## State of New Mexico Energy, Minerals and Natural Resources Department

Michelle Lujan **Grisham** Governor

Sarah Cottrell Propst **Cabinet Secretary** 

Todd E. Leahy, JD, PhD **Deputy Secretary** 

Adrienne Sandoval, Division Director Oil Conservation Division



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 string	S
☐ Spud Notice	
☐ Surface Casing	
☐ Intermediate Casing (if applicable)	L.L.) No cundry notice proving highlighted on
Additional Intermediate Casing (if appli	attachments.
<ul> <li>Production Casing or Liner</li> </ul>	
☐ 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.

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.

All Logs Run on Well

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

State of New Mexico
Liergy, Minerals & Natural Resources

EMNRD-OCD ARTESIA REC'D: 4/17/2020 Form C-104 Revised August 1, 2011

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

П	<b>AMENDED</b>	DEDODT
1 !	AMENDED	REPURI

Submit one copy to appropriate District Office

220 S. St. Franci					Santa Fe, NN	M 87505 <b>AND AUTH</b> (	ነወ፤ፖልፕ	ION T	O TD A N	SPORT				
<sup>1</sup> Operator na	I.		EST FO	K ALL	UWADLE	AND AUTH		D Numbe		DI OKI				
Mewbourne							John		1474	4				
PO Box 5270										fective Date				
Hobbs, NM	88241						NW / 0	1/24/2020						
<sup>4</sup> API Numbe 30 - 015 - 4		1	l Name le Sage; V	olfcamp	(Gas)		<sup>6</sup> Pool Code 98220							
<sup>7</sup> Property Co	ode		perty Nan						9 Well Nu	mber				
326024	. v		rane 36/25	1H										
II. 10 Su			I D	T -4 T 3	E. et Com the	North/South Lin	Feet fro	m the I	East/West li	ne County				
Ul or lot no. P	Section 36	Township 25S	Range 31E	Lot Idn	Feet from the 400	South	41		East West II	Eddy				
					400	Boutif	1 71	0	Last	Ludy				
UL or lot no.		ole Locati		Lot Idn	Feet from the	North/South lin	e Feet fro	m tho I	East/West li	ne County				
UL or lot no.	Section 25	Township 25S	Range 31E	Lot Ian	2321	South	33		West	Eddy				
12 Lse Code	<sup>13</sup> Prod	ucing Method Code		nection Date 1/2020	<sup>15</sup> C-129 Perr	nit Number	<sup>6</sup> C-129 Ef	fective Da	te 17	C-129 Expiration Date				
F	]	Flowing												
III. Oil a	and Ga	s Transpo	rters											
18 Transpor					19 Transpor					<sup>20</sup> O/G/W				
OGRID					and Ad									
35246					Shell Tradi PO Bo					0				
8-15 IQ-191	F4-34				LO RO	<b>. 7007</b>								
					Houston, 7	TX 77210								
285689					G									
			The Woodlands, Texas 77380											
	- 1													
STATE OF STA	T CX									NA STATE OF				
IV. Wel	l Com	oletion Da	ta We	e are ask	ing for an ex	emption from	tubing at	this tim	<b>1e.</b>					
<sup>21</sup> Spud D	ate	pletion Da	y Date		<sup>23</sup> TD	emption from	25	Perforatio	ns	<sup>26</sup> DHC, MC				
<sup>21</sup> Spud D 09/02/201	ate 19		y Date 2020	1	<sup>23</sup> TD 9143' MD	<sup>24</sup> PBTD 19122'	<sup>25</sup> 1		ons 22'	NA				
<sup>21</sup> Spud Do 09/02/201 <sup>27</sup> H	ate 19 ole Size	<sup>22</sup> Read	y Date 2020 <sup>28</sup> Casir	1 ng & Tubi	23 TD 9143' MD ing Size	<sup>24</sup> PBTD 19122' <sup>29</sup> Deptl	<sup>25</sup> ] 118 1 Set	Perforatio	ons 22'	NA Sacks Cement				
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V. Well  V. Well  31 Date Nev 01/24/20:  37 Choke S 25/64"  42 I hereby cerbeen complier complete to the Signature: Printed name: Jackie Lathan Title: Regulatory E-mail Addregilathan@mew. Date:	ate 19  lole Size 26" 7 ½" 2 ½"  8 ¾"  Test D v Oil 20  Size  rtify that d with ar ne best or	22 Read 01/24/ 23 Gas Deli 01/24 38 Gas Deli 01/	y Date 2020  28 Casin 20 13 3 9 5% 7' 4 ½"  very Date 2020  Dil 199  the Oil Conformation g tige and bel	19 & Tubi 19 94# K5 16" 54.5# 140# HC 13.5# HC 13.5# HC 13.5# HC 140# HC	23 TD 9143' MD sing Size 55 J55 L80 CP110 Test Date 1/28/2020 39 Water 3656 Division have	24 PBTD 19122' 29 Deptl 204 1260 4244  1184  11258' -  34 Test Le 24 hrs  40 Gas 3342  Approved by: Title:	25 118 1 Set  1 118 1 Set  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Perforation 366' - 1912  35 Tbg  ONSERVA	30 30 30 30 30 30 31 31 ATION DIV	NA  Sacks Cement  575 975  1175  825  475  36 Csg. Pressure 3750  41 Test Method Flowing				

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

**EMNRD-OCD ARTESIA** 

REC'D: 4/17/2020

Form C-102 Revised August 1, 2011 Submit one copy to appropriate

District Office

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

X AMENDED REPORT

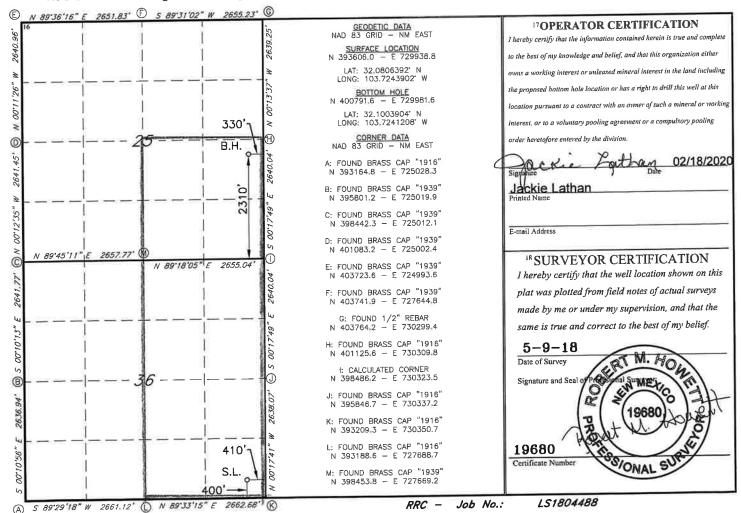
As Drilled

### WELL LOCATION AND ACREAGE DEDICATION PLAT

I API Number	2 Pool Code		
30-015-46230	98220	Purple Sage; Wolfcamp (Gas)	
<sup>4</sup> Property Code 326024		Property Name 25 WOPI FEDERAL COM	6 Well Number
7 OGRID NO. 14744		Operator Name NE OIL COMPANY	<sup>9</sup> Elevation <b>3301</b>

10 Surface Location East/West line County North/South line Feet From the Feet from the Lot Idn Range III. or lot no. Section Township **EAST EDDY** 410 SOUTH 400 31E P 36 25S Bottom Hole Location If Different From Surface East/West line County Feet from the North/South line Range Feet from the UL or lot no. Section Township 356 2321 SOUTH EAST **EDDY** 25 25S 31E 14 Consolidation Code 15 Order No. 13 Joint or Infill 12 Dedicated Acres 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.



Intent As Drilled X		
API#		
30-015-462 \ 0 \ Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Coltrane 36/25 W0PI Federal Com	#1H
liviewbourne on company		
Kick Off Point (KOP)  UL Section Township Range Lot Feet 9		lel y
Latitude		7_
32.0795656  First Take Point (FTP)	-103.7241194	
UL Section Township Range Lot Feet 346	From N/S Feet From E/W County	J,
Latitude Longitu	NAD .	
32.0804558	-103.7241353	3
Last Take Point (LTP)  UL Section Township Range Lot Feet 23 co  Latitude Longitum  32. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	From N/S Feet From E/W County  5 536 E Elly  ude NAD  103.7241331 43	
Is this well the defining well for the Horizontal S Is this well an infill well?	pacing Unit? પૃદ્ધ	
If infill is yes please provide API if available, Ope Spacing Unit.	erator Name and well number for Defining well fo	or Horizontal
	Duran auto Marras	Well Number
Operator Name:	Property Name:	weii Number
		1/7 06 /20 /2016

KZ 06/29/2018



COMPANY: Mewbourne Oil Company
WELL: Coltrane 36/25 WDPI 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°



