

Submit 1 Copy To Appropriate District

Office

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

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-51217	
5. Indicate Type of Lease STATE ☐ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Zach 17/8 B2MD Fed Com	
8. Well Number	2H
9. OGRID Number	14744
10. Pool name or Wildcat Bradley; Bone Spring	
4. Well Location Unit Letter <u>D</u> : <u>210</u> feet from the <u>North</u> line and <u>1220</u> feet from the <u>West</u> line Section <u>20</u> Township <u>26S</u> Range <u>33E</u> NMPM <u>83</u> County <u>Lea</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) KB: 3289'	

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator Mewbourne Oil Co	
3. Address of Operator PO Box 5270, Hobbs, NM 88241	
4. Well Location Unit Letter <u>D</u> : <u>210</u> feet from the <u>North</u> line and <u>1220</u> feet from the <u>West</u> line Section <u>20</u> Township <u>26S</u> Range <u>33E</u> NMPM <u>83</u> County <u>Lea</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) KB: 3289'	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☒		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Mewbourne Oil Company requests that the following changes be made to Zach 17/8 B2MD Fed Com #2H (API# 30-025-51217) well:

- Well name change from Zach 17/8 B2MD Fed Com #2H (API# 30-025-51217) to Zach 17/8 Fed Com #522H
- SHL change f/ 210 FNL & 1220 FWL (20) to 210 FNL & 1190 FWL (20)
- BHL change f/ 100 FNL & 990 FWL (8) to 100 FNL & 1305 FWL (8)
- Production csg: 7" 26# P-110 set @ 10,400'.
- Liner: 4.5" 13.5# P-110 set @ 10,192' – 21,650'.
- Change csg, cmt, & mud program according to new 7" & 4.5" csg design.
- Attached updated C102 to reflect name, SHL, & BHL changes.
- Attached updated Directional Plot & Plan
- Attached updated Additional Info.

Spud Date:

7/16/23

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Ryan McDaniel TITLE Engineer DATE 7/14/23

Type or print name Ryan McDaniel E-mail address: RyanMcDaniel@mewbourne.com PHONE: 575-393-5905

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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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 30-025-51217	² Pool Code 7280	³ Pool Name Bradley; Bone Spring
⁴ Property Code	⁵ Property Name ZACH 17/8 FED COM	⁶ Well Number 522H
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁹ Elevation 3262'

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
D	20	26S	33E		210	NORTH	1190	WEST	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
D	8	26S	33E		100	NORTH	1305	WEST	LEA

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16 PRODUCING AREA PROJECT AREA GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N 377497.6 - E 768891.7 LAT: 32.0356944° N LONG: 103.5989835° W BOTTOM HOLE N 388167.1 - E 768926.1 LAT: 32.0650215° N LONG: 103.5986382° W CORNER DATA NAD 83 GRID - NM EAST <table border="0"> <tr> <td>A: FOUND BRASS CAP "1913" N 372421.7 - E 767741.1</td> <td>I: FOUND BRASS CAP "1913" N 385651.9 - E 772929.6</td> </tr> <tr> <td>B: FOUND BRASS CAP "1913" N 375063.7 - E 767720.4</td> <td>J: FOUND BRASS CAP "1913" N 383014.7 - E 772949.0</td> </tr> <tr> <td>C: FOUND BRASS CAP "1913" N 377699.3 - E 767700.4</td> <td>K: FOUND BRASS CAP "1913" N 380375.9 - E 772970.6</td> </tr> <tr> <td>D: FOUND BRASS CAP "1913" N 380341.1 - E 767680.1</td> <td>L: CALCULATED CORNER N 377735.7 - E 772989.6</td> </tr> <tr> <td>E: FOUND BRASS CAP "1939" N 382980.9 - E 767660.4</td> <td>M: FOUND BRASS CAP "1913" N 375095.7 - E 773009.6</td> </tr> <tr> <td>F: FOUND BRASS CAP "1913" N 385618.6 - E 767640.9</td> <td>N: FOUND BRASS CAP "1913" N 372456.8 - E 773029.3</td> </tr> <tr> <td>G: FOUND BRASS CAP "1913" N 388259.0 - E 767620.6</td> <td>O: FOUND BRASS CAP "1913" N 372440.5 - E 770383.5</td> </tr> <tr> <td>H: FOUND BRASS CAP "1913" N 388291.5 - E 772910.2</td> <td>P: FOUND BRASS CAP "1913" N 382997.7 - E 770302.6</td> </tr> </table>	A: FOUND BRASS CAP "1913" N 372421.7 - E 767741.1	I: FOUND BRASS CAP "1913" N 385651.9 - E 772929.6	B: FOUND BRASS CAP "1913" N 375063.7 - E 767720.4	J: FOUND BRASS CAP "1913" N 383014.7 - E 772949.0	C: FOUND BRASS CAP "1913" N 377699.3 - E 767700.4	K: FOUND BRASS CAP "1913" N 380375.9 - E 772970.6	D: FOUND BRASS CAP "1913" N 380341.1 - E 767680.1	L: CALCULATED CORNER N 377735.7 - E 772989.6	E: FOUND BRASS CAP "1939" N 382980.9 - E 767660.4	M: FOUND BRASS CAP "1913" N 375095.7 - E 773009.6	F: FOUND BRASS CAP "1913" N 385618.6 - E 767640.9	N: FOUND BRASS CAP "1913" N 372456.8 - E 773029.3	G: FOUND BRASS CAP "1913" N 388259.0 - E 767620.6	O: FOUND BRASS CAP "1913" N 372440.5 - E 770383.5	H: FOUND BRASS CAP "1913" N 388291.5 - E 772910.2	P: FOUND BRASS CAP "1913" N 382997.7 - E 770302.6	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. <i>Ryan McDaniel</i> 2/20/23 Signature Date Ryan McDaniel Printed Name RyanMcDaniel@mewbourne.com 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. 03/01/2021 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number REV: NAME & BH CHANGE-2/13/2023
A: FOUND BRASS CAP "1913" N 372421.7 - E 767741.1	I: FOUND BRASS CAP "1913" N 385651.9 - E 772929.6																
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S 89°35'29" W 2642.94' S 89°38'53" W 2646.38'



