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

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-015-53793

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: Full Tilt 18/7 Fed

1. Type of Well: Oil Well ☐ Gas Well ☑ Other

8. Well Number: 577H

2. Name of Operator: Mewbourne Oil Company

9. OGRID Number: 14744

3. Address of Operator: P.O. Box 5270 Hobbs, NM 88241

10. Pool name or Wildcat: Purple Sage;Wolfcamp Gas

4. Well Location
Unit Letter O : 515 feet from the South line and 1511 feet from the East line
Section 18 Township 26S Range 30E NMPM County Eddy

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*: 3098' GL

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 to make the following changes to the AAPD:
1. Change SHL from 287 FSL & 1390 FEL (Sec 18, T26S, R30E) to 430 FSL & 1511 FEL (Sec 18, T26S, R30E). Please see attached updated C102
2. Change BHL from 2430 FSL & 1650 FEL (Sec 7, T26S, R30E) to 2561 FSL & 1300 FEL (Sec 7, T26S, R30E). Please see attached updated C102
3. Change pool from Purple Sage; Wolfcamp (Gas) to Corral Canyon; Bone Spring, South
4. Change BOP/BOPE from 10M rating to 5M rating
5. Change Casing/Cement/Mud program

Please see attached drilling program and other documentation referencing design changes and data that corresponds to said procedural alterations.

Spud Date: 6/20/2023 Rig Release Date: 7/10/2023

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

SIGNATURE Gage Owen TITLE Engineer DATE 5/30/2023

Type or print name Gage Owen E-mail address: gowen@mewbourne.com PHONE: 575-552-6224

For State Use Only

APPROVED BY: TITLE Petroleum Specialist DATE 8/7/2023

Conditions of Approval (if any):

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	2 Pool Code	3 Pool Name
30-015-53793	13354	Corral Canyon; Bone Spring, South

4 Property Code	5 Property Name	6 Well Number
333935	**Full Tilt 18/7 Fed**	**577H**

7 OGRID NO.	8 Operator Name	9 Elevation
14744	**MEWBOURNE OIL COMPANY**	**3101'**

10 Surface Location

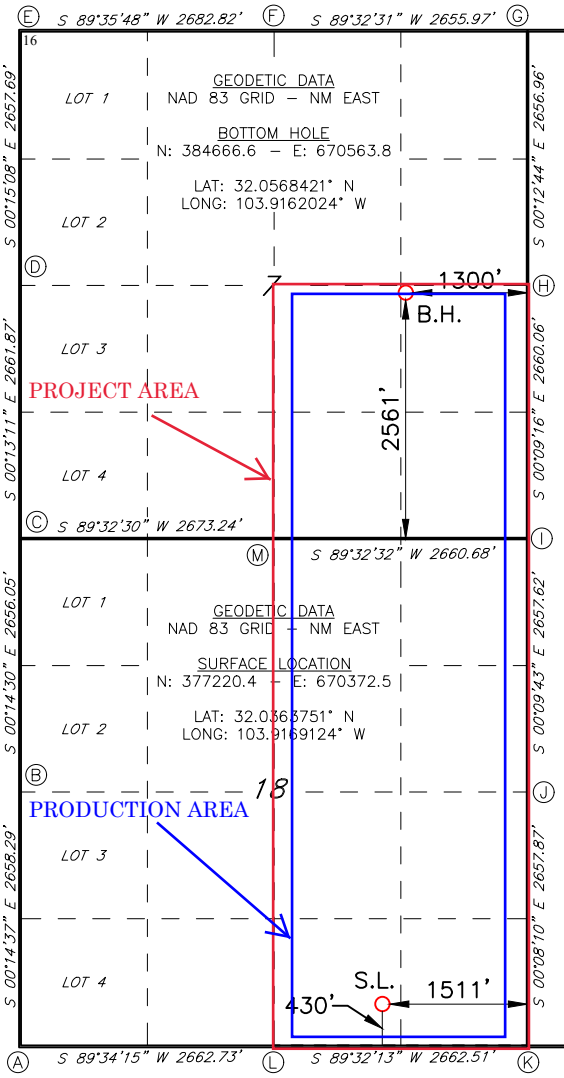
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
0	18	26S	30E		430	SOUTH	1511	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	7	26S	30E		2561	SOUTH	1300	EAST	EDDY

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

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1940"
N: 376761.3 – E: 666560.2

B: FOUND BRASS CAP "1940"
N: 379419.0 – E: 666548.9

C: FOUND BRASS CAP "1940"
N: 382074.4 – E: 666537.7

D: FOUND BRASS CAP "1940"
N: 384735.7 – E: 666527.5

E: FOUND 1/2" REBAR
N: 387392.8 – E: 666515.9

F: FOUND BRASS CAP "1940"
N: 387411.7 – E: 669198.0

G: FOUND 1/2" REBAR
N: 387432.9 – E: 671853.4

H: FOUND BRASS CAP "1940"
N: 384776.6 – E: 671863.2

I: FOUND BRASS CAP "1940"
N: 382117.1 – E: 671870.4

J: FOUND BRASS CAP "1940"
N: 379460.0 – E: 671877.9

K: FOUND BRASS CAP "1940"
N: 376802.7 – E: 671884.2

L: FOUND BRASS CAP "1940"
N: 376781.2 – E: 669222.3

M: FOUND BRASS CAP "1940"
N:382095.8 – E:669210.3

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.

Gage Owen 02/08/2023
Signature Date

Gage Owen
Printed Name

gowen@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.

02/02/2023
Date of Survey

Signature and Seal of Professional Surveyor

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

19680
Certificate Number

Job No: LS23020117

Mewbourne Oil Company

Eddy County, New Mexico NAD 83
Full Tilt 18/7 Fed #577H
Sec 18, T26S, R30E
SHL: 430' FSL & 1511' FEL (Sec 18)
BHL: 2561' FSL & 1300' FEL (Sec 7)

Plan: Design #1

Standard Planning Report

13 February, 2023

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Full Tilt 18/7 Fed #577H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #577H	**North Reference:**	Grid
Well:	Sec 18, T26S, R30E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 2561' FSL & 1300' FEL (Sec 7)		
Design:	Design #1		

Project Eddy County, New Mexico NAD 83

Map System:	US State Plane 1983	**System Datum:**	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Full Tilt 18/7 Fed #577H

Site Position:		**Northing:**	377,220.40 usft	**Latitude:**	32.0363751
From:	Map	**Easting:**	670,372.50 usft	**Longitude:**	-103.9169125
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sec 18, T26S, R30E

Well Position	**+N/-S**	0.0 usft	**Northing:**	377,220.40 usft	**Latitude:**	32.0363751
	+E/-W	0.0 usft	**Easting:**	670,372.50 usft	**Longitude:**	-103.9169125
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,129.0 usft	**Ground Level:**	3,101.0 usft
Grid Convergence:		0.22 °				

Wellbore BHL: 2561' FSL & 1300' FEL (Sec 7)

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.29	59.87	48,089.18196203

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	1.47

Plan Survey Tool Program **Date** 2/8/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,450.9	Design #1 (BHL: 2561' FSL & 130		

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	
850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,012.9	3.26	153.15	1,012.8	-4.1	2.1	2.00	2.00	0.00	153.15	
9,096.3	3.26	153.15	9,083.2	-414.1	209.6	0.00	0.00	0.00	0.00	
9,259.2	0.00	0.00	9,246.0	-418.2	211.7	2.00	-2.00	0.00	180.00	KOP: 10' FSL & 1300'
10,155.6	89.63	359.85	9,819.0	151.1	210.2	10.00	10.00	0.00	-0.15	
17,450.9	89.63	359.85	9,866.0	7,446.2	191.3	0.00	0.00	0.00	0.00	BHL: 2561' FSL & 13(