		3	ONE: New Mexico Eastern Zone 301+27 @ 3328,0usft ND ELEVATION: 3301.0 Easting Latitude 729938.80 32° 4' 50.301 N 10 PLAN SECTIONS	Longitude Slot 03° 43' 27.804 W	
	3 - 4 1' 5 1' 6 1' 7 1'	MD Inc Azi TVD 0.0 0.00 0.00 0.00 1250,0 0.00 0.00 4250.0 1416,6 3.33 168.13 11083.5 261,5 0.00 0.00 11250.0 304.0 0.00 0.00 11292.5 053.7 89.97 359.71 11774.0	-389.3 81.8 2.00 180.00 -389.3 81.8 0.00 0.00 87.9 79.3 12.00 359.71	VSect Target 0.0 0.0 -4.7 -384.1 -388.8 BB 1H -388.8 88.4 7185.7 PBHL 1H	
SHL: 400' FSL; 410' FEL Section 36-25S-31E PBHL: 2310 FSL; 330' FE Section 25-25S-31E	T G M	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		_Section 36 25 258 31E C	oltrape <sub>1</sub> -
T F°				7375	- BHL 1H -7500
1000	19143.0'	Projected to bit 2321' FSL: 336' FE		1	6750
2000		PBHL 1H		7250-)/North 7125+) (250 7000tt/in)	6000
3000				7000g( in)	Section 36 - 5250
(E 4000	Old at 4416.6 MC 250 -1	25 0 125	250 375 500	6875	South(-)/North(-) (1500 (sft/in)
(5000		West(-)/East(+) (25	0 usft/in)		3750€
Depth 2000					1500 (F)
True Verti				-	2250
8000					1500
9000			4	Coltran	750 36/25 WDPI Fed Com #1H
10000	art Drop -2.00			Coltrane 36 B2PA St.#1H	225 W1PI Fed Com #2H
11000 Sta	rt 42.5 hold at 11261.5 MD Start DLS 12.00 TFO 359.71		19143.0' Projected	to b -1500 -750 0 West(-)/East(+) (1500 usf	750
0	1000 2000	3000 4000 5000 on at 0.34° (2000 usft/in)	6000 7000 8000		



## **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





Survey Report



Company: Project:

Site:

Well:

Mewbourne Oil Company Eddy County, N.M. Nad (83) Section 36 25-25S-31E Coltrane

Wellbore: Design:

Original Hole

Coltrane 36/25 W0PI Fed Com #1H Original Hole

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference: MD Reference: North Reference:

Database:

Well Coltrane 36/25 W0Pl Fed Com #1H

3301+27 @ 3328.0usft 3301+27 @ 3328.0usft

Grid

Minimum Curvature

EDM5000

Eddy County, N.M. Nad (83) **Project** 

Map System:

US State Plane 1983 North American Datum 1983

Geo Datum: Map Zone:

New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site

Section 36 25-25S-31E Coltrane

Site Position:

From:

Map

Northing: Easting: Slot Radius: 393,606,00 usft 729,938,80 usft

13-3/16 "

Latitude: Longitude: Grid Convergence:

32° 4' 50,301 N 103° 43' 27.804 W

0.32 °

Coltrane 36/25 W0PI Fed Com #1H Well

**Well Position** 

+N/-S +E/-W 0.0 usft 0.0 usft

0\_0 usft

Northing:

Easting:

08/14/19

0.0

393,606.00 usft 729,938,80 usft

6.78

Latitude: Longitude:

32° 4' 50.301 N 103° 43' 27.804 W

**Position Uncertainty** 

Position Uncertainty:

0.0 usft

Wellhead Elevation:

27.0 usft

Ground Level:

59.88

3,301.0 usft

Wellbore

Original Hole

Magnetics

**Model Name** 

IGRF2015

Sample Date

Declination (°)

**Dip Angle** 

Field Strength

(nT) 47,616,32820214

Design

Original Hole

Audit Notes:

Version:

1.0

Phase:

ACTUAL

Tie On Depth:

0.0

0.0

Vertical Section:

Depth From (TVD) (usft)

+N/-S (usft) +E/-W (usft) Direction (°)

0,29

Survey Program From

To

(usft)

Survey (Wellbore)

**Tool Name** 

Description

100.0 1.303.0 1,200.0 Gyro Surveys (Original Hole)

10/01/19

SRG-GYRO-MS MWD

surface readout gyro multishot MWD v3:standard declination

Survey

19,143.0 Stryker Surveys (Original Hole)

Survey			-	DE TRANSPORTE		5 T S A S A S A S A S A S A S A S A S A S	T - 102 - 101	ALC: NO.	STATE OF THE PARTY.	The state of the state of
	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	80.0	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



Survey Report



Company: Project: Site: Well: Mewbourne Oil Company Eddy County, N.M. Nad (83) Section 36 25-25S-31E Coltrane Coltrane 36/25 W0PI Fed Com #1H

Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Coltrane 36/25 W0PI Fed Com #1H 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid Minimum Curvature

EDM5000

Design:	Orig	jinal Hole			Database:		815 F.O.	EDM5000		
Survey	n Re	Sin Marian	town the					a printer		
	easured 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)
									0.04	-22,36
	1,000.0	3.88	335.95	999.6	9.1	5.8	9.1	1.61	0.94	75.83
	1,100.0	2.87	51.78	1,099.5	13.7	6.4	13.7	4.22	-1.01	26.33
	1,200.0	2.39	78.11	1,199.4	15.7	10.4	15.7	1.29	-0.48	7.37
	1,303.0	3.10	85.70	1,302.3	16.3	15.3	16.4	0.77	0.69	
	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
	2,197.0	1.50	227.10	2,345.8	10.1	28.5	10.2	0.31	0.11	-12.26
	0.500.0	1.80	243.80	2,534.7	7.1	24.0	7.2	0.30	0.16	8.84
	2,536.0	1.50	248.30	2,723.7	4.9	19.1	5.0	0.17	-0.16	2.38
	2,725.0		250.40	2,913.6	3.0	14.1	3.1	0.11	0.11	1.11
	2,915.0	1.70	247.80	3,102.5	0.9	8.7	1.0	0.07	0.05	-1.38
	3,104.0 3,294.0	1.80 1.50	228.10	3,292.4	-1.9	4.1	-1.8	0.34	-0.16	-10.37
	2 492 0	1.60	189.30	3,480.4	-6.1	1.8	-6.1	0.55	0.05	-20.64
	3,482.0	1.70	181.50	3,669.3	-11.5	1.3	-11.5	0.13	0.05	-4.13
	3,671.0		168.50	3,858.2	-18.3	2.1	-18.3	0.49	0.42	-6.88
	3,860.0	2,50		4,047.9	-27.7	4.8	-27.7	0.52	0.47	-4.37
	4,050.0 4,199.0	3.40 4.20	160.20 164.70	4,196.6	-37.1	7.8	-37.1	0.57	0.54	3.02
		4.00	470 70	4 246 4	-41.0	8.6	-40.9	1.52	1.20	12.00
	4,249.0	4.80	170.70	4,246.4	-55.3	10.5	-55.3	0.44	-0.42	1.75
	4,438.0	4.00	174.00	4,434.9	-67.5	11.1	-67.4	0.41	-0.32	4.02
	4,627.0	3.40	181.60	4,623.5	-79.3	11.0	-79.3	0,23	0.21	-1.32
	4,816.0	3.80	179.10	4,812.1		11.5	-91.2	0.19	-0.16	-1.70
	5,004.0	3.50	175.90	4,999.7	-91.3	11.5	-51.2	0.10	2,1.0	
	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
	7.000.0	4.45	165.50	7,074.2	-208.6	18.6	-208.5	0.09	0.00	-1.28
	7,082.0	4.10	165.80	7,074.2	-220,6	21.7	-220.5	0.37	-0.37	0.16
	7,272.0	3.40		7,263.6	-230.7	24.2	-230.6	0.26	-0.26	0.26
	7,461.0	2.90	166.30		-239.9	26.4	-239.8	0.01	0.00	-0.11
	7,649.0	2.90	166.10	7,640.3		28.8	-249.0	0.03	0.00	-0.69
	7,838.0	2.90	164.80	7,829.1	-249.2	20.0				
	8,027.0	2.80	165.80	8,017.8	-258.3	31.2	-258.1	0.06	-0.05	0.53 -9.31
	8,216.0	3.60	148.20	8,206.5	-267.8	35.5	-267.6	0.67	0.42	
	8,406.0	2.90	159.00	8,396.2	-277.4	40.4	-277.1	0.49	-0.37	5.68

## MEWBOURNE OIL COMPANY

## Stryker Energy Directional Services

Survey Report

Database:



Company: Project:

Site:

Mewbourne Oil Company Eddy County, N.M. Nad (83) Section 36 25-25S-31E Coltrane Coltrane 36/25 W0Pl Fed Com #1H

Well: Coltrane 36/2
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Coltrane 36/25 WDPI Fed Com #1H 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid

Minimum Curvature EDM5000

	HI THE STREET	E-IIIo S		A STATE OF		Burn F. C.		V39300	8
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
10,103.0	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								2.74	444 57
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		-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						247	0.70	8.71	-0.97
11,911.0	68.90	359.80	11,736.1	-25.1	79.2	-24.7	8.76 45.33	15.31	-0.63
11,943.0	73.80	359.60	11,746.3	5.2	79.0	5.6	15.32	19.31	
11,974.0	78.40	0.30	11,753.8	35.3	79.0	35.7	15.00	14.84	2.26 5.48
12,005.0	80.30	2.00	11,759.5	65.7	79.6	66.2	8.16	6.13	
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



Survey Report



Company: Project: Site: Well: Mewbourne Oil Company Eddy County, N.M. Nad (83) Section 36 25-25S-31E Coltrane Coltrane 36/25 W0Pl Fed Com #1H

Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: Well Coltrane 36/25 W@PI Fed Com #1H 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid Minimum Curvature