Mewbourne Oil Company

Sundry Request:

Mewbourne Oil Company requests that the following changes be made to Zach 17/8 B2MD Fed Com #2H (API# 30-025-51217) well:

1. Well name change from Zach 17/8 B2MD Fed Com #2H (API# 30-025-51217) to Zach 17/8 Fed Com #522H
2. SHL change f/ 210 FNL & 1220 FWL (20) to 210 FNL & 1190 FWL (20)
3. BHL change f/ 100 FNL & 990 FWL (8) to 100 FNL & 1305 FWL (8)
4. Production csg: 7" 26# P-110 set @ 10,400'.
5. Liner: 4.5" 13.5# P-110 set @ 10,192' – 21,650'.
6. Change csg, cmt, & mud program according to new 7" & 4.5" csg design.
7. Attached updated C102 to reflect name, SHL, & BHL changes.
8. Attached updated Directional Plot & Plan
9. Attached updated Additional Info.

Mewbourne Oil Company, Zach 17/8 Fed Com #522H
Sec 20, T26S, R33E
SL: 210' FNL & 1190' FWL (20)
BHL: 100' FNL & 1305' FWL (8)

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
8.75"	0'	10400'	7"	26	P110	LTC	1.19	1.90	2.36	3.07
6.125"	10192'	21650'	4.5"	13.5	P110	LTC	1.56	1.81	2.19	2.73
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
 Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Zach 17/8 Fed Com #522H
Sec 20, T26S, R33E
SL: 210' FNL & 1190' FWL (20)
BHL: 100' FNL & 1305' FWL (8)

Cementing Program

Casing	# Skis	Wt. lb/gal	Yld ft3/sack	Cu. Ft	% Excess	Slurry Description
Prod. Stg 1	320	12.5	2.12	678	30	Lead: Class C + Salt + Gel + Extender + LCM
	400	15.6	1.18	472	30	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	730	13.5	1.85	1351	25	Class H + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Production	4575'	30%
Liner	10192'	25%

Mud Program

MD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
4775'	10400'	Water Based Mud	8.6-9.5	28-34	N/C
10400'	21650'	OBM	10.0-12.0	30-40	<10cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
---	-----------------------------

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Zach 17/8 Fed Com	#522H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	20	26S	33E	-	473'	FNL	1305'	FWL	Lea
Latitude					Longitude			NAD	
32.0349707					-103.5986120			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	17	26S	33E	-	100'	FSL	1305'	FWL	Lea
Latitude					Longitude			NAD	
32.0365458					-103.5986133			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	8	26S	33E	-	100'	FNL	1305'	FWL	Lea
Latitude					Longitude			NAD	
32.0650215					-103.5986382			83	

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

Y

Is this well an infill well?

N

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

API #

Operator Name:	Property Name:	Well Number

Mewbourne Oil Company

Lea County, New Mexico NAD 83

Zach 17/8 Fed Com #522H

Sec 20 T26S R33E

SHL: 210' FNL & 1190' FWL (Sec 20)

BHL: 100' FNL & 1305' FWL (Sec 8)

Plan: Design #1

Standard Planning Report

20 February, 2023

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zach 17/8 Fed Com #522H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3289.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3289.0usft (Original Well Elev)
Site:	Zach 17/8 Fed Com #522H	North Reference:	Grid
Well:	Sec 20 T26S R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1305' FWL (Sec 8)		
Design:	Design #1		

Project	Lea County, New Mexico 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	Zach 17/8 Fed Com #522H		
Site Position:		Northing:	377,497.30 usft
From:	Map	Easting:	768,891.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.0356936
		Longitude:	-103.5989838

Well	Sec 20 T26S R33E		
Well Position	+N/-S	0.0 usft	Northing: 377,497.30 usft
	+E/-W	0.0 usft	Easting: 768,891.60 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,289.0 usft
Grid Convergence:	0.39 °	Ground Level:	3,261.0 usft

Wellbore	BHL: 100' FNL & 1305' FWL (Sec 8)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.15	59.92	48,147.01888393

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.19

Plan Survey Tool Program	Date	2/20/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	21,650.0	Design #1 (BHL: 100' FNL & 1305	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,113.0	2.26	155.95	3,113.0	-2.0	0.9	2.00	2.00	0.00	155.95	
10,278.6	2.26	155.95	10,273.0	-260.2	116.1	0.00	0.00	0.00	0.00	
10,391.6	0.00	0.00	10,386.0	-262.2	117.0	2.00	-2.00	0.00	180.00	KOP: 473' FNL & 130
11,299.0	90.72	359.57	10,959.0	318.0	112.7	10.00	10.00	0.00	-0.43	
21,650.0	90.72	359.57	10,829.0	10,667.9	35.1	0.00	0.00	0.00	0.00	BHL: 100' FNL & 1305'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zach 17/8 Fed Com #522H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3289.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3289.0usft (Original Well Elev)
Site:	Zach 17/8 Fed Com #522H	North Reference:	Grid
Well:	Sec 20 T26S R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1305' FWL (Sec 8)		
Design:	Design #1		

