

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NMOCD
HOBBS
NOV 21 2019
RECEIVED

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NMNM0127A	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator MEWBOURNE OIL COMPANY		Contact: JACKIE LATHAN E-Mail: jlathan@mewbourne.com	
3. Address PO BOX 5270 HOBBS, NM 88241		3a. Phone No. (include area code) Ph: 575-393-5905	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENE 3833FNL 210FEL At top prod interval reported below Sec 9 T26S R33E Mer NMP NENE 383FNL 599FEL At total depth SESE 2535FSL 1015FEL		8. Lease Name and Well No. SALADO DRAW 9/16 W0AP FED COM 3H	
14. Date Spudded 12/23/2018		15. Date T.D. Reached 03/14/2019	
16. Date Completed ☐ D & A ☒ Ready to Prod. 06/13/2019		17. Elevations (DF, KB, RT, GL)* 3333 GL	
18. Total Depth: MD 20109 TVD 12261		19. Plug Back T.D.: MD 16316 TVD 12261	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) EXEMPT FROM LOGGING	
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)			

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
14.750	10.750 HCL80	45.5	0	1037		750	218	0	
9.875	7.625 HCP110	29.7	0	11523		1650	656	0	
6.750	5.500 HCP110	23.0	0	16316		475	169	0	

24. Tubing Record

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

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12188	20109	12387 TO 16316	0.390	864	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
12387 TO 16316	11,169,900 GALS SLICKWATER CARRYING 5,000,460# LOCAL 100 MESH SAND & 4,908,430# LOCAL 40/70 SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/13/2019	06/19/2019	24	→	720.0	444.0	2496.0	47.6	0.79	FLWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI	3100.0	→	720	444	2496	616	P&W	ACCEPTED FOR RECORD

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

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

ELECTRONIC SUBMISSION #472092 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 12/13/2019

NOV 13 2019
BUREAU OF LAND MANAGEMENT
ROSWELL FIELD OFFICE

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
WOLFCAMP	12188	20109	OIL, WATER & GAS	RUSTLER T/SALT B/SALT DELAWARE BELL CANYON BRUSHY CANYON BONE SPRING WOLFCAMP	931 1293 4773 5011 5038 7611 9048 12188

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

33. Circle enclosed attachments:

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

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

Electronic Submission #472092 Verified by the BLM Well Information System.
For MEWBOURNE OIL COMPANY, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/13/2019 ()

Name (please print) JACKIE LATHAN

Title REGULATORY

Signature (Electronic Submission)

Date 07/02/2019

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-44648		2 Pool Code 83600		3 Pool Name RED HILLS WOLFCAMP OIL	
4 Property Code 321162		5 Property Name SALADO DRAW 9/16 WOAP FEDERAL COM			6 Well Number 3H
7 GRID NO. 14744		8 Operator Name MEWBORNE OIL COMPANY			9 Elevation 3333'

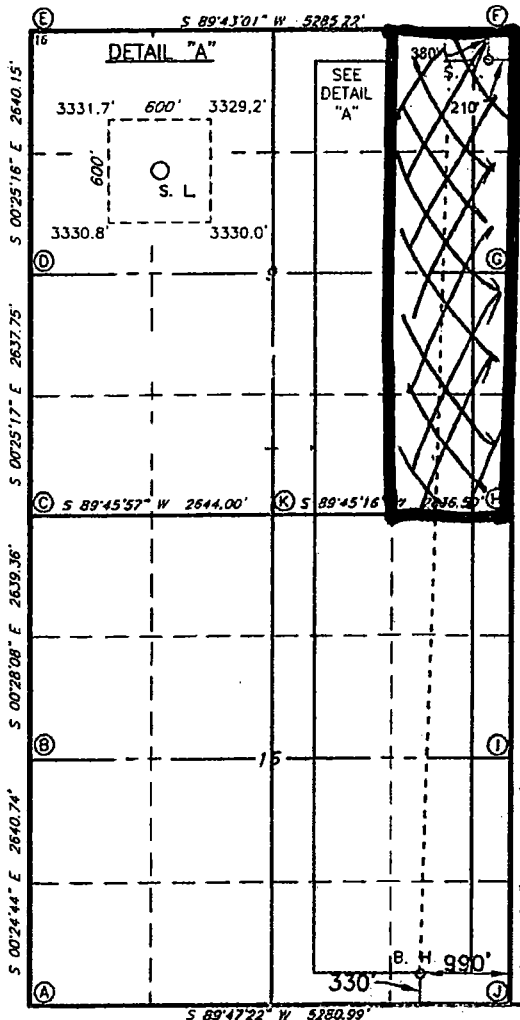
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	26S	33E		380	NORTH	210	EAST	LEA

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	16	26S	33E		2535'	SOUTH	1015'	EAST	LEA
12 Dedicated Acres 160		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.



GEODETIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION
N: 387986.3 - E: 777936.8
LAT: 32.0643527° N
LONG: 103.5895564° W
BOTTOM HOLE
N: 378081.4 - E: 777277.4
LAT: 32.0371395° N
LONG: 103.5719103° W

GEODETIC DATA
NAD 27 GRID - NM EAST
SURFACE LOCATION
N: 387929.0 - E: 736749.7
LAT: 32.0642278° N
LONG: 103.5890881° W
BOTTOM HOLE
N: 378024.3 - E: 736089.9
LAT: 32.0370143° N
LONG: 103.5714435° W

CORNER DATA
NAD 83 GRID - NM EAST
A: CALCULATED CORNER
N: 377735.7 - E: 772989.6
B: FOUND BRASS CAP "1913"
N: 380375.9 - E: 772970.6
C: FOUND BRASS CAP "1913"
N: 383014.7 - E: 772949.0
D: FOUND BRASS CAP "1913"
N: 385651.9 - E: 772929.6
E: FOUND BRASS CAP "1913"
N: 388291.5 - E: 772910.2
F: FOUND BRASS CAP "1913"
N: 388317.6 - E: 778194.4
G: FOUND BRASS CAP "1913"
N: 385677.6 - E: 778212.9
H: CALCULATED CORNER
N: 383036.8 - E: 778228.5
I: FOUND BRASS CAP "1913"
N: 380395.9 - E: 778250.6
J: FOUND BRASS CAP "1913"
N: 377755.1 - E: 778269.8
K: FOUND BRASS CAP "1913"
N: 383025.5 - E: 775592.5

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: *6/17/19*
Printed Name: *Jackie Lathan*

18 SURVEYOR CERTIFICATION

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

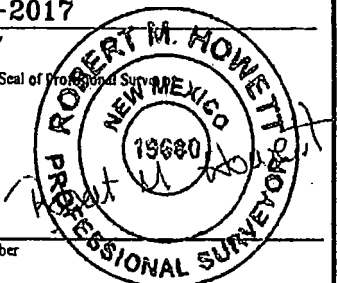
6-23-2017

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



RRC-Job No.: LS1704221

Intent ☐ As Drilled ☒

API #
30-025-44648

Operator Name: Mewbourne Oil Company	Property Name: Salado Draw 9/16 W0AP Fed Com	Well Number 3H
---	---	-------------------

Kick Off Point (KOP)

UL A	Section 9	Township 26S	Range 33E	Lot	Feet 120	From N/S N	Feet 541	From E/W EEL	County Len
Latitude 32° 03' 62.41" N					Longitude 103° 34' 12.33" W				NAD 83

First Take Point (FTP)

UL A	Section 9	Township 26S	Range 33E	Lot	Feet 383	From N/S N	Feet 599	From E/W E	County Len
Latitude 32° 03' 48.43" N					Longitude 103° 34' 14.14" W				NAD 83

Last Take Point (LTP)

UL P	Section 9	Township 26S	Range 33E	Lot	Feet 1015	From N/S S	Feet 952	From E/W E	County Len
Latitude 32° 03' 12.44" N					Longitude 103° 34' 19.22" W				NAD 83

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

Is this well an infill well? ☒ 405

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

API # 30-025-44913	Operator Name: Mewbourne O.I	Property Name: Salado Draw 9/16 W0AP Fed Com	Well Number 2H
-----------------------	---------------------------------	---	-------------------

KZ 06/29/2018



Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com

Salado Draw 9/16 W0AP Fed Com 3H

Original Hole

Design: Original Hole

Standard Survey Report

10 June, 2019





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Lea 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 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com

Site Position: **Northing:** 387,936.57 usft **Latitude:** 32° 3' 51.174 N
From: Map **Easting:** 777,987.06 usft **Longitude:** 103° 34' 9.823 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.41 °

Well Salado Draw 9/16 W0AP Fed Com 3H

Well Position **+N/-S** 0.0 usft **Northing:** 387,936.57 usft **Latitude:** 32° 3' 51.174 N
+E/-W 0.0 usft **Easting:** 777,987.06 usft **Longitude:** 103° 34' 9.823 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 27.0 usft **Ground Level:** 3,333.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/29/18	6.78	59.90	47,694.98378083

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	114.92

Survey Program Date 06/10/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,127.0	21,034.0	MWD Survey (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)
967.0	0.46	95.27	967.0	-7.0	4.4	7.0	0.00	0.00	0.00
1,127.0	0.80	84.10	1,127.0	-7.0	6.2	8.5	0.22	0.21	-6.98
1,221.0	0.80	67.70	1,220.9	-6.6	7.4	9.5	0.24	0.00	-17.45
1,315.0	0.70	69.00	1,314.9	-6.2	8.6	10.4	0.11	-0.11	1.38
1,410.0	0.70	68.50	1,409.9	-5.8	9.7	11.2	0.01	0.00	-0.53
1,505.0	0.60	51.60	1,504.9	-5.3	10.6	11.8	0.23	-0.11	-17.79
1,600.0	0.60	60.50	1,599.9	-4.7	11.4	12.3	0.10	0.00	9.37
1,793.0	0.50	57.90	1,792.9	-3.8	13.0	13.4	0.05	-0.05	-1.35
1,800.0	0.45	63.32	1,799.9	-3.7	13.1	13.4	0.91	-0.65	77.37

Interp @ 1799.9 (Salado Draw 9/16 W0AP Fed Com 3H)



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
1,888.0	0.60	161.90	1,887.9	-4.0	13.5	13.9	0.91	0.17	112.03
1,982.0	0.40	76.30	1,981.9	-4.4	14.0	14.5	0.74	-0.21	-91.06
2,076.0	0.30	79.20	2,075.9	-4.3	14.5	15.0	0.11	-0.11	3.09
2,171.0	0.60	94.30	2,170.9	-4.3	15.3	15.7	0.34	0.32	15.89
2,266.0	1.40	273.00	2,265.9	-4.2	14.6	15.0	2.11	0.84	188.11
2,361.0	1.10	268.20	2,360.9	-4.2	12.6	13.2	0.33	-0.32	-5.05
2,456.0	0.80	258.50	2,455.9	-4.4	11.0	11.8	0.36	-0.32	-10.21
2,548.0	0.50	248.40	2,547.8	-4.6	10.0	11.0	0.35	-0.33	-10.98
2,643.0	0.20	189.40	2,642.8	-5.0	9.6	10.8	0.46	-0.32	-62.11
2,738.0	0.30	144.50	2,737.8	-5.3	9.7	11.0	0.22	0.11	-47.26
2,833.0	0.70	104.90	2,832.8	-5.7	10.4	11.8	0.53	0.42	-41.68
2,927.0	1.20	99.20	2,926.8	-6.0	11.9	13.3	0.54	0.53	-6.06
3,022.0	1.00	157.60	3,021.8	-6.9	13.2	14.9	1.14	-0.21	61.47
3,116.0	1.30	149.20	3,115.8	-8.6	14.1	16.4	0.37	0.32	-8.94
3,211.0	0.40	186.30	3,210.8	-9.8	14.6	17.4	1.06	-0.95	39.05
3,305.0	0.40	324.30	3,304.8	-9.9	14.4	17.2	0.79	0.00	146.81
3,400.0	1.00	29.80	3,399.8	-8.9	14.6	17.0	0.96	0.63	68.95
3,496.0	1.60	28.90	3,495.8	-7.0	15.7	17.2	0.63	0.63	-0.94
3,590.0	1.10	20.40	3,589.7	-5.0	16.6	17.2	0.57	-0.53	-9.04
3,686.0	1.10	273.00	3,685.7	-4.1	16.0	16.2	1.85	0.00	-111.88
3,781.0	1.70	289.30	3,780.7	-3.6	13.8	14.0	0.75	0.63	17.16
3,876.0	0.70	336.70	3,875.7	-2.6	12.2	12.2	1.40	-1.05	49.89
3,969.0	0.10	66.10	3,968.7	-2.0	12.1	11.8	0.76	-0.65	96.13
4,065.0	0.70	133.60	4,064.7	-2.4	12.6	12.4	0.70	0.63	70.31
4,160.0	1.30	238.70	4,159.7	-3.4	12.1	12.4	1.71	0.63	110.63
4,254.0	1.50	241.90	4,253.6	-4.5	10.1	11.0	0.23	0.21	3.40
4,348.0	1.70	236.60	4,347.6	-5.8	7.8	9.5	0.26	0.21	-5.64
4,444.0	1.80	221.40	4,443.5	-7.8	5.6	8.4	0.49	0.10	-15.83
4,539.0	1.60	182.80	4,538.5	-10.2	4.6	8.4	1.20	-0.21	-40.63
4,634.0	1.70	161.80	4,633.5	-12.9	4.9	9.9	0.64	0.11	-22.11
4,729.0	1.60	216.40	4,728.4	-15.3	4.6	10.6	1.60	-0.11	57.47
4,824.0	1.80	210.50	4,823.4	-17.6	3.1	10.2	0.28	0.21	-6.21
4,918.0	2.80	262.20	4,917.3	-19.2	0.0	8.1	2.34	1.06	55.00
5,013.0	3.10	269.60	5,012.2	-19.5	-4.8	3.8	0.51	0.32	7.79
5,107.0	2.60	284.60	5,106.1	-19.0	-9.4	-0.5	0.95	-0.53	15.96
5,202.0	3.50	305.70	5,200.9	-16.8	-13.9	-5.5	1.50	0.95	22.21
5,296.0	3.60	308.30	5,294.8	-13.3	-18.5	-11.2	0.20	0.11	2.77
5,391.0	5.10	312.50	5,389.5	-8.6	-24.0	-18.1	1.61	1.58	4.42
5,485.0	4.90	314.80	5,483.1	-2.9	-29.9	-25.9	0.30	-0.21	2.45
5,579.0	4.50	313.10	5,576.8	2.4	-35.5	-33.2	0.45	-0.43	-1.81
5,674.0	4.50	313.80	5,671.5	7.5	-40.9	-40.2	0.06	0.00	0.74
5,768.0	4.30	314.80	5,765.2	12.6	-46.0	-47.0	0.23	-0.21	1.06