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Full Tilt 18/7 Fed #577H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #577H	**North Reference:**	Grid
Well:	Sec 18, T26S, R30E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 2561' FSL & 1300' FEL (Sec 7)		
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: 430' FSL & 1511' FEL (Sec 18)									
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
850.0	0.00	0.00	850.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	1.00	153.15	900.0	-0.4	0.2	-0.4	2.00	2.00	0.00
1,000.0	3.00	153.15	999.9	-3.5	1.8	-3.5	2.00	2.00	0.00
1,012.9	3.26	153.15	1,012.8	-4.1	2.1	-4.1	2.00	2.00	0.00
1,100.0	3.26	153.15	1,099.8	-8.5	4.3	-8.4	0.00	0.00	0.00
1,200.0	3.26	153.15	1,199.6	-13.6	6.9	-13.4	0.00	0.00	0.00
1,300.0	3.26	153.15	1,299.4	-18.7	9.5	-18.4	0.00	0.00	0.00
1,400.0	3.26	153.15	1,399.3	-23.8	12.0	-23.4	0.00	0.00	0.00
1,500.0	3.26	153.15	1,499.1	-28.8	14.6	-28.4	0.00	0.00	0.00
1,600.0	3.26	153.15	1,599.0	-33.9	17.2	-33.5	0.00	0.00	0.00
1,700.0	3.26	153.15	1,698.8	-39.0	19.7	-38.5	0.00	0.00	0.00
1,800.0	3.26	153.15	1,798.6	-44.0	22.3	-43.5	0.00	0.00	0.00
1,900.0	3.26	153.15	1,898.5	-49.1	24.9	-48.5	0.00	0.00	0.00
2,000.0	3.26	153.15	1,998.3	-54.2	27.4	-53.5	0.00	0.00	0.00
2,100.0	3.26	153.15	2,098.2	-59.3	30.0	-58.5	0.00	0.00	0.00
2,200.0	3.26	153.15	2,198.0	-64.3	32.6	-63.5	0.00	0.00	0.00
2,300.0	3.26	153.15	2,297.8	-69.4	35.1	-68.5	0.00	0.00	0.00
2,400.0	3.26	153.15	2,397.7	-74.5	37.7	-73.5	0.00	0.00	0.00
2,500.0	3.26	153.15	2,497.5	-79.5	40.3	-78.5	0.00	0.00	0.00
2,600.0	3.26	153.15	2,597.3	-84.6	42.8	-83.5	0.00	0.00	0.00
2,700.0	3.26	153.15	2,697.2	-89.7	45.4	-88.5	0.00	0.00	0.00
2,800.0	3.26	153.15	2,797.0	-94.8	48.0	-93.5	0.00	0.00	0.00
2,900.0	3.26	153.15	2,896.9	-99.8	50.5	-98.5	0.00	0.00	0.00
3,000.0	3.26	153.15	2,996.7	-104.9	53.1	-103.5	0.00	0.00	0.00
3,100.0	3.26	153.15	3,096.5	-110.0	55.7	-108.5	0.00	0.00	0.00
3,200.0	3.26	153.15	3,196.4	-115.0	58.2	-113.5	0.00	0.00	0.00
3,300.0	3.26	153.15	3,296.2	-120.1	60.8	-118.5	0.00	0.00	0.00
3,400.0	3.26	153.15	3,396.1	-125.2	63.4	-123.5	0.00	0.00	0.00
3,500.0	3.26	153.15	3,495.9	-130.3	65.9	-128.5	0.00	0.00	0.00
3,600.0	3.26	153.15	3,595.7	-135.3	68.5	-133.5	0.00	0.00	0.00
3,700.0	3.26	153.15	3,695.6	-140.4	71.1	-138.5	0.00	0.00	0.00
3,800.0	3.26	153.15	3,795.4	-145.5	73.6	-143.5	0.00	0.00	0.00
3,900.0	3.26	153.15	3,895.2	-150.5	76.2	-148.5	0.00	0.00	0.00
4,000.0	3.26	153.15	3,995.1	-155.6	78.8	-153.5	0.00	0.00	0.00
4,100.0	3.26	153.15	4,094.9	-160.7	81.3	-158.5	0.00	0.00	0.00
4,200.0	3.26	153.15	4,194.8	-165.8	83.9	-163.5	0.00	0.00	0.00
4,300.0	3.26	153.15	4,294.6	-170.8	86.5	-168.6	0.00	0.00	0.00
4,400.0	3.26	153.15	4,394.4	-175.9	89.0	-173.6	0.00	0.00	0.00
4,500.0	3.26	153.15	4,494.3	-181.0	91.6	-178.6	0.00	0.00	0.00
4,600.0	3.26	153.15	4,594.1	-186.0	94.2	-183.6	0.00	0.00	0.00
4,700.0	3.26	153.15	4,694.0	-191.1	96.7	-188.6	0.00	0.00	0.00
4,800.0	3.26	153.15	4,793.8	-196.2	99.3	-193.6	0.00	0.00	0.00
4,900.0	3.26	153.15	4,893.6	-201.3	101.9	-198.6	0.00	0.00	0.00
5,000.0	3.26	153.15	4,993.5	-206.3	104.4	-203.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Full Tilt 18/7 Fed #577H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #577H	**North Reference:**	Grid
Well:	Sec 18, T26S, R30E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 2561' FSL & 1300' FEL (Sec 7)		
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)
5,100.0	3.26	153.15	5,093.3	-211.4	107.0	-208.6	0.00	0.00	0.00
5,200.0	3.26	153.15	5,193.1	-216.5	109.6	-213.6	0.00	0.00	0.00
5,300.0	3.26	153.15	5,293.0	-221.5	112.1	-218.6	0.00	0.00	0.00
5,400.0	3.26	153.15	5,392.8	-226.6	114.7	-223.6	0.00	0.00	0.00
5,500.0	3.26	153.15	5,492.7	-231.7	117.3	-228.6	0.00	0.00	0.00
5,600.0	3.26	153.15	5,592.5	-236.8	119.9	-233.6	0.00	0.00	0.00
5,700.0	3.26	153.15	5,692.3	-241.8	122.4	-238.6	0.00	0.00	0.00
5,800.0	3.26	153.15	5,792.2	-246.9	125.0	-243.6	0.00	0.00	0.00
5,900.0	3.26	153.15	5,892.0	-252.0	127.6	-248.6	0.00	0.00	0.00
6,000.0	3.26	153.15	5,991.8	-257.0	130.1	-253.6	0.00	0.00	0.00
6,100.0	3.26	153.15	6,091.7	-262.1	132.7	-258.6	0.00	0.00	0.00
6,200.0	3.26	153.15	6,191.5	-267.2	135.3	-263.6	0.00	0.00	0.00
6,300.0	3.26	153.15	6,291.4	-272.3	137.8	-268.6	0.00	0.00	0.00
6,400.0	3.26	153.15	6,391.2	-277.3	140.4	-273.6	0.00	0.00	0.00
6,500.0	3.26	153.15	6,491.0	-282.4	143.0	-278.6	0.00	0.00	0.00
6,600.0	3.26	153.15	6,590.9	-287.5	145.5	-283.6	0.00	0.00	0.00
6,700.0	3.26	153.15	6,690.7	-292.5	148.1	-288.6	0.00	0.00	0.00
6,800.0	3.26	153.15	6,790.6	-297.6	150.7	-293.6	0.00	0.00	0.00
6,900.0	3.26	153.15	6,890.4	-302.7	153.2	-298.7	0.00	0.00	0.00
7,000.0	3.26	153.15	6,990.2	-307.8	155.8	-303.7	0.00	0.00	0.00
7,100.0	3.26	153.15	7,090.1	-312.8	158.4	-308.7	0.00	0.00	0.00
7,200.0	3.26	153.15	7,189.9	-317.9	160.9	-313.7	0.00	0.00	0.00
7,300.0	3.26	153.15	7,289.7	-323.0	163.5	-318.7	0.00	0.00	0.00
7,400.0	3.26	153.15	7,389.6	-328.0	166.1	-323.7	0.00	0.00	0.00
7,500.0	3.26	153.15	7,489.4	-333.1	168.6	-328.7	0.00	0.00	0.00
7,600.0	3.26	153.15	7,589.3	-338.2	171.2	-333.7	0.00	0.00	0.00
7,700.0	3.26	153.15	7,689.1	-343.3	173.8	-338.7	0.00	0.00	0.00
7,800.0	3.26	153.15	7,788.9	-348.3	176.3	-343.7	0.00	0.00	0.00
7,900.0	3.26	153.15	7,888.8	-353.4	178.9	-348.7	0.00	0.00	0.00
8,000.0	3.26	153.15	7,988.6	-358.5	181.5	-353.7	0.00	0.00	0.00
8,100.0	3.26	153.15	8,088.5	-363.5	184.0	-358.7	0.00	0.00	0.00
8,200.0	3.26	153.15	8,188.3	-368.6	186.6	-363.7	0.00	0.00	0.00
8,300.0	3.26	153.15	8,288.1	-373.7	189.2	-368.7	0.00	0.00	0.00
8,400.0	3.26	153.15	8,388.0	-378.8	191.7	-373.7	0.00	0.00	0.00
8,500.0	3.26	153.15	8,487.8	-383.8	194.3	-378.7	0.00	0.00	0.00
8,600.0	3.26	153.15	8,587.6	-388.9	196.9	-383.7	0.00	0.00	0.00
8,700.0	3.26	153.15	8,687.5	-394.0	199.4	-388.7	0.00	0.00	0.00
8,800.0	3.26	153.15	8,787.3	-399.0	202.0	-393.7	0.00	0.00	0.00
8,900.0	3.26	153.15	8,887.2	-404.1	204.6	-398.7	0.00	0.00	0.00
9,000.0	3.26	153.15	8,987.0	-409.2	207.1	-403.7	0.00	0.00	0.00
9,096.3	3.26	153.15	9,083.2	-414.1	209.6	-408.5	0.00	0.00	0.00
9,100.0	3.18	153.15	9,086.8	-414.3	209.7	-408.7	2.00	-2.00	0.00
9,200.0	1.18	153.15	9,186.8	-417.7	211.4	-412.1	2.00	-2.00	0.00
9,259.2	0.00	0.00	9,246.0	-418.2	211.7	-412.6	2.00	-2.00	0.00
KOP: 10' FSL & 1300' FEL (Sec 18)									
9,300.0	4.08	359.85	9,286.7	-416.8	211.7	-411.2	10.00	10.00	0.00
9,350.0	9.07	359.85	9,336.4	-411.0	211.7	-405.5	10.00	10.00	0.00
9,400.0	14.07	359.85	9,385.3	-401.0	211.7	-395.4	10.00	10.00	0.00
9,450.0	19.07	359.85	9,433.3	-386.7	211.6	-381.2	10.00	10.00	0.00
9,500.0	24.07	359.85	9,479.7	-368.4	211.6	-362.8	10.00	10.00	0.00
9,550.0	29.07	359.85	9,524.4	-346.0	211.5	-340.5	10.00	10.00	0.00