Planned 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
SHL: 210' FNL & 1190' FWL (Sec 20)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	155.95	3,100.0	-1.6	0.7	-1.6	2.00	2.00	0.00
3,113.0	2.26	155.95	3,113.0	-2.0	0.9	-2.0	2.00	2.00	0.00
3,200.0	2.26	155.95	3,199.9	-5.2	2.3	-5.2	0.00	0.00	0.00
3,300.0	2.26	155.95	3,299.8	-8.8	3.9	-8.8	0.00	0.00	0.00
3,400.0	2.26	155.95	3,399.7	-12.4	5.5	-12.4	0.00	0.00	0.00
3,500.0	2.26	155.95	3,499.7	-16.0	7.1	-16.0	0.00	0.00	0.00
3,600.0	2.26	155.95	3,599.6	-19.6	8.7	-19.5	0.00	0.00	0.00
3,700.0	2.26	155.95	3,699.5	-23.2	10.3	-23.1	0.00	0.00	0.00
3,800.0	2.26	155.95	3,799.4	-26.8	12.0	-26.7	0.00	0.00	0.00
3,900.0	2.26	155.95	3,899.4	-30.4	13.6	-30.3	0.00	0.00	0.00
4,000.0	2.26	155.95	3,999.3	-34.0	15.2	-33.9	0.00	0.00	0.00
4,100.0	2.26	155.95	4,099.2	-37.6	16.8	-37.5	0.00	0.00	0.00
4,200.0	2.26	155.95	4,199.1	-41.2	18.4	-41.1	0.00	0.00	0.00
4,300.0	2.26	155.95	4,299.0	-44.8	20.0	-44.7	0.00	0.00	0.00
4,400.0	2.26	155.95	4,399.0	-48.4	21.6	-48.3	0.00	0.00	0.00
4,500.0	2.26	155.95	4,498.9	-52.0	23.2	-51.9	0.00	0.00	0.00
4,600.0	2.26	155.95	4,598.8	-55.6	24.8	-55.5	0.00	0.00	0.00
4,700.0	2.26	155.95	4,698.7	-59.2	26.4	-59.1	0.00	0.00	0.00
4,800.0	2.26	155.95	4,798.7	-62.8	28.0	-62.7	0.00	0.00	0.00
4,900.0	2.26	155.95	4,898.6	-66.4	29.6	-66.3	0.00	0.00	0.00
5,000.0	2.26	155.95	4,998.5	-70.0	31.2	-69.9	0.00	0.00	0.00
5,100.0	2.26	155.95	5,098.4	-73.6	32.8	-73.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zach 17/8 Fed Com #522H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3289.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3289.0usft (Original Well Elev)
Site:	Zach 17/8 Fed Com #522H	North Reference:	Grid
Well:	Sec 20 T26S R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1305' FWL (Sec 8)		
Design:	Design #1		

Planned 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)
5,200.0	2.26	155.95	5,198.3	-77.2	34.5	-77.1	0.00	0.00	0.00
5,300.0	2.26	155.95	5,298.3	-80.8	36.1	-80.7	0.00	0.00	0.00
5,400.0	2.26	155.95	5,398.2	-84.4	37.7	-84.3	0.00	0.00	0.00
5,500.0	2.26	155.95	5,498.1	-88.0	39.3	-87.9	0.00	0.00	0.00
5,600.0	2.26	155.95	5,598.0	-91.6	40.9	-91.5	0.00	0.00	0.00
5,700.0	2.26	155.95	5,698.0	-95.2	42.5	-95.1	0.00	0.00	0.00
5,800.0	2.26	155.95	5,797.9	-98.8	44.1	-98.7	0.00	0.00	0.00
5,900.0	2.26	155.95	5,897.8	-102.4	45.7	-102.3	0.00	0.00	0.00
6,000.0	2.26	155.95	5,997.7	-106.0	47.3	-105.9	0.00	0.00	0.00
6,100.0	2.26	155.95	6,097.6	-109.6	48.9	-109.5	0.00	0.00	0.00
6,200.0	2.26	155.95	6,197.6	-113.2	50.5	-113.1	0.00	0.00	0.00
6,300.0	2.26	155.95	6,297.5	-116.8	52.1	-116.7	0.00	0.00	0.00
6,400.0	2.26	155.95	6,397.4	-120.4	53.7	-120.3	0.00	0.00	0.00
6,500.0	2.26	155.95	6,497.3	-124.0	55.4	-123.9	0.00	0.00	0.00
6,600.0	2.26	155.95	6,597.3	-127.6	57.0	-127.5	0.00	0.00	0.00
