

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

EMNRD-OC D ARTESIA
REC'D: 5/06/2020

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

☒ AMENDED REPORT

As Drilled

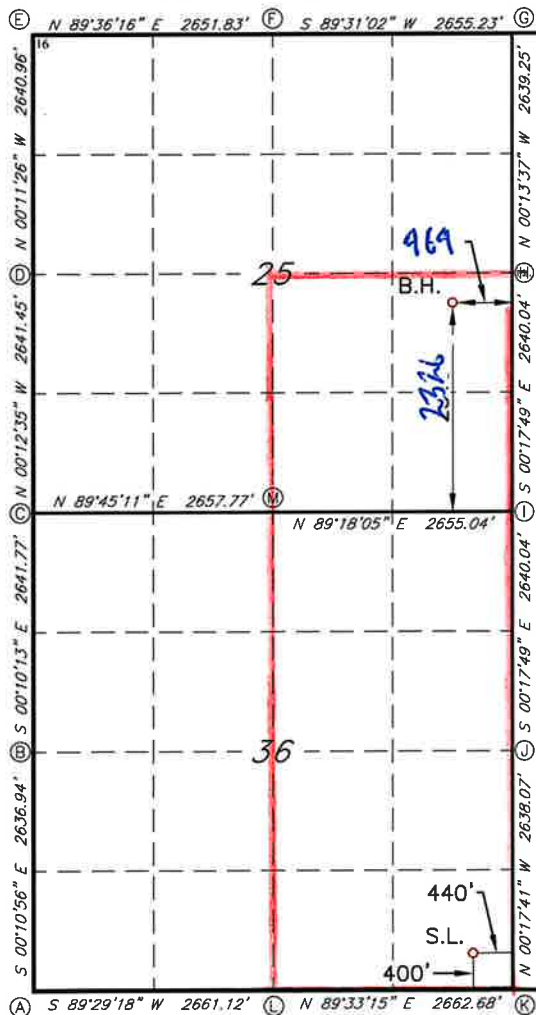
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46211	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (Gas)
⁴ Property Code 326025	⁵ Property Name COLTRANE 36/25 WIPI FEDERAL COM	
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	
		⁶ Well Number 2H
		⁹ Elevation 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	440	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		2376	SOUTH	969	EAST	EDDY
¹² Dedicated Acres 480		¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.				

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.



GEODETTIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION
N 393605.7 - E 729908.8
LAT: 32.0806390° N
LONG: 103.7244870° W
BOTTOM HOLE
N 400787.6 - E 729651.8
LAT: 32.1003844° N
LONG: 103.7251861° 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.

Signature: *Jackie Lathan* Date: **2/26/2020**
Printed Name: **Jackie Lathan**

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

5-9-18

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number





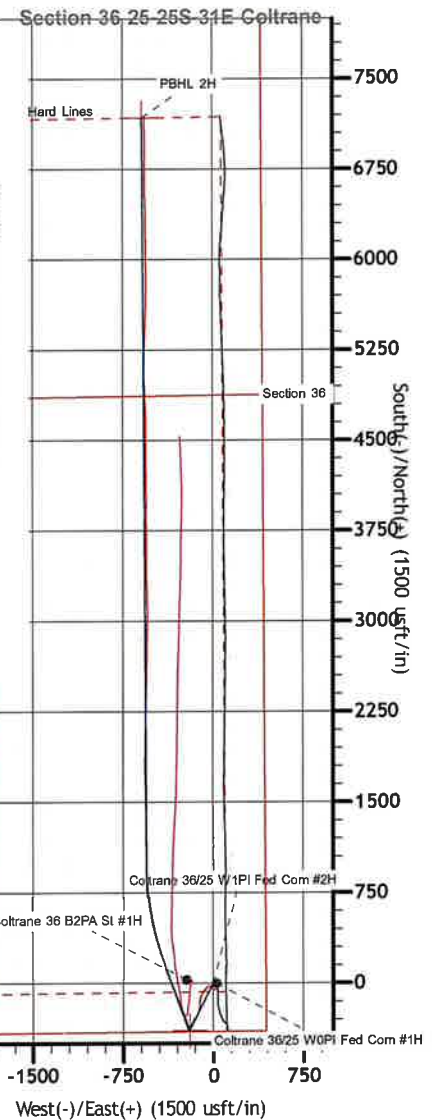
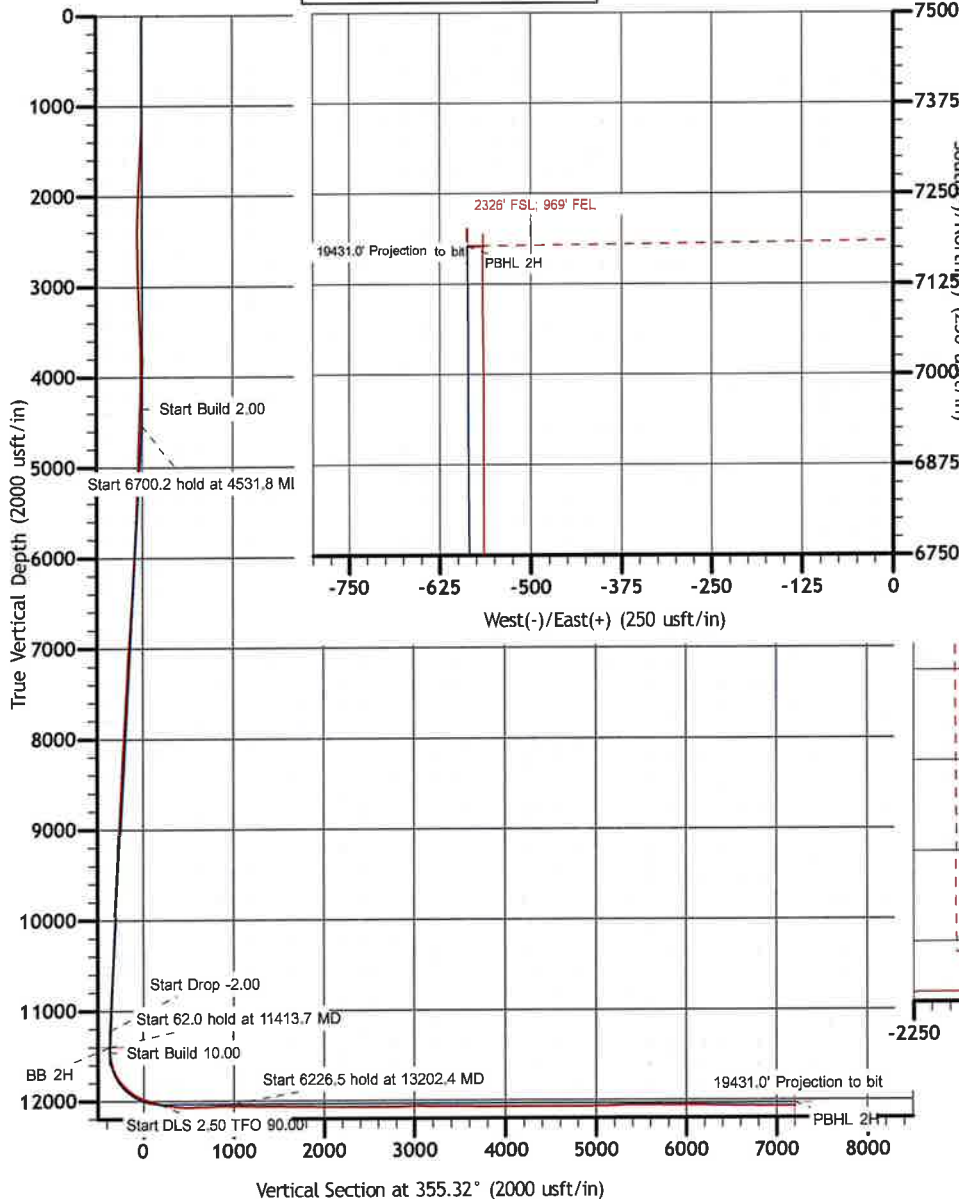
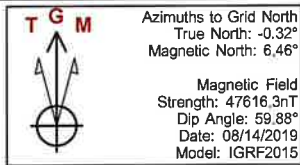
COMPANY: Mewbourne Oil Company
WELL: Coltrane 36/25 W1PI Fed Com #2H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 231