9,584.8	32.55	359.85	9,554.3	-328.2	211.5	-322.7	10.00	10.00	0.00
FTP: 100' FSL & 1300' FEL (Sec 18)									
9,600.0	34.07	359.85	9,567.0	-319.8	211.4	-314.3	10.00	10.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Full Tilt 18/7 Fed #577H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #577H	**North Reference:**	Grid
Well:	Sec 18, T26S, R30E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 2561' FSL & 1300' FEL (Sec 7)		
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)
9,650.0	39.07	359.85	9,607.2	-290.0	211.4	-284.5	10.00	10.00	0.00
9,700.0	44.07	359.85	9,644.6	-256.9	211.3	-251.4	10.00	10.00	0.00
9,750.0	49.07	359.85	9,678.9	-220.6	211.2	-215.1	10.00	10.00	0.00
9,800.0	54.07	359.85	9,710.0	-181.4	211.1	-175.9	10.00	10.00	0.00
9,850.0	59.07	359.85	9,737.5	-139.7	211.0	-134.2	10.00	10.00	0.00
9,900.0	64.07	359.85	9,761.3	-95.8	210.9	-90.3	10.00	10.00	0.00
9,950.0	69.07	359.85	9,781.2	-49.9	210.7	-44.5	10.00	10.00	0.00
10,000.0	74.07	359.85	9,797.0	-2.5	210.6	2.9	10.00	10.00	0.00
10,050.0	79.07	359.85	9,808.6	46.1	210.5	51.5	10.00	10.00	0.00
10,100.0	84.07	359.85	9,815.9	95.6	210.4	101.0	10.00	10.00	0.00
10,150.0	89.07	359.85	9,818.9	145.5	210.2	150.8	10.00	10.00	0.00
10,155.6	89.63	359.85	9,819.0	151.1	210.2	156.5	10.00	10.00	0.00
10,159.3	89.63	359.85	9,819.0	154.8	210.2	160.2	0.00	0.00	0.00
LP: 583' FSL & 1300' FEL (Sec 18)									
10,200.0	89.63	359.85	9,819.3	195.5	210.1	200.8	0.00	0.00	0.00
10,300.0	89.63	359.85	9,819.9	295.5	209.8	300.8	0.00	0.00	0.00
10,400.0	89.63	359.85	9,820.6	395.5	209.6	400.7	0.00	0.00	0.00
10,500.0	89.63	359.85	9,821.2	495.5	209.3	500.7	0.00	0.00	0.00
10,600.0	89.63	359.85	9,821.9	595.5	209.1	600.6	0.00	0.00	0.00
10,700.0	89.63	359.85	9,822.5	695.5	208.8	700.6	0.00	0.00	0.00
10,800.0	89.63	359.85	9,823.2	795.5	208.6	800.6	0.00	0.00	0.00
10,900.0	89.63	359.85	9,823.8	895.5	208.3	900.5	0.00	0.00	0.00
11,000.0	89.63	359.85	9,824.4	995.5	208.0	1,000.5	0.00	0.00	0.00
11,100.0	89.63	359.85	9,825.1	1,095.5	207.8	1,100.4	0.00	0.00	0.00
11,200.0	89.63	359.85	9,825.7	1,195.5	207.5	1,200.4	0.00	0.00	0.00
11,300.0	89.63	359.85	9,826.4	1,295.5	207.3	1,300.3	0.00	0.00	0.00
11,400.0	89.63	359.85	9,827.0	1,395.5	207.0	1,400.3	0.00	0.00	0.00
11,500.0	89.63	359.85	9,827.7	1,495.4	206.7	1,500.3	0.00	0.00	0.00
11,600.0	89.63	359.85	9,828.3	1,595.4	206.5	1,600.2	0.00	0.00	0.00
11,700.0	89.63	359.85	9,828.9	1,695.4	206.2	1,700.2	0.00	0.00	0.00
11,800.0	89.63	359.85	9,829.6	1,795.4	206.0	1,800.1	0.00	0.00	0.00
11,900.0	89.63	359.85	9,830.2	1,895.4	205.7	1,900.1	0.00	0.00	0.00
12,000.0	89.63	359.85	9,830.9	1,995.4	205.4	2,000.1	0.00	0.00	0.00
12,100.0	89.63	359.85	9,831.5	2,095.4	205.2	2,100.0	0.00	0.00	0.00
12,200.0	89.63	359.85	9,832.2	2,195.4	204.9	2,200.0	0.00	0.00	0.00
12,300.0	89.63	359.85	9,832.8	2,295.4	204.7	2,299.9	0.00	0.00	0.00
12,400.0	89.63	359.85	9,833.5	2,395.4	204.4	2,399.9	0.00	0.00	0.00
12,500.0	89.63	359.85	9,834.1	2,495.4	204.1	2,499.8	0.00	0.00	0.00
12,600.0	89.63	359.85	9,834.7	2,595.4	203.9	2,599.8	0.00	0.00	0.00
12,700.0	89.63	359.85	9,835.4	2,695.4	203.6	2,699.8	0.00	0.00	0.00
12,800.0	89.63	359.85	9,836.0	2,795.4	203.4	2,799.7	0.00	0.00	0.00
12,900.0	89.63	359.85	9,836.7	2,895.4	203.1	2,899.7	0.00	0.00	0.00
13,000.0	89.63	359.85	9,837.3	2,995.4	202.8	2,999.6	0.00	0.00	0.00
13,100.0	89.63	359.85	9,838.0	3,095.4	202.6	3,099.6	0.00	0.00	0.00
13,200.0	89.63	359.85	9,838.6	3,195.4	202.3	3,199.5	0.00	0.00	0.00
13,300.0	89.63	359.85	9,839.3	3,295.4	202.1	3,299.5	0.00	0.00	0.00
13,400.0	89.63	359.85	9,839.9	3,395.4	201.8	3,399.5	0.00	0.00	0.00
13,500.0	89.63	359.85	9,840.5	3,495.4	201.5	3,499.4	0.00	0.00	0.00
13,600.0	89.63	359.85	9,841.2	3,595.4	201.3	3,599.4	0.00	0.00	0.00
13,700.0	89.63	359.85	9,841.8	3,695.4	201.0	3,699.3	0.00	0.00	0.00
13,800.0	89.63	359.85	9,842.5	3,795.4	200.8	3,799.3	0.00	0.00	0.00
13,900.0	89.63	359.85	9,843.1	3,895.4	200.5	3,899.3	0.00	0.00	0.00
14,000.0	89.63	359.85	9,843.8	3,995.4	200.3	3,999.2	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Full Tilt 18/7 Fed #577H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #577H	**North Reference:**	Grid
Well:	Sec 18, T26S, R30E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 2561' FSL & 1300' FEL (Sec 7)		
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)
14,100.0	89.63	359.85	9,844.4	4,095.4	200.0	4,099.2	0.00	0.00	0.00
14,200.0	89.63	359.85	9,845.1	4,195.4	199.7	4,199.1	0.00	0.00	0.00
14,300.0	89.63	359.85	9,845.7	4,295.4	199.5	4,299.1	0.00	0.00	0.00
14,400.0	89.63	359.85	9,846.3	4,395.4	199.2	4,399.0	0.00	0.00	0.00
14,500.0	89.63	359.85	9,847.0	4,495.4	199.0	4,499.0	0.00	0.00	0.00
14,600.0	89.63	359.85	9,847.6	4,595.4	198.7	4,599.0	0.00	0.00	0.00
14,700.0	89.63	359.85	9,848.3	4,695.4	198.4	4,698.9	0.00	0.00	0.00
14,800.0	89.63	359.85	9,848.9	4,795.4	198.2	4,798.9	0.00	0.00	0.00
14,900.0	89.63	359.85	9,849.6	4,895.4	197.9	4,898.8	0.00	0.00	0.00
15,000.0	89.63	359.85	9,850.2	4,995.4	197.7	4,998.8	0.00	0.00	0.00
15,100.0	89.63	359.85	9,850.9	5,095.4	197.4	5,098.8	0.00	0.00	0.00
15,200.0	89.63	359.85	9,851.5	5,195.4	197.1	5,198.7	0.00	0.00	0.00
15,300.0	89.63	359.85	9,852.1	5,295.4	196.9	5,298.7	0.00	0.00	0.00
15,400.0	89.63	359.85	9,852.8	5,395.4	196.6	5,398.6	0.00	0.00	0.00
15,500.0	89.63	359.85	9,853.4	5,495.4	196.4	5,498.6	0.00	0.00	0.00
15,600.0	89.63	359.85	9,854.1	5,595.3	196.1	5,598.5	0.00	0.00	0.00
15,700.0	89.63	359.85	9,854.7	5,695.3	195.8	5,698.5	0.00	0.00	0.00
15,800.0	89.63	359.85	9,855.4	5,795.3	195.6	5,798.5	0.00	0.00	0.00
15,900.0	89.63	359.85	9,856.0	5,895.3	195.3	5,898.4	0.00	0.00	0.00
16,000.0	89.63	359.85	9,856.7	5,995.3	195.1	5,998.4	0.00	0.00	0.00
16,100.0	89.63	359.85	9,857.3	6,095.3	194.8	6,098.3	0.00	0.00	0.00
16,200.0	89.63	359.85	9,857.9	6,195.3	194.5	6,198.3	0.00	0.00	0.00
16,300.0	89.63	359.85	9,858.6	6,295.3	194.3	6,298.2	0.00	0.00	0.00
16,400.0	89.63	359.85	9,859.2	6,395.3	194.0	6,398.2	0.00	0.00	0.00
16,500.0	89.63	359.85	9,859.9	6,495.3	193.8	6,498.2	0.00	0.00	0.00
16,600.0	89.63	359.85	9,860.5	6,595.3	193.5	6,598.1	0.00	0.00	0.00
16,700.0	89.63	359.85	9,861.2	6,695.3	193.2	6,698.1	0.00	0.00	0.00
16,800.0	89.63	359.85	9,861.8	6,795.3	193.0	6,798.0	0.00	0.00	0.00
16,900.0	89.63	359.85	9,862.5	6,895.3	192.7	6,898.0	0.00	0.00	0.00
17,000.0	89.63	359.85	9,863.1	6,995.3	192.5	6,998.0	0.00	0.00	0.00
17,100.0	89.63	359.85	9,863.7	7,095.3	192.2	7,097.9	0.00	0.00	0.00
17,200.0	89.63	359.85	9,864.4	7,195.3	192.0	7,197.9	0.00	0.00	0.00
17,300.0	89.63	359.85	9,865.0	7,295.3	191.7	7,297.8	0.00	0.00	0.00
17,400.0	89.63	359.85	9,865.7	7,395.3	191.4	7,397.8	0.00	0.00	0.00
17,450.9	89.63	359.85	9,866.0	7,446.2	191.3	7,448.7	0.00	0.00	0.00
BHL: 2561' FSL & 1300' FEL (Sec 7)									