6,700.0	2.26	155.95	6,697.2	-131.3	58.6	-131.1	0.00	0.00	0.00
6,800.0	2.26	155.95	6,797.1	-134.9	60.2	-134.7	0.00	0.00	0.00
6,900.0	2.26	155.95	6,897.0	-138.5	61.8	-138.3	0.00	0.00	0.00
7,000.0	2.26	155.95	6,996.9	-142.1	63.4	-141.8	0.00	0.00	0.00
7,100.0	2.26	155.95	7,096.9	-145.7	65.0	-145.4	0.00	0.00	0.00
7,200.0	2.26	155.95	7,196.8	-149.3	66.6	-149.0	0.00	0.00	0.00
7,300.0	2.26	155.95	7,296.7	-152.9	68.2	-152.6	0.00	0.00	0.00
7,400.0	2.26	155.95	7,396.6	-156.5	69.8	-156.2	0.00	0.00	0.00
7,500.0	2.26	155.95	7,496.6	-160.1	71.4	-159.8	0.00	0.00	0.00
7,600.0	2.26	155.95	7,596.5	-163.7	73.0	-163.4	0.00	0.00	0.00
7,700.0	2.26	155.95	7,696.4	-167.3	74.6	-167.0	0.00	0.00	0.00
7,800.0	2.26	155.95	7,796.3	-170.9	76.2	-170.6	0.00	0.00	0.00
7,900.0	2.26	155.95	7,896.2	-174.5	77.9	-174.2	0.00	0.00	0.00
8,000.0	2.26	155.95	7,996.2	-178.1	79.5	-177.8	0.00	0.00	0.00
8,100.0	2.26	155.95	8,096.1	-181.7	81.1	-181.4	0.00	0.00	0.00
8,200.0	2.26	155.95	8,196.0	-185.3	82.7	-185.0	0.00	0.00	0.00
8,300.0	2.26	155.95	8,295.9	-188.9	84.3	-188.6	0.00	0.00	0.00
8,400.0	2.26	155.95	8,395.9	-192.5	85.9	-192.2	0.00	0.00	0.00
8,500.0	2.26	155.95	8,495.8	-196.1	87.5	-195.8	0.00	0.00	0.00
8,600.0	2.26	155.95	8,595.7	-199.7	89.1	-199.4	0.00	0.00	0.00
8,700.0	2.26	155.95	8,695.6	-203.3	90.7	-203.0	0.00	0.00	0.00
8,800.0	2.26	155.95	8,795.5	-206.9	92.3	-206.6	0.00	0.00	0.00
8,900.0	2.26	155.95	8,895.5	-210.5	93.9	-210.2	0.00	0.00	0.00
9,000.0	2.26	155.95	8,995.4	-214.1	95.5	-213.8	0.00	0.00	0.00
9,100.0	2.26	155.95	9,095.3	-217.7	97.1	-217.4	0.00	0.00	0.00
9,200.0	2.26	155.95	9,195.2	-221.3	98.8	-221.0	0.00	0.00	0.00
9,300.0	2.26	155.95	9,295.2	-224.9	100.4	-224.6	0.00	0.00	0.00
9,400.0	2.26	155.95	9,395.1	-228.5	102.0	-228.2	0.00	0.00	0.00
9,500.0	2.26	155.95	9,495.0	-232.1	103.6	-231.8	0.00	0.00	0.00
9,600.0	2.26	155.95	9,594.9	-235.7	105.2	-235.4	0.00	0.00	0.00
9,700.0	2.26	155.95	9,694.8	-239.3	106.8	-239.0	0.00	0.00	0.00
9,800.0	2.26	155.95	9,794.8	-242.9	108.4	-242.6	0.00	0.00	0.00
9,900.0	2.26	155.95	9,894.7	-246.5	110.0	-246.2	0.00	0.00	0.00
10,000.0	2.26	155.95	9,994.6	-250.1	111.6	-249.8	0.00	0.00	0.00
10,100.0	2.26	155.95	10,094.5	-253.7	113.2	-253.4	0.00	0.00	0.00
10,200.0	2.26	155.95	10,194.5	-257.3	114.8	-257.0	0.00	0.00	0.00
10,278.6	2.26	155.95	10,273.0	-260.2	116.1	-259.8	0.00	0.00	0.00
10,300.0	1.83	155.95	10,294.4	-260.9	116.4	-260.5	2.00	-2.00	0.00
10,391.6	0.00	0.00	10,386.0	-262.2	117.0	-261.8	2.00	-2.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zach 17/8 Fed Com #522H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3289.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3289.0usft (Original Well Elev)
Site:	Zach 17/8 Fed Com #522H	North Reference:	Grid
Well:	Sec 20 T26S R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1305' FWL (Sec 8)		
Design:	Design #1		