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
5,863.0	3.90	315.00	5,860.0	17.4	-50.8	-53.4	0.42	-0.42	0.21
5,957.0	3.60	312.90	5,953.8	21.6	-55.3	-59.2	0.35	-0.32	-2.23
6,053.0	3.40	313.60	6,049.6	25.7	-59.5	-64.8	0.21	-0.21	0.73
6,148.0	4.40	313.60	6,144.4	30.1	-64.2	-70.9	1.05	1.05	0.00
6,242.0	4.40	315.80	6,238.1	35.2	-69.3	-77.7	0.18	0.00	2.34
6,338.0	4.20	313.00	6,333.9	40.2	-74.5	-84.5	0.30	-0.21	-2.92
6,432.0	4.20	312.40	6,427.6	44.9	-79.5	-91.0	0.05	0.00	-0.64
6,527.0	4.00	313.40	6,522.4	49.5	-84.5	-97.5	0.22	-0.21	1.05
6,622.0	4.40	312.10	6,617.1	54.2	-89.6	-104.1	0.43	0.42	-1.37
6,717.0	4.60	310.20	6,711.8	59.1	-95.2	-111.3	0.26	0.21	-2.00
6,812.0	4.30	311.50	6,806.5	64.0	-100.8	-118.4	0.33	-0.32	1.37
6,906.0	4.00	309.00	6,900.3	68.4	-106.0	-124.9	0.37	-0.32	-2.66
7,001.0	3.80	309.80	6,995.1	72.5	-111.0	-131.2	0.22	-0.21	0.84
7,096.0	4.20	307.60	7,089.8	76.6	-116.2	-137.6	0.45	0.42	-2.32
7,191.0	4.30	305.60	7,184.6	80.8	-121.8	-144.5	0.19	0.11	-2.11
7,285.0	4.80	308.20	7,278.3	85.3	-127.8	-151.8	0.58	0.53	2.77
7,380.0	4.60	308.60	7,373.0	90.1	-133.9	-159.4	0.21	-0.21	0.42
7,475.0	4.10	306.70	7,467.7	94.5	-139.6	-166.4	0.55	-0.53	-2.00
7,570.0	3.90	300.00	7,562.4	98.2	-145.1	-172.9	0.53	-0.21	-7.05
7,665.0	3.60	298.60	7,657.2	101.2	-150.5	-179.1	0.33	-0.32	-1.47
7,760.0	4.00	295.90	7,752.0	104.1	-156.1	-185.4	0.46	0.42	-2.84
7,855.0	4.90	299.90	7,846.7	107.5	-162.6	-192.8	1.00	0.95	4.21
7,949.0	5.40	304.80	7,940.4	112.1	-169.7	-201.1	0.71	0.53	5.21
8,044.0	5.10	303.90	8,035.0	117.0	-176.9	-209.7	0.33	-0.32	-0.95
8,139.0	5.20	313.90	8,129.6	122.3	-183.5	-218.0	0.95	0.11	10.53
8,234.0	5.10	312.20	8,224.2	128.1	-189.7	-226.1	0.19	-0.11	-1.79
8,327.0	4.70	309.40	8,316.9	133.3	-195.7	-233.7	0.50	-0.43	-3.01
8,421.0	4.70	312.20	8,410.5	138.4	-201.6	-241.1	0.24	0.00	2.98
8,516.0	4.40	310.30	8,505.2	143.3	-207.2	-248.3	0.35	-0.32	-2.00
8,610.0	4.10	309.30	8,599.0	147.8	-212.6	-255.1	0.33	-0.32	-1.06
8,705.0	4.10	308.70	8,693.7	152.0	-217.9	-261.7	0.20	0.00	-2.74
8,800.0	4.20	307.40	8,788.5	156.1	-223.4	-268.4	0.12	0.11	0.74
8,894.0	3.80	308.80	8,882.3	160.2	-228.6	-274.8	0.44	-0.43	1.49
8,989.0	3.50	312.60	8,977.1	164.1	-233.2	-280.6	0.41	-0.32	4.00
9,084.0	3.30	310.70	9,071.9	167.8	-237.4	-286.0	0.24	-0.21	-2.00
9,178.0	3.20	321.20	9,165.8	171.7	-241.1	-291.0	0.64	-0.11	11.17
9,273.0	3.10	325.60	9,260.6	175.8	-244.2	-295.5	0.28	-0.11	4.63
9,368.0	3.20	322.70	9,355.5	180.1	-247.2	-300.1	0.20	0.11	-3.05
9,463.0	3.30	320.60	9,450.3	184.3	-250.6	-304.9	0.16	0.11	-2.21
9,558.0	2.90	321.00	9,545.2	188.3	-253.8	-309.5	0.42	-0.42	0.42
9,652.0	2.90	322.00	9,639.1	192.0	-256.8	-313.8	0.05	0.00	1.06
9,746.0	2.40	316.90	9,733.0	195.3	-259.6	-317.7	0.59	-0.53	-5.43
9,841.0	2.20	311.20	9,827.9	198.0	-262.3	-321.3	0.32	-0.21	-6.00



Microsoft
Survey Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
9,936.0	1.60	311.20	9,922.8	200.0	-264.7	-324.3	0.63	-0.63	0.00
10,031.0	1.70	288.30	10,017.8	201.3	-267.0	-327.0	0.70	0.11	-24.11
10,126.0	3.40	301.30	10,112.7	203.3	-270.8	-331.2	1.88	1.79	13.68
10,221.0	3.40	303.40	10,207.5	206.3	-275.5	-336.8	0.13	0.00	2.21
10,315.0	3.00	307.70	10,301.4	209.3	-279.8	-342.0	0.50	-0.43	4.57
10,410.0	2.90	307.00	10,396.3	212.3	-283.7	-346.7	0.11	-0.11	-0.74
10,504.0	3.90	313.40	10,490.1	215.9	-287.9	-352.1	1.14	1.06	6.81
10,598.0	3.70	316.90	10,583.9	220.3	-292.3	-357.9	0.33	-0.21	3.72
10,692.0	3.60	317.60	10,677.7	224.7	-296.4	-363.5	0.12	-0.11	0.74
10,787.0	3.30	313.60	10,772.5	228.8	-300.4	-368.8	0.40	-0.32	-4.21
10,880.0	3.00	306.50	10,865.4	232.1	-304.3	-373.7	0.53	-0.32	-7.63
10,974.0	3.20	303.30	10,959.2	235.0	-308.4	-378.7	0.28	0.21	-3.40
11,069.0	2.90	307.60	11,054.1	237.9	-312.6	-383.7	0.40	-0.32	4.53
11,163.0	2.80	304.50	11,148.0	240.7	-316.3	-388.3	0.20	-0.11	-3.30
11,257.0	2.70	308.60	11,241.9	243.3	-320.0	-392.7	0.23	-0.11	4.36
11,352.0	2.60	321.30	11,336.8	246.4	-323.1	-396.8	0.63	-0.11	13.37
11,446.0	2.20	326.00	11,430.7	249.6	-325.4	-400.3	0.47	-0.43	5.00
11,462.0	2.20	325.00	11,446.7	250.1	-325.7	-400.8	0.24	0.00	-6.25
11,589.0	2.00	338.20	11,573.6	254.1	-328.0	-404.5	0.41	-0.16	10.39
11,620.3	2.03	341.36	11,604.9	255.2	-328.3	-405.3	0.37	0.09	10.10
B.B. Salado Draw 9/16 W0AP Fed Com 3H									
11,683.0	2.10	347.40	11,667.5	257.3	-328.9	-406.8	0.37	0.12	9.63
11,742.0	2.00	349.90	11,726.5	259.4	-329.4	-408.0	0.23	-0.17	4.24
11,776.0	2.00	346.10	11,760.5	260.6	-329.6	-408.7	0.39	0.00	-11.18
11,807.0	1.00	310.50	11,791.5	261.3	-329.9	-409.3	4.26	-3.23	-114.84
11,839.0	1.70	205.00	11,823.5	261.0	-330.4	-409.6	6.85	2.19	-329.69
11,871.0	3.50	193.10	11,855.4	259.6	-330.8	-409.4	5.84	5.63	-37.19
11,902.0	4.10	189.80	11,886.4	257.6	-331.2	-408.9	2.06	1.94	-10.65
11,934.0	4.10	183.70	11,918.3	255.4	-331.5	-408.2	1.36	0.00	-19.06
11,965.0	6.50	178.60	11,949.1	252.5	-331.5	-407.0	7.88	7.74	-16.45
11,997.0	10.90	179.70	11,980.8	247.7	-331.4	-404.9	13.76	13.75	3.44
12,028.0	16.40	181.20	12,010.9	240.4	-331.5	-401.9	17.78	17.74	4.84
12,060.0	21.60	182.00	12,041.1	229.9	-331.8	-397.8	16.27	16.25	2.50
12,091.0	27.40	185.30	12,069.3	217.1	-332.7	-393.2	19.22	18.71	10.65
12,123.0	33.00	188.70	12,097.0	201.2	-334.7	-388.3	18.29	17.50	10.63
12,155.0	37.40	191.00	12,123.1	183.0	-337.8	-383.5	14.36	13.75	7.19
12,186.0	41.10	193.50	12,147.1	163.8	-342.0	-379.2	12.98	11.94	8.06
12,218.0	48.00	195.50	12,169.9	142.1	-347.6	-375.2	22.00	21.56	6.25
12,250.0	54.70	196.50	12,189.9	118.1	-354.5	-371.3	21.08	20.94	3.13
12,281.0	59.70	197.70	12,206.7	93.2	-362.2	-367.8	16.45	16.13	3.87
12,313.0	65.80	197.00	12,221.3	66.1	-370.7	-364.0	19.16	19.06	-2.19
12,344.0	72.80	196.70	12,232.3	38.4	-379.1	-359.9	22.60	22.58	-0.97



Microsoft
Survey Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
12,375.0	79.20	195.00	12,239.8	9.4	-387.3	-355.2	21.32	20.65	-5.48
12,407.0	84.30	194.30	12,244.4	-21.2	-395.3	-349.6	16.08	15.94	-2.19
12,438.0	84.60	194.60	12,247.4	-51.1	-403.0	-343.9	1.37	0.97	0.97
12,470.0	85.00	194.50	12,250.3	-81.9	-411.0	-338.2	1.29	1.25	-0.31
12,502.0	89.00	194.40	12,251.9	-112.9	-419.0	-332.4	12.50	12.50	-0.31
12,565.0	91.00	194.60	12,251.9	-173.9	-434.7	-321.0	3.19	3.17	0.32
12,659.0	88.90	195.90	12,252.0	-264.5	-459.5	-305.2	2.63	-2.23	1.38
12,753.0	88.30	196.00	12,254.3	-354.9	-485.3	-290.6	0.65	-0.64	0.11
12,848.0	90.40	196.90	12,255.4	-446.0	-512.2	-276.6	2.40	2.21	0.95
12,943.0	92.80	198.30	12,252.7	-536.5	-540.9	-264.5	2.92	2.53	1.47
13,038.0	90.40	196.80	12,250.1	-627.0	-569.5	-252.3	2.98	-2.53	-1.58
13,132.0	89.60	195.10	12,250.1	-717.4	-595.4	-237.6	2.00	-0.85	-1.81
13,227.0	89.50	193.90	12,250.8	-809.4	-619.1	-220.5	1.27	-0.11	-1.26
13,321.0	92.80	195.10	12,248.9	-900.4	-642.7	-203.5	3.74	3.51	1.28
13,415.0	87.00	190.80	12,249.1	-991.9	-663.7	-184.0	7.68	-6.17	-4.57
13,510.0	88.00	189.90	12,253.3	-1,085.3	-680.8	-160.1	1.42	1.05	-0.95
13,605.0	91.50	189.40	12,253.7	-1,178.9	-696.7	-135.1	3.72	3.68	-0.53
13,700.0	91.70	188.70	12,251.0	-1,272.7	-711.6	-109.1	0.77	0.21	-0.74
13,795.0	90.00	183.40	12,249.6	-1,367.1	-721.6	-78.4	5.86	-1.79	-5.58
13,891.0	88.80	182.80	12,250.6	-1,463.0	-726.8	-42.7	1.40	-1.25	-0.63
13,886.0	90.80	183.90	12,250.9	-1,557.8	-732.4	-7.8	2.40	2.11	1.16
14,081.0	89.60	185.10	12,250.6	-1,652.5	-739.8	25.3	1.79	-1.26	1.26
14,175.0	88.80	184.00	12,251.9	-1,746.2	-747.3	58.1	1.45	-0.85	-1.17
14,269.0	88.80	182.50	12,253.9	-1,840.0	-752.6	92.8	1.60	0.00	-1.60
14,364.0	88.20	179.20	12,256.4	-1,935.0	-754.0	131.5	3.53	-0.63	-3.47
14,459.0	90.20	178.70	12,257.7	-2,029.9	-752.3	173.1	2.17	2.11	-0.53
14,570.0	88.70	177.90	12,258.8	-2,140.9	-749.0	222.8	1.53	-1.35	-0.72
14,577.0	88.71	177.87	12,258.9	-2,147.9	-748.7	226.0	0.44	0.11	-0.43
14677.0' MD Top of Fish - Interp @ 12258.9 (Salado Draw 9/16 W0AP Fed Com 3H)									
14,664.0	88.80	177.50	12,260.8	-2,234.8	-745.2	265.8	0.44	0.11	-0.43
14,758.0	90.80	178.90	12,261.1	-2,328.7	-742.3	308.1	2.60	2.13	1.49
14,854.0	89.30	179.30	12,261.1	-2,424.7	-740.8	349.9	1.62	-1.56	0.42
14,948.0	89.70	180.50	12,261.9	-2,518.7	-740.6	389.6	1.35	0.43	1.28
15,043.0	91.60	181.20	12,260.8	-2,613.7	-742.0	428.4	2.13	2.00	0.74
15,138.0	90.00	180.20	12,259.5	-2,708.7	-743.2	467.3	1.99	-1.68	-1.05
15,233.0	87.60	178.90	12,261.5	-2,803.6	-742.4	508.0	2.87	-2.53	-1.37
15,327.0	89.70	180.50	12,263.7	-2,897.6	-741.9	548.1	2.81	2.23	1.70
15,422.0	88.40	179.30	12,265.3	-2,992.6	-741.8	588.2	1.86	-1.37	-1.26
15,518.0	91.30	181.50	12,265.5	-3,088.5	-742.4	628.1	3.79	3.02	2.29
15,612.0	86.60	178.20	12,267.2	-3,182.5	-742.2	667.9	6.11	-5.00	-3.51
15,706.0	85.20	177.60	12,274.0	-3,276.2	-738.8	710.5	1.62	-1.49	-0.64
15,802.0	89.10	179.90	12,278.7	-3,372.0	-736.7	752.7	4.71	4.06	2.40
15,896.0	90.90	181.90	12,278.7	-3,466.0	-738.2	791.0	2.86	1.91	2.13