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 (°/106usft)
6. 9	A.153	202							
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
12,730.0 12,824.D	89.80	359.30	11,785.2	883.2	78.0	883.6	3.30	-1.17	-3.09
40.020.0	88.60	358.60	11,786.7	991.2	76.0	991.5	1.29	-1.11	-0.65
12,932.0	88,70	358.70	11,788.9	1,085.1	73.8	1,085.5	0.15	0.11	0.11
13,026.0	89.40	358.50	11,790.5	1,180.1	71.5	1,180.4	0.77	0.74	-0.21
13,121.0		359.30	11,791.3	1,275.1	69.7	1,275.4	0.87	0.21	0.84
13,216.0 13,310.0	89.60 90.20	358.40	11,791.5	1,369.0	67.8	1,369.4	1.15	0.64	-0,96
40 405 0	00.30	357.90	11,791.1	1,464.0	64.7	1,464.3	0.54	0.11	-0.53
13,405.0	90.30	358.70	11,791.5	1,557.9	61.9	1,558.2	1.45	-1.17	0.85
13,499.0	89.20	0.80	11,792.1	1,651.9	61.5	1,652.2	2.43	0.96	2.23
13,593.0	90.10	1.30	11,791.8	1,746.9	63.3	1,747.2	0.54	0.11	0.53
13,688.0 13,782.0	90.20 90.00	0.50	11,791.7	1,840.9	64.7	1,841.2	0.88	-0.21	-0.85
		- 74	44 704 8	1,935.9	65.7	1,936.2	0.67	0.63	0.21
13,877.0	90.60	0.70	11,791.2		66.6	2,031.2	0.33	-0.11	-0.32
13,972.0	90.50	0.40	11,790.3	2,030.9	67.7	2,125.2	0.53	0.00	0.53
14,066.0	90.50	0.90	11,789.4	2,124.9	69.8	2,123.2	0.77	0.21	0.74
14,161.0	90.70	1.60	11,788.4	2,219.8		2,314.2	0.98	-0.21	-0.96
14,255.0	90,50	0.70	11,787.5	2,313.8	71.7	2,314.2	0.30	-0.21	
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	-D.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
,	89.70	358.50	11,791.7	3,448.6	66.9	3,448.9	0.21	0.21	0.00
15,390.0	89.70 89.70	359.20	11,792.2	3,542.6	65.0	3,542.8	0.74	0.00	0.74
15,484.0		359.20	11,792.2	3,637.6	63.9	3,637.8	0.80	0.74	0.32
15,579.0	90.40		11,792.2	3,733.5	63.7	3,733.8	1.03	0.73	0.73
15,675.0	91.10	0,20	11,130,3						
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 66.2	3,922.8 4,017.7	0.32 0.60	0.00 0.42	0.32 0.42



Survey Report



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

Well: Coltrane 36/2:
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: Well Coltrane 36/25 W0Pl Fed Com #1H 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid Minimum Curvature

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)
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				7,196.6	37.0	7,196.7	0.00	0.00	0,00



Survey Report



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

Well: Wellbore: Design:

Site:

Original Hole Original Hole Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method: Database: Well Coltrane 36/25 W0Pl Fed Com #1H

3301+27 @ 3328.0usft 3301+27 @ 3328.0usft

Grid

Minimum Curvature EDM5000

Design Ann	totations	-		erone co	
	Measured	Vertical	Local Coo	rdinates	
	Depth (usft)	Depth (usft)	+N/-S (usft)	+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:	



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



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.



Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 36 25-255-31 E Coltrane
Well: Coltrane 36/25 W0PI Fed Com #1H
Wellbore: Original Hole

Local Co-ordinate Reference: Well Cottrane 36/25 WOP] Fed Com #1H
TVD Reference: 3301+27 @ 3328.0usft
ND Reference: 3301+27 @ 3328.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
EDM5000

Design:	Original Hole			MICHAEL PROPERTY SERVICE TO SERVI	
Survey Program	Date	Date 10/01/19		The state of the s	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1.303.0		1,200.0 Gyro Surveys (Original Hole) 19.143.0 Stryker Surveys (Original Hole)	SRG-GYRO-MS MWD	surface readout gyro multishot MWD v3:standard declination	

Survey			and and a second second			The American					
MD (usft)	5 E	•	Azi (azimuth)	TVD (usft)	N/S E/	E/W Closure Dis (usft) (usft)	istance (	Closure Distance Closure Azimuth (usft)	DLeg ("/100usft)	Northing (usft)	Ensting (usft)
0.0		00.0	0.00	0:0	0.0	0.0	0.0	0.00	00.00	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	6.0-	-0.3	1.0	197.27	0.20	393,605,08	729,938.52
300.0	_	0,29	66.54	300.0	\( \frac{1}{2} \)	-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	99.0	393,604.53	729,938.88
500.0		0.42	141.84	900.0	-2.2	0.4	2.2	169.36	0.23	393,603,79	729,939.22
600.0	_	0.80	133.08	0.009	-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	6.9	69.66	1.72	393,605.02	729,944.62
0.006		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	9.886	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



Survey Report Landscape



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

Survey	The second				STATE OF THE	Service Contractor	Standard School			S. P. C.
MID (nsft)	S E	Azi (azimuth)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (P)	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	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	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	3 11.6	3 173.37	0.13	393,594,50	729,940.14
3,860.0	2.50	168.50	3,858.2	-18,3	2.1	18.5	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	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	8 37.9	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	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	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	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	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	5 92.0	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	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	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	6 123.7	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	8 133.5	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	2 142.9	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	.5 152.3	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	.7 162.1	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	7 171.1	1 176.77	0.11	393,435.14	729,848.46
6,705.0	4.40	159.90	6,698.2	-182.1	11.6	.6 182.5	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	.5 196,1	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	.6 209.4	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	.7 221.7	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	.2 232.0	.0 174.02	0.26	393,375.30	729,962.97



Survey Report Landscape



Well Coltrane 36/25 W0Pl Fed Com #1H 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid Minimum Curvature EDM5000 Local Co-ordinate Reference: TVD Reference: North Reference: Survey Calculation Method: MD Reference: Database: Mewbourne Oil Company
Eddy County, N.M. Nad (83)
Section 36 25-25S-31E Coltrane
Coltrane 36/25 WOP! Fed Com #1H Original Hole Original Hole Company: Wellbore: Design: Project Site: Well:

Survey	Sept.	at Bertherstein	S. P. State L. Valley British							THE SERVICE STATES
QM	Inc	Azi (azimuth)	OVT.	S/N	EW	Closure Distance	Closure Distance Closure Azimuth	DLeg	Northing	Easting
(nsft)	5	3	(nsft)	(nstt)	(nett)	(nstf.)	5	("/100usft)	(nstt)	(usft)
7,649.0	2.90	0 166.10	7,640.3	-239.9		26.4 241.4	.4 173.71	0.01	393,366.07	729,965.24
7,838.0	2.90	0 164.80	7,829.1	-249.2		28.8 250.9	173.40	0.03	393,356.81	729,967.64
8,027.0	2.80	0 165.80	8,017.8	-258.3		31.2 260.2	173.11	0.06	393,347.72	729,970.03
8,216.0	3.60	0 148.20	8,206.5	-267.8		35.5 270.1	172.45	0.67	393,338.20	729,974.29
8,406.0	2.90	0 159.00	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	3.1 171.38	0.53	393,321.20	729,981.96
8,785.0	2.60	154,50	8,774.9	-291.6		46.1 295.2	5.2 171.02	0.39	393,314.39	729,984.88
6,975.0	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	0 157.20	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	3.2 169.65	0.66	393,292,98	729,995.96
9,542.0	2.90	133,30	9,531.2	-319.4		64.0 325.8	5.8 168.67	90.0	393,286.56	730,002.82
9,730,0	2.60	129.20	9,719.0	-325.4		70.8 333.0	3.0 167.73	0.19	393,280,61	730,009.59
9,920.0	3.40	139.50	9,908.7	-332.4		77.8 341.4	1.4 166.83	0.51	393,273.60	730,016.59
10,108.0	3.10	153.80	10,096.4	-341.2		83.7 351.3	1.3 166.22	0.46	393,264.80	730,022.45
10,297.0	4.30	167.90	10,285.0	-352.7		87.4 363,4	3,4 166,08	0.79	393,253.29	730,026.20
10,486.0	4.00	170.80	10,473.5	-366.1		89.9 377.0	7.0 166.20	0.19	393,239.85	730,028.73
10,675.0	3,50	50 173.70	10,662.1	-378.4		91.6 389,3	9.3 166.39	0,28	393,227.61	730,030.42
10,864.0	1,00	00 187.70	10,850.9	-385.8		92.0 396	396,6 166,58	1.34	393,220.24	730,030.83
11,053.0	1,10	10 233.40	11,039.9	-388,5		396,4 396	398.8 166.91	0.43	393,217.52	730,029.16
11,242.0	0.90	30 235.20	11,228.9	-390.4		87.7 400.1	0.1 167.34	0.11	393,215.59	730,026.48
11,263.2	1.00	283.64	11,250.1	-390.5		87.4 400.1	0.1 167.39	3.70	393,215,54	730,026.16
BB 1H	7	040 40	11 226 0	006		2008	300 7	3.70	393 215 85	730.025.66
0.802,11	07:1		6.0/2,11							
11,321.0	6.30	30 343,40	11,307.8	-388.1		86.0 397	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	392.9 167.47	16.08	393,222.44	730,024.06
11,384.0	15.10	10 354.80	11,369.6	-376.4		84.6 38!	385.8 167.33	12.81	393,229.63	730,023.41
11,415.0	19.60	50 356.30	11,399.2	-367.2		83.9 376	376.6 167.13	14.59	393,238.85	730,022.71