Planned 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)
KOP: 473' FNL & 1305' FWL (Sec 20)									
10,400.0	0.84	359.57	10,394.4	-262.1	117.0	-261.8	10.00	10.00	0.00
10,450.0	5.84	359.57	10,444.3	-259.2	117.0	-258.8	10.00	10.00	0.00
10,500.0	10.83	359.57	10,493.7	-252.0	116.9	-251.6	10.00	10.00	0.00
10,550.0	15.83	359.57	10,542.4	-240.5	116.8	-240.1	10.00	10.00	0.00
10,600.0	20.83	359.57	10,589.8	-224.7	116.7	-224.3	10.00	10.00	0.00
10,650.0	25.83	359.57	10,635.7	-204.9	116.6	-204.6	10.00	10.00	0.00
10,700.0	30.83	359.57	10,679.7	-181.2	116.4	-180.8	10.00	10.00	0.00
10,750.0	35.83	359.57	10,721.5	-153.8	116.2	-153.4	10.00	10.00	0.00
10,800.0	40.83	359.57	10,760.7	-122.8	116.0	-122.4	10.00	10.00	0.00
10,850.0	45.83	359.57	10,797.0	-88.5	115.7	-88.1	10.00	10.00	0.00
10,900.0	50.83	359.57	10,830.3	-51.1	115.4	-50.7	10.00	10.00	0.00
10,950.0	55.83	359.57	10,860.1	-11.0	115.1	-10.7	10.00	10.00	0.00
11,000.0	60.83	359.57	10,886.4	31.5	114.8	31.9	10.00	10.00	0.00
11,050.0	65.83	359.57	10,908.8	76.2	114.5	76.5	10.00	10.00	0.00
11,100.0	70.83	359.57	10,927.3	122.6	114.1	123.0	10.00	10.00	0.00
11,150.0	75.82	359.57	10,941.6	170.5	113.8	170.9	10.00	10.00	0.00
11,200.0	80.82	359.57	10,951.7	219.5	113.4	219.8	10.00	10.00	0.00
11,250.0	85.82	359.57	10,957.5	269.1	113.0	269.5	10.00	10.00	0.00
11,291.7	90.00	359.57	10,959.0	310.8	112.7	311.2	10.00	10.00	0.00
FTP/LP: 100' FSL & 1305' FWL (Sec 17)									
11,299.0	90.72	359.57	10,959.0	318.0	112.7	318.4	10.00	10.00	0.00
11,300.0	90.72	359.57	10,959.0	319.1	112.6	319.4	0.00	0.00	0.00
11,400.0	90.72	359.57	10,957.7	419.0	111.9	419.4	0.00	0.00	0.00
11,500.0	90.72	359.57	10,956.5	519.0	111.1	519.4	0.00	0.00	0.00
11,600.0	90.72	359.57	10,955.2	619.0	110.4	619.4	0.00	0.00	0.00
11,700.0	90.72	359.57	10,954.0	719.0	109.6	719.4	0.00	0.00	0.00
11,800.0	90.72	359.57	10,952.7	819.0	108.9	819.4	0.00	0.00	0.00
11,900.0	90.72	359.57	10,951.5	919.0	108.1	919.3	0.00	0.00	0.00
12,000.0	90.72	359.57	10,950.2	1,019.0	107.4	1,019.3	0.00	0.00	0.00
12,100.0	90.72	359.57	10,948.9	1,119.0	106.7	1,119.3	0.00	0.00	0.00
12,200.0	90.72	359.57	10,947.7	1,219.0	105.9	1,219.3	0.00	0.00	0.00
12,300.0	90.72	359.57	10,946.4	1,318.9	105.2	1,319.3	0.00	0.00	0.00
12,400.0	90.72	359.57	10,945.2	1,418.9	104.4	1,419.3	0.00	0.00	0.00
12,500.0	90.72	359.57	10,943.9	1,518.9	103.7	1,519.3	0.00	0.00	0.00
12,600.0	90.72	359.57	10,942.7	1,618.9	102.9	1,619.2	0.00	0.00	0.00
12,700.0	90.72	359.57	10,941.4	1,718.9	102.2	1,719.2	0.00	0.00	0.00
12,800.0	90.72	359.57	10,940.1	1,818.9	101.4	1,819.2	0.00	0.00	0.00
12,900.0	90.72	359.57	10,938.9	1,918.9	100.7	1,919.2	0.00	0.00	0.00
13,000.0	90.72	359.57	10,937.6	2,018.9	99.9	2,019.2	0.00	0.00	0.00
13,100.0	90.72	359.57	10,936.4	2,118.9	99.2	2,119.2	0.00	0.00	0.00
13,200.0	90.72	359.57	10,935.1	2,218.9	98.4	2,219.2	0.00	0.00	0.00
13,300.0	90.72	359.57	10,933.9	2,318.8	97.7	2,319.2	0.00	0.00	0.00
13,400.0	90.72	359.57	10,932.6	2,418.8	96.9	2,419.1	0.00	0.00	0.00
13,500.0	90.72	359.57	10,931.4	2,518.8	96.2	2,519.1	0.00	0.00	0.00
13,600.0	90.72	359.57	10,930.1	2,618.8	95.4	2,619.1	0.00	0.00	0.00
13,700.0	90.72	359.57	10,928.8	2,718.8	94.7	2,719.1	0.00	0.00	0.00
13,800.0	90.72	359.57	10,927.6	2,818.8	93.9	2,819.1	0.00	0.00	0.00
13,900.0	90.72	359.57	10,926.3	2,918.8	93.2	2,919.1	0.00	0.00	0.00
14,000.0	90.72	359.57	10,925.1	3,018.8	92.4	3,019.1	0.00	0.00	0.00
14,100.0	90.72	359.57	10,923.8	3,118.8	91.7	3,119.0	0.00	0.00	0.00
14,200.0	90.72	359.57	10,922.6	3,218.7	90.9	3,219.0	0.00	0.00	0.00
14,300.0	90.72	359.57	10,921.3	3,318.7	90.2	3,319.0	0.00	0.00	0.00
14,400.0	90.72	359.57	10,920.1	3,418.7	89.4	3,419.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zach 17/8 Fed Com #522H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3289.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3289.0usft (Original Well Elev)
Site:	Zach 17/8 Fed Com #522H	North Reference:	Grid
Well:	Sec 20 T26S R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1305' FWL (Sec 8)		
Design:	Design #1		