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
15,989.0	90.50	180.10	12,277.6	-3,559.0	-739.8	828.7	1.98	-0.43	-1.94
16,084.0	90.30	180.60	12,276.9	-3,654.0	-740.4	868.2	0.57	-0.21	0.53
16,178.0	90.70	180.40	12,276.1	-3,748.0	-741.2	907.1	0.48	0.43	-0.21
16,273.0	91.70	180.20	12,274.1	-3,842.9	-741.7	946.6	1.07	1.05	-0.21
16,368.0	90.20	177.80	12,272.5	-3,937.9	-740.0	988.1	2.98	-1.58	-2.53
16,464.0	90.40	177.70	12,272.0	-4,033.8	-736.2	1,032.0	0.23	0.21	-0.10
16,559.0	91.50	179.00	12,270.5	-4,128.8	-733.5	1,074.5	1.79	1.16	1.37
16,654.0	90.40	179.80	12,268.9	-4,223.7	-732.5	1,115.4	1.43	-1.16	0.84
16,749.0	91.50	181.20	12,267.3	-4,318.7	-733.3	1,154.7	1.87	1.16	1.47
16,781.0	90.40	180.90	12,266.8	-4,350.7	-733.9	1,167.6	3.56	-3.44	-0.94
16,812.0	88.80	180.60	12,267.0	-4,381.7	-734.3	1,180.3	5.25	-5.16	-0.97
16,844.0	85.90	179.00	12,268.5	-4,413.7	-734.2	1,193.9	10.35	-9.06	-5.00
16,877.0	86.20	179.90	12,270.8	-4,446.6	-733.9	1,208.0	2.87	0.91	2.73
16,908.0	85.90	180.00	12,272.9	-4,477.5	-733.9	1,221.1	1.02	-0.97	0.32
16,940.0	85.40	180.00	12,275.3	-4,509.4	-733.9	1,234.5	1.56	-1.56	0.00
17,034.0	83.90	180.00	12,284.1	-4,603.0	-733.9	1,274.0	1.60	-1.60	0.00
17,128.0	84.70	179.60	12,293.4	-4,696.5	-733.6	1,313.7	0.95	0.85	-0.43
17,159.0	85.50	179.60	12,296.1	-4,727.4	-733.3	1,326.9	2.58	2.58	0.00
17,191.0	86.60	180.50	12,298.3	-4,759.4	-733.4	1,340.3	4.44	3.44	2.81
17,223.0	88.20	181.10	12,299.7	-4,791.3	-733.8	1,353.4	5.34	5.00	1.88
17,254.0	88.30	181.70	12,300.7	-4,822.3	-734.6	1,365.7	1.96	0.32	1.94
17,286.0	89.20	183.00	12,301.4	-4,854.3	-735.9	1,378.0	4.94	2.81	4.06
17,317.0	91.30	182.70	12,301.2	-4,885.2	-737.4	1,389.7	6.84	6.77	-0.97
17,349.0	92.40	182.70	12,300.2	-4,917.2	-738.9	1,401.8	3.44	3.44	0.00
17,380.0	91.60	182.20	12,299.1	-4,948.1	-740.3	1,413.6	3.04	-2.58	-1.61
17,411.0	90.00	182.30	12,298.7	-4,979.1	-741.5	1,425.5	5.17	-5.16	0.32
17,442.0	89.60	181.80	12,298.8	-5,010.1	-742.6	1,437.6	2.07	-1.29	-1.61
17,474.0	89.80	181.50	12,299.0	-5,042.1	-743.5	1,450.2	1.13	0.63	-0.94
17,505.0	90.30	179.00	12,298.9	-5,073.1	-743.6	1,463.2	8.22	1.61	-8.06
17,540.0	90.00	176.90	12,298.8	-5,108.0	-742.4	1,479.0	6.06	-0.86	-6.00
17,571.0	89.80	176.80	12,298.9	-5,139.0	-740.7	1,493.6	0.72	-0.65	-0.32
17,603.0	89.80	177.60	12,299.0	-5,170.9	-739.1	1,508.5	2.50	0.00	2.50
17,635.0	90.00	178.20	12,299.1	-5,202.9	-737.9	1,523.0	1.98	0.63	1.88
17,666.0	89.10	178.10	12,299.3	-5,233.9	-736.9	1,537.0	2.92	-2.90	-0.32
17,698.0	89.50	178.50	12,299.7	-5,265.9	-736.0	1,551.3	1.77	1.25	1.25
17,730.0	91.40	176.80	12,299.4	-5,297.9	-734.7	1,566.0	7.97	5.94	-5.31
17,761.0	92.00	177.40	12,298.5	-5,328.8	-733.1	1,580.5	2.74	1.94	1.94
17,793.0	90.90	178.50	12,297.7	-5,360.8	-732.0	1,595.0	4.86	-3.44	3.44
17,825.0	90.00	180.80	12,297.5	-5,392.8	-731.8	1,608.6	7.72	-2.81	7.19
17,856.0	90.50	181.30	12,297.3	-5,423.8	-732.3	1,621.2	2.28	1.61	1.61
17,888.0	91.60	181.60	12,296.7	-5,455.7	-733.2	1,633.9	3.56	3.44	0.94
17,919.0	93.50	181.10	12,295.4	-5,486.7	-733.9	1,646.3	6.34	6.13	-1.61
17,951.0	91.60	179.80	12,293.9	-5,518.7	-734.1	1,659.5	7.19	-5.94	-4.06



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buld Rate (°/100usft)	Turn Rate (°/100usft)
17,983.0	91.90	180.80	12,293.0	-5,550.7	-734.3	1,672.9	3.26	0.94	3.13
18,000.0	92.28	179.48	12,292.3	-5,567.7	-734.3	1,680.0	8.06	2.26	-7.74
Interp @ 12245.6 (Salado Draw 9/16 W0AP Fed Com 3H)									
18,014.0	92.60	178.40	12,291.7	-5,581.6	-734.1	1,686.1	8.06	2.25	-7.74
18,046.0	93.30	179.30	12,290.1	-5,613.6	-733.4	1,700.2	3.56	2.19	2.81
18,077.0	92.60	178.60	12,288.5	-5,644.5	-732.9	1,713.7	3.19	-2.26	-2.26
18,109.0	92.60	179.30	12,287.1	-5,676.5	-732.3	1,727.7	2.19	0.00	2.19
18,140.0	91.00	175.60	12,286.1	-5,707.4	-730.9	1,742.0	13.00	-5.16	-11.94
18,172.0	89.60	172.40	12,285.9	-5,739.3	-727.6	1,758.4	10.91	-4.38	-10.00
18,204.0	89.80	173.10	12,286.1	-5,771.0	-723.5	1,775.5	2.28	0.63	2.19
18,235.0	90.00	177.40	12,286.1	-5,801.9	-721.0	1,790.8	13.89	0.65	13.87
18,267.0	89.50	179.10	12,286.3	-5,833.9	-720.0	1,805.2	5.54	-1.56	5.31
18,298.0	89.70	181.90	12,286.5	-5,864.9	-720.3	1,818.0	9.06	0.65	9.03
18,330.0	90.60	183.70	12,286.4	-5,896.8	-721.8	1,830.1	6.29	2.81	5.63
18,362.0	91.60	183.60	12,285.8	-5,928.8	-723.9	1,841.7	3.14	3.13	-0.31
18,393.0	92.10	183.00	12,284.8	-5,959.7	-725.6	1,853.1	2.52	1.61	-1.94
18,425.0	93.80	183.00	12,283.1	-5,991.6	-727.3	1,865.0	5.31	5.31	0.00
18,456.0	95.20	182.50	12,280.7	-6,022.5	-728.8	1,876.7	4.79	4.52	-1.61
18,488.0	96.10	182.80	12,277.6	-6,054.3	-730.3	1,888.7	2.96	2.81	0.94
18,519.0	95.60	182.50	12,274.4	-6,085.1	-731.7	1,900.4	1.88	-1.61	-0.97
18,551.0	93.00	180.80	12,272.0	-6,117.0	-732.6	1,913.0	9.70	-8.13	-5.31
18,583.0	92.70	180.90	12,270.4	-6,148.9	-733.1	1,926.1	0.99	-0.94	0.31
18,615.0	90.90	180.20	12,269.4	-6,180.9	-733.4	1,939.3	6.03	-5.63	-2.19
18,646.0	89.70	178.10	12,269.2	-6,211.9	-732.9	1,952.7	7.80	-3.87	-6.77
18,678.0	89.90	176.40	12,269.4	-6,243.9	-731.4	1,967.6	5.35	0.63	-5.31
18,709.0	90.20	175.90	12,269.3	-6,274.8	-729.3	1,982.5	1.88	0.97	-1.61
18,741.0	89.80	175.10	12,269.3	-6,306.7	-726.8	1,998.2	2.80	-1.25	-2.50
18,772.0	90.70	174.00	12,269.2	-6,337.6	-723.9	2,013.9	4.58	2.90	-3.55
18,804.0	90.90	172.10	12,268.7	-6,369.3	-720.0	2,030.8	5.97	0.63	-5.94
18,836.0	90.40	170.60	12,268.4	-6,401.0	-715.2	2,048.5	4.94	-1.56	-4.69
18,867.0	90.30	169.90	12,268.2	-6,431.5	-709.9	2,066.1	2.28	-0.32	-2.26
18,899.0	89.70	169.60	12,268.2	-6,463.0	-704.2	2,084.6	2.10	-1.88	-0.94
18,931.0	89.40	169.80	12,268.4	-6,494.5	-698.5	2,103.0	1.13	-0.94	0.63
18,963.0	90.00	169.30	12,268.6	-6,526.0	-692.7	2,121.5	2.44	1.88	-1.56
18,994.0	89.50	167.20	12,268.7	-6,556.3	-686.4	2,140.1	6.96	-1.61	-6.77
19,026.0	88.50	165.00	12,269.3	-6,587.4	-678.7	2,160.1	7.55	-3.13	-6.88
19,058.0	88.40	165.00	12,270.2	-6,618.3	-670.4	2,180.6	0.31	-0.31	0.00
19,089.0	87.90	160.90	12,271.2	-6,647.9	-661.4	2,201.4	13.32	-1.61	-13.23
19,108.0	88.60	158.90	12,271.8	-6,665.7	-654.8	2,214.8	11.15	3.68	-10.53
19,140.0	88.70	158.00	12,272.5	-6,695.5	-643.1	2,238.0	2.83	0.31	-2.81
19,171.0	89.40	158.00	12,273.0	-6,724.2	-631.5	2,260.6	2.26	2.26	0.00
19,203.0	91.70	155.70	12,272.7	-6,753.6	-618.9	2,284.4	10.16	7.19	-7.19