Survey Report Landscape



Well Coltrane 36/25 WoPI Fed Com #1H	3301+27 @ 3328.0usft	3301+27 @ 3328.0usft	Grid	Minimum Curvature	EDM5000
Local Co-ordinate Reference:	TVD Reference:	MD Reference:	North Reference:	Survey Calculation Method:	Database:

	Mewbourne Oil Company Eddy County, N.M. Nad (83) Section 36 25-25S-31E Coltrane Coltrana 36/25 WoPI Fed Com #1H	vany ad (83) E Coltrane Fed Com #1H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Calculation Method:	Reference:	Well Coltrane 36/25 WC 3301+27 @ 3328.0usff 3301+27 @ 3328.0usff Grid Minimum Curvature	Well Coltrane 36/25 W0PI Fed Com #1H 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid Minim Curvature	
Wellbora: Design:	Original Hole	And the second s				Database:		EDM5000		
Survey		Scientification of the second	Trision State				Seattles.			
MD (usft)	<u></u>	Azi (azlmuth)	TVD (fish)	N/S (usft)	E/W Clo	Closure Distance Clos (usft)	Closure Azimuth	DLeg (*M00usft)	Northing (usft)	Easting (usft)
11,447.0			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	00.00	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	7 0.07	11,725.5	6'09-	79.2	94.1	122.74	8.76	393,555,09	730,017.99
LP 1H	08:30	359.80	11,736,1	-25.1	79.2	83.0	107.60	8,76	393,580.89	730,017.96
11,943.0			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 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	0 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	0 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	0 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	0 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	0 358,30	11,772.2	192.0	83.1	209.2	23.41	10.05	393,797.96	730,021.92
12,163.0	97.80	0 358.30	11,773.6	222.9	82.2	237.6	20.24	2.26	393,828.92	730,021.00
12,195.0	86.80	0 358.00	11,775.1	254.9	81.2	267.5	17.67	3,26	393,860,86	730,019.97
12,257.0	87.10	0 359.10	11,778.4	316.8	79.6	326.6	14.11	1.84	393,922.76	730,018.40
12,352.0	07.70	0 357,00	11,782.7	411.6	76.4	418.6	10.51	2.30	394,017.60	730,015.17



Survey Report Landscape



Survey

npany: lect: i: lt. lbore:	Mewbourne Oil Company Eddy County, N.M. Nad (83) Section 36 25-255-31E Coltrane Coltrane 36/25 WOPI Fed Com #1H Original Hole	I Compar N.M. Nad 25S-31E WOPI Fe	ny (83) Coftrane ∋d Com #1H					Local Co-ordinate TVD Reference: MD Reference: North Reference: Survey Calculate Database:	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well Coltrane 36/25 WC 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid Minimum Curvature EDM5000	Well Coltrane 36/25 W0PI Fed Com #1H 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid Minimum Curvature EDM5000	_
vey			Bellevier to 18			THE PASSES			Control of the Control	CONTRACTOR INC.	WEST SERVICE	
OM (	la Pic		Azi (azimuth)	TVD (Hell)	N/S		EAN	Closure Distance	Closure Azimuth	OLeg ("/100msff)	Northing	Easting
12,446.0		87,50	357.20	11,786,6	6	505.4	71.6			0:30	394,111.39	730,010.42
12,540.0	0	90.50	1.50	11,788.3	35	599.3	70.6	.6 603.5	5 6.71	5.58	394,205.34	730,009.36
12,635.0	0	90.80	1.90	11,787.2	ő	694.3	73.4	4 698.2	5 6.03	0.53	394,300,29	730,012.17
12,730.0	0	90.90	2.20	11,785,8	32	789.2	76.8	.8 792.9	9 5.56	0.33	394,395.22	730,015.57
12,824.0	0	89,80	359.30	11,785,2	ã	883.2	78.0	.0 886.6	5.05	3.30	394,489.20	730,016.80
12,932.0	0	88.60	358.60	11,786.7	ŏ	991.2	76.0	.0 994.1	1 4.39	1.29	394,597.17	730,014.82
13,026.0	0	88.70	358.70	11,788.9	1,0	1,085.1	73.8	.8 1,087.6	6 3.89	0.15	394,691.12	730,012.61
13,121.0	0	89.40	358.50	11,790.5	1,1	1,180.1	71.5	.5 1,182.2	2 3,47	0.77	394,786.07	730,010.29
13,216.0	0.	89.60	359,30	11,791.3	1.2	275.1	69.7	7, 1,277.0	0 3.13	0.87	394,881.05	730,008,47
13,310.0	0,	90.20	358.40	11,791,5	1,3	0'696'1	67.8	1,370.7	7 2.83	1.15	394,975.03	730,006.58
13,405.0	0	90.30	357.90	11,791,1	1,4	1,464.0	64.7	.7 1,465.4	4 2.53	0.54	395,069.98	730,003.51
13,499.0	0	89.20	358.70	11,791.5	, L	1,557.9	61.9	.9 1,559.2	2 2.28	1.45	395,163.94	730,000.72
13,593.0	0	90.10	08'0	11,792,1	1,6	,651.9	61.5	,5 1,653.1	1 2,13	2.43	395,257.93	730,000.31
13,688.0	0.	90.20	1.30	11,791.8	1,7,	1,746.9	63.3	.3 1,748.1	1 2.07	0.54	395,352.91	730,002.05
13,782.0	0.	90,00	0.50	11,791.7	8.	1,840.9	64.7	.7 1,842.0	.0 2.01	0.88	395,446.90	730,003,53
13,877.0	0.	90.60	0.70	11,791.2	1,9	1,935.9	65.7	7, 1,937.0	1.94	79.0	395,541.89	730,004.53
13,972.0	0,	90.50	0.40	11,790.3	2,0	2,030.9	9.99	.6 2,032.0	.0 1.88	0.33	395,636.88	730,005.44
14,066.0	0.	90.50	0.90	11,789,4	2,1	2,124.9	67.7	.7 2,126.0	.0 1.82	0.53	395,730.87	730,006.50
14,161.0	0.	90.70	1.60	11,788.4	2,2	2,219.8	8.69	.8 2,220.9	9 1.80	0.77	395,825.84	730,008.58
14,255.0	0.	90.50	0.70	11,787.5	2,3	2,313.8	7.1.7	.7 2,314.9	9. 1.77	0.98	395,919.82	730,010.46
14,350.0	o.	90.50	09:0	11,786.6	2,4	2,408.8	72.7	2,409.9	9 1.73	0.11	396,014.81	730,011.54
14,444.0	0.	90.20	0.80	11,786.1	2,5	2,502,8	73	73.9 2,503.9	9 1,69	0.38	396,108.80	730,012.69
14,538.0	0.	89.80	0.20	11,786.1	2,5	2,596.8	74.7	.7 2,597.9	.9 1.65	0,77	396,202.80	730,013.51
14.633.0	0.	89.30	1,10	11,786.8	2,6	2,691.8	75	75.8 2,692.9	1.61	1.08	396,297.79	730,014.59
14,728.0	0.	89.50	0.60	11,787.8	2,7	2,786.8	77	77.2 2,787.8	.8 1.59	0.57	396,392.77	730,016,00