Planned 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)	
14,500.0	90.72	359.57	10,918.8	3,518.7	88.7	3,519.0	0.00	0.00	0.00	
14,600.0	90.72	359.57	10,917.5	3,618.7	87.9	3,619.0	0.00	0.00	0.00	
14,700.0	90.72	359.57	10,916.3	3,718.7	87.2	3,719.0	0.00	0.00	0.00	
14,800.0	90.72	359.57	10,915.0	3,818.7	86.4	3,818.9	0.00	0.00	0.00	
14,900.0	90.72	359.57	10,913.8	3,918.7	85.7	3,918.9	0.00	0.00	0.00	
15,000.0	90.72	359.57	10,912.5	4,018.7	84.9	4,018.9	0.00	0.00	0.00	
15,100.0	90.72	359.57	10,911.3	4,118.6	84.2	4,118.9	0.00	0.00	0.00	
15,200.0	90.72	359.57	10,910.0	4,218.6	83.4	4,218.9	0.00	0.00	0.00	
15,300.0	90.72	359.57	10,908.8	4,318.6	82.7	4,318.9	0.00	0.00	0.00	
15,400.0	90.72	359.57	10,907.5	4,418.6	81.9	4,418.9	0.00	0.00	0.00	
15,500.0	90.72	359.57	10,906.2	4,518.6	81.2	4,518.8	0.00	0.00	0.00	
15,600.0	90.72	359.57	10,905.0	4,618.6	80.4	4,618.8	0.00	0.00	0.00	
15,700.0	90.72	359.57	10,903.7	4,718.6	79.7	4,718.8	0.00	0.00	0.00	
15,800.0	90.72	359.57	10,902.5	4,818.6	78.9	4,818.8	0.00	0.00	0.00	
15,900.0	90.72	359.57	10,901.2	4,918.6	78.2	4,918.8	0.00	0.00	0.00	
16,000.0	90.72	359.57	10,900.0	5,018.6	77.4	5,018.8	0.00	0.00	0.00	
16,100.0	90.72	359.57	10,898.7	5,118.5	76.7	5,118.8	0.00	0.00	0.00	
16,200.0	90.72	359.57	10,897.4	5,218.5	75.9	5,218.8	0.00	0.00	0.00	
16,300.0	90.72	359.57	10,896.2	5,318.5	75.2	5,318.7	0.00	0.00	0.00	
16,400.0	90.72	359.57	10,894.9	5,418.5	74.4	5,418.7	0.00	0.00	0.00	
16,500.0	90.72	359.57	10,893.7	5,518.5	73.7	5,518.7	0.00	0.00	0.00	
16,600.0	90.72	359.57	10,892.4	5,618.5	72.9	5,618.7	0.00	0.00	0.00	
16,700.0	90.72	359.57	10,891.2	5,718.5	72.2	5,718.7	0.00	0.00	0.00	
16,800.0	90.72	359.57	10,889.9	5,818.5	71.4	5,818.7	0.00	0.00	0.00	
16,900.0	90.72	359.57	10,888.7	5,918.5	70.7	5,918.7	0.00	0.00	0.00	
17,000.0	90.72	359.57	10,887.4	6,018.4	69.9	6,018.6	0.00	0.00	0.00	
17,100.0	90.72	359.57	10,886.1	6,118.4	69.2	6,118.6	0.00	0.00	0.00	
17,200.0	90.72	359.57	10,884.9	6,218.4	68.4	6,218.6	0.00	0.00	0.00	
17,300.0	90.72	359.57	10,883.6	6,318.4	67.7	6,318.6	0.00	0.00	0.00	
17,400.0	90.72	359.57	10,882.4	6,418.4	66.9	6,418.6	0.00	0.00	0.00	
17,500.0	90.72	359.57	10,881.1	6,518.4	66.2	6,518.6	0.00	0.00	0.00	
17,600.0	90.72	359.57	10,879.9	6,618.4	65.4	6,618.6	0.00	0.00	0.00	
17,700.0	90.72	359.57	10,878.6	6,718.4	64.7	6,718.5	0.00	0.00	0.00	
17,800.0	90.72	359.57	10,877.4	6,818.4	63.9	6,818.5	0.00	0.00	0.00	
17,900.0	90.72	359.57	10,876.1	6,918.3	63.2	6,918.5	0.00	0.00	0.00	
18,000.0	90.72	359.57	10,874.8	7,018.3	62.4	7,018.5	0.00	0.00	0.00	
18,100.0	90.72	359.57	10,873.6	7,118.3	61.7	7,118.5	0.00	0.00	0.00	
18,200.0	90.72	359.57	10,872.3	7,218.3	60.9	7,218.5	0.00	0.00	0.00	
18,300.0	90.72	359.57	10,871.1	7,318.3	60.2	7,318.5	0.00	0.00	0.00	
18,400.0	90.72	359.57	10,869.8	7,418.3	59.4	7,418.5	0.00	0.00	0.00	
18,500.0	90.72	359.57	10,868.6	7,518.3	58.7	7,518.4	0.00	0.00	0.00	
18,600.0	90.72	359.57	10,867.3	7,618.3	58.0	7,618.4	0.00	0.00	0.00	
18,700.0	90.72	359.57	10,866.0	7,718.3	57.2	7,718.4	0.00	0.00	0.00	
18,800.0	90.72	359.57	10,864.8	7,818.3	56.5	7,818.4	0.00	0.00	0.00	
18,900.0	90.72	359.57	10,863.5	7,918.2	55.7	7,918.4	0.00	0.00	0.00	
19,000.0	90.72	359.57	10,862.3	8,018.2	55.0	8,018.4	0.00	0.00	0.00	
19,100.0	90.72	359.57	10,861.0	8,118.2	54.2	8,118.4	0.00	0.00	0.00	
19,109.6	90.72	359.57	10,860.9	8,127.8	54.1	8,127.9	0.00	0.00	0.00	
PPP2: 2634' FSL & 1305' FWL (Sec 8)										
19,200.0	90.72	359.57	10,859.8	8,218.2	53.5	8,218.3	0.00	0.00	0.00	
19,300.0	90.72	359.57	10,858.5	8,318.2	52.7	8,318.3	0.00	0.00	0.00	
19,400.0	90.72	359.57	10,857.3	8,418.2	52.0	8,418.3	0.00	0.00	0.00	
19,500.0	90.72	359.57	10,856.0	8,518.2	51.2	8,518.3	0.00	0.00	0.00	