Microsoft
Survey Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
19,235.0	92.70	156.50	12,271.5	-6,782.8	-605.9	2,308.5	4.00	3.13	2.50
19,266.0	93.20	157.40	12,269.9	-6,811.3	-593.8	2,331.5	3.32	1.61	2.90
19,330.0	93.60	160.70	12,266.1	-6,871.0	-571.0	2,377.3	5.18	0.63	5.16
19,361.0	92.20	161.20	12,264.5	-6,900.3	-560.9	2,398.8	4.79	-4.52	1.61
19,393.0	93.00	161.00	12,263.1	-6,930.5	-550.5	2,421.0	2.58	2.50	-0.63
19,425.0	92.40	160.50	12,261.6	-6,960.7	-540.0	2,443.2	2.44	-1.88	-1.56
19,457.0	92.30	160.40	12,260.3	-6,990.8	-529.3	2,465.6	0.44	-0.31	-0.31
19,488.0	92.70	161.00	12,258.9	-7,020.0	-519.0	2,487.2	2.32	1.29	1.94
19,520.0	93.10	161.00	12,257.3	-7,050.3	-508.6	2,509.4	1.25	1.25	0.00
19,551.0	92.30	161.60	12,255.8	-7,079.6	-498.7	2,530.8	3.22	-2.58	1.94
19,583.0	91.90	161.60	12,254.6	-7,109.9	-488.6	2,552.7	1.25	-1.25	0.00
19,615.0	91.10	162.10	12,253.8	-7,140.3	-478.6	2,574.5	2.95	-2.50	1.56
19,646.0	89.80	162.40	12,253.6	-7,169.8	-469.2	2,595.6	4.30	-4.19	0.97
19,678.0	89.90	162.60	12,253.7	-7,200.4	-459.6	2,617.1	0.70	0.31	0.63
19,709.0	89.00	161.80	12,253.9	-7,229.9	-450.1	2,638.2	3.88	-2.90	-2.58
19,741.0	87.90	161.20	12,254.8	-7,260.2	-439.9	2,660.2	3.92	-3.44	-1.88
19,773.0	87.70	161.10	12,256.0	-7,290.5	-428.6	2,682.3	0.70	-0.63	-0.31
19,805.0	88.50	161.70	12,257.1	-7,320.8	-418.4	2,704.3	3.12	2.50	1.88
19,836.0	89.10	162.50	12,257.8	-7,350.3	-409.9	2,725.4	3.23	1.94	2.58
19,867.0	89.30	162.60	12,258.2	-7,379.8	-400.6	2,746.3	0.72	0.65	0.32
19,899.0	90.60	163.50	12,258.2	-7,410.5	-391.3	2,767.6	4.94	4.06	2.81
19,931.0	90.70	164.20	12,257.9	-7,441.2	-382.4	2,788.6	2.21	0.31	2.19
19,962.0	90.70	164.30	12,257.5	-7,471.0	-374.0	2,808.8	0.32	0.00	0.32
19,994.0	90.10	164.10	12,257.2	-7,501.8	-365.2	2,829.7	1.98	-1.88	-0.63
20,026.0	88.40	163.40	12,257.7	-7,532.5	-356.3	2,850.8	5.75	-5.31	-2.19
20,089.0	87.30	163.40	12,260.0	-7,592.9	-338.3	2,892.5	1.75	-1.75	0.00
20,121.0	89.70	165.20	12,260.9	-7,623.7	-329.6	2,913.3	9.37	7.50	5.63
20,152.0	90.20	166.20	12,260.9	-7,653.7	-322.0	2,932.9	3.61	1.61	3.23
20,184.0	91.10	167.40	12,260.5	-7,684.8	-314.7	2,952.7	4.69	2.81	3.75
20,215.0	91.20	167.60	12,259.9	-7,715.1	-308.0	2,971.5	0.72	0.32	0.65
20,247.0	90.00	169.30	12,259.6	-7,746.5	-301.6	2,990.5	6.50	-3.75	5.31
20,278.0	90.80	170.40	12,259.3	-7,777.0	-296.1	3,008.3	4.58	2.90	3.55
20,310.0	88.70	170.30	12,259.4	-7,808.5	-290.7	3,026.5	6.88	-6.88	-0.31
20,342.0	87.60	170.80	12,260.5	-7,840.1	-285.5	3,044.6	3.78	-3.44	1.56
20,373.0	89.00	171.40	12,261.4	-7,870.7	-280.7	3,061.8	4.91	4.52	1.94
20,405.0	87.70	172.50	12,262.3	-7,902.3	-276.2	3,079.2	5.32	-4.06	3.44
20,434.0	89.10	173.30	12,263.1	-7,931.1	-272.6	3,094.6	5.56	4.83	2.76
20,465.0	88.20	174.10	12,263.9	-7,961.8	-269.2	3,110.6	3.88	-2.90	2.58
20,496.0	87.50	175.10	12,265.0	-7,992.8	-266.3	3,126.3	3.94	-2.26	3.23
20,528.0	88.00	176.90	12,266.3	-8,024.7	-264.1	3,141.7	5.83	1.56	5.63
20,559.0	88.30	177.40	12,267.3	-8,055.6	-262.5	3,156.2	1.88	0.97	1.61
20,591.0	88.20	180.00	12,268.3	-8,087.6	-261.8	3,170.3	8.13	-0.31	8.13
20,623.0	88.20	182.40	12,269.3	-8,119.5	-262.5	3,183.2	7.50	0.00	7.50



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
20,654.0	88.40	183.20	12,270.2	-8,150.5	-264.0	3,194.8	2.66	0.65	2.58
20,718.0	87.50	183.80	12,272.5	-8,214.3	-267.9	3,218.2	1.69	-1.41	0.94
20,749.0	87.30	183.70	12,273.9	-8,245.2	-269.9	3,229.4	0.72	-0.65	-0.32
20,781.0	87.10	183.50	12,275.4	-8,277.1	-271.9	3,241.0	0.88	-0.63	-0.63
20,844.0	87.10	184.10	12,278.6	-8,339.9	-276.1	3,263.7	0.95	0.00	0.95
20,939.0	87.30	186.40	12,283.3	-8,434.4	-284.8	3,295.6	2.43	0.21	2.42
21,034.0	87.30	187.00	12,287.7	-8,528.6	-295.9	3,325.3	0.63	0.00	0.63

21034' MD Survey Depth - New SHL Salado Draw 9/16 W0AP Fed Com 3H - PBHL Salado Draw 9/16 W0AP Fed Com 3H

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
Interp @ 12258.9 (Sa	0.00	0.00	12,258.9	-2,147.9	-748.7	385,788.71	777,238.32	32° 3' 29.972 N	103° 34' 18.700 W
- actual wellpath hits target center									
- Point									
New SHL Salado Draw	0.00	0.00	12,280.0	-10,085.1	-706.2	377,851.47	777,280.88	32° 2' 11.427 N	103° 34' 18.856 W
- actual wellpath misses target center by 1609.7usft at 21034.0usft MD (12287.7 TVD, -8528.6 N, -295.9 E)									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
14,577.0	12,258.9	-2,147.9	-748.7	14577.0' MD Top of Fish
21,034.0	12,287.7	-8,528.6	-295.9	21034' MD Survey Depth

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.38°

GEODETIC ZONE: New Mexico Eastern Zone
 3333 + 27 @ 3360.0usft (Patterson 231)
 GROUND ELEVATION: 3333.0

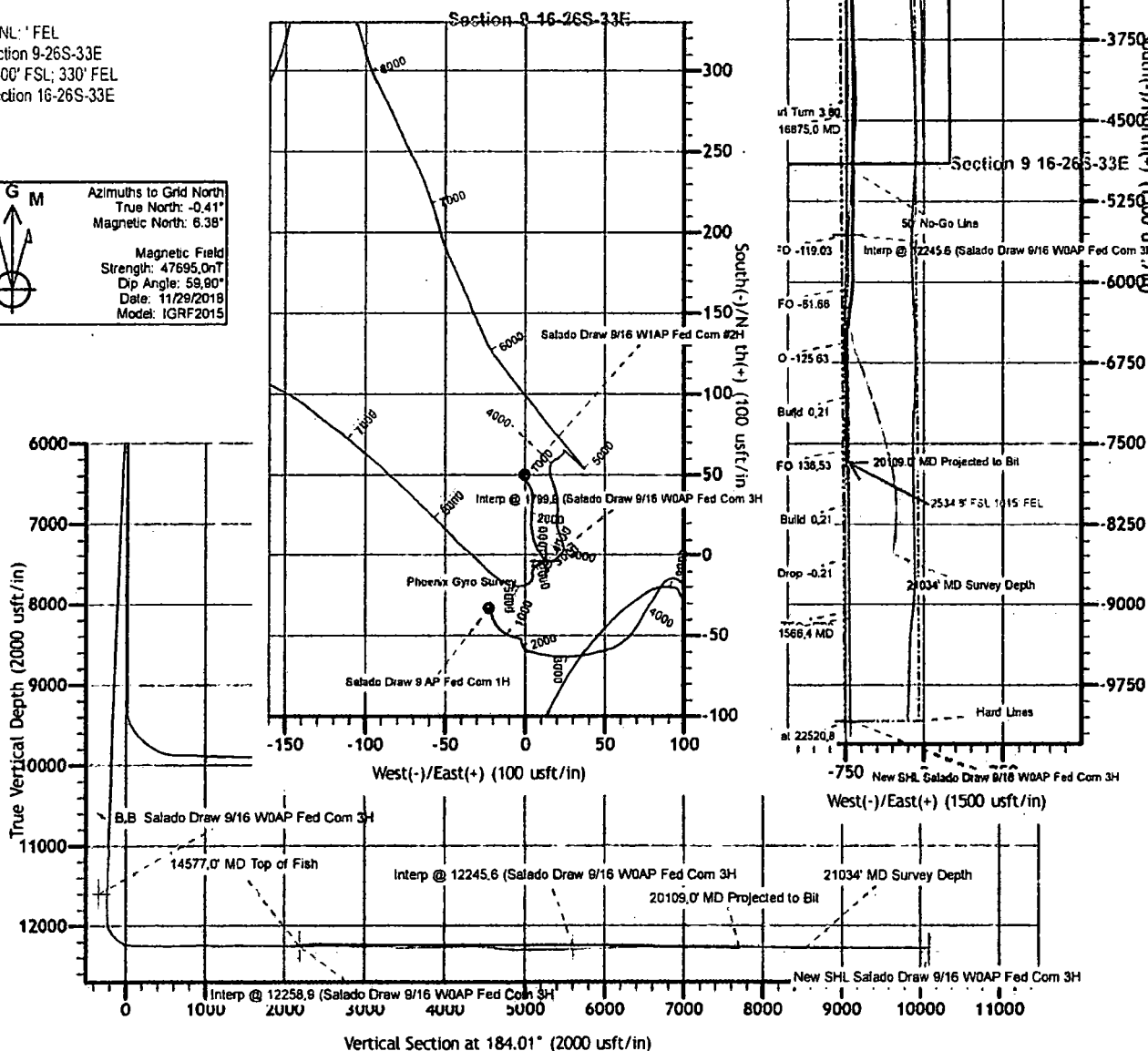
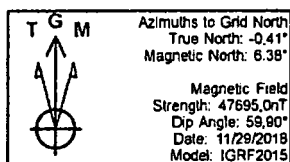
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	387936.57	777987.06	32° 3' 51.174 N	103° 34' 9.823 W

Slot

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	V Sect	Target
1	14500.0	89.65	178.40	12257.8	-2070.9	-751.3	0.00	0.00	2118.3	
2	14530.0	90.71	177.34	12257.7	-2100.9	-750.1	5.00	-45.00	2148.2	
3	14779.8	93.78	175.19	12247.9	-2349.9	-733.9	1.50	-35.00	2395.5	
4	14863.7	90.00	177.71	12245.1	-2433.6	-728.7	5.41	146.32	2478.6	
5	16713.7	90.00	177.71	12245.1	-4282.1	-654.7	0.00	0.00	4317.4	
6	16875.0	90.00	183.84	12245.1	-4443.3	-656.9	3.80	90.00	4478.4	
7	18000.0	90.00	183.84	12245.1	-5595.8	-732.2	0.00	0.00	5603.3	
8	18501.0	88.89	181.83	12250.0	-6066.1	-756.9	0.46	-119.03	6104.2	
9	19000.9	89.97	179.83	12255.0	-6586.0	-764.2	0.45	-81.66	6603.3	
10	19501.7	88.89	178.33	12260.0	-7066.6	-756.2	0.37	-125.63	7102.1	
11	19898.1	89.98	178.33	12265.0	-7563.8	-741.7	0.21	0.00	7597.1	
12	20500.9	88.90	178.33	12270.0	-8065.4	-731.4	0.28	136.53	8096.8	
13	21002.7	89.98	179.33	12275.0	-8567.2	-725.6	0.21	0.00	8597.0	
14	21501.2	88.89	179.33	12280.0	-9065.6	-719.8	0.21	180.00	9093.7	
15	21566.4	90.04	179.23	12280.6	-9130.8	-719.0	1.78	-5.20	9158.7	
16	22520.8	90.04	179.23	12280.0	-10085.1	-706.2	0.00	0.00	10109.8	New SHL Salado Draw 9/16 WOP Fed Ccm 3H

SHL: ' FNL: ' FEL
Section 9-26S-33E
PBHL: 100' FSL; 330' FEL
Section 16-26S-33E





Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Lea 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 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com

Site Position:	Northing:	387,936.57 usft	Latitude:	32° 3' 51.174 N
From: Map	Easting:	777,987.06 usft	Longitude:	103° 34' 9.823 W
Position Uncertainty: 0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well Salado Draw 9/16 W0AP Fed Com 3H

Well Position	+N-S	0.0 usft	Northing:	387,936.57 usft	Latitude:	32° 3' 51.174 N
	+E-W	0.0 usft	Easting:	777,987.06 usft	Longitude:	103° 34' 9.823 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,333.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/29/18	6.78	59.90	47,694.98378082