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

GEODETIC ZONE: New Mexico Eastern Zone										
3301+27 @ 3328.0usft										
GROUND ELEVATION: 3301.0										
	+N/-S	+E/-W	Northng	Easting	Latitude	Longitude	Slot			
	0,0	0,0	393605.70	729908.80	32° 4' 50.300 N	103° 43' 28.153 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	4350.0	0.00	0.00	4350.0	0.0	0.0	0.00	0.00	0.0	
3	4531.8	3.64	206.28	4531.7	-5.2	-2.6	2.00	206.28	-4.9	
4	11231.9	3.64	206.28	11218.3	-386.1	-190.6	0.00	0.00	-369.3	
5	11413.7	0.00	0.00	11400.0	-391.3	-193.2	2.00	180.00	-374.3	BB 2H
6	11475.7	0.00	0.00	11462.0	-391.3	-193.2	0.00	0.00	-374.3	
7	12375.7	90.00	339.00	12035.0	143.6	-398.5	10.00	339.00	175.6	
8	13202.4	90.00	359.67	12035.0	951.6	-550.7	2.50	90.00	993.3	
9	19428.9	90.00	359.67	12035.0	7178.0	-587.0	0.00	0.00	7202.0	PBHL 2H

SHL: 400' FSL: 440' FEL
Section 36-25S-31E
PBHL: 2310 FSL: 990' FEL
Section 25-25S-31E



Intent ☐ As Drilled ☒

API # 30-015-46211		
Operator Name: Mewbourne Oil Company	Property Name: Coltrane 36/25 W1PI Federal Com	Well Number #2H

Kick Off Point (KOP)

UL P	Section 36	Township 25S	Range 31E	Lot	Feet 15	From N/S F6L	Feet 642	From E/W FEL	County Edley
Latitude 32.0795822					Longitude -103.7251453				NAD 83

First Take Point (FTP)

UL P	Section 36	Township 25S	Range 31E	Lot	Feet 359	From N/S F6L	Feet 770	From E/W E	County Edley
Latitude 32.0805317					Longitude -103.7255525				NAD 83

Last Take Point (LTP)

UL L	Section 25	Township 25S	Range 31E	Lot	Feet 7505	From N/S F6L	Feet 969	From E/W E	County Edley
Latitude 32.1003750					Longitude -103.7261828				NAD 83

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

Is this well an infill well? ☒

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

API # 30-015-46210		
Operator Name: Mewbourne Oil Co	Property Name: Coltrane 36/25 W1PI Federal Com	Well Number 1H

KZ 06/29/2018



Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 36 25-25S-31E Coltrane

Coltrane 36/25 W1PI Fed Com #2H

Original Hole

Design: Original Hole

Standard Survey Report

24 October, 2019





Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Coltrane 36/25 W1PI Fed Com #2H
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 W1PI Fed Com #2H	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 W1PI Fed Com #2H				
Well Position	+N/-S	0.0 usft	Northing:	393,605.70 usft	Latitude: 32° 4' 50.300 N
	+E/-W	0.0 usft	Easting:	729,908.80 usft	Longitude: 103° 43' 28.153 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	47,616.31785460

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	355.51	

Survey Program	Date	10/24/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	1,172.0	Gyro Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
1,243.0	19,431.0	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	0.72	187.87	100.0	-0.6	-0.1	-0.6	0.72	0.72	0.00
200.0	0.52	192.42	200.0	-1.7	-0.3	-1.7	0.21	-0.20	4.55
300.0	0.42	228.96	300.0	-2.4	-0.6	-2.3	0.31	-0.10	36.54
400.0	0.23	230.14	400.0	-2.7	-1.1	-2.6	0.19	-0.19	1.18
500.0	0.21	174.08	500.0	-3.1	-1.2	-2.9	0.21	-0.02	-56.06
600.0	0.13	127.87	600.0	-3.3	-1.1	-3.2	0.15	-0.08	-46.21
700.0	1.51	72.47	700.0	-3.0	0.2	-3.0	1.44	1.38	-55.40
800.0	3.03	81.81	799.9	-2.2	4.1	-2.5	1.56	1.52	9.34
900.0	4.34	84.09	899.7	-1.4	10.5	-2.3	1.32	1.31	2.28



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Coltrane 36/25 W1PI Fed Com #2H
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 W1PI Fed Com #2H	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	4.14	85.59	999.4	-0.8	17.9	-2.2	0.23	-0.20	1.50
1,100.0	3.96	90.50	1,099.2	-0.5	24.9	-2.5	0.39	-0.18	4.91
1,172.0	3.88	80.46	1,171.0	-0.1	29.8	-2.5	0.96	-0.11	-13.94
First Stryker Surveys									
1,243.0	3.50	106.80	1,241.9	-0.4	34.2	-3.1	2.42	-0.54	37.10
1,433.0	3.20	158.10	1,431.6	-7.0	41.8	-10.2	1.53	-0.16	27.00
1,591.0	2.90	194.30	1,589.4	-14.9	42.4	-18.2	1.21	-0.19	22.91
1,783.0	3.00	192.60	1,781.1	-24.5	40.1	-27.6	0.07	0.05	-0.89
1,973.0	3.60	184.20	1,970.8	-35.3	38.6	-38.3	0.40	0.32	-4.42
2,162.0	4.10	235.40	2,159.4	-45.1	32.6	-47.5	1.78	0.26	27.09
2,352.0	3.40	269.10	2,349.0	-49.0	21.4	-50.6	1.20	-0.37	17.74
2,541.0	3.60	261.30	2,537.7	-50.0	9.9	-50.7	0.27	0.11	-4.13
2,730.0	1.70	336.60	2,726.5	-48.4	2.9	-48.4	1.89	-1.01	39.84
2,920.0	2.00	329.90	2,916.4	-42.9	0.2	-42.8	0.19	0.16	-3.53
3,109.0	2.20	313.30	3,105.3	-37.6	-4.1	-37.1	0.34	0.11	-8.78
3,299.0	2.50	323.00	3,295.1	-31.7	-9.3	-30.9	0.26	0.16	5.11
3,487.0	2.50	315.00	3,482.9	-25.6	-14.6	-24.3	0.19	0.00	-4.26
3,676.0	2.30	301.10	3,671.8	-20.7	-20.8	-19.0	0.32	-0.11	-7.35
3,865.0	1.60	291.10	3,860.7	-17.8	-26.5	-15.7	0.41	-0.37	-5.29
4,055.0	1.70	236.60	4,050.6	-18.4	-31.3	-15.9	0.80	0.05	-28.68
4,204.0	2.10	230.90	4,199.5	-21.3	-35.3	-18.5	0.30	0.27	-3.83
4,253.0	2.20	230.70	4,248.5	-22.5	-36.7	-19.5	0.20	0.20	-0.41
4,347.0	3.60	222.80	4,342.4	-25.8	-40.1	-22.6	1.55	1.49	-8.40
4,536.0	3.40	225.50	4,531.0	-34.1	-48.2	-30.2	0.14	-0.11	1.43
4,726.0	3.00	225.50	4,720.7	-41.5	-55.7	-37.0	0.21	-0.21	0.00
4,915.0	2.90	223.80	4,909.5	-48.4	-62.6	-43.4	0.07	-0.05	-0.90
5,103.0	2.90	224.80	5,097.2	-55.2	-69.2	-49.6	0.03	0.00	0.53
5,293.0	3.10	222.90	5,287.0	-62.4	-76.1	-56.3	0.12	0.11	-1.00
5,483.0	2.80	220.70	5,476.7	-69.7	-82.6	-63.0	0.17	-0.16	-1.16
5,674.0	3.20	200.10	5,667.5	-78.2	-87.5	-71.1	0.60	0.21	-10.79
5,862.0	3.50	199.60	5,855.1	-88.6	-91.2	-81.2	0.16	0.16	-0.27
6,049.0	3.40	201.90	6,041.8	-99.1	-95.2	-91.3	0.09	-0.05	1.23
6,238.0	3.40	207.60	6,230.5	-109.3	-99.9	-101.1	0.18	0.00	3.02
6,428.0	3.80	188.80	6,420.1	-120.5	-103.5	-112.0	0.65	0.21	-9.89
6,615.0	4.00	187.60	6,606.7	-133.1	-105.3	-124.4	0.12	0.11	-0.64
6,804.0	4.00	183.30	6,795.2	-146.2	-106.5	-137.4	0.16	0.00	-2.28
6,993.0	4.00	182.70	6,983.7	-159.3	-107.2	-150.5	0.02	0.00	-0.32
7,181.0	3.60	182.90	7,171.3	-171.8	-107.8	-162.8	0.21	-0.21	0.11
7,370.0	3.20	184.80	7,360.0	-183.0	-108.6	-173.9	0.22	-0.21	1.01
7,559.0	2.90	189.20	7,548.7	-192.9	-109.8	-183.8	0.20	-0.16	2.33
7,748.0	2.90	187.10	7,737.5	-202.4	-111.1	-193.1	0.06	0.00	-1.11
7,937.0	4.50	194.70	7,926.1	-214.3	-113.6	-204.8	0.88	0.85	4.02
8,126.0	4.00	195.20	8,114.6	-227.9	-117.2	-218.0	0.27	-0.26	0.26



Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Coltrane 36/25 W1PI Fed Com #2H
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 W1PI Fed Com #2H	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)	
8,315.0	3.50	192.80	8,303.2	-239.8	-120.2	-229.7	0.28	-0.26	-1.27	
8,505.0	2.50	193.90	8,492.9	-249.5	-122.5	-239.2	0.53	-0.53	0.58	
8,695.0	3.10	207.80	8,682.7	-258.1	-125.9	-247.4	0.47	0.32	7.32	
8,884.0	2.50	206.60	8,871.4	-266.3	-130.1	-255.3	0.32	-0.32	-0.63	
9,073.0	3.30	207.90	9,060.2	-274.8	-134.5	-263.4	0.42	0.42	0.69	
9,263.0	2.80	234.90	9,249.9	-282.3	-140.9	-270.4	0.79	-0.26	14.21	
9,451.0	4.20	216.50	9,437.6	-290.5	-148.7	-277.9	0.95	0.74	-9.79	
9,640.0	4.00	215.20	9,626.1	-301.4	-156.6	-288.2	0.12	-0.11	-0.69	
9,829.0	3.20	200.60	9,814.7	-311.7	-162.3	-298.1	0.64	-0.42	-7.72	
10,018.0	4.20	209.80	10,003.3	-322.7	-167.6	-308.6	0.61	0.53	4.87	
10,206.0	3.80	207.10	10,190.9	-334.2	-173.8	-319.6	0.24	-0.21	-1.44	
10,396.0	3.10	226.80	10,380.5	-343.3	-180.5	-328.1	0.72	-0.37	10.37	
10,585.0	2.70	235.20	10,569.3	-349.4	-187.8	-333.6	0.31	-0.21	4.44	
10,774.0	3.30	199.90	10,758.1	-357.0	-193.3	-340.8	1.01	0.32	-18.68	
10,963.0	2.20	206.00	10,946.8	-365.4	-196.8	-348.9	0.60	-0.58	3.23	
11,151.0	2.40	198.70	11,134.7	-372.4	-199.6	-355.6	0.19	0.11	-3.88	
11,341.0	2.50	184.80	11,324.5	-380.3	-201.3	-363.3	0.32	0.05	-7.32	
11,425.0	2.20	184.60	11,408.4	-383.7	-201.5	-366.7	0.36	-0.36	-0.24	
11,455.0	2.10	181.00	11,438.4	-384.8	-201.6	-367.8	0.56	-0.33	-12.00	
11,486.0	0.70	234.10	11,469.4	-385.5	-201.8	-368.5	5.71	-4.52	171.29	
11,518.0	4.00	327.30	11,501.4	-384.7	-202.5	-367.6	12.81	10.31	291.25	
11,550.0	7.70	335.00	11,533.2	-381.8	-204.0	-364.6	11.79	11.56	24.06	
11,581.0	11.50	339.80	11,563.8	-377.0	-206.0	-359.7	12.52	12.26	15.48	
11,613.0	15.40	341.60	11,594.9	-370.0	-208.4	-352.5	12.26	12.19	5.63	
11,645.0	19.20	341.50	11,625.4	-361.0	-211.4	-343.3	11.88	11.88	-0.31	
11,676.0	22.50	339.40	11,654.4	-350.6	-215.1	-332.6	10.91	10.65	-6.77	
11,708.0	25.60	337.50	11,683.6	-338.5	-219.9	-320.2	9.98	9.69	-5.94	
11,739.0	29.10	337.90	11,711.2	-325.3	-225.3	-306.6	11.31	11.29	1.29	
11,771.0	32.10	339.90	11,738.7	-310.1	-231.2	-291.0	9.90	9.38	6.25	
11,802.0	34.40	341.20	11,764.6	-294.1	-236.8	-274.6	7.77	7.42	4.19	
11,834.0	37.60	341.30	11,790.5	-276.2	-242.9	-256.4	10.00	10.00	0.31	
11,865.0	40.70	340.40	11,814.5	-257.8	-249.3	-237.4	10.17	10.00	-2.90	
11,897.0	44.80	339.40	11,838.0	-237.4	-256.8	-216.5	12.99	12.81	-3.13	
11,928.0	48.10	339.10	11,859.4	-216.4	-264.7	-194.9	10.67	10.65	-0.97	
11,960.0	50.70	339.30	11,880.2	-193.6	-273.4	-171.6	8.14	8.13	0.63	
11,991.0	53.70	339.00	11,899.2	-170.8	-282.1	-148.1	9.71	9.68	-0.97	
12,023.0	57.70	338.90	11,917.2	-146.1	-291.6	-122.8	12.50	12.50	-0.31	
12,054.0	60.60	339.80	11,933.1	-121.2	-301.0	-97.2	9.68	9.35	2.90	
12,086.0	63.00	340.20	11,948.3	-94.7	-310.6	-70.1	7.58	7.50	1.25	
12,118.0	65.20	340.60	11,962.2	-67.6	-320.3	-42.3	6.97	6.88	1.25	
12,149.0	67.60	340.10	11,974.6	-40.8	-329.8	-14.9	7.88	7.74	-1.61	
12,233.0	72.50	338.60	12,003.3	33.0	-357.7	61.0	6.07	5.83	-1.79	
12,264.0	74.10	338.20	12,012.2	60.6	-368.6	89.3	5.31	5.16	-1.29	



Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Coltrane 36/25 W1PI Fed Com #2H
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 W1PI Fed Com #2H	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)
12,296.0	75.30	338.60	12,020.7	89.3	-380.0	118.8	3.94	3.75	1.25
12,327.0	76.50	338.90	12,028.2	117.4	-390.9	147.6	3.98	3.87	0.97
12,359.0	77.80	339.10	12,035.3	146.5	-402.0	177.5	4.11	4.06	0.63
12,390.0	78.90	339.60	12,041.6	174.9	-412.7	206.7	3.88	3.55	1.61
12,422.0	79.80	340.70	12,047.5	204.5	-423.4	237.0	4.40	2.81	3.44
12,453.0	80.60	341.70	12,052.8	233.4	-433.3	266.6	4.09	2.58	3.23
12,485.0	81.80	341.50	12,057.7	263.4	-443.2	297.3	3.80	3.75	-0.63
12,516.0	82.70	342.50	12,061.8	292.6	-452.7	327.2	4.32	2.90	3.23
12,547.0	84.50	343.00	12,065.3	322.0	-461.9	357.2	6.02	5.81	1.61
12,579.0	86.30	342.50	12,067.9	352.5	-471.3	388.3	5.84	5.63	-1.56
12,610.0	88.80	344.40	12,069.2	382.2	-480.1	418.6	10.13	8.06	6.13
12,642.0	91.10	345.30	12,069.2	413.1	-488.5	450.1	7.72	7.19	2.81
12,674.0	92.20	346.00	12,068.3	444.0	-496.4	481.6	4.07	3.44	2.19
12,768.0	91.70	349.40	12,065.1	535.8	-516.4	574.6	3.65	-0.53	3.62
12,863.0	91.80	352.00	12,062.2	629.5	-531.8	669.3	2.74	0.11	2.74
12,957.0	92.00	352.90	12,059.1	722.7	-544.1	763.1	0.98	0.21	0.96
13,052.0	90.90	358.50	12,056.7	817.3	-551.3	858.0	6.01	-1.16	5.89
13,146.0	89.80	0.00	12,056.1	911.3	-552.5	951.8	1.98	-1.17	1.60
13,241.0	89.00	359.00	12,057.1	1,006.3	-553.3	1,046.6	1.35	-0.84	-1.05
13,335.0	89.30	359.10	12,058.5	1,100.3	-554.9	1,140.4	0.34	0.32	0.11
13,430.0	89.30	359.00	12,059.7	1,195.2	-556.4	1,235.2	0.11	0.00	-0.11
13,524.0	89.90	0.80	12,060.3	1,289.2	-556.6	1,328.9	2.02	0.64	1.91
13,618.0	89.10	359.10	12,061.1	1,383.2	-556.7	1,422.6	2.00	-0.85	-1.81
13,713.0	89.60	358.80	12,062.2	1,478.2	-558.4	1,517.4	0.61	0.53	-0.32
13,807.0	89.60	359.20	12,062.9	1,572.2	-560.1	1,611.2	0.43	0.00	0.43
13,902.0	89.70	359.10	12,063.4	1,667.2	-561.5	1,706.1	0.15	0.11	-0.11
13,997.0	89.40	358.60	12,064.2	1,762.2	-563.4	1,800.9	0.61	-0.32	-0.53
14,091.0	87.60	359.80	12,066.7	1,856.1	-564.7	1,894.7	2.30	-1.91	1.28
14,186.0	90.20	1.20	12,068.5	1,951.1	-563.9	1,989.3	3.11	2.74	1.47
14,281.0	90.20	1.40	12,068.1	2,046.1	-561.7	2,083.8	0.21	0.00	0.21
14,375.0	90.20	0.50	12,067.8	2,140.0	-560.2	2,177.4	0.96	0.00	-0.96
14,469.0	90.00	1.60	12,067.7	2,234.0	-558.4	2,270.9	1.19	-0.21	1.17
14,563.0	90.30	1.10	12,067.4	2,328.0	-556.2	2,364.4	0.62	0.32	-0.53
14,658.0	90.20	1.70	12,067.0	2,423.0	-553.9	2,458.9	0.64	-0.11	0.63
14,753.0	90.00	1.00	12,066.8	2,517.9	-551.7	2,553.4	0.77	-0.21	-0.74
14,848.0	89.80	0.60	12,067.0	2,612.9	-550.3	2,648.0	0.47	-0.21	-0.42
14,943.0	90.40	0.70	12,066.8	2,707.9	-549.3	2,742.6	0.64	0.63	0.11
15,037.0	90.60	1.00	12,066.0	2,801.9	-547.9	2,836.2	0.38	0.21	0.32
15,132.0	91.60	2.00	12,064.2	2,896.9	-545.4	2,930.7	1.49	1.05	1.05
15,226.0	91.20	1.00	12,061.9	2,990.8	-542.9	3,024.1	1.15	-0.43	-1.06
15,321.0	88.00	357.90	12,062.5	3,085.8	-543.8	3,118.9	4.69	-3.37	-3.26
15,415.0	89.60	359.30	12,064.5	3,179.7	-546.1	3,212.7	2.26	1.70	1.49
15,510.0	89.70	358.90	12,065.1	3,274.7	-547.6	3,307.5	0.43	0.11	-0.42
15,605.0	89.20	358.20	12,066.0	3,369.7	-550.0	3,402.4	0.91	-0.53	-0.74



Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Coltrane 36/25 W1PI Fed Com #2H
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 W1PI Fed Com #2H	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)
15,700.0	90.80	0.90	12,066.0	3,464.6	-550.8	3,497.2	3.30	1.68	2.84
15,795.0	90.00	0.30	12,065.3	3,559.6	-549.8	3,591.8	1.05	-0.84	-0.63
15,889.0	89.50	359.40	12,065.8	3,653.6	-550.0	3,685.5	1.10	-0.53	-0.96
15,984.0	88.80	359.00	12,067.2	3,748.6	-551.3	3,780.3	0.85	-0.74	-0.42
16,078.0	90.50	0.00	12,067.7	3,842.6	-552.2	3,874.1	2.10	1.81	1.06
16,172.0	88.50	0.70	12,068.6	3,936.6	-551.6	3,967.7	2.25	-2.13	0.74
16,266.0	89.90	359.10	12,069.9	4,030.6	-551.8	4,061.4	2.26	1.49	-1.70
16,361.0	90.30	359.70	12,069.7	4,125.6	-552.7	4,156.2	0.76	0.42	0.63
16,455.0	90.60	358.60	12,069.0	4,219.6	-554.1	4,250.0	1.21	0.32	-1.17
16,550.0	88.40	359.30	12,069.8	4,314.5	-555.9	4,344.8	2.43	-2.32	0.74
16,645.0	88.70	358.80	12,072.2	4,409.5	-557.5	4,439.6	0.61	0.32	-0.53
16,739.0	90.40	0.60	12,072.9	4,503.5	-557.9	4,533.4	2.63	1.81	1.91
16,833.0	92.30	1.00	12,070.7	4,597.4	-556.6	4,626.9	2.07	2.02	0.43
16,928.0	89.60	358.10	12,069.1	4,692.4	-557.4	4,721.7	4.17	-2.84	-3.05
17,023.0	90.40	357.50	12,069.1	4,787.3	-561.0	4,816.6	1.05	0.84	-0.63
17,117.0	91.80	358.10	12,067.3	4,881.2	-564.6	4,910.5	1.62	1.49	0.64
17,212.0	89.90	357.30	12,065.9	4,976.2	-568.4	5,005.4	2.17	-2.00	-0.84
17,306.0	91.70	359.20	12,064.6	5,070.1	-571.3	5,099.3	2.78	1.91	2.02
17,403.0	92.60	1.40	12,061.0	5,167.0	-570.8	5,195.9	2.45	0.93	2.27
17,498.0	90.90	1.90	12,058.1	5,261.9	-568.1	5,290.3	1.87	-1.79	0.53
17,593.0	90.60	1.10	12,056.8	5,356.9	-565.6	5,384.7	0.90	-0.32	-0.84
17,687.0	90.60	2.60	12,055.9	5,450.8	-562.6	5,478.1	1.60	0.00	1.60
17,782.0	89.30	2.10	12,055.9	5,545.7	-558.7	5,572.5	1.47	-1.37	-0.53
17,876.0	89.20	0.60	12,057.2	5,639.7	-556.4	5,666.0	1.60	-0.11	-1.60
17,971.0	89.60	1.50	12,058.2	5,734.7	-554.7	5,760.5	1.04	0.42	0.95
18,066.0	90.00	359.80	12,058.5	5,829.7	-553.6	5,855.1	1.84	0.42	-1.79
18,160.0	89.50	358.70	12,058.9	5,923.7	-554.9	5,948.9	1.29	-0.53	-1.17
18,254.0	89.80	359.40	12,059.5	6,017.6	-556.4	6,042.7	0.81	0.32	0.74
18,349.0	89.60	359.30	12,060.0	6,112.6	-557.5	6,137.5	0.24	-0.21	-0.11
18,444.0	89.60	359.90	12,060.6	6,207.6	-558.2	6,232.3	0.63	0.00	0.63
18,538.0	89.70	359.20	12,061.2	6,301.6	-558.9	6,326.1	0.75	0.11	-0.74
18,633.0	89.30	358.90	12,062.0	6,396.6	-560.5	6,420.9	0.53	-0.42	-0.32
18,728.0	89.40	359.10	12,063.1	6,491.6	-562.1	6,515.7	0.24	0.11	0.21
18,823.0	89.50	359.10	12,064.0	6,586.6	-563.6	6,610.5	0.11	0.11	0.00
18,919.0	89.60	359.80	12,064.8	6,682.6	-564.5	6,706.3	0.74	0.10	0.73
19,014.0	89.10	0.00	12,065.9	6,777.6	-564.7	6,801.0	0.57	-0.53	0.21
19,109.0	89.60	0.00	12,066.9	6,872.6	-564.7	6,895.7	0.53	0.53	0.00
19,203.0	89.80	359.90	12,067.4	6,966.6	-564.8	6,989.4	0.24	0.21	-0.11
19,298.0	89.10	359.30	12,068.3	7,061.5	-565.5	7,084.1	0.97	-0.74	-0.63
19,393.0	89.80	0.30	12,069.3	7,156.5	-565.8	7,178.9	1.28	0.74	1.05
19,396.0	89.80	0.40	12,069.3	7,159.5	-565.8	7,181.9	3.33	0.00	3.33
19,431.0	89.80	0.40	12,069.4	7,194.5	-565.5	7,216.7	0.00	0.00	0.00
19431.0' Projection to bit									



Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Coltrane 36/25 W1PI Fed Com #2H
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 W1PI Fed Com #2H	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)

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,172.0	1,171.0	-0.1	29.8	First Stryker Surveys
19,431.0	12,069.4	7,194.5	-565.5	19431.0' Projection to bit

Checked By: _____	Approved By: _____	Date: _____
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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 W1PI Federal Com #002H
Purple Sage; Wolfcamp
Eddy County, New Mexico
API# 30-015-46211

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

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Glenn Thompson	Original Hole	1,243ft. to 19,396ft.	10-03-19 to 10-24-19	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 W1PI Fed Com #2H\191171

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 October 3, 2019, through October 24, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,243 feet to a depth of 19,396 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Coltrane 36 25 W1PI Federal Com #002H, well API # **30-015-46211** in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

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

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

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



Stryker Energy Directional Services

Survey Report Landscape



Company: Newbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 36 25-25S-31E Collrane
Well: Collrane 36/25 WIPI Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Collrane 36/25 WIPI Fed Com #2H
TVD Reference: 3301+27 @ 3328.0usft
MD Reference: 3301+27 @ 3328.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey Program **Date** 10/24/19

From **To** **Survey (Wellbore)**

Tool Name **Description**

100.0 1,172.0 Gyro Surveys (Original Hole) SRG-GYRO-MS
1,243.0 19,431.0 Stryker Surveys (Original Hole) MWD

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	0.0	0.00	393,605.70	729,908.80
	100.0	0.72	187.87	100.0	-0.6	-0.1	0.6	187.87	0.72	393,605.08	729,908.71
	200.0	0.52	192.42	200.0	-1.7	-0.3	1.7	189.08	0.21	393,604.01	729,908.53
	300.0	0.42	228.96	300.0	-2.4	-0.6	2.5	195.18	0.31	393,603.33	729,908.16
	400.0	0.23	230.14	400.0	-2.7	-1.1	2.9	201.40	0.19	393,602.96	729,907.73
	500.0	0.21	174.08	500.0	-3.1	-1.2	3.3	201.62	0.21	393,602.65	729,907.59
	600.0	0.13	127.87	600.0	-3.3	-1.1	3.5	198.43	0.15	393,602.40	729,907.70
	700.0	1.51	72.47	700.0	-3.0	0.2	3.0	175.29	1.44	393,602.72	729,909.05
	800.0	3.03	81.81	799.9	-2.2	4.1	4.7	118.15	1.56	393,603.50	729,912.92
	900.0	4.34	84.09	899.7	-1.4	10.5	10.6	97.80	1.32	393,604.26	729,919.30
	1,000.0	4.14	85.59	999.4	-0.8	17.9	17.9	92.47	0.23	393,604.93	729,926.66
	1,100.0	3.96	90.50	1,099.2	-0.5	24.9	24.9	91.20	0.39	393,605.18	729,933.71
	1,172.0	3.88	80.46	1,171.0	-0.1	29.8	29.8	90.27	0.96	393,605.56	729,938.60
First Stryker Surveys											
	1,243.0	3.50	106.80	1,241.9	-0.4	34.2	34.2	90.62	2.42	393,605.33	729,943.04
	1,433.0	3.20	158.10	1,431.6	-7.0	41.8	42.4	99.47	1.53	393,598.73	729,950.58
	1,591.0	2.90	194.30	1,589.4	-14.9	42.4	45.0	109.39	1.21	393,590.77	729,951.23
	1,783.0	3.00	192.60	1,781.1	-24.5	40.1	47.0	121.44	0.07	393,581.16	729,948.94
	1,973.0	3.60	184.20	1,970.8	-35.3	38.6	52.3	132.47	0.40	393,570.36	729,947.42
	2,162.0	4.10	235.40	2,159.4	-45.1	32.6	55.7	144.12	1.78	393,560.60	729,941.42
	2,352.0	3.40	269.10	2,349.0	-49.0	21.4	53.5	156.43	1.20	393,556.65	729,930.19