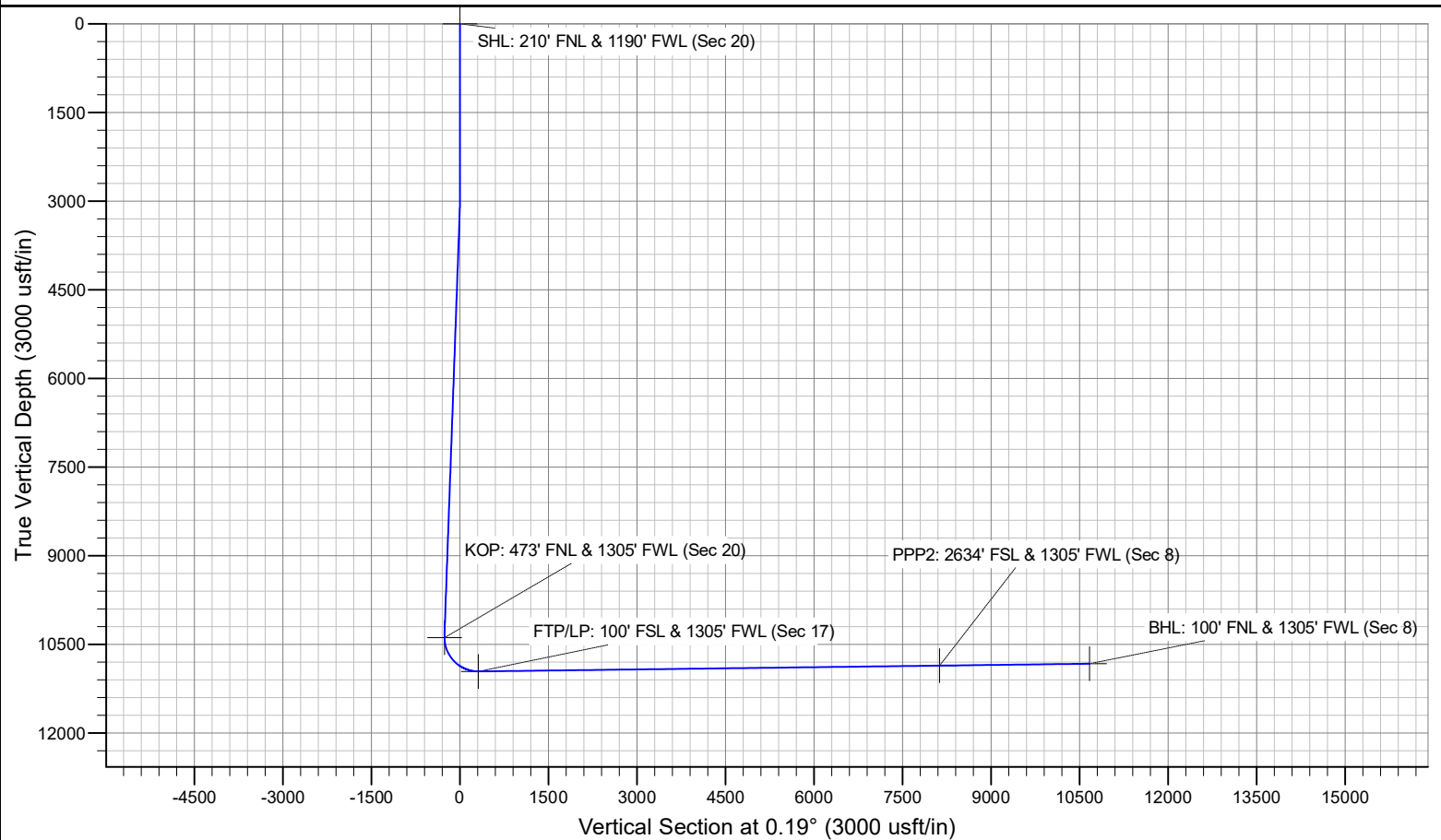
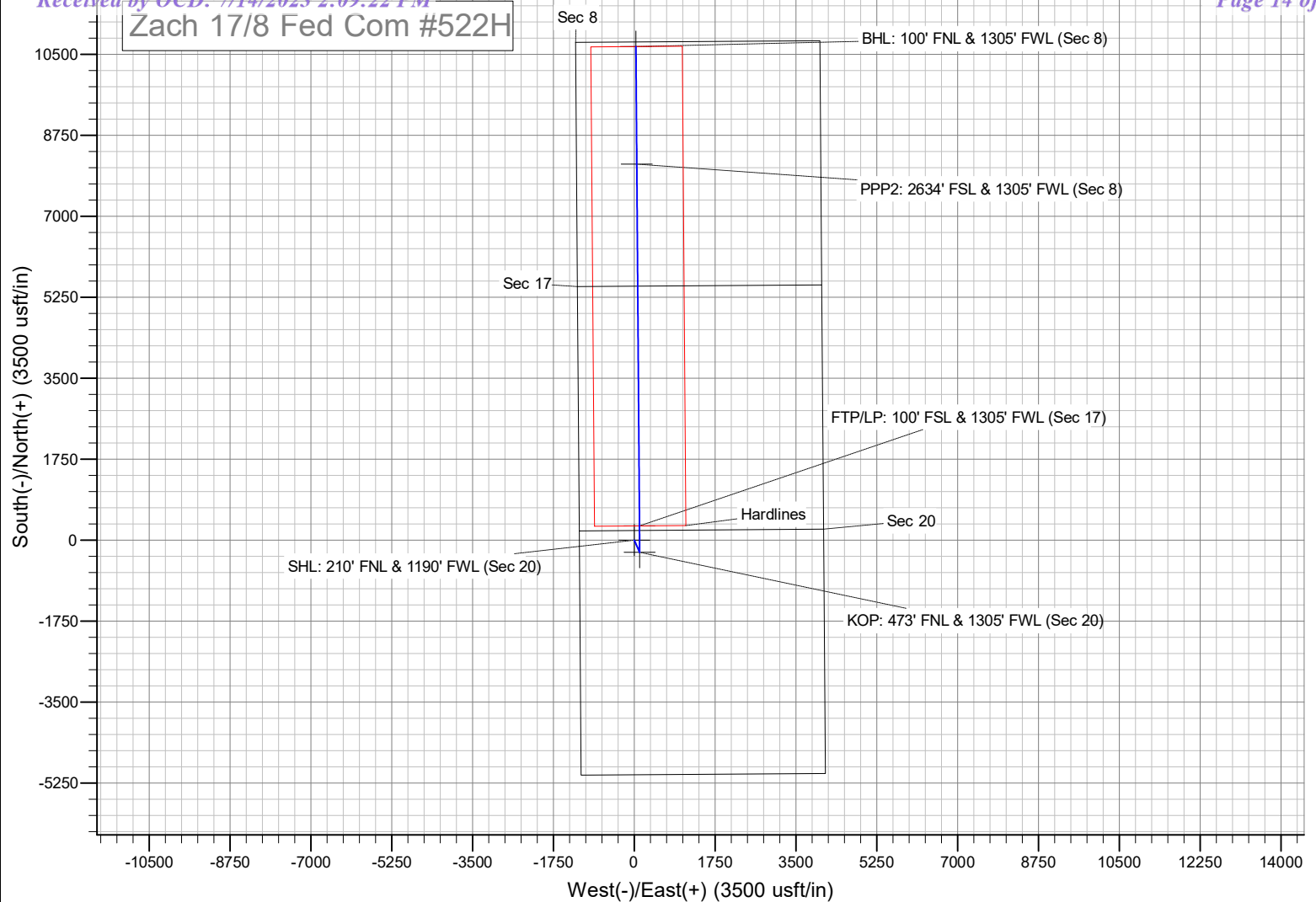
Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zach 17/8 Fed Com #522H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3289.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3289.0usft (Original Well Elev)
Site:	Zach 17/8 Fed Com #522H	North Reference:	Grid
Well:	Sec 20 T26S R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1305' FWL (Sec 8)		
Design:	Design #1		