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	114.92

Survey Program Date 06/10/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,127.0	21,034.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
3,496.0	1.60	28.90	3,495.8	-7.0	15.7	17.2	114.11
3,590.0	1.10	20.40	3,589.7	-5.0	16.6	17.3	106.80
3,686.0	1.10	273.00	3,685.7	-4.1	16.0	16.5	104.37
3,781.0	1.70	289.30	3,780.7	-3.6	13.8	14.2	104.61
3,876.0	0.70	336.70	3,875.7	-2.6	12.2	12.5	101.97
3,969.0	0.10	66.10	3,968.7	-2.0	12.1	12.2	99.58
4,065.0	0.70	133.60	4,064.7	-2.4	12.6	12.8	100.84
4,160.0	1.30	236.70	4,159.7	-3.4	12.1	12.5	105.59
4,254.0	1.50	241.90	4,253.8	-4.5	10.1	11.0	114.09
4,348.0	1.70	236.80	4,347.6	-5.8	7.8	9.8	126.81
4,444.0	1.80	221.40	4,443.5	-7.8	5.6	9.6	144.07
4,539.0	1.60	182.80	4,538.5	-10.2	4.6	11.2	155.86
4,634.0	1.70	161.80	4,633.5	-12.9	4.9	13.8	158.97
4,729.0	1.60	216.40	4,728.4	-15.3	4.6	16.0	163.24
4,824.0	1.80	210.50	4,823.4	-17.6	3.1	17.9	170.16
4,918.0	2.80	262.20	4,917.3	-19.2	0.0	19.2	179.91
5,013.0	3.10	269.60	5,012.2	-19.5	-4.8	20.1	193.90
5,107.0	2.60	284.60	5,106.1	-19.0	-9.4	21.2	206.39
5,202.0	3.50	305.70	5,200.9	-16.8	-13.9	21.8	219.59
5,296.0	3.60	308.30	5,294.8	-13.3	-18.5	22.8	234.36
5,391.0	5.10	312.50	5,389.5	-8.6	-24.0	25.5	250.31
5,485.0	4.90	314.80	5,483.1	-2.9	-29.9	30.1	264.40
5,579.0	4.50	313.10	5,576.8	2.4	-35.5	35.5	273.90
5,674.0	4.50	313.80	5,671.5	7.5	-40.9	41.6	280.46
5,768.0	4.30	314.80	5,765.2	12.6	-46.0	47.7	285.29
5,863.0	3.90	315.00	5,860.0	17.4	-50.8	53.7	288.87
5,957.0	3.60	312.90	5,953.8	21.6	-55.3	59.3	291.39



Microsoft MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
6,053.0	3.40	313.60	8,049.6	25.7	-59.5	64.8	293.32
6,148.0	4.40	313.60	6,144.4	30.1	-64.2	70.9	295.13
6,242.0	4.40	315.80	6,238.1	35.2	-69.3	77.7	296.91
6,338.0	4.20	313.00	6,333.9	40.2	-74.5	84.6	298.37
6,432.0	4.20	312.40	6,427.6	44.9	-79.5	91.3	299.44
6,527.0	4.00	313.40	6,522.4	49.5	-84.5	97.9	300.37
6,622.0	4.40	312.10	6,617.1	54.2	-89.6	104.7	301.18
6,717.0	4.60	310.20	6,711.8	59.1	-95.2	112.1	301.84
6,812.0	4.30	311.50	6,806.5	64.0	-100.8	119.4	302.39
6,906.0	4.00	309.00	6,900.3	68.4	-106.0	126.1	302.82
7,001.0	3.80	309.80	6,995.1	72.5	-111.0	132.5	303.14
7,096.0	4.20	307.60	7,089.8	76.6	-116.2	139.1	303.40
7,191.0	4.30	305.60	7,184.6	80.8	-121.8	146.2	303.55
7,285.0	4.80	308.20	7,278.3	85.3	-127.8	153.6	303.72
7,380.0	4.60	308.60	7,373.0	90.1	-133.9	161.4	303.94
7,475.0	4.10	306.70	7,467.7	94.5	-139.6	168.6	304.10
7,570.0	3.90	300.00	7,562.4	98.2	-145.1	175.2	304.08
7,665.0	3.60	298.60	7,657.2	101.2	-150.5	181.4	303.92
7,760.0	4.00	295.90	7,752.0	104.1	-156.1	187.6	303.69
7,855.0	4.90	299.90	7,846.7	107.5	-162.6	195.0	303.48
7,949.0	5.40	304.80	7,940.4	112.1	-169.7	203.4	303.44
8,044.0	5.10	303.90	8,035.0	117.0	-176.9	212.1	303.48
8,139.0	5.20	313.90	8,129.6	122.3	-183.5	220.5	303.69
8,234.0	5.10	312.20	8,224.2	128.1	-189.7	228.9	304.03
8,327.0	4.70	309.40	8,316.9	133.3	-195.7	236.8	304.26
8,421.0	4.70	312.20	8,410.5	138.4	-201.6	244.5	304.47
8,516.0	4.40	310.30	8,505.2	143.3	-207.2	252.0	304.67



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
8,610.0	4.10	309.30	8,599.0	147.8	-212.6	258.9	304.81
8,705.0	4.10	306.70	8,693.7	152.0	-217.9	265.7	304.89
8,800.0	4.20	307.40	8,788.5	156.1	-223.4	272.6	304.94
8,894.0	3.80	308.80	8,882.3	160.2	-228.6	279.1	305.02
8,989.0	3.50	312.60	8,977.1	164.1	-233.2	285.1	305.14
9,084.0	3.30	310.70	9,071.9	167.8	-237.4	290.7	305.26
9,178.0	3.20	321.20	9,165.8	171.7	-241.1	295.9	305.45
9,273.0	3.10	325.60	9,260.6	175.8	-244.2	300.9	305.76
9,368.0	3.20	322.70	9,355.5	180.1	-247.2	305.9	306.07
9,463.0	3.30	320.60	9,450.3	184.3	-250.6	311.1	306.33
9,558.0	2.90	321.00	9,545.2	188.3	-253.8	316.0	306.56
9,652.0	2.90	322.00	9,639.1	192.0	-256.8	320.6	306.78
9,746.0	2.40	316.90	9,733.0	195.3	-259.6	324.9	306.95
9,841.0	2.20	311.20	9,827.9	198.0	-262.3	328.6	307.04
9,936.0	1.60	311.20	9,922.8	200.0	-264.7	331.8	307.08
10,031.0	1.70	288.30	10,017.8	201.3	-267.0	334.4	307.02
10,126.0	3.40	301.30	10,112.7	203.3	-270.8	338.6	306.89
10,221.0	3.40	303.40	10,207.5	206.3	-275.5	344.2	306.82
10,315.0	3.00	307.70	10,301.4	209.3	-279.8	349.4	306.80
10,410.0	2.90	307.00	10,396.3	212.3	-283.7	354.3	306.80
10,504.0	3.90	313.40	10,490.1	215.9	-287.9	359.9	306.86
10,598.0	3.70	316.90	10,583.9	220.3	-292.3	366.0	307.00
10,692.0	3.60	317.60	10,677.7	224.7	-296.4	371.9	307.17
10,787.0	3.30	313.60	10,772.5	228.8	-300.4	377.6	307.30
10,880.0	3.00	306.50	10,865.4	232.1	-304.3	382.7	307.34
10,974.0	3.20	303.30	10,959.2	235.0	-308.4	387.8	307.30
11,069.0	2.90	307.60	11,054.1	237.9	-312.6	392.8	307.28



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,163.0	2.80	304.50	11,148.0	240.7	-316.3	397.5	307.26
11,257.0	2.70	308.60	11,241.9	243.3	-320.0	402.0	307.26
11,352.0	2.60	321.30	11,336.8	246.4	-323.1	406.3	307.34
11,448.0	2.20	326.00	11,430.7	249.6	-325.4	410.1	307.49
11,462.0	2.20	325.00	11,446.7	250.1	-325.7	410.7	307.52
11,589.0	2.00	338.20	11,573.6	254.1	-328.0	414.9	307.77
11,620.3	2.03	341.36	11,604.9	255.2	-328.3	415.8	307.85
B.B. Salado Draw 9/16 W0AP Fed Com 3H							
11,683.0	2.10	347.40	11,667.5	257.3	-328.9	417.7	308.04
11,742.0	2.00	349.90	11,726.5	259.4	-329.4	419.3	308.22
11,776.0	2.00	346.10	11,760.5	260.6	-329.6	420.2	308.33
11,807.0	1.00	310.50	11,791.5	261.3	-329.9	420.9	308.37
11,839.0	1.70	205.00	11,823.5	261.0	-330.4	421.0	308.31
11,871.0	3.50	193.10	11,855.4	259.6	-330.8	420.5	308.13
11,902.0	4.10	189.80	11,886.4	257.6	-331.2	419.6	307.88
11,934.0	4.10	183.70	11,918.3	255.4	-331.5	418.4	307.61
11,965.0	6.50	178.60	11,949.1	252.5	-331.5	416.7	307.30
11,997.0	10.90	179.70	11,980.8	247.7	-331.4	413.7	306.77
12,028.0	16.40	181.20	12,010.9	240.4	-331.5	409.5	305.94
12,060.0	21.60	182.00	12,041.1	229.9	-331.8	403.7	304.72
12,091.0	27.40	185.30	12,069.3	217.1	-332.7	397.2	303.13
12,123.0	33.00	188.70	12,097.0	201.2	-334.7	390.5	301.01
12,155.0	37.40	191.00	12,123.1	183.0	-337.8	384.2	298.44
12,186.0	41.10	193.50	12,147.1	163.8	-342.0	379.2	295.60
12,218.0	48.00	195.50	12,169.9	142.1	-347.6	375.6	292.24
12,250.0	54.70	196.50	12,189.9	118.1	-354.5	373.7	288.43
12,281.0	59.70	197.70	12,206.7	93.2	-362.2	374.0	284.43



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,313.0	65.80	197.00	12,221.3	66.1	-370.7	376.5	280.11
12,344.0	72.80	196.70	12,232.3	38.4	-379.1	381.0	275.78
12,375.0	79.20	195.00	12,239.8	9.4	-387.3	387.4	271.39
12,407.0	84.30	194.30	12,244.4	-21.2	-395.3	395.9	266.93
12,438.0	84.60	194.60	12,247.4	-51.1	-403.0	406.2	262.78
12,470.0	85.00	194.50	12,250.3	-81.9	-411.0	419.1	258.73
12,502.0	89.00	194.40	12,251.9	-112.9	-419.0	433.9	254.92
12,565.0	91.00	194.60	12,251.9	-173.9	-434.7	468.2	248.20
12,659.0	88.90	195.90	12,252.0	-264.5	-459.5	530.2	240.07
12,753.0	88.30	196.00	12,254.3	-354.9	-485.3	601.2	233.82
12,848.0	90.40	196.90	12,255.4	-446.0	-512.2	679.1	228.95
12,943.0	92.80	198.30	12,252.7	-536.5	-540.9	761.8	225.23
13,038.0	90.40	196.80	12,250.1	-627.0	-569.5	847.1	222.25
13,132.0	89.60	195.10	12,250.1	-717.4	-595.4	932.3	219.69
13,227.0	89.50	193.90	12,250.8	-809.4	-619.1	1,019.0	217.41
13,321.0	92.80	195.10	12,248.9	-900.4	-642.7	1,106.2	215.52
13,415.0	87.00	190.80	12,249.1	-991.9	-663.7	1,193.5	213.79
13,510.0	88.00	189.90	12,253.3	-1,085.3	-680.8	1,281.1	212.10
13,605.0	91.50	189.40	12,253.7	-1,178.9	-696.7	1,369.4	210.58
13,700.0	91.70	188.70	12,251.0	-1,272.7	-711.6	1,458.1	209.21
13,795.0	90.00	183.40	12,249.6	-1,367.1	-721.6	1,545.9	207.83
13,891.0	88.80	182.80	12,250.6	-1,463.0	-726.8	1,633.6	206.42
13,986.0	90.80	183.90	12,250.9	-1,557.8	-732.4	1,721.4	205.18
14,081.0	89.60	185.10	12,250.6	-1,652.5	-739.8	1,810.6	204.12
14,175.0	88.80	184.00	12,251.9	-1,746.2	-747.3	1,899.4	203.17
14,269.0	88.80	182.50	12,253.9	-1,840.0	-752.6	1,988.0	202.25
14,364.0	88.20	179.20	12,256.4	-1,935.0	-754.0	2,076.7	201.29



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
14,459.0	90.20	178.70	12,257.7	-2,029.9	-752.3	2,164.8	200.33
14,570.0	88.70	177.90	12,258.8	-2,140.9	-749.0	2,268.1	199.28
14,577.0	88.71	177.87	12,258.9	-2,147.9	-748.7	2,274.6	199.22
14577.0' MD Top of Fish - Interp @ 12258.9 (Salado Draw 9/16 W0AP Fed Com 3H)							
14,664.0	88.80	177.50	12,260.8	-2,234.8	-745.2	2,355.7	198.44
14,758.0	90.80	178.90	12,261.1	-2,328.7	-742.3	2,444.2	197.68
14,854.0	89.30	179.30	12,261.1	-2,424.7	-740.8	2,535.3	196.99
14,948.0	89.70	180.50	12,261.9	-2,518.7	-740.6	2,625.3	196.39
15,043.0	91.60	181.20	12,260.8	-2,613.7	-742.0	2,717.0	195.85
15,138.0	90.00	180.20	12,259.5	-2,708.7	-743.2	2,808.8	195.34
15,233.0	87.60	178.90	12,261.5	-2,803.6	-742.4	2,900.3	194.83
15,327.0	89.70	180.50	12,263.7	-2,897.6	-741.9	2,991.1	194.36
15,422.0	88.40	179.30	12,265.3	-2,992.6	-741.8	3,083.1	193.92
15,518.0	91.30	181.50	12,265.5	-3,088.5	-742.4	3,176.5	193.52
15,612.0	86.60	178.20	12,267.2	-3,182.5	-742.2	3,267.9	193.13
15,706.0	85.20	177.60	12,274.0	-3,276.2	-738.8	3,358.4	192.71
15,802.0	89.10	179.90	12,278.7	-3,372.0	-736.7	3,451.5	192.32
15,896.0	90.90	181.90	12,278.7	-3,466.0	-738.2	3,543.7	192.02
15,989.0	90.50	180.10	12,277.6	-3,559.0	-739.8	3,635.0	191.74
16,084.0	90.30	180.60	12,276.9	-3,654.0	-740.4	3,728.2	191.45
16,178.0	90.70	180.40	12,276.1	-3,748.0	-741.2	3,820.5	191.19
16,273.0	91.70	180.20	12,274.1	-3,842.9	-741.7	3,913.9	190.92
16,368.0	90.20	177.80	12,272.5	-3,937.9	-740.0	4,006.8	190.64
16,464.0	90.40	177.70	12,272.0	-4,033.8	-736.2	4,100.5	190.34
16,559.0	91.50	179.00	12,270.5	-4,128.8	-733.5	4,193.4	190.07
16,654.0	90.40	179.80	12,268.9	-4,223.7	-732.5	4,286.8	189.84
16,749.0	91.50	181.20	12,267.3	-4,318.7	-733.3	4,380.5	189.64