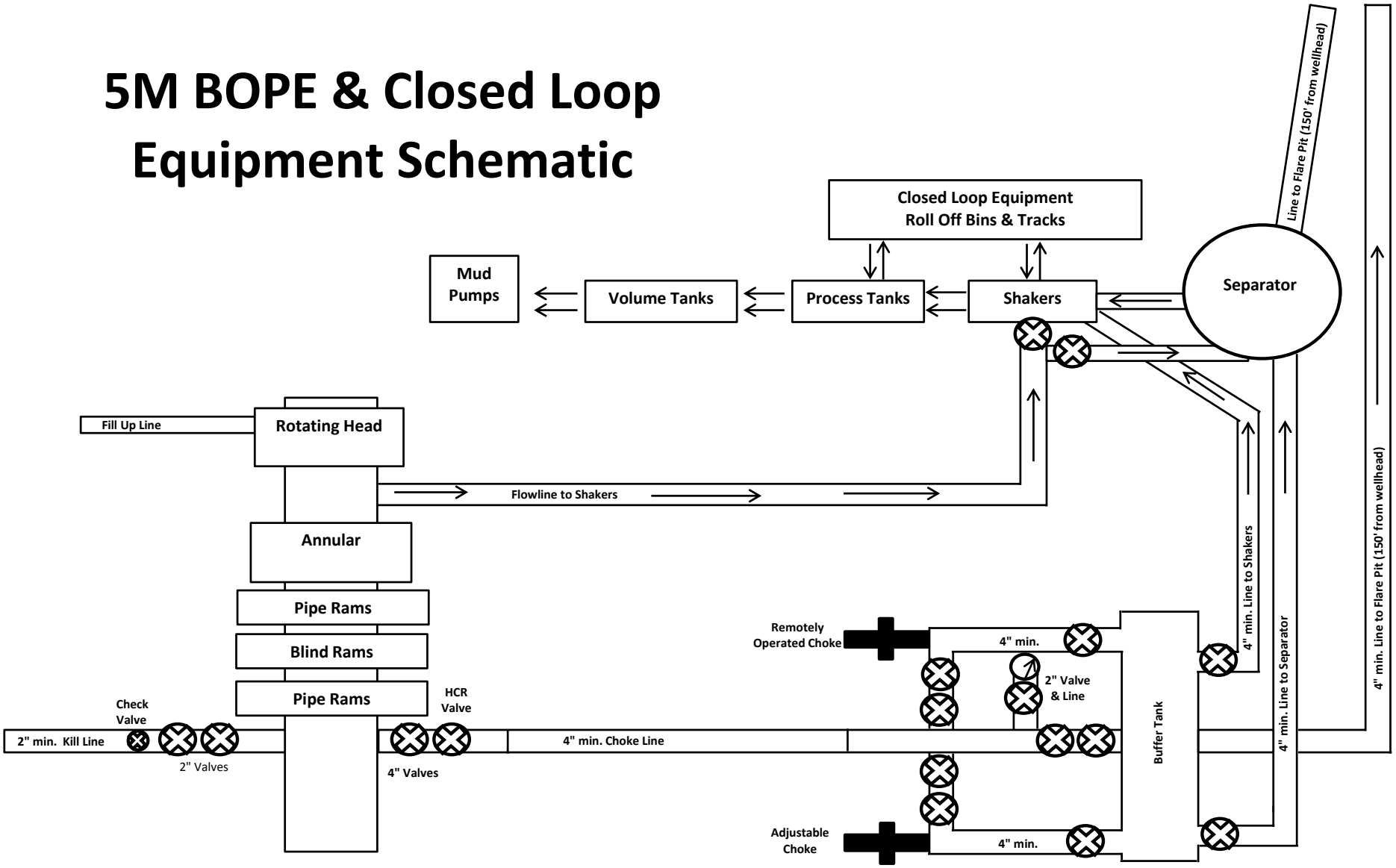
Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Full Tilt 18/7 Fed #577H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3144.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #577H	**North Reference:**	Grid
Well:	Sec 18, T26S, R30E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 2561' FSL & 1300' FEL (Sec 7)		
Design:	Design #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 430' FSL & 1511' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	377,220.40	670,372.50	32.0363751	-103.9169125
KOP: 10' FSL & 1300' FI - plan hits target center - Point	0.00	0.00	9,246.0	-418.2	211.7	376,802.20	670,584.20	32.0352233	-103.9162345
FTP: 100' FSL & 1300' F - plan hits target center - Point	0.00	0.00	9,554.3	-328.2	211.5	376,892.20	670,583.97	32.0354707	-103.9162342
LP: 583' FSL & 1300' FE - plan hits target center - Point	0.00	0.00	9,819.0	154.8	210.2	377,375.21	670,582.72	32.0367984	-103.9162322
BHL: 2561' FSL & 1300' - plan hits target center - Point	0.00	0.00	9,866.0	7,446.2	191.3	384,666.60	670,563.80	32.0568420	-103.9162023