Planned 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)	
19,600.0	90.72	359.57	10,854.7	8,618.2	50.5	8,618.3	0.00	0.00	0.00	
19,700.0	90.72	359.57	10,853.5	8,718.2	49.7	8,718.3	0.00	0.00	0.00	
19,800.0	90.72	359.57	10,852.2	8,818.1	49.0	8,818.3	0.00	0.00	0.00	
19,900.0	90.72	359.57	10,851.0	8,918.1	48.2	8,918.2	0.00	0.00	0.00	
20,000.0	90.72	359.57	10,849.7	9,018.1	47.5	9,018.2	0.00	0.00	0.00	
20,100.0	90.72	359.57	10,848.5	9,118.1	46.7	9,118.2	0.00	0.00	0.00	
20,200.0	90.72	359.57	10,847.2	9,218.1	46.0	9,218.2	0.00	0.00	0.00	
20,300.0	90.72	359.57	10,846.0	9,318.1	45.2	9,318.2	0.00	0.00	0.00	
20,400.0	90.72	359.57	10,844.7	9,418.1	44.5	9,418.2	0.00	0.00	0.00	
20,500.0	90.72	359.57	10,843.4	9,518.1	43.7	9,518.2	0.00	0.00	0.00	
20,600.0	90.72	359.57	10,842.2	9,618.1	43.0	9,618.2	0.00	0.00	0.00	
20,700.0	90.72	359.57	10,840.9	9,718.1	42.2	9,718.1	0.00	0.00	0.00	
20,800.0	90.72	359.57	10,839.7	9,818.0	41.5	9,818.1	0.00	0.00	0.00	
20,900.0	90.72	359.57	10,838.4	9,918.0	40.7	9,918.1	0.00	0.00	0.00	
21,000.0	90.72	359.57	10,837.2	10,018.0	40.0	10,018.1	0.00	0.00	0.00	
21,100.0	90.72	359.57	10,835.9	10,118.0	39.2	10,118.1	0.00	0.00	0.00	
21,200.0	90.72	359.57	10,834.7	10,218.0	38.5	10,218.1	0.00	0.00	0.00	
21,300.0	90.72	359.57	10,833.4	10,318.0	37.7	10,318.1	0.00	0.00	0.00	
21,400.0	90.72	359.57	10,832.1	10,418.0	37.0	10,418.0	0.00	0.00	0.00	
21,500.0	90.72	359.57	10,830.9	10,518.0	36.2	10,518.0	0.00	0.00	0.00	
21,600.0	90.72	359.57	10,829.6	10,618.0	35.5	10,618.0	0.00	0.00	0.00	
21,650.0	90.72	359.57	10,829.0	10,667.9	35.1	10,668.0	0.00	0.00	0.00	
BHL: 100' FNL & 1305' FWL (Sec 8)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL: 210' FNL & 1190' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	377,497.30	768,891.60	32.0356936	-103.5989838	
KOP: 473' FNL & 1305' I - plan hits target center - Point	0.00	0.00	10,386.0	-262.2	117.0	377,235.10	769,008.60	32.0349707	-103.5986120	
BHL: 100' FNL & 1305' F - plan hits target center - Point	0.00	0.00	10,829.0	10,667.9	35.1	388,165.20	768,926.70	32.0650164	-103.5986363	
PPP2: 2634' FSL & 1305' F - plan hits target center - Point	0.00	0.00	10,860.9	8,127.8	54.1	385,625.10	768,945.73	32.0580339	-103.5986307	
FTP/LP: 100' FSL & 1305' F - plan hits target center - Point	0.00	0.00	10,959.0	310.8	112.7	377,808.10	769,004.30	32.0365458	-103.5986133	

Zach 17/8 Fed Com #522H



Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NWNW / 210 FNL / 1220 FWL / TWSP: 26S / RANGE: 33E / SECTION: 20 / LAT: 32.0356942 / LONG: -103.5988865 (TVD: 0 feet, MD: 0 feet)

PPP: SWNW / 2460 FNL / 990 FWL / TWSP: 26S / RANGE: 33E / SECTION: 8 / LAT: 32.0580395 / LONG: -103.5996466 (TVD: 10569 feet, MD: 18712 feet)

PPP: SWSW / 100 FSL / 990 FWL / TWSP: 26S / RANGE: 33E / SECTION: 17 / LAT: 32.0368337 / LONG: -103.5996295 (TVD: 10659 feet, MD: 10997 feet)

BHL: NWNW / 100 FNL / 990 FWL / TWSP: 26S / RANGE: 33E / SECTION: 8 / LAT: 32.0650221 / LONG: -103.5996548 (TVD: 10539 feet, MD: 21253 feet)

CONFIDENTIAL

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 240548

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 240548
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	7/14/2023