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
16,781.0	90.40	180.90	12,266.8	-4,350.7	-733.9	4,412.2	189.58
16,812.0	88.80	180.60	12,267.0	-4,381.7	-734.3	4,442.8	189.51
16,844.0	85.90	179.00	12,268.5	-4,413.7	-734.2	4,474.3	189.44
16,877.0	86.20	179.90	12,270.8	-4,446.6	-733.9	4,506.8	189.37
16,908.0	85.90	180.00	12,272.9	-4,477.5	-733.9	4,537.3	189.31
16,940.0	85.40	180.00	12,275.3	-4,509.4	-733.9	4,568.8	189.24
17,034.0	83.90	180.00	12,284.1	-4,603.0	-733.9	4,661.2	189.06
17,128.0	84.70	179.60	12,293.4	-4,696.5	-733.6	4,753.5	188.88
17,159.0	85.50	179.60	12,296.1	-4,727.4	-733.3	4,784.0	188.82
17,191.0	86.60	180.50	12,298.3	-4,759.4	-733.4	4,815.5	188.76
17,223.0	88.20	181.10	12,299.7	-4,791.3	-733.8	4,847.2	188.71
17,254.0	88.30	181.70	12,300.7	-4,822.3	-734.6	4,877.9	188.66
17,286.0	89.20	183.00	12,301.4	-4,854.3	-735.9	4,909.7	188.62
17,317.0	91.30	182.70	12,301.2	-4,885.2	-737.4	4,940.6	188.58
17,349.0	92.40	182.70	12,300.2	-4,917.2	-738.9	4,972.4	188.55
17,380.0	91.60	182.20	12,299.1	-4,948.1	-740.3	5,003.2	188.51
17,411.0	90.00	182.30	12,298.7	-4,979.1	-741.5	5,034.0	188.47
17,442.0	89.60	181.80	12,298.8	-5,010.1	-742.6	5,064.8	188.43
17,474.0	89.80	181.50	12,299.0	-5,042.1	-743.5	5,096.6	188.39
17,505.0	90.30	179.00	12,298.9	-5,073.1	-743.6	5,127.3	188.34
17,540.0	90.00	176.90	12,298.8	-5,108.0	-742.4	5,161.7	188.27
17,571.0	89.80	176.80	12,298.9	-5,139.0	-740.7	5,192.1	188.20
17,603.0	89.80	177.60	12,299.0	-5,170.9	-739.1	5,223.5	188.13
17,635.0	90.00	178.20	12,299.1	-5,202.9	-737.9	5,255.0	188.07
17,666.0	89.10	178.10	12,299.3	-5,233.9	-736.9	5,285.5	188.01
17,698.0	89.50	178.50	12,299.7	-5,265.9	-736.0	5,317.1	187.96
17,730.0	91.40	176.80	12,299.4	-5,297.9	-734.7	5,348.6	187.90



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
17,761.0	92.00	177.40	12,298.5	-5,328.8	-733.1	5,379.0	187.83
17,793.0	90.90	178.50	12,297.7	-5,360.8	-732.0	5,410.5	187.78
17,825.0	90.00	180.80	12,297.5	-5,392.8	-731.8	5,442.2	187.73
17,856.0	90.50	181.30	12,297.3	-5,423.8	-732.3	5,473.0	187.69
17,888.0	91.60	181.60	12,296.7	-5,455.7	-733.2	5,504.8	187.65
17,919.0	93.50	181.10	12,295.4	-5,486.7	-733.9	5,535.6	187.62
17,951.0	91.60	179.80	12,293.9	-5,518.7	-734.1	5,567.3	187.58
17,983.0	91.90	180.80	12,293.0	-5,550.7	-734.3	5,599.0	187.54
18,000.0	92.28	179.48	12,292.3	-5,567.7	-734.3	5,615.9	187.51
Interp @ 12245.6 (Salado Draw 9/16 W0AP Fed Com 3H)							
18,014.0	92.60	178.40	12,291.7	-5,581.6	-734.1	5,629.7	187.49
18,046.0	93.30	179.30	12,290.1	-5,613.6	-733.4	5,661.3	187.44
18,077.0	92.60	178.60	12,288.5	-5,644.5	-732.9	5,691.9	187.40
18,109.0	92.60	179.30	12,287.1	-5,676.5	-732.3	5,723.5	187.35
18,140.0	91.00	175.60	12,286.1	-5,707.4	-730.9	5,754.1	187.30
18,172.0	89.60	172.40	12,285.9	-5,739.3	-727.6	5,785.2	187.22
18,204.0	89.80	173.10	12,286.1	-5,771.0	-723.5	5,816.2	187.15
18,235.0	90.00	177.40	12,286.1	-5,801.9	-721.0	5,846.5	187.08
18,267.0	89.50	179.10	12,286.3	-5,833.9	-720.0	5,878.1	187.04
18,298.0	89.70	181.90	12,286.5	-5,864.9	-720.3	5,908.9	187.00
18,330.0	90.60	183.70	12,286.4	-5,896.8	-721.8	5,940.8	186.98
18,362.0	91.60	183.60	12,285.8	-5,928.8	-723.9	5,972.8	186.96
18,393.0	92.10	183.00	12,284.8	-5,959.7	-725.6	6,003.7	186.94
18,425.0	93.80	183.00	12,283.1	-5,991.6	-727.3	6,035.6	186.92
18,456.0	95.20	182.50	12,280.7	-6,022.5	-728.8	6,066.4	186.90
18,488.0	96.10	182.80	12,277.6	-6,054.3	-730.3	6,098.2	186.88
18,519.0	95.60	182.50	12,274.4	-6,085.1	-731.7	6,128.9	186.86



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
18,551.0	93.00	180.80	12,272.0	-6,117.0	-732.6	6,160.7	186.83
18,583.0	92.70	180.90	12,270.4	-6,148.9	-733.1	6,192.5	186.80
18,615.0	90.90	180.20	12,269.4	-6,180.9	-733.4	6,224.3	186.77
18,646.0	89.70	178.10	12,269.2	-6,211.9	-732.9	6,255.0	186.73
18,678.0	89.90	176.40	12,269.4	-6,243.9	-731.4	6,286.6	186.68
18,709.0	90.20	175.90	12,269.3	-6,274.8	-729.3	6,317.0	186.63
18,741.0	89.80	175.10	12,269.3	-6,306.7	-726.8	6,348.4	186.57
18,772.0	90.70	174.00	12,269.2	-6,337.6	-723.9	6,378.8	186.52
18,804.0	90.90	172.10	12,268.7	-6,369.3	-720.0	6,409.9	186.45
18,836.0	90.40	170.60	12,268.4	-6,401.0	-715.2	6,440.8	186.38
18,867.0	90.30	169.90	12,268.2	-6,431.5	-709.9	6,470.6	186.30
18,899.0	89.70	169.60	12,268.2	-6,463.0	-704.2	6,501.3	186.22
18,931.0	89.40	169.80	12,268.4	-6,494.5	-698.5	6,531.9	186.14
18,963.0	90.00	169.30	12,268.6	-6,526.0	-692.7	6,562.6	186.06
18,994.0	89.50	167.20	12,268.7	-6,556.3	-686.4	6,592.1	185.98
19,026.0	88.50	165.00	12,269.3	-6,587.4	-678.7	6,622.2	185.88
19,058.0	88.40	165.00	12,270.2	-6,618.3	-670.4	6,652.1	185.78
19,089.0	87.90	160.90	12,271.2	-6,647.9	-661.4	6,680.7	185.68
19,108.0	88.60	158.90	12,271.8	-6,665.7	-654.8	6,697.8	185.61
19,140.0	88.70	158.00	12,272.5	-6,695.5	-643.1	6,726.3	185.49
19,171.0	89.40	158.00	12,273.0	-6,724.2	-631.5	6,753.8	185.36
19,203.0	91.70	155.70	12,272.7	-6,753.6	-618.9	6,781.9	185.24
19,235.0	92.70	156.50	12,271.5	-6,782.8	-605.9	6,809.9	185.10
19,266.0	93.20	157.40	12,269.9	-6,811.3	-593.8	6,837.2	184.98
19,330.0	93.60	160.70	12,266.1	-6,871.0	-571.0	6,894.7	184.75
19,361.0	92.20	161.20	12,264.5	-6,900.3	-560.9	6,923.0	184.65
19,393.0	93.00	161.00	12,263.1	-6,930.5	-550.5	6,952.3	184.54



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
19,425.0	92.40	160.50	12,261.6	-6,960.7	-540.0	6,981.6	184.44
19,457.0	92.30	160.40	12,260.3	-6,990.8	-529.3	7,010.8	184.33
19,488.0	92.70	161.00	12,258.9	-7,020.0	-519.0	7,039.2	184.23
19,520.0	93.10	161.00	12,257.3	-7,050.3	-508.6	7,068.6	184.13
19,551.0	92.30	161.60	12,255.8	-7,079.6	-498.7	7,097.1	184.03
19,583.0	91.90	161.60	12,254.6	-7,109.9	-488.6	7,126.7	183.93
19,615.0	91.10	162.10	12,253.8	-7,140.3	-478.6	7,156.3	183.84
19,646.0	89.80	162.40	12,253.6	-7,169.8	-469.2	7,185.2	183.74
19,678.0	89.90	162.60	12,253.7	-7,200.4	-459.6	7,215.0	183.65
19,709.0	89.00	161.80	12,253.9	-7,229.9	-450.1	7,243.9	183.56
19,741.0	87.90	161.20	12,254.8	-7,260.2	-439.9	7,273.5	183.47
19,773.0	87.70	161.10	12,256.0	-7,290.5	-429.6	7,303.1	183.37
19,805.0	88.50	161.70	12,257.1	-7,320.8	-419.4	7,332.8	183.28
19,836.0	89.10	162.50	12,257.8	-7,350.3	-409.9	7,361.7	183.19
19,867.0	89.30	162.60	12,258.2	-7,379.8	-400.6	7,390.7	183.11
19,899.0	90.60	163.50	12,258.2	-7,410.5	-391.3	7,420.8	183.02
19,931.0	90.70	164.20	12,257.9	-7,441.2	-382.4	7,451.0	182.94
19,962.0	90.70	164.30	12,257.5	-7,471.0	-374.0	7,480.4	182.87
19,994.0	90.10	164.10	12,257.2	-7,501.8	-365.2	7,510.7	182.79
20,026.0	88.40	163.40	12,257.7	-7,532.5	-356.3	7,541.0	182.71
20,089.0	87.30	163.40	12,260.0	-7,592.9	-338.3	7,600.4	182.55
20,121.0	89.70	165.20	12,260.9	-7,623.7	-329.6	7,630.8	182.48
20,152.0	90.20	166.20	12,260.9	-7,653.7	-322.0	7,660.5	182.41
20,184.0	91.10	167.40	12,260.5	-7,684.8	-314.7	7,691.3	182.34
20,215.0	91.20	167.60	12,259.9	-7,715.1	-308.0	7,721.3	182.29
20,247.0	90.00	169.30	12,259.6	-7,746.5	-301.8	7,752.3	182.23
20,278.0	90.90	170.40	12,259.3	-7,777.0	-296.1	7,782.6	182.18



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
20,310.0	88.70	170.30	12,259.4	-7,808.5	-290.7	7,813.9	182.13
20,342.0	87.60	170.80	12,260.5	-7,840.1	-285.5	7,845.3	182.09
20,373.0	89.00	171.40	12,281.4	-7,870.7	-280.7	7,875.7	182.04
20,405.0	87.70	172.50	12,262.3	-7,902.3	-276.2	7,907.2	182.00
20,434.0	89.10	173.30	12,263.1	-7,931.1	-272.6	7,935.8	181.97
20,465.0	88.20	174.10	12,263.9	-7,961.9	-269.2	7,966.5	181.94
20,496.0	87.50	175.10	12,265.0	-7,992.8	-266.3	7,997.2	181.91
20,528.0	88.00	176.90	12,266.3	-8,024.7	-264.1	8,029.0	181.88
20,559.0	88.30	177.40	12,267.3	-8,055.6	-262.5	8,059.9	181.87
20,591.0	88.20	180.00	12,268.3	-8,087.6	-261.8	8,091.8	181.85
20,623.0	88.20	182.40	12,269.3	-8,119.5	-262.5	8,123.8	181.85
20,654.0	88.40	183.20	12,270.2	-8,150.5	-264.0	8,154.8	181.86
20,718.0	87.50	183.80	12,272.5	-8,214.3	-267.9	8,218.7	181.87
20,749.0	87.30	183.70	12,273.9	-8,245.2	-269.9	8,249.7	181.88
20,781.0	87.10	183.50	12,275.4	-8,277.1	-271.9	8,281.6	181.88
20,844.0	87.10	184.10	12,278.6	-8,339.9	-276.1	8,344.5	181.90
20,939.0	87.30	186.40	12,283.3	-8,434.4	-284.8	8,439.2	181.93
21,034.0	87.30	187.00	12,287.7	-8,528.6	-295.9	8,533.8	181.99

21034' MD Survey Depth - New SHL Salado Draw 9/16 W0AP Fed Com 3H - PBHL Salado Draw 9/16 W0AP Fed Com 3H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,577.0	12,258.9	-2,147.9	-748.7	14577.0' MD Top of Fish
21,034.0	12,287.7	-8,528.6	-295.9	21034' MD Survey Depth