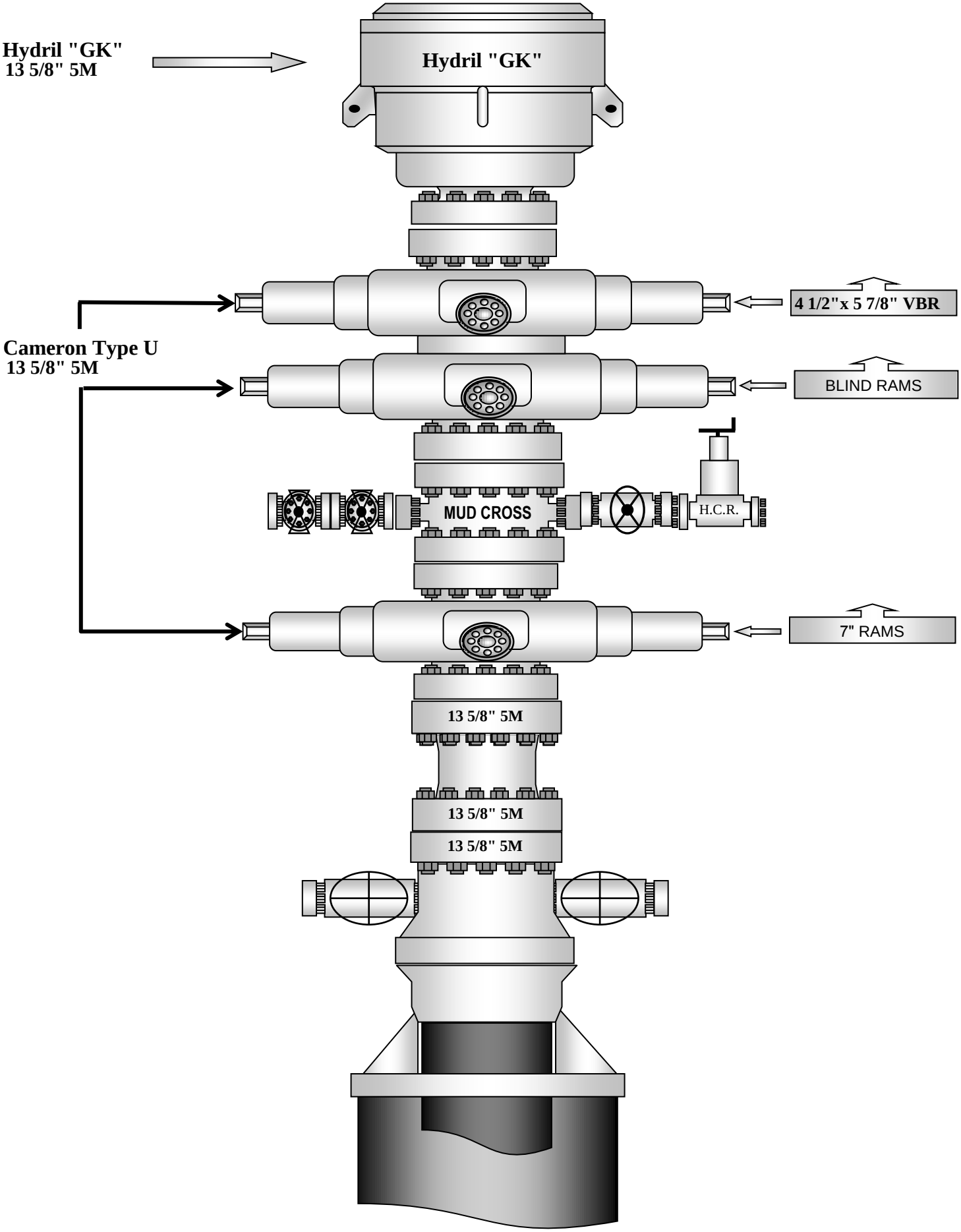
5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