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 38 25-25S-31E Coltrane
Well: Coltrane 36/25 W1PI Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Coltrane 36/25 W1PI Fed Com #2H
TVD Reference: 3301+27 @ 3328.0usft
MD Reference: 3301+27 @ 3328.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
	2,541.0	3.60	261.30	2,537.7	-50.0	-50.0	9.9	51.0	0.27	393,555.67	729,918.72
	2,730.0	1.70	336.60	2,726.5	-48.4	-48.4	2.9	48.4	1.89	393,557.34	729,911.74
	2,920.0	2.00	329.90	2,916.4	-42.9	-42.9	0.2	42.9	0.19	393,562.80	729,908.96
	3,109.0	2.20	313.30	3,105.3	-37.6	-37.6	-4.1	37.8	0.34	393,568.14	729,904.67
	3,299.0	2.50	323.00	3,295.1	-31.7	-31.7	-9.3	33.1	0.26	393,573.95	729,899.52
	3,487.0	2.50	315.00	3,482.9	-25.6	-25.6	-14.6	29.5	0.19	393,580.12	729,894.15
	3,676.0	2.30	301.10	3,671.8	-20.7	-20.7	-20.8	29.4	0.32	393,585.00	729,887.99
	3,865.0	1.60	291.10	3,860.7	-17.8	-17.8	-26.5	31.9	0.41	393,587.91	729,882.28
	4,055.0	1.70	236.60	4,050.6	-18.4	-18.4	-31.3	36.3	0.80	393,587.31	729,877.45
	4,204.0	2.10	230.90	4,199.5	-21.3	-21.3	-35.3	41.3	0.30	393,584.37	729,873.49
	4,253.0	2.20	230.70	4,248.5	-22.5	-22.5	-36.7	43.1	0.20	393,583.21	729,872.06
	4,347.0	3.60	222.80	4,342.4	-25.8	-25.8	-40.1	47.7	1.55	393,579.90	729,868.66
	4,536.0	3.40	225.50	4,531.0	-34.1	-34.1	-48.2	59.0	0.14	393,571.62	729,860.63
	4,728.0	3.00	225.50	4,720.7	-41.5	-41.5	-55.7	69.5	0.21	393,564.19	729,853.07
	4,915.0	2.90	223.80	4,909.5	-48.4	-48.4	-62.6	79.1	0.07	393,557.27	729,846.23
	5,103.0	2.90	224.80	5,097.2	-55.2	-55.2	-69.2	88.6	0.03	393,550.46	729,839.59
	5,293.0	3.10	222.90	5,287.0	-62.4	-62.4	-76.1	98.4	0.12	393,543.29	729,832.71
	5,483.0	2.80	220.70	5,476.7	-69.7	-69.7	-82.6	108.1	0.17	393,536.01	729,826.18
	5,674.0	3.20	200.10	5,667.5	-78.2	-78.2	-87.5	117.4	0.60	393,527.46	729,821.31
	5,862.0	3.50	199.60	5,855.1	-88.6	-88.6	-91.2	127.1	0.16	393,517.13	729,817.58
	6,049.0	3.40	201.90	6,041.8	-99.1	-99.1	-95.2	137.4	0.09	393,506.61	729,813.60
	6,238.0	3.40	207.60	6,230.5	-109.3	-109.3	-99.9	148.0	0.18	393,496.44	729,808.91
	6,428.0	3.80	188.80	6,420.1	-120.5	-120.5	-103.5	158.8	0.65	393,485.22	729,805.34
	6,615.0	4.00	187.60	6,606.7	-133.1	-133.1	-105.3	169.7	0.12	393,472.64	729,803.53
	6,804.0	4.00	183.30	6,795.2	-146.2	-146.2	-106.5	180.9	0.16	393,459.52	729,802.27
	6,993.0	4.00	182.70	6,983.7	-159.3	-159.3	-107.2	192.1	0.02	393,446.36	729,801.58
	7,181.0	3.60	182.90	7,171.3	-171.8	-171.8	-107.8	202.8	0.21	393,433.91	729,800.98



Stryker Energy Directional Services

Survey Report Landscape



Company: Newbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 36 25-25S-31E Coltrane
Well: Coltrane 36/25 W1P1 Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Coltrane 36/25 W1P1 Fed Com #2H
TVD Reference: 3301+27 @ 3328.0usft
MD Reference: 3301+27 @ 3328.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
	7,370.0	3.20	184.80	7,360.0	-183.0	-108.6	212.8	210.68	0.22	393,422.73	729,800.24
	7,559.0	2.90	189.20	7,548.7	-192.9	-109.8	222.0	209.84	0.20	393,412.75	729,799.03
	7,748.0	2.90	187.10	7,737.5	-202.4	-111.1	230.9	208.77	0.06	393,403.29	729,797.67
	7,937.0	4.50	194.70	7,926.1	-214.3	-113.6	242.6	207.92	0.88	393,391.37	729,795.20
	8,126.0	4.00	195.20	8,114.6	-227.9	-117.2	256.2	207.22	0.27	393,377.84	729,791.59
	8,315.0	3.50	192.80	8,303.2	-239.8	-120.2	268.3	206.62	0.28	393,365.85	729,788.59
	8,505.0	2.50	193.90	8,492.9	-249.5	-122.5	278.0	206.15	0.53	393,356.17	729,786.30
	8,695.0	3.10	207.80	8,682.7	-258.1	-125.9	287.2	206.00	0.47	393,347.60	729,782.91
	8,884.0	2.50	206.60	8,871.4	-266.3	-130.1	296.4	206.04	0.32	393,339.40	729,778.68
	9,073.0	3.30	207.90	9,060.2	-274.8	-134.5	305.9	206.08	0.42	393,330.91	729,774.29
	9,263.0	2.80	234.90	9,249.9	-282.3	-140.9	315.5	206.52	0.79	393,323.40	729,767.94
	9,451.0	4.20	216.50	9,437.6	-290.5	-148.7	326.3	207.11	0.95	393,315.23	729,760.08
	9,640.0	4.00	215.20	9,626.1	-301.4	-156.6	339.7	207.46	0.12	393,304.28	729,752.17
	9,829.0	3.20	200.60	9,814.7	-311.7	-162.3	351.5	207.50	0.64	393,293.95	729,746.51
	10,018.0	4.20	209.80	10,003.3	-322.7	-167.6	363.6	207.44	0.61	393,283.01	729,741.22
	10,206.0	3.80	207.10	10,190.9	-334.2	-173.8	376.7	207.48	0.24	393,271.49	729,734.96
	10,396.0	3.10	226.80	10,380.5	-343.3	-180.5	387.9	207.73	0.72	393,262.37	729,728.34
	10,585.0	2.70	235.20	10,569.3	-349.4	-187.8	396.7	208.26	0.31	393,256.33	729,720.96
	10,774.0	3.30	199.90	10,758.1	-357.0	-193.3	406.0	208.44	1.01	393,248.67	729,715.45
	10,963.0	2.20	206.00	10,946.8	-365.4	-196.8	415.0	208.30	0.60	393,240.30	729,712.01
	11,151.0	2.40	198.70	11,134.7	-372.4	-199.6	422.5	208.20	0.19	393,233.32	729,709.17
	11,341.0	2.50	184.80	11,324.5	-380.3	-201.3	430.2	207.89	0.32	393,225.43	729,707.55
	11,425.0	2.20	184.60	11,408.4	-383.7	-201.5	433.4	207.71	0.36	393,221.99	729,707.26
	11,455.0	2.10	181.00	11,438.4	-384.8	-201.6	434.4	207.65	0.56	393,220.87	729,707.21
	11,486.0	0.70	234.10	11,469.4	-385.5	-201.8	435.1	207.63	5.71	393,220.19	729,707.04
	11,518.0	4.00	327.30	11,501.4	-384.7	-202.5	434.7	207.76	12.81	393,221.02	729,706.28
	11,550.0	7.70	335.00	11,533.2	-381.8	-204.0	432.9	208.12	11.79	393,223.90	729,704.77