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Program Date 06/11/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,127.0	14,516.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination
14,516.0	20,109.0	Slk#2 Whipstock (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
967.0	0.46	95.27	967.0	-7.0	4.4	8.3	147.75
1,127.0	0.80	84.10	1,127.0	-7.0	6.2	9.3	138.41
1,221.0	0.80	67.70	1,220.9	-6.6	7.4	10.0	131.78
1,315.0	0.70	69.00	1,314.9	-6.2	8.6	10.6	125.81
1,410.0	0.70	68.50	1,409.9	-5.8	9.7	11.3	120.85
1,505.0	0.60	51.60	1,504.9	-5.3	10.6	11.8	116.36
1,600.0	0.60	60.50	1,599.9	-4.7	11.4	12.3	112.36
1,793.0	0.50	57.90	1,792.9	-3.8	13.0	13.5	106.08
1,800.0	0.45	63.32	1,799.9	-3.7	13.1	13.6	105.91
Interp @ 1799.9 (Salado Draw 9/16 W0AP Fed Com 3H)							
1,888.0	0.60	161.90	1,887.9	-4.0	13.5	14.1	106.50
1,982.0	0.40	76.30	1,981.9	-4.4	14.0	14.7	107.44
2,076.0	0.30	79.20	2,075.9	-4.3	14.5	15.2	106.36
2,171.0	0.60	94.30	2,170.9	-4.3	15.3	15.9	105.57
2,266.0	1.40	273.00	2,265.9	-4.2	14.6	15.2	106.10
2,361.0	1.10	268.20	2,360.9	-4.2	12.6	13.2	108.52
2,456.0	0.80	258.50	2,455.9	-4.4	11.0	11.8	111.66
2,548.0	0.50	248.40	2,547.8	-4.6	10.0	11.0	114.92
2,643.0	0.20	189.40	2,642.8	-5.0	9.6	10.8	117.37
2,738.0	0.30	144.50	2,737.8	-5.3	9.7	11.1	118.77
2,833.0	0.70	104.90	2,832.8	-5.7	10.4	11.8	118.62



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
2,927.0	1.20	99.20	2,926.8	-6.0	11.9	13.3	116.63
3,022.0	1.00	157.60	3,021.8	-6.9	13.2	14.9	117.57
3,116.0	1.30	149.20	3,115.8	-8.6	14.1	16.5	121.35
3,211.0	0.40	186.30	3,210.8	-9.8	14.6	17.6	123.97
3,305.0	0.40	324.30	3,304.8	-9.9	14.4	17.5	124.55
3,400.0	1.00	29.80	3,399.8	-8.9	14.6	17.1	121.40
3,496.0	1.60	28.90	3,495.8	-7.0	15.7	17.2	114.11
3,590.0	1.10	20.40	3,589.7	-5.0	16.6	17.3	106.80
3,686.0	1.10	273.00	3,685.7	-4.1	16.0	16.5	104.37
3,781.0	1.70	289.30	3,780.7	-3.6	13.8	14.2	104.61
3,876.0	0.70	336.70	3,875.7	-2.6	12.2	12.5	101.97
3,969.0	0.10	66.10	3,968.7	-2.0	12.1	12.2	99.58
4,065.0	0.70	133.60	4,064.7	-2.4	12.6	12.8	100.84
4,160.0	1.30	238.70	4,159.7	-3.4	12.1	12.5	105.59
4,254.0	1.50	241.90	4,253.6	-4.5	10.1	11.0	114.09
4,348.0	1.70	236.60	4,347.6	-5.8	7.8	9.8	126.81
4,444.0	1.80	221.40	4,443.5	-7.8	5.6	9.6	144.07
4,539.0	1.60	182.80	4,538.5	-10.2	4.6	11.2	155.86
4,634.0	1.70	161.80	4,633.5	-12.9	4.9	13.8	158.97
4,729.0	1.60	216.40	4,728.4	-15.3	4.6	16.0	163.24
4,824.0	1.80	210.50	4,823.4	-17.6	3.1	17.9	170.16
4,918.0	2.80	262.20	4,917.3	-19.2	0.0	19.2	179.91
5,013.0	3.10	269.60	5,012.2	-19.5	-4.8	20.1	193.90
5,107.0	2.60	284.60	5,106.1	-19.0	-9.4	21.2	206.39
5,202.0	3.50	305.70	5,200.9	-16.8	-13.9	21.8	219.59
5,296.0	3.60	308.30	5,294.8	-13.3	-18.5	22.8	234.36
5,391.0	5.10	312.50	5,389.5	-8.6	-24.0	25.5	250.31



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
5,485.0	4.90	314.80	5,483.1	-2.9	-29.9	30.1	264.40
5,579.0	4.50	313.10	5,576.8	2.4	-35.5	35.5	273.90
5,674.0	4.50	313.80	5,671.5	7.5	-40.9	41.6	280.46
5,768.0	4.30	314.80	5,765.2	12.6	-46.0	47.7	285.29
5,863.0	3.90	315.00	5,860.0	17.4	-50.8	53.7	288.87
5,957.0	3.60	312.90	5,953.8	21.6	-55.3	59.3	291.39
6,053.0	3.40	313.60	6,049.6	25.7	-59.5	64.8	293.32
6,148.0	4.40	313.60	6,144.4	30.1	-64.2	70.9	295.13
6,242.0	4.40	315.80	6,238.1	35.2	-69.3	77.7	296.91
6,338.0	4.20	313.00	6,333.9	40.2	-74.5	84.6	298.37
6,432.0	4.20	312.40	6,427.6	44.9	-79.5	91.3	299.44
6,527.0	4.00	313.40	6,522.4	49.5	-84.5	97.9	300.37
6,622.0	4.40	312.10	6,617.1	54.2	-89.6	104.7	301.18
6,717.0	4.60	310.20	6,711.8	59.1	-95.2	112.1	301.84
6,812.0	4.30	311.50	6,806.5	64.0	-100.8	119.4	302.39
6,906.0	4.00	309.00	6,900.3	68.4	-106.0	126.1	302.82
7,001.0	3.80	309.80	6,995.1	72.5	-111.0	132.5	303.14
7,096.0	4.20	307.60	7,089.8	76.6	-116.2	139.1	303.40
7,191.0	4.30	305.60	7,184.6	80.8	-121.8	146.2	303.55
7,285.0	4.80	308.20	7,278.3	85.3	-127.8	153.6	303.72
7,380.0	4.60	308.60	7,373.0	90.1	-133.9	161.4	303.94
7,475.0	4.10	306.70	7,467.7	94.5	-139.6	168.6	304.10
7,570.0	3.90	300.00	7,562.4	98.2	-145.1	175.2	304.08
7,665.0	3.60	298.60	7,657.2	101.2	-150.5	181.4	303.92
7,760.0	4.00	295.90	7,752.0	104.1	-156.1	187.6	303.69
7,855.0	4.90	299.90	7,846.7	107.5	-162.6	195.0	303.48
7,949.0	5.40	304.80	7,940.4	112.1	-169.7	203.4	303.44



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
8,044.0	5.10	303.90	8,035.0	117.0	-176.9	212.1	303.48
8,139.0	5.20	313.90	8,129.6	122.3	-183.5	220.5	303.69
8,234.0	5.10	312.20	8,224.2	128.1	-189.7	228.9	304.03
8,327.0	4.70	309.40	8,316.9	133.3	-195.7	236.8	304.28
8,421.0	4.70	312.20	8,410.5	138.4	-201.6	244.5	304.47
8,516.0	4.40	310.30	8,505.2	143.3	-207.2	252.0	304.67
8,610.0	4.10	309.30	8,599.0	147.8	-212.6	258.9	304.81
8,705.0	4.10	308.70	8,693.7	152.0	-217.9	265.7	304.89
8,800.0	4.20	307.40	8,788.5	156.1	-223.4	272.6	304.94
8,894.0	3.80	308.80	8,882.3	160.2	-228.6	279.1	305.02
8,989.0	3.50	312.60	8,977.1	164.1	-233.2	285.1	305.14
9,084.0	3.30	310.70	9,071.9	167.8	-237.4	290.7	305.26
9,178.0	3.20	321.20	9,165.8	171.7	-241.1	295.9	305.45
9,273.0	3.10	325.60	9,260.6	175.8	-244.2	300.9	305.76
9,368.0	3.20	322.70	9,355.5	180.1	-247.2	305.9	306.07
9,463.0	3.30	320.60	9,450.3	184.3	-250.6	311.1	306.33
9,558.0	2.90	321.00	9,545.2	188.3	-253.8	316.0	306.56
9,652.0	2.90	322.00	9,639.1	192.0	-256.8	320.6	306.78
9,746.0	2.40	316.90	9,733.0	195.3	-259.6	324.9	306.95
9,841.0	2.20	311.20	9,827.9	198.0	-262.3	328.6	307.04
9,936.0	1.60	311.20	9,922.8	200.0	-264.7	331.8	307.08
10,031.0	1.70	288.30	10,017.8	201.3	-267.0	334.4	307.02
10,126.0	3.40	301.30	10,112.7	203.3	-270.8	338.6	306.89
10,221.0	3.40	303.40	10,207.5	206.3	-275.5	344.2	306.82
10,315.0	3.00	307.70	10,301.4	209.3	-279.8	349.4	306.80
10,410.0	2.90	307.00	10,396.3	212.3	-283.7	354.3	306.80
10,504.0	3.90	313.40	10,490.1	215.9	-287.9	359.9	306.86



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,598.0	3.70	316.90	10,583.9	220.3	-292.3	366.0	307.00
10,692.0	3.60	317.60	10,677.7	224.7	-296.4	371.9	307.17
10,787.0	3.30	313.60	10,772.5	228.8	-300.4	377.6	307.30
10,880.0	3.00	306.50	10,865.4	232.1	-304.3	382.7	307.34
10,974.0	3.20	303.30	10,959.2	235.0	-308.4	387.8	307.30
11,069.0	2.90	307.60	11,054.1	237.9	-312.6	392.8	307.28
11,163.0	2.80	304.50	11,148.0	240.7	-316.3	397.5	307.28
11,257.0	2.70	308.60	11,241.9	243.3	-320.0	402.0	307.26
11,352.0	2.60	321.30	11,336.8	246.4	-323.1	406.3	307.34
11,446.0	2.20	326.00	11,430.7	249.6	-325.4	410.1	307.49
11,462.0	2.20	325.00	11,446.7	250.1	-325.7	410.7	307.52
11,589.0	2.00	338.20	11,573.6	254.1	-328.0	414.9	307.77
11,620.3	2.03	341.36	11,604.9	255.2	-328.3	415.8	307.85
B.B. Salado Draw 9/16 W0AP Fed Com 3H							
11,683.0	2.10	347.40	11,667.5	257.3	-328.9	417.7	308.04
11,742.0	2.00	349.90	11,726.5	259.4	-329.4	419.3	308.22
11,776.0	2.00	346.10	11,760.5	260.6	-329.6	420.2	308.33
11,807.0	1.00	310.50	11,791.5	261.3	-329.9	420.9	308.37
11,839.0	1.70	205.00	11,823.5	261.0	-330.4	421.0	308.31
11,871.0	3.50	193.10	11,855.4	259.6	-330.8	420.5	308.13
11,902.0	4.10	189.80	11,886.4	257.6	-331.2	419.6	307.88
11,934.0	4.10	183.70	11,918.3	255.4	-331.5	418.4	307.61
11,965.0	6.50	178.60	11,949.1	252.5	-331.5	416.7	307.30
11,997.0	10.90	179.70	11,980.8	247.7	-331.4	413.7	306.77
12,028.0	16.40	181.20	12,010.9	240.4	-331.5	409.5	305.94
12,060.0	21.60	182.00	12,041.1	229.9	-331.8	403.7	304.72
12,091.0	27.40	185.30	12,069.3	217.1	-332.7	397.2	303.13



Microsoft MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,123.0	33.00	188.70	12,097.0	201.2	-334.7	390.5	301.01
12,155.0	37.40	191.00	12,123.1	183.0	-337.8	384.2	298.44
12,186.0	41.10	193.50	12,147.1	163.8	-342.0	379.2	295.60
12,218.0	48.00	195.50	12,169.9	142.1	-347.6	375.6	292.24
12,250.0	54.70	196.50	12,189.9	118.1	-354.5	373.7	288.43
12,281.0	59.70	197.70	12,206.7	93.2	-362.2	374.0	284.43
12,313.0	65.80	197.00	12,221.3	66.1	-370.7	376.5	280.11
12,344.0	72.80	196.70	12,232.3	38.4	-379.1	381.0	275.78
12,375.0	79.20	195.00	12,239.8	9.4	-387.3	387.4	271.39
12,407.0	84.30	194.30	12,244.4	-21.2	-395.3	395.9	266.93
12,438.0	84.60	194.60	12,247.4	-51.1	-403.0	406.2	262.78
12,470.0	85.00	194.50	12,250.3	-81.9	-411.0	419.1	258.73
12,502.0	89.00	194.40	12,251.9	-112.9	-419.0	433.9	254.92
12,565.0	91.00	194.60	12,251.9	-173.9	-434.7	468.2	248.20
12,659.0	88.90	195.90	12,252.0	-264.5	-459.5	530.2	240.07
12,753.0	88.30	196.00	12,254.3	-354.9	-485.3	601.2	233.82
12,848.0	90.40	196.90	12,255.4	-446.0	-512.2	679.1	228.95
12,943.0	92.80	198.30	12,252.7	-536.5	-540.9	761.8	225.23
13,038.0	90.40	196.80	12,250.1	-627.0	-569.5	847.1	222.25
13,132.0	89.60	195.10	12,250.1	-717.4	-595.4	932.3	219.69
13,227.0	89.50	193.90	12,250.8	-809.4	-619.1	1,019.0	217.41
13,321.0	92.80	195.10	12,248.9	-900.4	-642.7	1,106.2	215.52
13,415.0	87.00	190.80	12,249.1	-991.9	-663.7	1,193.5	213.79
13,510.0	88.00	189.90	12,253.3	-1,085.3	-680.8	1,281.1	212.10
13,605.0	91.50	189.40	12,253.7	-1,178.9	-696.7	1,369.4	210.58
13,700.0	91.70	188.70	12,251.0	-1,272.7	-711.6	1,458.1	209.21
13,795.0	90.00	183.40	12,249.6	-1,367.1	-721.6	1,545.9	207.83