COMPASS 5000.15 Build 90

730,017.64

396,486.75

396,582.74

0,91

1.57

2,881.8 2,977.8

78.8

2,880,8 2,976.7

11,788.4

11,788.7

1,40

89.80 89.80

14,822.0 14,918.0



Survey Report Landscape



400.00         Act   A	Company: Project: Site: Well: Wellbore: Design:	Mewbourne Oil Company Eddy County, N.M. Nad (83) Section 36 25-25S-31E Coltrane Coltrane 36/25 W0PI Fed Com #1H Original Hole	il Company N.M. Nad (8 2553-31 E Co 5 WOP! Fed (	3) Som #1H				Local Co-ordin TVD Reference: MD Reference: North Reference: Survey Calcula Dafabase:	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:: Database:	:: ::	Well Coltrane 36/25 Wf 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid Minimum Curvature EDM5000	Well Coltrane 36/25 W0PI Fed Com #1H 3301+27 @ 3328.0usft 3301+27 @ 3328.0usft Grid Minimum Curvature EDM5000	
5072         89 80         398 50         1179 80         3070 7         76 3         3071 7         143         0.11         986 57 1 8           5107 0         89 60         398 50         1179 80         3,165 7         740         3,165 6         134         0.21         396 71 8           5107 0         88 60         388 50         1179 1         3,264 6         71 7         3,165 7         1,178 0         0.21         386 77 18         388 71 18         0.21         386 77 18         388 71 18         0.21         386 77 18         0.22         386 77 18         0.22         386 77 18         0.21         386 77 18         0.22         386 77 18         0.22         387 744 36         0.22         1,17         0.22         387 744 36         0.22         1,17         0.22         387 744 36         0.22         387 74 74         0.22         387 744 32         1,17         0.22         387 744 32         1,17         0.22         387 744 32         1,17         0.22         387 744 32         1,17         0.22         387 744 32         1,17         0.22         387 744 32         1,17         0.22         387 744 32         1,17         0.22         387 74 32         1,17         0.22         387 744 32         1,17	Survey MD	E E	•	조 (azimuth)	OVT (#8#)	S/N (#Sil)	EW	Closure Dista		muth	DLeg (?/100usff)	Northing (usft)	Easting (usft)
88.60         388.60         11,789.5         3,166.7         74.0         3,166.5         1,344         0.21         366.7168           89.60         388.70         11,700.3         3,266.4         71.7         3,260.4         1,26         0.24         366.658           99.50         388.70         11,700.3         3,286.8         69.4         3,260.4         1,19         0.21         366.868           89.70         386.60         11,792.2         3,542.6         66.9         3,442.2         1,19         0.21         387,46.26           90.40         389.70         11,792.2         3,542.6         65.9         3,543.2         1,01         0.21         387,46.26           91.40         389.70         11,790.2         3,542.6         65.9         3,643.2         1,01         0.24         387,46.26           91.40         389.40         11,780.2         3,542.6         65.9         3,643.1         0.24         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26         387,46.26	15,012		89.80	358.50	11,789.0	3,070.7	ı.			1.43	0	396,676.71	730,015.26
89.50         358.70         11/790.3         228.86         71.7         3.280.4         12.80         6.4         3.280.6         72.4         3.886.85         71.7         3.280.4         1.19         0.21         3.896.85.85         71.7         3.280.4         1.19         0.21         3.896.86.2         2.448.6         66.9         3.344.3         1.19         0.21         3.896.86.2         3.748.5         3.748.5         1.19         0.21         3.896.86.2         3.748.5         3.748.5         3.748.5         1.19         0.21         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.43.5         3.874.45.5	15,107	o.	89.60	358.50	11,789.5	3,165.7	1		,166.5	1.34	0.21	396,771.68	730,012.77
69.50         588.50         11,791.1         3,585.8         69.4         3,545.3         1,19         0.21         398,046.5           99.70         388.50         11,791.7         3,448.6         66.9         3,449.2         1,11         0.21         397,445.6           99.70         389.50         11,792.2         3,545.6         65.9         3,641.0         0.07         0.74         397,445.6           91.10         0.20         11,792.2         3,545.6         65.9         3,681.1         1.01         0.89         0.74         397,445.6           91.10         0.20         11,790.9         3,735.6         64.1         3,829.1         0.96         0.75         397,445.5           91.20         0.30         11,780.9         3,725.6         64.8         3,629.0         0.96         0.75         397,445.5           90.10         0.30         11,784.7         4,101.4         67.2         4,172.0         0.96         0.75         397,445.5           90.10         0.30         11,784.2         4,206.4         69.1         4,206.0         0.96         0.75         397,744.5           90.20         0.20         11,784.2         4,206.4         69.1         4,206.0	15,201	0.	89,50	358.70	11,790.3	3,259.6	1		,260.4	1.26	0.24	396,865.65	730,010.47
89.70         358.60         11,791.7         3.448.6         68.9         3.448.2         11,1         0.21         397,045.8           89.70         359.20         11,792.2         3.426.6         65.0         3.442.2         1.05         0.74         397,045.8           91.40         359.20         11,792.2         3.426.6         65.0         3,441.0         0.90         0.74         397,445.6           91.40         0.20         11,790.9         3.733.5         63.7         3,734.1         0.90         0.75         397,445.5           91.20         0.20         11,784.7         4017.5         64.8         3,223.0         0.95         0.15         397,434.5           91.20         0.20         11,784.7         4017.5         64.8         3,223.0         0.95         0.15         397,744.4           90.00         0.00         11,784.7         4,017.6         62.2         4,016.0         0.94         0.05         397,717.44           90.00         0.00         11,784.7         4,205.4         62.2         4,016.0         0.94         0.05         397,717.44           90.00         0.00         11,784.2         4,205.4         69.1         4,296.0         0.94	15,295	0.	89.50	358.50	11,791,1	3,353.6	_		,354.3	1.19	0.21	396,959.62	730,008.18
89.70         359.20         11,792.2         3.542.6         65.0         3.543.2         1.05         0.74         397,146.56           90.40         386.50         11,792.2         3.637.6         65.0         3.584.1         1.01         0.80         397,245.56           91.40         386.50         11,792.2         3.637.6         65.0         3.784.1         1.01         0.80         1.03         397,245.56           91.20         0.20         11,784.7         3.922.5         64.5         3.284.1         0.96         0.15         397,339.54           91.20         0.50         11,784.7         4.01.5         66.2         4.016.0         0.94         0.05         397,245.55           90.10         0.20         11,784.7         4.01.4         67.2         4.016.0         0.94         1.76         397,774.4           90.10         0.30         11,784.7         4.264.4         67.2         4.112.0         0.94         1.76         398.00.43           90.20         0.20         11,784.2         4.264.4         69.1         4.286.0         0.89         0.77         397,496.6           89.40         0.20         11,784.8         4.264.4         69.1         4.286.0 <td>15,390</td> <td>0.</td> <td>89.70</td> <td>358.50</td> <td>11,791.7</td> <td>3,448.6</td> <td>w.</td> <td></td> <td>,449.2</td> <td>1.11</td> <td>0.21</td> <td>397,054.58</td> <td>730,005.69</td>	15,390	0.	89.70	358.50	11,791.7	3,448.6	w.		,449.2	1.11	0.21	397,054.58	730,005.69
91,40         356,50         11,792,2         367,6         65.9         368,81         1,01         0.80         1,07         0.80         397,243,55           91,10         0.20         11,780,8         3,733,5         63.7         3,734,1         0.88         1,03         397,398,54           91,10         0.20         11,780,0         3,822,5         64.1         3,230,0         0.95         0.15         397,44,52           91,20         0.00         11,783,3         4,111,4         67.2         4,112,0         0.95         0.95         0.92         397,623,60           90,00         0.00         11,783,3         4,111,4         67.2         4,112,0         0.94         0.60         397,623,4           90,00         0.20         11,783,3         4,111,4         67.2         4,112,0         0.94         0.60         397,623,4           90,00         0.20         11,783,3         4,944         62.2         4,206,0         0.93         0.94         0.60         397,611,4           90,00         0.10         11,784,2         4,284,4         70.1         4,380,0         0.95         0.94         0.60         397,114,4           90,00         0.00         11,7	15,484	0.	89.70	359.20	11,792,2	3,542.6	_		,543.2	1.05	0.74	397,148.56	730,003.80
91.10         0.20         11,780.9         3,733.5         63,7         3,734.1         0.98         1,03         397,389.54           91.20         0.30         11,780.0         3,828.5         64.1         3,629.1         0,96         0,15         397,434.52           91.20         0.60         11,778.0         3,828.5         64.8         3,923.0         0,96         0,15         397,434.52           91.20         0.60         11,778.2         4,017.6         66.2         4,018.0         0,94         0,05         397,528.50           91.00         0.30         11,783.2         4,017.6         66.2         4,018.0         0,94         0,05         397,774.4           90.00         0.30         11,784.2         4,296.4         68.7         4,206.0         0,94         0,05         397,774.4           90.00         0.20         11,784.2         4,296.4         69.1         4,206.0         0,91         0,77         397,906.43           80.50         0.50         11,784.2         4,684.4         70.1         4,489.0         0,91         0,95         0,77         398,796.4           80.50         0.00         11,784.8         4,584.4         70.1         4,489.0	15,579	0.	90,40	359,50	11,792.2	3,637.6	ű		,638.1	1.01	0.80	397,243,55	730,002.73
91.20         0.30         11,786.0         3,828.5         64.1         3,829.1         0,96         0,15         397,434.52           91.20         0.60         11,787.0         3,822.5         64.8         3,923.0         0.95         0.32         397,434.62           91.60         0.00         11,784.7         4,017.5         66.2         4,018.0         0.94         0.50         337,474.44           90.01         0.03         11,784.7         4,017.5         66.2         4,018.0         0.94         0.50         337,474.44           90.02         0.90         11,784.2         4,206.4         66.2         4,120         0.94         0.50         397,417.44           80.20         0.20         11,784.2         4,206.4         69.7         4,306.0         0.94         0.59         397,417.44           80.20         0.20         11,784.2         4,488.4         70.1         4,396.0         0.94         0.59         398,500.43           80.40         0.00         11,784.8         4,583.4         70.1         4,684.0         0.58         0.54         388,694.2           80.40         0.00         11,784.9         4,772.4         70.1         4,678.9         0.58	15,675	o.	91.10	0.20	11,790.9	3,733,5	_		.734.1	0.98	1.03	397,339.54	730,002.48
91,20         0,60         11,787,0         3,922,5         64,8         3,923,0         0,95         0,32         397,528,50           91,60         1,00         11,784,7         4,017,6         66,2         4,018,0         0,94         0,50         397,523,46           90,10         0,30         11,784,7         4,017,6         66,2         4,018,0         0,94         1,76         397,717,44           90,10         0,30         11,783,1         4,205,4         68,2         4,018,0         0,94         1,76         397,717,44           90,20         0,20         11,783,1         4,206,4         68,2         4,206,0         0,93         0,77         397,174,4           88,50         0,20         11,783,1         4,286,4         69,1         4,206,0         0,91         0,65         397,811,44           88,50         0,00         11,784,2         4,884         70,1         4,489,0         0,61         0,77         388,094,42           88,60         0,00         11,784,2         4,884         70,1         4,684,0         0,89         0,77         388,189,42           1,11         1,11,786,3         4,618,4         70,2         4,678,9         0,89         0,74	15,770	o.	91.20	0:30	11,789.0	3,828.5			,829.1	96.0	0,15	397,434,52	730,002.89
91,60         1,00         11,784,7         4,017.5         66.2         4,016.0         0.94         0.50         397,523.46           90,10         0.30         11,783.3         4,111.4         67.2         4,12.0         0.94         1.76         397,717.44           90,00         0.30         11,783.2         4,411.4         67.2         4,206.0         0.94         1.76         397,717.44           90,00         0.20         11,783.2         4,206.4         69.1         4,206.0         0.93         0.77         397,707.44           89,50         0.20         11,784.2         4,894.4         69.7         4,396.0         0.91         0.77         398,700.43           89,40         0.00         11,784.2         4,884.4         70.1         4,896.0         0.89         0.54         398,199.42           99,10         0.00         11,784.2         4,583.4         70.1         4,896.0         0.89         0.54         398,199.42           99,10         0.50         11,784.2         4,583.4         70.1         4,584.0         0.89         0.53         398,194.2           99,10         0.50         11,786.5         4,573.4         70.2         4,584.0         0.84	15,864	0.	91.20	0.60	11,787.0	3,922.5			,923.0	0.95	0.32	397,528,50	730,003.63