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 36 25-25S-31E Coltrane
Well: Coltrane 36/25 W1PI Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Coltrane 36/25 W1PI Fed Com #2H
TVD Reference: 3301+27 @ 3328.0usft
MD Reference: 3301+27 @ 3328.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
11,581.0	11.50	339.80	11,563.8	-377.0	-206.0	429.6	208.65	12.52	393,228.68	729,702.83
11,613.0	15.40	341.60	11,594.9	-370.0	-208.4	424.7	209.39	12.26	393,235.71	729,700.38
11,645.0	19.20	341.50	11,625.4	-361.0	-211.4	418.3	210.36	11.88	393,244.74	729,697.37
11,676.0	22.50	339.40	11,654.4	-350.6	-215.1	411.3	211.54	10.91	393,255.13	729,693.67
11,708.0	25.60	337.50	11,683.6	-338.5	-219.9	403.6	213.02	9.98	393,267.25	729,688.87
11,739.0	29.10	337.90	11,711.2	-325.3	-225.3	395.7	214.71	11.31	393,280.42	729,683.47
11,771.0	32.10	339.90	11,738.7	-310.1	-231.2	386.8	216.71	9.90	393,295.62	729,677.61
11,802.0	34.40	341.20	11,764.6	-294.1	-236.8	377.6	218.85	7.77	393,311.65	729,671.96
11,834.0	37.60	341.30	11,790.5	-276.2	-242.9	367.8	221.32	10.00	393,329.46	729,665.92
11,865.0	40.70	340.40	11,814.5	-257.8	-249.3	358.6	224.05	10.17	393,347.94	729,659.49
11,897.0	44.80	339.40	11,838.0	-237.4	-256.8	349.7	227.25	12.99	393,368.33	729,652.02
11,928.0	48.10	339.10	11,859.4	-216.4	-264.7	341.9	230.74	10.67	393,389.34	729,644.06
11,960.0	50.70	339.30	11,880.2	-193.6	-273.4	335.0	234.69	8.14	393,412.05	729,635.44
11,991.0	53.70	339.00	11,899.2	-170.8	-282.1	329.7	238.81	9.71	393,434.94	729,626.72
12,023.0	57.70	338.90	11,917.2	-146.1	-291.6	326.1	243.39	12.50	393,459.61	729,617.22
12,054.0	60.60	339.80	11,933.1	-121.2	-301.0	324.4	248.07	9.68	393,484.51	729,607.84
12,086.0	63.00	340.20	11,948.3	-94.7	-310.6	324.7	253.05	7.58	393,511.01	729,596.20
12,118.0	65.20	340.60	11,962.2	-67.6	-320.3	327.3	258.09	6.97	393,538.12	729,586.54
12,149.0	67.80	340.10	11,974.6	-40.8	-329.8	332.3	262.94	7.88	393,564.87	729,578.99
12,233.0	72.50	338.60	12,003.3	33.0	-357.7	359.2	275.28	6.07	393,638.73	729,551.14
12,264.0	74.10	338.20	12,012.2	60.6	-366.6	373.5	279.34	5.31	393,666.34	729,540.21
12,296.0	75.30	338.60	12,020.7	89.3	-380.0	390.3	283.23	3.94	393,695.03	729,528.85
12,327.0	76.50	338.90	12,028.2	117.4	-390.9	408.1	286.71	3.98	393,723.06	729,517.95
12,359.0	77.80	339.10	12,035.3	146.5	-402.0	427.9	290.02	4.11	393,752.18	729,506.77
12,390.0	78.90	339.60	12,041.6	174.9	-412.7	448.3	292.96	3.88	393,780.59	729,496.06
12,422.0	79.80	340.70	12,047.5	204.5	-423.4	470.2	295.78	4.40	393,810.17	729,485.38
12,453.0	80.60	341.70	12,052.8	233.4	-433.3	492.1	298.31	4.09	393,839.09	729,475.54



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 36 25-25S-31E Coltrane
Well: Coltrane 36/25 W1PI Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Coltrane 36/25 W1PI Fed Com #2H
TVD Reference: 3301+27 @ 3328.0usft
MD Reference: 3301+27 @ 3328.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
	12,485.0	81.80	341.50	12,057.7	263.4	-443.2	515.6	300.72	3.80	393,869.09	729,465.56
	12,516.0	82.70	342.50	12,061.8	292.6	-452.7	539.1	302.88	4.32	393,898.31	729,456.07
	12,547.0	84.50	343.00	12,065.3	322.0	-461.9	563.0	304.89	6.02	393,927.73	729,446.93
	12,579.0	86.30	342.50	12,067.9	352.5	-471.3	588.6	306.79	5.84	393,958.19	729,437.47
	12,610.0	88.80	344.40	12,069.2	382.2	-480.1	613.7	308.52	10.13	393,987.87	729,428.65
	12,642.0	91.10	345.30	12,069.2	413.1	-488.5	639.7	310.22	7.72	394,018.76	729,420.29
	12,674.0	92.20	346.00	12,068.3	444.0	-496.4	666.1	311.81	4.07	394,049.75	729,412.36
	12,768.0	91.70	349.40	12,065.1	535.8	-516.4	744.2	316.05	3.65	394,141.52	729,392.35
	12,863.0	91.80	352.00	12,062.2	629.5	-531.8	824.1	319.81	2.74	394,235.22	729,377.01
	12,957.0	92.00	352.90	12,059.1	722.7	-544.1	904.6	323.02	0.98	394,328.35	729,364.67
	13,052.0	90.90	358.50	12,056.7	817.3	-551.3	985.8	326.00	6.01	394,423.02	729,357.55
	13,146.0	89.80	0.00	12,056.1	911.3	-552.5	1,065.7	328.77	1.98	394,517.00	729,356.32
	13,241.0	89.00	359.00	12,057.1	1,006.3	-553.3	1,148.4	331.20	1.35	394,611.99	729,355.49
	13,335.0	89.30	359.10	12,058.5	1,100.3	-554.9	1,232.3	333.24	0.34	394,705.97	729,353.93
	13,430.0	89.30	359.00	12,059.7	1,195.2	-556.4	1,318.4	335.04	0.11	394,800.95	729,352.36
	13,524.0	89.90	0.80	12,060.3	1,289.2	-556.6	1,404.3	336.65	2.02	394,894.94	729,352.19
	13,618.0	89.10	359.10	12,061.1	1,383.2	-556.7	1,491.1	338.08	2.00	394,988.93	729,352.11
	13,713.0	89.60	358.80	12,062.2	1,478.2	-558.4	1,580.2	339.30	0.61	395,083.91	729,350.37
	13,807.0	89.60	359.20	12,062.9	1,572.2	-560.1	1,669.0	340.39	0.43	395,177.90	729,348.73
	13,902.0	89.70	359.10	12,063.4	1,667.2	-561.5	1,759.2	341.39	0.15	395,272.88	729,347.32
	13,997.0	89.40	358.60	12,064.2	1,762.2	-563.4	1,850.0	342.27	0.61	395,367.86	729,345.41
	14,091.0	87.60	359.80	12,066.7	1,856.1	-564.7	1,940.1	343.08	2.30	395,461.81	729,344.10
	14,186.0	90.20	1.20	12,068.5	1,951.1	-563.9	2,030.9	343.88	3.11	395,556.78	729,344.93
	14,281.0	90.20	1.40	12,068.1	2,046.1	-561.7	2,121.8	344.65	0.21	395,651.76	729,347.09
	14,375.0	90.20	0.50	12,067.8	2,140.0	-560.2	2,212.1	345.33	0.96	395,745.74	729,348.64
	14,469.0	90.00	1.60	12,067.7	2,234.0	-558.4	2,302.8	345.97	1.19	395,839.72	729,350.37
	14,563.0	90.30	1.10	12,067.4	2,328.0	-556.2	2,393.5	346.56	0.62	395,933.70	729,352.58