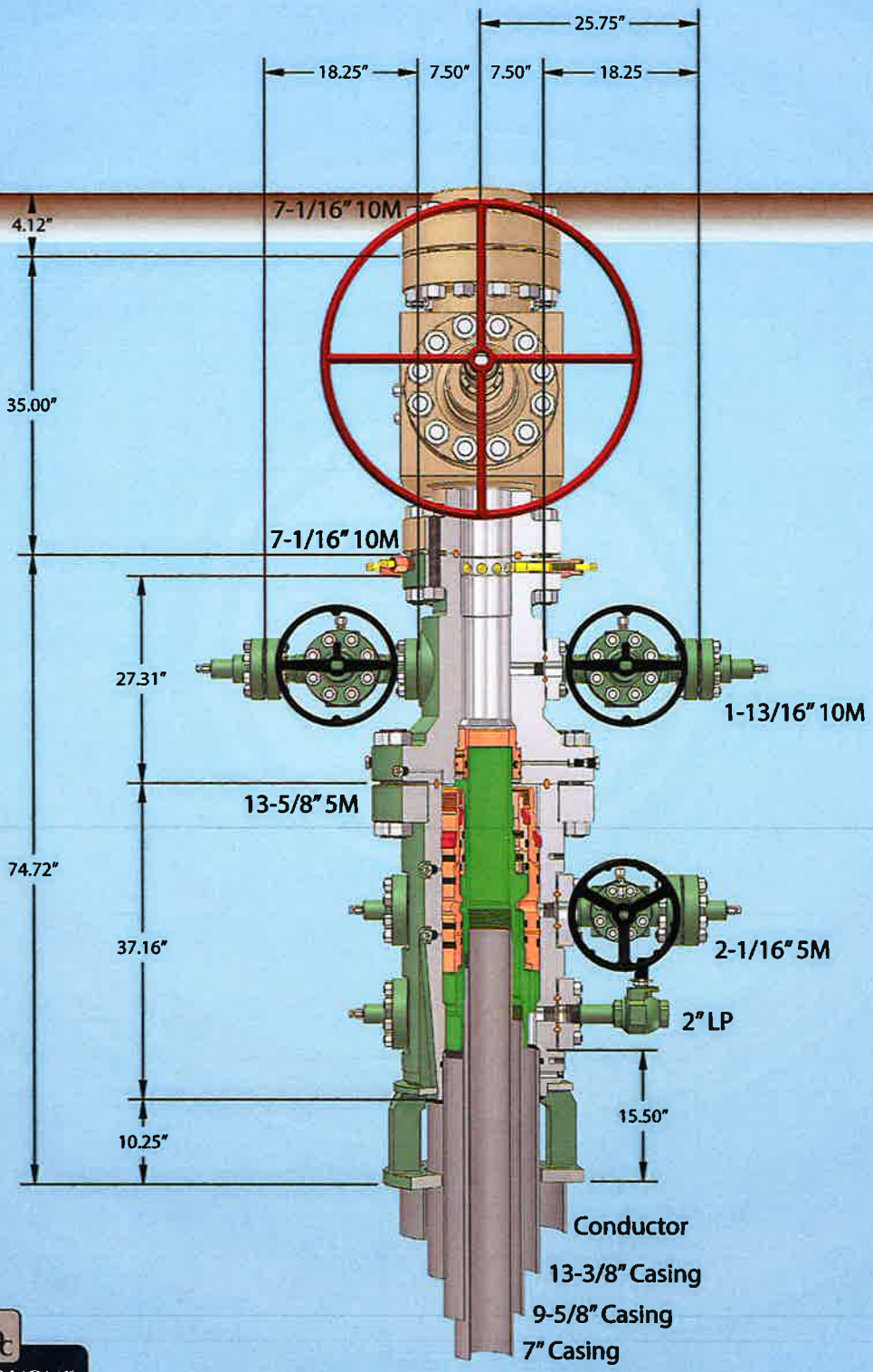
Note: All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.