90.10         0.30         11,783.3         4,111.4         67.2         4,112.0         0.84         1,76         397,717.44           90.00         0.90         11,783.2         4,206.4         68.2         4,206.0         0.93         0.65         397,117.44           90.20         0.20         11,783.1         4,299.4         69.1         4,306.0         0.92         0.77         397,905.43           89.50         0.50         11,784.2         4,394.4         69.1         4,396.0         0.91         0.89         0.77         397,905.43           89.40         0.00         11,784.2         4,884.4         70.1         4,489.0         0.89         0.54         398,090.42           89.40         0.00         11,784.8         4,684.4         70.1         4,680.0         0.89         0.54         398,198.42           99.40         0.00         11,784.8         4,678.4         70.2         4,678.9         0.89         0.54         398,198.42           99.40         0.10         11,784.8         4,772.4         69.8         4,772.9         0.89         0.53         0.35         398,188.42           99.40         355.70         11,786.9         4,613.9         4,613.9 </td <td>15,959</td> <td>0.</td> <td>91.60</td> <td>1.00</td> <td>11,784.7</td> <td>4,017.5</td> <td></td> <td></td> <td>,018.0</td> <td>0.94</td> <td>09'0</td> <td>397,623.46</td> <td>730,004.95</td>	15,959	0.	91.60	1.00	11,784.7	4,017.5			,018.0	0.94	09'0	397,623.46	730,004.95
90.00         0.90         11,783.2         4,205.4         68.2         4,206.0         0.93         0.65         397,811.44           90.20         0.20         11,783.1         4,296.4         69.1         4,300.0         0.92         0.77         397,905.43           89.50         0.50         11,783.3         4,384.4         70.1         4,396.0         0.91         0.80         398,000.43           89.40         0.00         11,784.2         4,488.4         70.1         4,489.0         0.89         0.54         398,000.43           89.40         0.00         11,784.8         4,583.4         70.1         4,489.0         0.89         0.54         398,000.43           89.60         0.10         11,784.8         4,583.4         70.1         4,684.0         0.88         0.53         398,184.42           91.10         359.40         11,784.8         4,772.4         69.8         4,772.9         0.86         0.33         398,784.4           98.60         357.30         11,786.9         4,961.3         69.8         4,772.9         0.86         0.33         398,773.4           18.60         357.70         11,786.4         5,058.2         5,162.4         5,162.4         6	16,053	0	90.10	0.30	11,783.3	4,111.4	_		1,112.0	0.94	1.76	397,717.44	730,006.02
90.20         0.20         11,783.1         4,299,4         69.1         4,300.0         0.92         0.77         397,905,43           89.50         0.50         11,784.2         4,384.4         69.7         4,395.0         0.91         0.89         98,000.43           89.40         0.00         11,784.2         4,488.4         70.1         4,489.0         0.89         0.54         398,004.42           89.60         0.00         11,784.8         4,678.4         70.1         4,684.0         0.89         0.54         398,034.42           99.60         0.01         11,784.8         4,678.4         70.1         4,684.0         0.88         0.53         398,184.42           99.10         355.40         11,784.6         4,772.4         69.8         4,772.9         0.86         0.33         398,284.42           89.60         355.20         11,784.6         4,772.4         69.8         4,772.9         0.86         0.84         1.76         398,472.38           89.60         357.70         11,785.4         5,058.2         5,162.4         5,162.4         5,162.4         6,162.4         0.84         0.84         0.71         398,472.38           89.60         358.7         11,	16,147	0:	90.00	0.90	11,783.2	4,205,4			,206.0	0.93	0.65	397,811.44	730,007.00
89.50         0.50         11,784.2         4,394.4         69.7         4,395.0         0.91         0.80         398,000.43           89.40         0.00         11,784.2         4,488.4         70.1         4,489.0         0.89         0.54         398,094.42           89.90         0.00         11,784.8         4,583.4         70.1         4,584.0         0.88         0.53         398,189.42           99.60         0.10         11,786.2         4,678.4         70.1         4,684.0         0.88         0.53         398,284.42           99.10         0.10         11,786.2         4,678.4         70.2         4,678.9         0.86         0.33         398,284.42           99.10         0.17         4,678.4         70.2         4,678.9         0.86         0.33         398,284.42           99.20         0.17         4,678.4         70.2         4,678.9         0.86         0.33         398,284.42           99.40         356.20         4,678.4         67.8         4,772.9         0.86         0.34         398,67.28           89.60         357.30         11,786.9         4,961.3         64.1         4,961.7         64.96.1         64.1         64.96.1         64.1	16,241	o:	90.20	0.20	11,783.1	4,299,4			0.000.	0.92	0.77	397,905.43	730,007.91
89.40         0.00         11,784.2         4,488.4         70.1         4,489.0         0.68         0.54         399,094.42           89.30         0.00         11,784.8         4,583.4         70.1         4,584.0         0.88         0.53         398,189.42           89.60         0.01         11,785.2         4,678.4         70.2         4,678.9         0.86         0.53         398,284.42           91.10         356.40         11,784.6         4,772.4         69.8         4,772.9         0.86         1.76         398,378.41           88.30         356.20         11,786.9         4,772.4         69.8         4,772.9         0.80         1.76         398,378.41           88.40         356.20         11,786.9         4,961.3         64.1         4,966.9         0.80         0.74         1.66         398,472.36           89.40         357.70         11,786.9         5,152.1         56.1         5,152.4         0.62         0.11         398,47.38           90.40         358.50         11,789.4         5,342.0         46.3         5,432.0         0.57         0.49         0.49         399,041.94           90.20         357.80         11,788.2         5,330.9	16,336	0.0	89.50	0.50	11,783.3	4,394.4			.395.0	0.91	0.80	398,000.43	730,008.49
89.90         0.000         11,784.8         4,583.4         70.1         4,584.0         0.88         0.53         398,189.42           89.60         0.10         11,786.2         4,678.4         70.2         4,678.9         0.86         0.33         398,284.42           91.10         359.40         11,784.6         4,772.4         69.8         4,772.9         0.84         1.76         398,378.41           89.60         356.20         11,786.9         4,961.3         64.1         4,866.9         0.80         3.24         398,378.41           89.60         357.70         11,786.9         4,961.3         64.1         4,961.7         0.74         1.66         398,667.29           89.60         357.70         11,789.4         5,152.1         56.1         5,152.4         0.67         0.46         398,697.39           90.40         358.70         11,789.4         5,247.0         52.3         5,247.3         0.57         0.11         398,947.98           90.40         358.10         11,789.4         5,342.0         46.3         5,432.1         0.49         0.53         0.41         399,041.94           90.20         358.10         11,788.7         5,533.0         42.9	16,430	0.0	89.40	0.00	11,784.2	4,488.4			,489.0	0.89	0.54	398,094.42	730,008.90
99.60         0.10         11,786.2         4,678.4         70.2         4,678.9         0.86         0.33         398,284.42           91.10         359.40         11,784.6         4,772.4         69.8         4,772.9         0.84         1.76         398,378.41           88.30         358.20         11,786.9         4,961.3         64.1         4,961.7         0.74         1.66         398,472.38           89.40         357.70         11,788.6         5,058.2         59.8         5,058.5         0.68         0.46         398,667.29           89.50         357.70         11,788.6         5,152.1         56.1         5,152.4         0,62         0,11         398,758.11           89.50         357.70         11,789.4         5,247.0         56.1         5,437.2         0,57         0,11         398,853.03           90.40         358.50         11,789.4         5,436.9         46.3         5,436.1         0,49         0,	16,525	0.	89.90	0.00	11,784.8	4,583.4			,584.0	0.88	0.53	398,189.42	730,008.90
91.10         359.40         11,784.6         4,772.4         69.8         4,772.9         0.84         1.76         398,378.41           89.30         358.20         11,785.1         4,866.4         67.8         4,866.9         0.80         3.24         398,472.38           89.60         357.30         11,786.9         4,961.3         64.1         4,961.7         0.74         1.66         398,667.29           89.40         357.70         11,788.6         5,152.1         56.1         5,152.4         0,62         0,11         398,664.19           89.40         357.70         11,789.4         5,247.0         56.3         5,247.3         0,57         0,11         398,647.98           90.40         358.10         11,789.4         5,342.0         49.1         5,342.2         0,53         1.19         398,947.98           90.40         358.10         11,788.7         5,435.9         46.3         5,436.1         0,49	16,620	0,0	89.60	0.10	11,785.2	4,678,4			6.878.9	0.86	0.33	398,284.42	730,008.98
6B.30         358.20         11,785.1         4,866.4         67.8         4,866.9         0.80         3.24         398,472.38           89.60         357.30         11,786.9         4,961.3         64.1         4,961.7         0.74         1.66         398,567.29           89.40         357.70         11,788.6         5,058.2         59.8         5,058.5         0.68         0.46         398,664.19           89.50         357.70         11,789.4         5,152.1         56.1         5,152.4         0.62         0,11         398,758.11           89.40         358.50         11,789.4         5,342.0         49.1         5,342.2         0.57         0,11         398,947.98           90.40         358.10         11,789.4         5,435.9         46.3         5,436.1         0.49         0.49         399,041.94           90.20         357.80         11,788.2         5,530.9         42.9         5,331.0         0.49	16,714	0.	91.10	359.40	11,784.6	4,772.4			1,772.9	0.84	1.76	398,378.41	730,008.57
89.60         357.30         11,786.9         4,961.3         64.1         4,961.7         0.74         1.66         398,567.29           89.40         357.70         11,787.7         5,058.2         59.8         5,058.5         0.68         0.46         398,664.19           89.50         357.70         11,788.6         5,152.1         56.1         5,152.4         0,62         0,11         398,758.11           89.60         355.70         11,789.4         5,247.0         52.3         5,247.3         0,57         0,11         398,853.03           90.40         358.50         11,789.4         5,436.9         46.3         5,436.1         0,49         0.49         0,49	16,808	0.1	98.30	358,20	11,785.1	4,866.4			6,866,9	0.80	3.24	398,472.38	730,006.60
89.40         357.70         11,787.7         5,068.2         59.8         5,086.5         0.68         0.46         398,664.19           89.50         357.70         11,788.6         5,152.1         56.1         5,152.4         0,67         0,11         398,653.03           90.40         358.50         11,789.4         5,247.0         52.3         5,247.3         0,57         0,11         398,853.03           90.40         358.10         11,788.7         5,436.0         49.1         6,342.2         0,53         1.19         398,947.98           90.20         357.80         11,788.7         5,436.9         46.3         5,436.1         0,49         0.43         399,146.94           90.20         357.80         11,788.2         5,530.9         42.9         5,531.0         0,49         0.38         399,136.87	16,903	0.0	89.60	357.30	11,786.9	4,961.3			1,961.7	0.74	1.66	398,567.29	730,002.87
89.50         357.70         11,789.4         5,152.4         0.62         0.11         398,758,11           89,60         357.70         11,789.4         5,247.0         52,3         5,247.3         0.57         0.11         398,853.03           90,40         358.50         11,789.4         5,342.0         49.1         5,342.2         0.53         1.19         398,947.98           90,40         358.10         11,788.7         5,435.9         46.3         5,436.1         0.49         0.43         399,136.87           90,20         357.80         11,788.2         5,530.9         42.9         5,531.0         0.44         0.38         399,136.87	17,000	0.0	89.40	357.70	11,787.7	5,058.2			5,058.5	0.68	0.46	398,664.19	729,998.64
89,60         357.70         11,789.4         5,247.0         52.3         5,247.3         0.57         0,11         398,853.03           90,40         358.50         11,789.4         5,342.0         49.1         5,342.2         0.53         1.19         398,947.98           90,40         358.10         11,788.7         5,435.9         46.3         5,436.1         0.49         0.43         399,041.94           90,20         357.80         11,788.2         5,530.9         42.9         5,531.0         0.44         0.38         399,136.87	17,094	0.0	89.50	357.70	11,788.6	5,152.1			5,152.4	0.62	0.11	398,758,11	729,994.87
90.40         358.50         11,788.7         5,342.0         49.1         6,342.2         0.53         1.19         398,947.98           90.40         358.10         11,788.7         5,436.9         46.3         5,436.1         0.49         0.43         399,041.94           90.20         357.80         11,788.2         5,530.9         42.9         5,531.0         0.44         0.38         399,136.87	17,185	0,1	89,60	357.70	11,789.4	5,247.0			5,247.3	0.57	0,11	398,853,03	729,991.06
90,40         358.10         11,788.7         5,435.9         46.3         5,436.1         0.49         0.43         399,041.94           90.20         357.80         11,788.2         5,530.9         42.9         5,531.0         0.44         0.38         399,136.87	17,284	0'1	90.40	358,50	11,789.4	5,342.0			5,342.2	0.53	1.19	398,947.98	729,987.91
90.20 357.80 11,788.2 5,530.9 42.9 5,531.0 0.44 0.38 399,136.87	17,378	0.1	90.40	358.10	11,788.7	5,435.9			5,436.1	0.49	0.43	399,041,94	729,985.12
	17,473	0.0	90.20	357.80	11,788.2	5,530.9			5,531.0	0.44	0.38	399,136.87	729,981.72



Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Section 36 25-25S-31E Coltrane
Well: Coltrane 36/25 W0Pl Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

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

 Reference:
 Well Coltrane 36/25 W0PI Fed Com #1H

 3301+27 @ 3328.0usft

 3301+27 @ 3328.0usft

 Grid
 Minimum Curvature

 EDM5000

Survey		SOURCE SOURCE				L. M.S. of Paradin S. C.	Secretary Section	ATTAIN THE PERSON WITH	SHEEKeelin	
MD (fish)	inc (3)	Azi (azimuth) (°)	TVD (nsft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Distance Closure Azimuth (usft) (*)	DLeg ("/100usft)	Northing (usft)	Easting (usft)
17,568.0	89.60	357,10	11,788.4	5,625.8	e	38.7 5,625.9	6 0.39	76.0	399,231,78	729,977.49
17,662.0	90.00	358,20	11,788.7	5,719.7	ń	34.8 5,719.8	9 0.35	1.25	399,325.70	729,973.64
17.757.0	91.60	359.10	11,787.4	5,814.7	rs	32.6 5,814.7	7 0.32	1.93	399,420.66	729,971.40
17,846.0	90.40	0.00	11,785.8	5,903.6	ന	31.9 5,903.7	7 0.31	1.69	399,509.64	729,970.70
17,941.0	90.90	0.00	11,784.7	5,998.6	e	31.9 5,998.7	7 0.30	0.53	399,604,63	729,970.70
18,036.0	90.00	3.70	11,784.0	6,093.6	С	35.0 6,093.7	7 0.33	4.01	399,699,56	729,973,77
18,130.0	89.90	5.10	11,784.1	6,187.3	4	42.2 6,187.4	4 0.39	1.49	399,793.28	729,980.98
18,225.0	89.30	4.40	11,784.7	6,282.0	ĸ	50.0 6,282.2	2 0.46	0.97	399,887,95	729,988.85
18,320.0	90,30	3,50	11,785,1	6,376.7	5	56.6 6,377.0	0 0.51	1,42	399,982.72	729,995.39
18,415,0	90.00	3.90	11,784.8	6,471.5	9	62.7 6,471.8	8 0.56	0.53	400,077.53	730,001.52
18,510,0	90.10	5.10	11,784.7	6,566.2	7	70.2 6,566.6	6 0.61	1.27	400,172,23	730,008.98
18,606.0	89,20	3.00	11,785.3	6,662.0	7	77.0 6,662.4	4 0.66	2.38	400,267.98	730,015.75
18,700.0	89.10	359,60	11,786.7	6,755.9	2	79.1 6,756,4	4 0.67	3.62	400,361.93	730,017.89
18,795.0	89,90	356,50	11,787.6	6,850.9	7	75.9 6,851.3	3 0.63	3.37	400,456.86	730,014.65
18,890.0	89.90	353.30	11,787.7	6,945.5	9	67.4 6,945.8	8 0.56	3.37	400,551.48	730,006.21
18,985.0	90.20	352.60	11,787.6	7,039.8	ťΩ	55.8 7,040.0	0 0.45	08.0	400,645.76	729,994.55
19,080.0	89.50	352.50	11,787.9	7,134.0	4	43.4 7,134,1	1 0.35	0.74	400,739.95	729,982.23
19,104.0	91.00	354.50	11,787.8	7,157.8	4	40.7 7,157.9	9 0.33	10.42	400,763.80	729,979.52
19,131.7	91,00	354,50	11,787.3	7,185.4	es	38.1 7,185.5	5 0.30	00:00	400,791,38	729,976.86
<b>PBHL 1H</b> 19,143.0	91.00	354.50	11,787.1	7,196.6	n	37.0 7,196.7	7 0.29	0.00	400,802.61	729,975.78

Design Annotations				The Party of the P		- Activities			
Measured	Vertical	Local Coordinat	63						
Depth	Depth	*N-S	+E/-W						
(nsft)	(ust)	(nstt)	(nstf)	Comment					
19,143.0	11,787.1	7,196.6	37.0	19143.0' Projected to bit					



