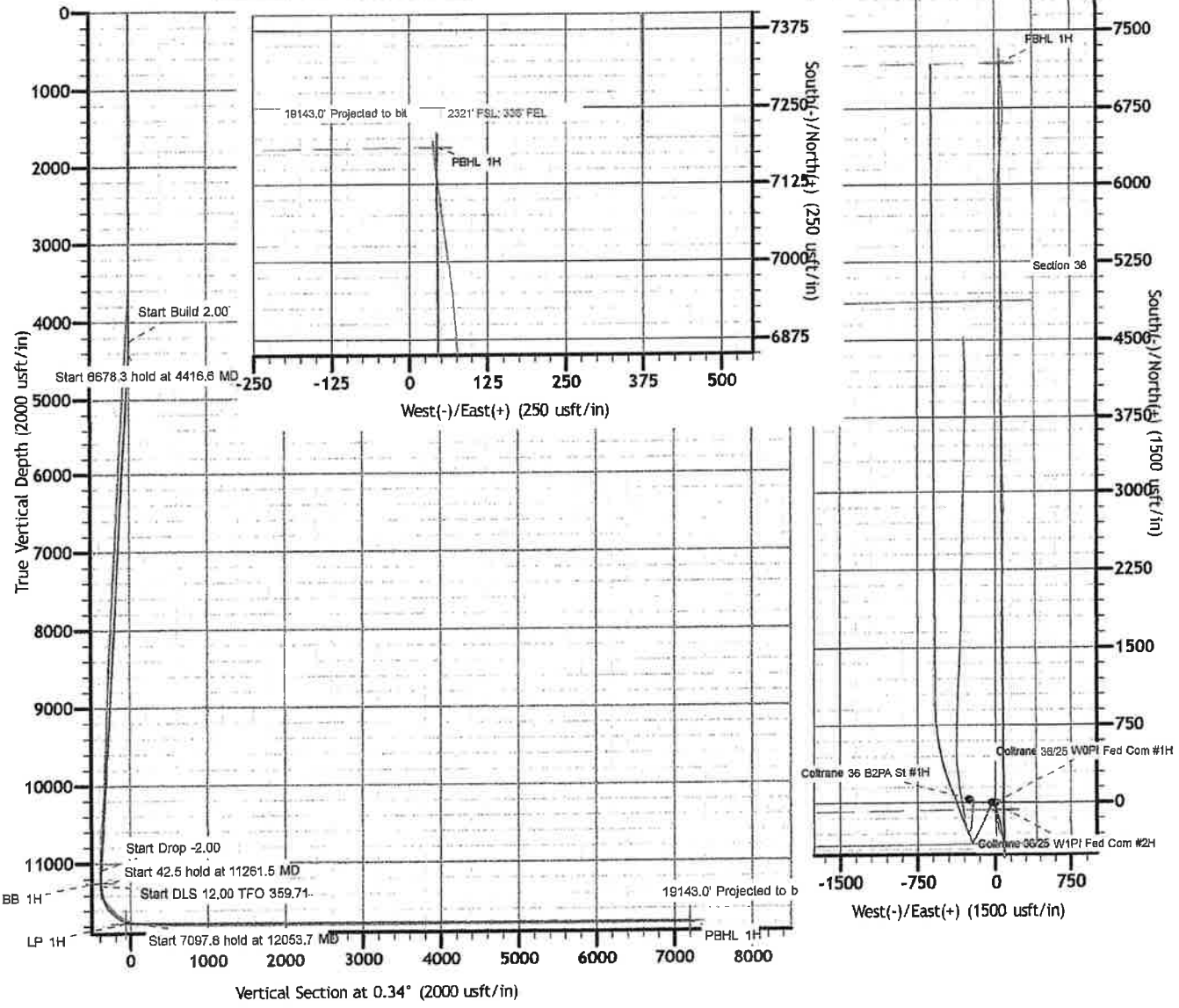
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	393606.00	729938.80	32° 4' 50.301 N	103° 43' 27.804 W	

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	4250.0	0.00	0.00	4250.0	0.0	0.0	0.00	0.00	0.0	
3	4416.6	3.33	168.13	4416.5	-4.7	1.0	2.00	168.13	-4.7	
4	11094.9	3.33	168.13	11083.5	-384.6	80.8	0.00	0.00	-384.1	
5	11261.5	0.00	0.00	11250.0	-389.3	81.8	2.00	180.00	-388.8	BB 1H
6	11304.0	0.00	0.00	11292.5	-389.3	81.8	0.00	0.00	-388.8	
7	12053.7	89.97	359.71	11770.0	87.9	79.3	12.00	359.71	86.4	
8	19151.5	89.97	359.71	11774.0	7185.6	42.8	0.00	0.00	7185.7	PBHL 1H

SHL: 400' FSL; 410' FEL
Section 36-25S-31E
PBHL: 2310 FSL; 330' FEL
Section 25-25S-31E





OCD – Artesia – REC'D 4/17/2020

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM19619

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator MEWBOURNE OIL COMPANY Contact: JACKIE LATHAN E-Mail: jlathan@mewbourne.com

8. Lease Name and Well No. COLTRANE 36/25 W0PI FED COM 1H

3. Address PO BOX 5270 HOBBS, NM 88241

3a. Phone No. (include area code) Ph: 575-393-5905

9. API Well No. 30-015-46210

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface Sec 36 T25S R31E Mer SESE 400FSL 410FEL
At top prod interval reported below Sec 36 T25S R31E Mer NMP SESE 346FSL 330FEL
At total depth Sec 25 T25S R31E Mer NMP NESE 2321FSL 336FEL

10. Field and Pool, or Exploratory PURPLE SAGE; WOLFCAMP

11. Sec., T., R., M., or Block and Survey or Area Sec 36 T25S R31E Mer

12. County or Parish EDDY

13. State NM

14. Date Spudded 09/02/2019

15. Date T.D. Reached 09/28/2019

16. Date Completed ☐ D & A ☒ Ready to Prod. 01/24/2020

17. Elevations (DF, KB, RT, GL)* 3301 GL

18. Total Depth: MD 19143 TVD 11788

19. Plug Back T.D.: MD 19122 TVD 11788

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
EXEMPT FROM LOGGING

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	20.000 K55	94.0	0	204		575	137	0	
17.500	13.375 J55	54.5	0	1260		975	137	0	
12.250	9.625 HCL80	40.0	0	4244		1175	379	0	
8.750	7.000 HCP110	29.0	0	11843		825	351	0	
6.125	4.500 HCP110	13.5	11258	19142		475	211	0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	WOLFCAMP	11652	19143	11866 TO 19122	0.390	1620	OPEN
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
11866 TO 19122	17,578,840 GALS SLICKWATER CARRYING 17,549,710# LOCAL 100 MESH SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/24/2020	01/28/2020	24	→	809.0	3342.0	3656.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
25/64		3750.0	→	809	3342	3656	4131	PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

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

ELECTRONIC SUBMISSION #504402 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
WOLFCAMP	11652	19143	OIL & GAS	RUSTLER	1060
				T/SALT	1449
				CASTILE	2204
				B/SALT	4123
				DELAWARE	4335
				BRUSHY CANYON	7151
				BONE SPRING	8377
				WOLFCAMP	11652

32. Additional remarks (include plugging procedure):
Exempt from logging.

33. Circle enclosed attachments:

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

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

Electronic Submission #504402 Verified by the BLM Well Information System.
For MEWBOURNE OIL COMPANY, sent to the Carlsbad

Name *(please print)* JACKIE LATHAN Title REGULATORY

Signature (Electronic Submission) Date 02/25/2020

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

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****