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,891.0	88.80	182.80	12,250.6	-1,463.0	-726.8	1,633.6	206.42
13,986.0	90.80	183.90	12,250.9	-1,557.8	-732.4	1,721.4	205.18
14,081.0	89.60	185.10	12,250.6	-1,652.5	-739.8	1,810.6	204.12
14,175.0	88.80	184.00	12,251.9	-1,746.2	-747.3	1,899.4	203.17
14,269.0	88.80	182.50	12,253.9	-1,840.0	-752.6	1,988.0	202.25
14,364.0	88.20	179.20	12,256.4	-1,935.0	-754.0	2,076.7	201.29
14,459.0	90.20	178.70	12,257.7	-2,029.9	-752.3	2,164.8	200.33
14,516.0	96.10	182.30	12,254.6	-2,086.8	-752.8	2,218.4	199.84
14,547.0	96.40	182.20	12,251.2	-2,117.6	-754.0	2,247.8	199.60
14,576.0	97.76	180.21	12,247.6	-2,146.3	-754.6	2,275.1	199.37
Interp @ 12258.9 (Salado Draw 9/16 W0AP Fed Com 3H)							
14,579.0	97.90	180.00	12,247.2	-2,149.3	-754.6	2,278.0	199.35
14,610.0	100.00	178.80	12,242.4	-2,180.0	-754.3	2,306.8	199.09
14,642.0	99.80	176.50	12,236.9	-2,211.4	-753.0	2,336.1	198.80
14,674.0	97.60	172.20	12,232.0	-2,242.9	-749.9	2,364.9	198.49
14,705.0	94.00	169.90	12,228.9	-2,273.4	-745.1	2,392.4	198.15
14,737.0	91.40	168.10	12,227.4	-2,304.7	-739.0	2,420.3	197.78
14,768.0	90.60	168.00	12,226.9	-2,335.1	-732.6	2,447.3	197.42
14,800.0	89.50	168.20	12,226.8	-2,366.4	-726.0	2,475.2	197.05
14,831.0	88.40	168.80	12,227.4	-2,396.8	-719.8	2,502.5	196.72
14,863.0	88.50	172.10	12,228.3	-2,428.3	-714.5	2,531.2	196.40
14,895.0	90.00	176.20	12,228.7	-2,460.1	-711.2	2,560.9	196.12
14,926.0	89.90	178.60	12,228.7	-2,491.1	-709.8	2,590.2	195.90
14,958.0	90.40	178.60	12,228.6	-2,523.1	-709.0	2,620.8	195.70
14,989.0	90.40	178.20	12,228.4	-2,554.1	-708.2	2,650.4	195.50
15,021.0	88.70	178.40	12,228.7	-2,586.0	-707.2	2,681.0	195.29
15,052.0	88.00	178.10	12,229.6	-2,617.0	-706.3	2,710.6	195.10



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,084.0	88.00	178.10	12,230.7	-2,649.0	-705.2	2,741.2	194.91
15,115.0	88.10	178.40	12,231.7	-2,679.9	-704.3	2,770.9	194.72
15,147.0	88.60	180.00	12,232.7	-2,711.9	-703.8	2,801.8	194.55
15,179.0	88.60	180.10	12,233.4	-2,743.9	-703.8	2,832.8	194.39
15,210.0	88.60	180.10	12,234.2	-2,774.9	-703.9	2,862.8	194.23
15,242.0	88.80	180.60	12,234.9	-2,806.9	-704.1	2,893.9	194.08
15,273.0	89.00	180.70	12,235.5	-2,837.9	-704.4	2,924.0	193.94
15,336.0	89.00	180.30	12,236.6	-2,900.9	-705.0	2,985.3	193.66
15,368.0	88.10	180.10	12,237.4	-2,932.9	-705.1	3,016.4	193.52
15,399.0	87.70	179.80	12,238.6	-2,963.9	-705.1	3,046.6	193.38
15,431.0	88.00	178.20	12,239.8	-2,995.8	-704.5	3,077.5	193.23
15,462.0	87.30	177.00	12,241.0	-3,026.8	-703.2	3,107.4	193.08
15,494.0	86.80	176.80	12,242.7	-3,058.7	-701.5	3,138.1	192.92
15,525.0	88.20	178.30	12,244.0	-3,089.6	-700.2	3,168.0	192.77
15,557.0	88.80	179.30	12,244.9	-3,121.6	-699.5	3,199.0	192.63
15,588.0	88.80	179.80	12,245.5	-3,152.6	-699.3	3,229.2	192.51
15,620.0	89.50	179.60	12,246.0	-3,184.6	-699.1	3,260.4	192.38
15,683.0	90.00	180.10	12,246.3	-3,247.6	-698.9	3,321.9	192.15
15,777.0	90.20	178.40	12,246.1	-3,341.6	-697.7	3,413.6	191.79
15,872.0	89.20	178.70	12,246.6	-3,436.5	-695.3	3,506.2	191.44
15,966.0	90.20	178.40	12,247.1	-3,530.5	-692.9	3,597.9	191.10
16,061.0	90.50	177.80	12,246.5	-3,625.5	-689.8	3,690.5	190.77
16,155.0	90.90	178.70	12,245.4	-3,719.4	-687.1	3,782.3	190.47
16,250.0	91.50	181.20	12,243.4	-3,814.4	-687.0	3,875.7	190.21
16,344.0	89.40	178.50	12,242.6	-3,908.4	-686.7	3,968.2	189.97
16,438.0	90.20	178.60	12,243.0	-4,002.3	-684.3	4,060.4	189.70
16,533.0	90.60	179.20	12,242.3	-4,097.3	-682.5	4,153.8	189.46



Microsoft MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
16,628.0	89.80	178.60	12,242.0	-4,192.3	-680.7	4,247.2	189.22
16,722.0	90.10	180.50	12,242.1	-4,286.3	-680.0	4,339.9	189.01
16,816.0	90.50	180.80	12,241.6	-4,380.3	-681.0	4,432.9	188.84
16,911.0	90.80	180.60	12,240.5	-4,475.3	-682.2	4,527.0	188.67
17,006.0	89.40	180.70	12,240.3	-4,570.3	-683.3	4,621.0	188.50
17,100.0	89.50	180.20	12,241.2	-4,664.2	-684.0	4,714.1	188.34
17,195.0	90.40	181.00	12,241.3	-4,759.2	-685.0	4,808.3	188.19
17,289.0	90.20	180.30	12,240.8	-4,853.2	-686.1	4,901.5	188.05
17,384.0	89.90	180.00	12,240.7	-4,948.2	-686.3	4,995.6	187.90
17,478.0	89.80	180.40	12,241.0	-5,042.2	-686.6	5,088.8	187.75
17,574.0	87.70	179.90	12,243.1	-5,138.2	-686.9	5,183.9	187.61
17,672.0	90.30	179.70	12,244.8	-5,236.2	-686.6	5,281.0	187.47
17,767.0	89.40	180.20	12,245.0	-5,331.2	-686.5	5,375.2	187.34
17,861.0	90.10	181.00	12,245.4	-5,425.2	-687.5	5,468.6	187.22
17,956.0	90.00	181.50	12,245.4	-5,520.1	-689.5	5,563.0	187.12
18,002.1	89.70	180.77	12,245.5	-5,566.3	-690.4	5,608.9	187.07
Interp @ 12245.6 (Salado Draw 9/16 W0AP Fed Com 3H)							
18,063.0	89.30	179.80	12,246.0	-5,627.1	-690.7	5,669.4	187.00
18,158.0	89.30	180.50	12,247.2	-5,722.1	-691.0	5,763.7	186.89
18,252.0	88.40	176.40	12,249.1	-5,816.1	-688.4	5,856.7	186.75
18,347.0	91.60	181.50	12,249.1	-5,911.0	-686.7	5,950.7	186.63
18,379.0	90.60	180.90	12,248.4	-5,943.0	-687.4	5,982.6	186.60
18,410.0	90.20	180.90	12,248.2	-5,974.0	-687.9	6,013.4	186.57
18,442.0	90.60	181.10	12,248.0	-6,006.0	-688.4	6,045.3	186.54
18,474.0	91.30	183.60	12,247.5	-6,037.9	-689.7	6,077.2	186.52
18,505.0	90.50	184.90	12,247.0	-6,068.8	-692.0	6,108.2	186.51
18,537.0	89.10	184.80	12,247.1	-6,100.7	-694.7	6,140.2	186.50



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
18,568.0	89.80	186.20	12,247.4	-6,131.6	-697.7	6,171.2	186.49
18,600.0	88.90	187.10	12,247.8	-6,163.4	-701.4	6,203.1	186.49
18,632.0	89.30	187.90	12,248.3	-6,195.1	-705.6	6,235.1	186.50
18,663.0	89.90	188.90	12,248.5	-6,225.8	-710.1	6,266.1	186.51
18,695.0	89.80	187.50	12,248.6	-6,257.4	-714.7	6,298.1	186.52
18,726.0	89.90	188.40	12,248.6	-6,288.1	-719.0	6,329.1	186.52
18,758.0	91.10	189.60	12,248.4	-6,319.7	-724.0	6,361.1	186.54
18,790.0	92.30	189.30	12,247.4	-6,351.3	-729.2	6,393.0	186.55
18,821.0	90.10	188.00	12,246.8	-6,381.9	-733.9	6,424.0	186.56
18,853.0	90.30	189.20	12,246.7	-6,413.6	-738.7	6,456.0	186.57
18,885.0	90.50	186.40	12,246.4	-6,445.3	-743.0	6,487.9	186.58
18,916.0	88.80	187.80	12,246.6	-6,476.0	-746.8	6,518.9	186.58
18,948.0	87.10	188.50	12,247.8	-6,507.7	-751.4	6,550.9	186.59
18,979.0	84.60	185.60	12,250.0	-6,538.4	-755.2	6,581.8	186.59
19,011.0	83.50	181.70	12,253.3	-6,570.1	-757.2	6,613.6	186.57
19,043.0	84.40	177.90	12,256.7	-6,601.9	-757.1	6,645.2	186.54
19,075.0	86.00	176.90	12,259.4	-6,633.8	-755.6	6,676.7	186.50
19,106.0	90.20	177.80	12,260.4	-6,664.7	-754.2	6,707.3	186.46
19,138.0	91.30	178.10	12,260.0	-6,696.7	-753.1	6,738.9	186.42
19,169.0	91.90	178.50	12,259.1	-6,727.7	-752.1	6,769.6	186.38
19,201.0	90.80	177.70	12,258.4	-6,759.6	-751.1	6,801.2	186.34
19,232.0	88.00	177.00	12,258.7	-6,790.6	-749.7	6,831.9	186.30
19,264.0	88.10	177.90	12,259.8	-6,822.6	-748.2	6,863.5	186.26
19,296.0	88.80	179.10	12,260.6	-6,854.5	-747.4	6,895.2	186.22
19,327.0	87.00	178.50	12,261.8	-6,885.5	-746.7	6,925.9	186.19
19,359.0	87.40	178.90	12,263.3	-6,917.5	-746.0	6,957.6	186.16
19,391.0	90.70	180.10	12,263.9	-6,949.4	-745.7	6,989.3	186.12



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
19,423.0	90.90	180.40	12,263.4	-6,981.4	-745.9	7,021.2	186.10
19,454.0	88.20	179.60	12,263.7	-7,012.4	-745.9	7,052.0	186.07
19,486.0	88.40	179.60	12,264.6	-7,044.4	-745.7	7,083.8	186.04
19,518.0	89.30	180.40	12,265.3	-7,076.4	-745.7	7,115.6	186.02
19,549.0	89.40	180.60	12,265.6	-7,107.4	-745.9	7,146.4	185.99
19,581.0	89.20	180.50	12,266.0	-7,139.4	-746.2	7,178.3	185.97
19,613.0	91.10	181.30	12,265.9	-7,171.4	-746.7	7,210.2	185.94
19,644.0	90.50	181.30	12,265.5	-7,202.4	-747.4	7,241.1	185.92
19,676.0	87.30	179.60	12,266.1	-7,234.4	-747.7	7,272.9	185.90
19,707.0	86.50	179.10	12,267.8	-7,265.3	-747.3	7,303.7	185.87
19,739.0	89.20	179.50	12,269.0	-7,297.3	-746.9	7,335.4	185.84
19,771.0	90.20	180.40	12,269.1	-7,329.3	-746.9	7,367.3	185.82
19,802.0	90.20	180.40	12,269.0	-7,360.3	-747.1	7,398.1	185.80
19,834.0	90.50	179.90	12,268.8	-7,392.3	-747.2	7,430.0	185.77
19,866.0	88.60	179.80	12,269.1	-7,424.3	-747.1	7,461.8	185.75
19,897.0	88.40	180.10	12,269.9	-7,455.3	-747.1	7,492.6	185.72
19,929.0	87.90	179.60	12,270.9	-7,487.3	-747.0	7,524.4	185.70
19,960.0	88.70	178.60	12,271.9	-7,518.3	-746.5	7,555.2	185.67
20,005.0	88.50	177.60	12,273.0	-7,563.2	-745.0	7,599.8	185.63
20,109.0	88.50	177.60	12,275.7	-7,667.1	-740.7	7,702.8	185.52

20109.0' MD Projected to Bit - New SHL Salado Draw 9/16 W0AP Fed Com 3H - PBHL Salado Draw 9/16 W0AP Fed Com 3H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
20,109.0	12,275.7	-7,667.1	-740.7	20109.0' MD Projected to Bit