COMPANY: Mewbourne Oil Company WELL: Colirane 36/25 W0Pl Fed Com #1H COUNTY: Eddy County, N.M. Nad (83) DATUM: North American Datum 1983 RIG:Patterson 231

DIRECTIONAL OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.46°

GEODETIC ZONE: New Mexico Eastern Zone 3301+27 @ 3328.0usft GROUND ELEVATION: 3301.0 Northing Easting Latitude 393606.00 729938.80 32° 4′ 50.301 N Longitude 103° 43' 27.804 W Slot +N/-S +E/-W 32° 4' 50.301 N 393606.00 PLAN SECTIONS Dleg 0.00 Target Inc 0,00 Azi 0.00 VSect 0.0 0.0 0.0 -4.7 0.0 0.0 1.0 0.00 0.0 0.0 0.00 0.00 4250.0 4416.5 0.00 0.00 4250.0 168.13 4416.6 4 11094.9 5 11261.5 3.33 168.13 11083.5 11250.0 -384.6 -389,3 0.00 2.00 -384.1 8.08 -388,8 -388.8 81.8 180.00 BB 1H

0.00

12.00

0.00 359,71 0,00

88,4 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'

Vertical Section at 0.34° (2000 usft/in)

6 11304.0 7 12053.7

8 19151.5

0.00 89.97

0,00 359.71

89.97 359.71

11292.5 11770.0

11774.0

-389.3 87.9

7185.6

81.8 79.3

42.8 0.00

0.0

1 2 3

Magnetic Field Strength: 47616.3nT Dip Angle: 59.88° Date: 08/14/2019 Model: IGRF2015 Section 36 25 255 3/1E Coltrape 7500 1000-6750 19143.0' Projected to bit 2321' F\$L: 335' FEL PBHL 2000-6000 (250 3000-(ii) 5250 Section 36 4506;)/North(±) Start Build 2.00 4000 usft/in) Start 6678.3 hold at 4416.6 MD 250 125 250 375 500 -125 ò (2000 5000-West(-)/East(+) (250 usft/in) True Vertical Depth (2 000 -00 (1500)10005 /in) 2250 8000 1500 9000--750 36 B2PA St #1H 10000-Start Drop -2.00 11000-Start 42.5 hold at 11261.5 MD Ö 750 1500 -750 Start DLS 12,00 TFO 359,71. 19143.0' Projected to b BB 1H West(-)/East(+) (1500 usft/in) PBHL 1HT Start 7097.8 hold at 12053.7 MB LP 1H 7000 3000 4000 5000 6000 8000 1000 2000

### OCD - Artesia - REC'D 4/17/2020

Form 3160-4

# UNITED STATES

FORM APPROVED

(August 2007)	)		DEPAR BUREAU	TMENT J OF LA												y 31, 2010
	WELL (	COMPL	ETION C						AND L	.OG			5. Le N	ase Serial 1 MNM1961	No. 19	
la. Type o	f Well	Oil Well	☑ Gas V	Well [	Dry		Other						6. If	Indian, Alle	ottee o	r Tribe Name
	of Completion	No Other		☐ Work	Over	ם ם	eepen	☐ Plu	g Back	☐ Dif	f. Res	VT.	7. Ur	nit or CA A	greem	ent Name and No.
2. Name of MEWE	f Operator SOURNE OIL	. COMPA	NY E	-Mail: jlat			ACKIE L urne.cor		l				С		36/2	ell No. 5 W0PI FED COM 1
3. Address	PO BOX 5		1						lo. (include 13-5905	e area co	de)		9. AI	PI Well No.		30-015-46210
4. Location	n of Well (Rep Sec 36	port location	on clearly an	d in accor	dance v	ith Fed	leral requ	irement	s)*				Р	URPLE SA	AGE;	Exploratory WOLFCAMP
At surfa		400FSL 4	Sec	36 T25S			MР						II. S	ec., T., R., Area Sec	M., or c 36 T	Block and Survey 25S R31E Mer
At top p	prod interval r Sec	25 T25S	R31E Mer	E 346FSI NMP	L 330F	EL						-	12. C	County or P	_	13. State NM
At total		SE 2321F	SL 336FEL	te T.D. Re	eached		—т	16 Dat	e Complet	ed	_	-			DF, KI	B, RT, GL)*
14. Date S 09/02/2	2019			28/2019	caciicu			□ D 8	A X	Ready t		i.		330	01 GL	
18. Total I	•	MD TVD	19143 11788	3	9. Plug			MD TVD		122 788				lge Plug Se		MD TVD
EXEM	Electric & Oth PT FROM LO	OGGING				of each)				22. W W Di	as wel as DS rection	ll cored? T run? nal Surv	ey?	No No No No	T Yes	s (Submit analysis) s (Submit analysis) s (Submit analysis)
23. Casing a	nd Liner Reco	ord (Repo	rt all strings				In.	2	I N	of Sks. &	Т	Slurry V	701			
Hole Size	Size/G	rade	Wt. (#/ft.)	Top (MD)		ottom (MD)	_	Cemente epth		of Cemer		(BBL		Cement 7	Гор*	Amount Pulled
26.000	20.	000 K55	94.0		0	20	4				575		137		0	
17.500		375 J55	54.5		0	126	_				975		137		0	
12.250		HCL80	40.0		0	424 1184				$\overline{}$	175 325		379 351		0	
6.125		HCP110	29.0 13.5	112		1914	_				175		211		0	
0.12	4.500	101 110	10.0	,,,_		101.										
24. Tubing	Record					_					_					
Size	Depth Set (N	ID) Pa	cker Depth	(MD)	Size	Dep	th Set (N	(ID)	Packer De	pth (MD	)	Size	De	oth Set (MI	D)	Packer Depth (MD)
25. Produc	ing Intervals					26	. Perfora	tion Rec	ord		_					
7.00	ormation		Тор		Bottom		P	erforated	Interval			Size	N	lo. Holes		Perf. Status
A)	WOLFC	AMP		1652	191	_			11866 TC	19122		0.39	0	1620	OPE	N
B)											_		-		_	
C)						+					⊢		╁		_	
D)				Esta			_				_		_			
27. Acid, F	racture, Treat		lent Squeeze	EIC.					mount an	d Type o	f Mate	erial				
	Depth Interva	6 TO 191	22 17,578,8	340 GALS	SLICKV	VATER	CARRYII									
	1100	0 10 10														
-																
28. Produc	tion - Interval					-		1004		Ic				on Method	_	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF		Water BBL		iravity API	Ga Gr	avity	ľ	roducu			
01/24/2020	01/28/2020	24	- >	809.0	_	42.0	3656.0	_		_			_	FLOV	VS FR	OM WELL
Choke Size	Tbg, Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF		Water BBL	Gas: Ratio		I W	ell Statu PG\					
25/64	ction - Interva	3750.0		809	1 3	342	3656		4131		7 01	-				
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF		Water BBL		Gravity API	Ga Gr	s avity	P	roducti	on Method		
Choke	Tbg. Press.	Csg.	24 Hr.	Oil	Gas MCF		Water BBL	Gas: Ratio		W	ell Statu	s				
Size	Flwg.	Press.	Rate	BBL	WICE		عمر	Kall	,							

28h Produ	action - Interv	al C										
28b. Production - Interval C Date First Test Hours		Hours	Test	Oil	Gas	Water	Oil Gravity Corr, API		Gas Gravity	Production Method	,	
Produced	Date	Tested	Production	BBL	MCF	BBL	Con, AFI		Giavity			
Choke Size	Tbg. Press. Flwg. S1	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status			
28c. Produ	action - Interv	al 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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status			
29. Dispos	sition of Gas(S	Sold, used )	for fuel, vent	ed, etc.)								
30. Summ	ary of Porous	Zones (Inc	clude Aquife	rs):					31. Fo	ormation (Log) Markers		
Show tests,	all important : neluding dept coveries.	names of no	aracity and c	ontente there	of: Cored is tool open,	ntervals an flowing ar	d all drill-ster nd shut-in pre	n ssures				
Formation			Тор	Bottom		Descriptions, Contents, etc.				Name	Top Meas. Depth	
32. Addit	ional remarks	(include pl	11652	19143 edure):	OIL	. & GAS			T, C B D B	USTLER //SALT ASTILE //SALT ELAWARE RUSHY CANYON ONE SPRING /OLFCAMP	1060 1449 2204 4123 4335 7151 8377 11652	
33. Circle enclosed attachments:  1. Electrical/Mechanical Logs (1 full set req'd.)  2. Geologi  5. Sundry Notice for plugging and cement verification  6. Core Ar							_	t 3. DST Report 4. Directional Survey 7 Other:				
34. I here	by certify that	t the forego	oing and atta	-onic Culum	iccion #504	402 Verifi	correct as dete	M Well I	nformation S	ole records (see attached instru System.	actions):	
Name(please print) JACKIE LATHAN								Title REGULATORY				
Signature (Electronic Submission)							D	Date 02/25/2020				
Title 18 V	U.S.C. Section nited States an	1001 and y false, fict	Title 43 U.S titious or frac	.C. Section 1	212, make ents or rep	it a crime i	for any persons as to any ma	knowing atter within	ly and willful n its jurisdicti	ly to make to any department on.	or agency	