Stryker Energy Directional Services

Survey Report Landscape



Company: Newbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 36 25-25S-31E Coltrane
Well: Coltrane 36/25 W1P1 Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Coltrane 36/25 W1P1 Fed Com #2H
TVD Reference: 3301+27 @ 3328.0usft
MD Reference: 3301+27 @ 3328.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
14,658.0	90.20	1.70	12,067.0	2,423.0	-553.9	2,485.5	347.12	0.64	396,028.67	729,354.90
14,753.0	90.00	1.00	12,066.8	2,517.9	-551.7	2,577.7	347.64	0.77	396,123.64	729,357.14
14,848.0	89.80	0.60	12,067.0	2,612.9	-550.3	2,670.3	348.11	0.47	396,218.63	729,358.47
14,943.0	90.40	0.70	12,066.8	2,707.9	-549.3	2,763.1	348.53	0.64	396,313.62	729,359.54
15,037.0	90.60	1.00	12,066.0	2,801.9	-547.9	2,855.0	348.94	0.38	396,407.61	729,360.94
15,132.0	91.60	2.00	12,064.2	2,896.9	-545.4	2,947.7	349.34	1.49	396,502.56	729,363.43
15,226.0	91.20	1.00	12,061.9	2,990.8	-542.9	3,039.7	349.71	1.15	396,596.50	729,365.89
15,321.0	88.00	357.90	12,062.5	3,085.8	-543.8	3,133.3	350.01	4.69	396,691.47	729,364.97
15,415.0	89.60	359.30	12,064.5	3,179.7	-546.1	3,226.3	350.25	2.26	396,785.41	729,362.68
15,510.0	89.70	358.90	12,065.1	3,274.7	-547.6	3,320.2	350.51	0.43	396,880.40	729,361.19
15,605.0	89.20	358.20	12,066.0	3,369.7	-550.0	3,414.3	350.73	0.91	396,975.36	729,358.78
15,700.0	90.80	0.90	12,066.0	3,464.6	-550.8	3,508.2	350.97	3.30	397,070.35	729,358.04
15,795.0	90.00	0.30	12,065.3	3,559.6	-549.8	3,601.8	351.22	1.05	397,165.34	729,359.03
15,889.0	89.50	359.40	12,065.8	3,653.6	-550.0	3,694.8	351.44	1.10	397,259.34	729,358.78
15,984.0	88.80	359.00	12,067.2	3,748.6	-551.3	3,788.9	351.63	0.85	397,354.32	729,357.46
16,078.0	90.50	0.00	12,067.7	3,842.6	-552.2	3,882.1	351.82	2.10	397,448.31	729,356.64
16,172.0	88.50	0.70	12,068.6	3,936.6	-551.6	3,975.1	352.02	2.25	397,542.30	729,357.21
16,266.0	89.90	359.10	12,069.9	4,030.6	-551.8	4,068.2	352.21	2.26	397,636.28	729,357.05
16,361.0	90.30	359.70	12,069.7	4,125.6	-552.7	4,162.4	352.37	0.76	397,731.27	729,356.05
16,455.0	90.60	358.60	12,069.0	4,219.6	-554.1	4,255.8	352.52	1.21	397,825.26	729,354.66
16,550.0	88.40	359.30	12,069.8	4,314.5	-555.9	4,350.2	352.66	2.43	397,920.23	729,352.92
16,645.0	88.70	358.80	12,072.2	4,409.5	-557.5	4,444.6	352.79	0.61	398,015.19	729,351.34
16,739.0	90.40	0.60	12,072.9	4,503.5	-557.9	4,537.9	352.94	2.63	398,109.18	729,350.85
16,833.0	92.30	1.00	12,070.7	4,597.4	-556.6	4,631.0	353.10	2.07	398,203.14	729,352.16
16,928.0	89.60	358.10	12,069.1	4,692.4	-557.4	4,725.4	353.23	4.17	398,298.10	729,351.42
17,023.0	90.40	357.50	12,069.1	4,787.3	-561.0	4,820.1	353.32	1.05	398,393.03	729,347.77
17,117.0	91.80	358.10	12,067.3	4,881.2	-564.6	4,913.8	353.40	1.62	398,486.94	729,344.16



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 36 25-25S-31E Coltrane
Well: Coltrane 36/25 W1P1 Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Coltrane 36/25 W1P1 Fed Com #2H
TVD Reference: 3301+27 @ 3328.0usft
MD Reference: 3301+27 @ 3328.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
17,212.0	89.90	357.30	12,065.9	4,976.2	-568.4	5,008.5	353.48	2.17	398,581.85	729,340.35
17,306.0	91.70	359.20	12,064.6	5,070.1	-571.3	5,102.2	353.57	2.78	398,675.79	729,337.48
17,403.0	92.60	1.40	12,061.0	5,167.0	-570.8	5,198.4	353.70	2.45	398,772.71	729,337.99
17,498.0	90.90	1.90	12,058.1	5,261.9	-568.1	5,292.5	353.84	1.87	398,867.63	729,340.72
17,593.0	90.60	1.10	12,056.8	5,356.9	-565.6	5,386.7	353.97	0.90	398,962.58	729,343.21
17,687.0	90.60	2.60	12,055.9	5,450.8	-562.6	5,479.8	354.11	1.60	399,056.53	729,346.24
17,782.0	89.30	2.10	12,055.9	5,545.7	-558.7	5,573.8	354.25	1.47	399,151.45	729,350.14
17,876.0	89.20	0.60	12,057.2	5,639.7	-556.4	5,667.1	354.37	1.60	399,245.41	729,352.35
17,971.0	89.60	1.50	12,058.2	5,734.7	-554.7	5,761.5	354.48	1.04	399,340.39	729,354.09
18,066.0	90.00	359.80	12,058.5	5,829.7	-553.6	5,855.9	354.58	1.84	399,435.38	729,355.17
18,160.0	89.50	358.70	12,058.9	5,923.7	-554.9	5,949.6	354.65	1.29	399,529.37	729,353.94
18,254.0	89.80	359.40	12,059.5	6,017.6	-556.4	6,043.3	354.72	0.81	399,623.35	729,352.38
18,348.0	89.60	359.30	12,060.0	6,112.6	-557.5	6,138.0	354.79	0.24	399,718.34	729,351.30
18,444.0	89.60	359.90	12,060.6	6,207.6	-558.2	6,232.7	354.86	0.63	399,813.34	729,350.64
18,538.0	89.70	359.20	12,061.2	6,301.6	-558.9	6,326.4	354.93	0.75	399,907.33	729,349.90
18,633.0	89.30	358.90	12,062.0	6,396.6	-560.5	6,421.1	354.99	0.53	400,002.31	729,348.33
18,728.0	89.40	359.10	12,063.1	6,491.6	-562.1	6,515.9	355.05	0.24	400,097.29	729,346.67
18,823.0	89.50	359.10	12,064.0	6,586.6	-563.6	6,610.6	355.11	0.11	400,192.28	729,345.18
18,919.0	89.60	359.80	12,064.8	6,682.6	-564.5	6,706.4	355.17	0.74	400,288.27	729,344.26
19,014.0	89.10	0.00	12,065.9	6,777.6	-564.7	6,801.0	355.24	0.57	400,383.26	729,344.09
19,109.0	89.60	0.00	12,066.9	6,872.6	-564.7	6,895.7	355.30	0.53	400,478.26	729,344.09
19,203.0	89.80	359.90	12,067.4	6,966.6	-564.8	6,989.4	355.37	0.24	400,572.26	729,344.01
19,298.0	89.10	359.30	12,068.3	7,061.5	-565.5	7,084.2	355.42	0.97	400,667.25	729,343.34
19,393.0	89.80	0.30	12,069.3	7,156.5	-565.8	7,178.9	355.48	1.28	400,762.24	729,343.01
19,396.0	89.80	0.40	12,069.3	7,159.5	-565.8	7,181.9	355.48	3.33	400,765.24	729,343.03
19,431.0	89.80	0.40	12,069.4	7,194.5	-565.5	7,216.7	355.51	0.00	400,800.24	729,343.28

19431.0' Projection to bit