5M BOPE Schematic



CAMERON
A Schlumberger Company

13-5/8" MN-DS Wellhead System



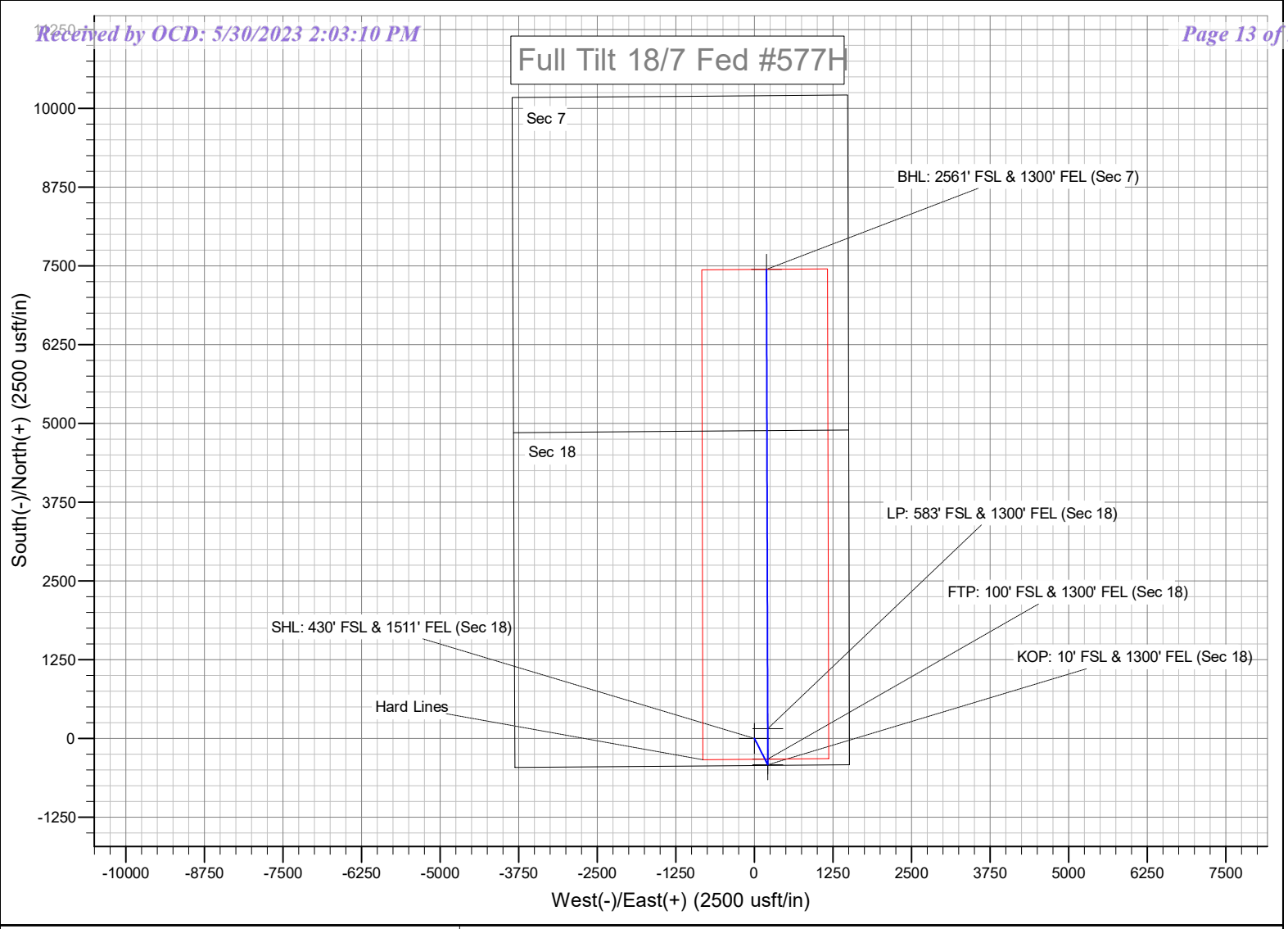
MEWBOURNE OIL COMPANY

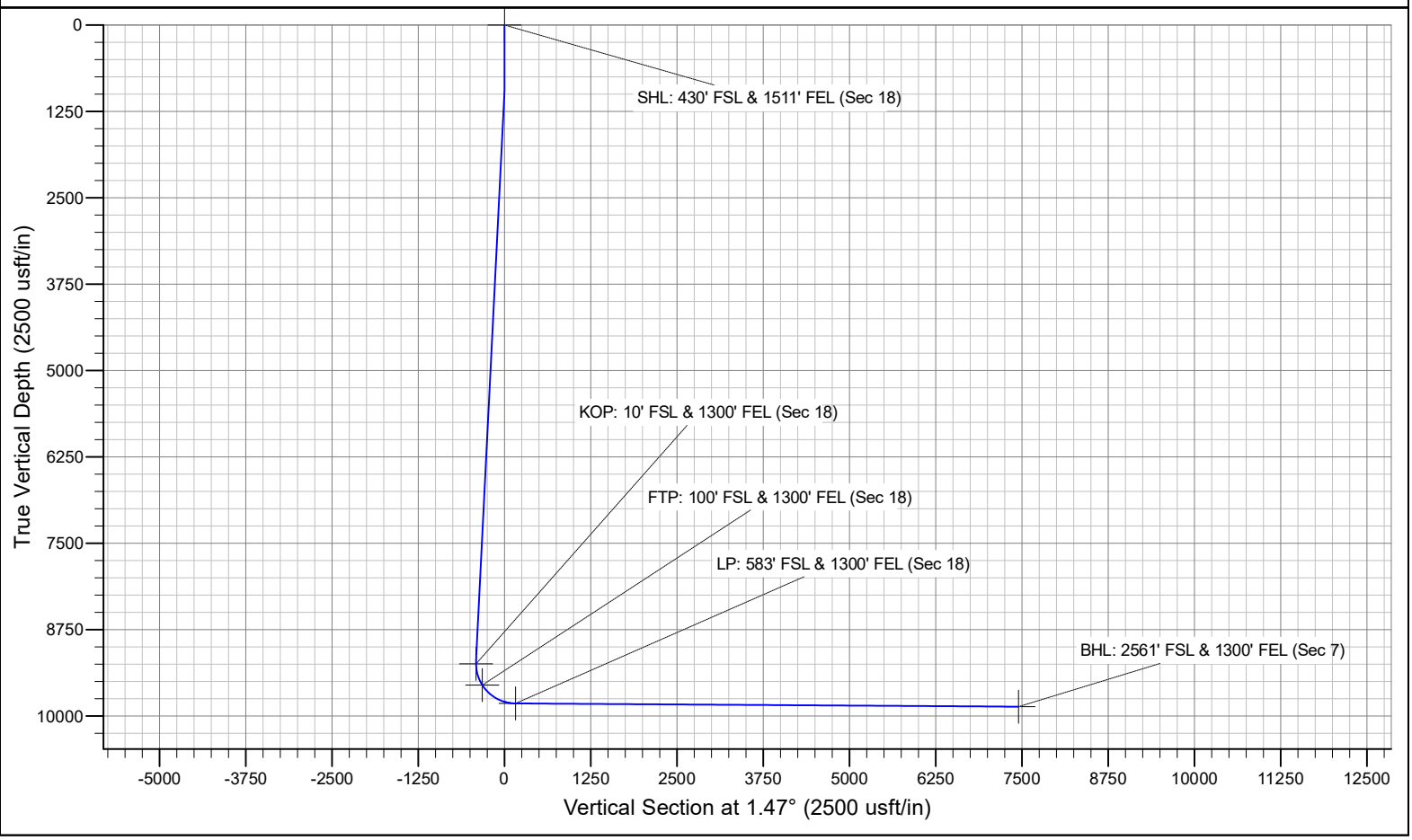
C7585
Rev. 02

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

Capping flange 57" conductor cut-off

79


Full Tilt 18/7 Fed #577H
Sec 7
Sec 18
BHL: 2561' FSL & 1300' FEL (Sec 7)
LP: 583' FSL & 1300' FEL (Sec 18)
FTP: 100' FSL & 1300' FEL (Sec 18)
KOP: 10' FSL & 1300' FEL (Sec 18)
SHL: 430' FSL & 1511' FEL (Sec 18)
Hard Lines
South(-)/North(+) (2500 usft/in)
West(-)/East(+) (2500 usft/in)


SHL: 430' FSL & 1511' FEL (Sec 18)
KOP: 10' FSL & 1300' FEL (Sec 18)
FTP: 100' FSL & 1300' FEL (Sec 18)
LP: 583' FSL & 1300' FEL (Sec 18)
BHL: 2561' FSL & 1300' FEL (Sec 7)
True Vertical Depth (2500 usft/in)
Vertical Section at 1.47° (2500 usft/in)

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	8/20/2018
Customer Ref.:	4101901	Hose Serial No.:	H-082018-10
Invoice No.:	511956	Created By:	Moosa Naqvi

Product Description:	10KF3.035.0CK41/1610KFLGFXDxFLT L/E

End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
Gates Part No.:	68503010-9721632	Assembly Code:	L40695052218H-082018-10
Working Pressure:	10,000 psi.	Test Pressure:	15,000 psi.

Gates Engineering & Services North America certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements.

Quality:	QUALITY	Production:	PRODUCTION
Date :	8/20/2018	Date :	8/20/2018
Signature :	Moosa Naqvi	Signature :	

Form PTC - 01 Rev.0 2

ENGINEERING & SERVICES

GATES E & S NORTH AMERICA, INC.
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: *Tim.Cantu@gates.com*
WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER

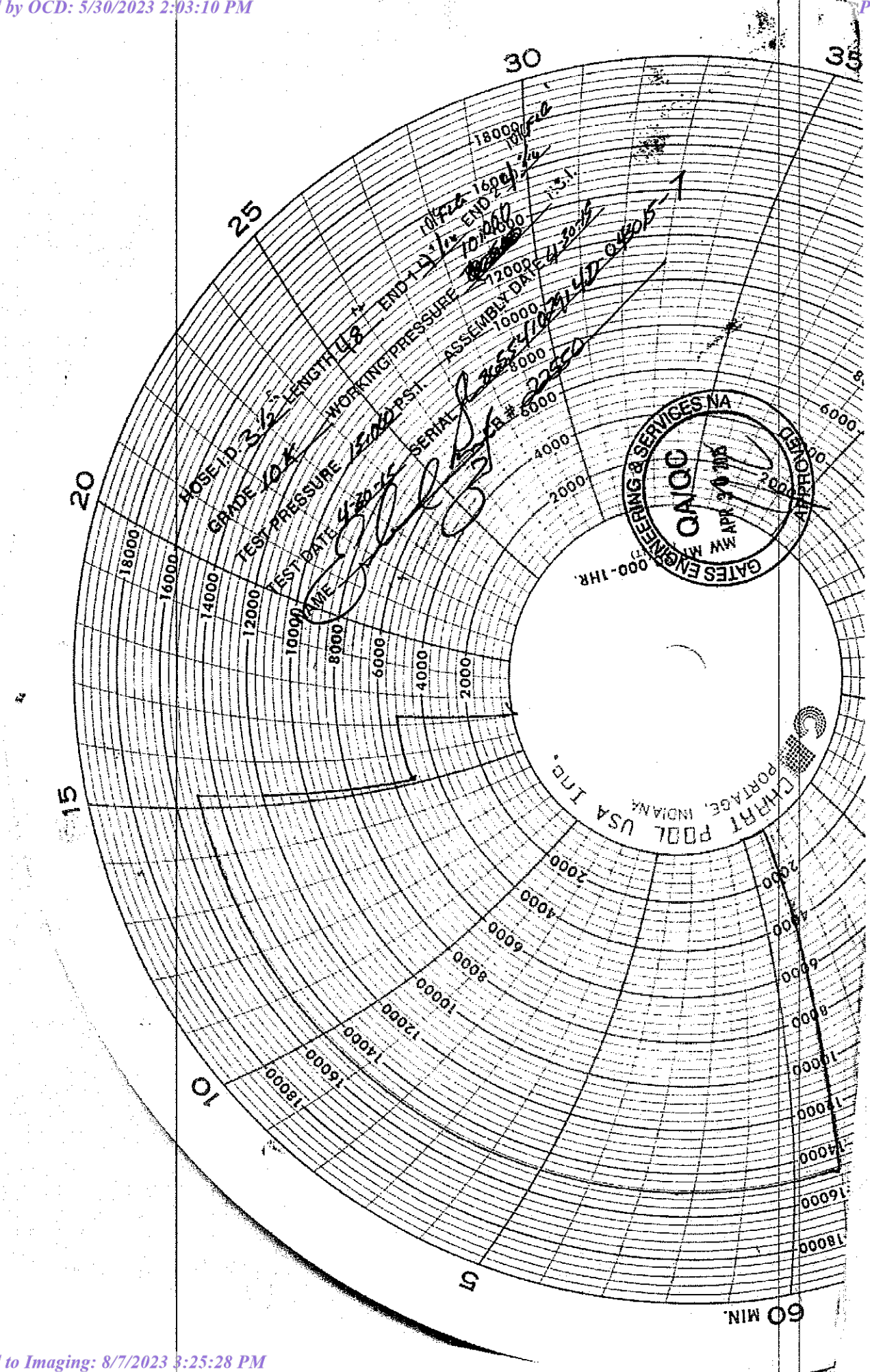
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :	QUALITY	Produciton:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :	Justin Cropper	Signature :	

Form-PTC - 01 Rev.0 2


HOSE I.D. 3 1/2"
LENGTH 48"
END 1
END 2
GRADE 10K
WORKING PRESSURE 10000 P.S.I.
TEST PRESSURE 15000 P.S.I.
ASSEMBLY DATE 4-30-23
TEST DATE 4-30-23
SERIAL # 22550
NAME
GATES ENGINEERING & SERVICES NA
QA/QC
APPROVED
CHART POOL USA INC.
PORTAGE, INDIANA
60 MIN.
000-1HR.

Mewbourne Oil Company, Full Tilt 18/7 Fed 577H
Sec 18, T26S, R30E
SHL: 430' FSL & 1511' FEL (Sec 18)
BHL: 2561' FSL & 1300' FEL (Sec 7)

Casing Program

Hole Size	From	To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.500	0'	775'	13.375	48.0	H40	STC	2.17	4.88	8.66	14.54
12.250	0'	3453'	9.625	36.0	J55	LTC	1.13	1.96	2.73	3.39
12.250	3453'	4393'	9.625	40.0	J55	LTC	1.13	1.73	12.42	15.04
12.250	4393'	4500'	9.625	40.0	N80	LTC	1.32	2.46	172.46	214.34
8.750	0'	9194'	7.000	26.0	P110	LTC	1.34	2.13	2.90	3.47
6.125	8994'	17451'	4.500	13.5	P110	LTC	1.73	2.02	2.96	3.70
				BLM Minimum Safety Factor			1.125	1.0	1.6 Dry	1.6 Dry
									1.8 Wet	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 3rd 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 2nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	-
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?	

Formation	Est. Top		Formation	Est. Top
Rustler	700'		Delaware (Lamar)	3417'
Salt Top	1002'		Bell Canyon	3457
Salt Base	3057'		Cherry Canyon	4352'
Yates			Manzanita Marker	4530'
Seven Rivers			Basal Brushy Canyon	6956'
Queen			Bone Spring	7226'
Capitan			1st Bone Spring Sand	8115'
Grayburg			2nd Bone Spring Sand	9065'
San Andres			3rd Bone Spring Sand	10072'
Glorieta			Abo	
Yeso			Wolfcamp	10447'

Mewbourne Oil Company, Full Tilt 18/7 Fed 577H
Sec 18, T26S, R30E
SHL: 430' FSL & 1511' FEL (Sec 18)
BHL: 2561' FSL & 1300' FEL (Sec 7)

Cementing Program

Csg	Top MD	Bottom MD	# Sks	Yield (ft3/sk)	Density (ppg)	Vol (ft3)	% Excess	Slurry Description
Surface (Lead)	0’	586’	390	2.12	12.5	830	100	Class C, Salt, Gel, Extender, LCM
Surface (Tail)	586’	775’	200	1.34	14.8	268	100	Class C, Retarder
Intermediate (Lead Stage 1)	0’	2658’	490	2.12	12.5	1040	25	Class C, Salt, Gel, Extender, LCM
Intermediate (Tail Stage 1)	2658’	3000’	100	1.34	14.8	134	25	Class C, Retarder
Intermediate 9.625” DV Tool @ 3000’								
Intermediate (Lead Stage 2)	3000’	3839’	160	2.12	12.5	340	25	Class C, Salt, Gel, Extender, LCM
Intermediate (Tail Stage 2)	3839’	4500’	200	1.34	14.8	268	25	Class C, Retarder
Production (Lead Stage 1)	4300’	4404’	50	2.12	12.5	110	40	Class C, Salt, Gel, Extender, LCM, Defoamer
Production (Tail Stage 1)	4404’	4530’	100	1.34	14.8	134	40	Class C, Retarder
Production 7” DV Tool @ 4530’								
Production (Lead Stage 2)	4530’	6997’	250	2.12	12.5	530	40	Class C, Salt, Gel, Extender, LCM, Defoamer
Production (Tail Stage 2)	6997’	9194’	400	1.18	15.6	472	40	Class H, Retarder, Fluid Loss, Defoamer
Liner	8994’	17451’	540	1.85	13.5	1000	25	Class H, Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Mewbourne Oil Company, Full Tilt 18/7 Fed 577H
Sec 18, T26S, R30E
SHL: 430' FSL & 1511' FEL (Sec 18)
BHL: 2561' FSL & 1300' FEL (Sec 7)

Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	775	FW Gel	8.6-8.8	28-34	N/C
775	4500	Saturated Brine	10.0	28-34	N/C
4500	9194	Cut Brine	8.6-9.7	28-34	N/C
9194	17451	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.

Blowout Prevention

Pressure Rating: 5M
Equipment: Annular, Pipe Rams, Blind Rams
Requesting Variance: YES
Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.
Choke Diagram & BOP diagrams: Please see attachments
Max TVD: 9866’ (See attached Directional Plan)
Max MW: 12 ppg
Anticipated Bottom Hole Pressure: 6156 psi
Anticipated Surface Pressure: 3985 psi

Mewbourne Oil Company, Full Tilt 18/7 Fed 577H
Sec 18, T26S, R30E
SHL: 430' FSL & 1511' FEL (Sec 18)
BHL: 2561' FSL & 1300' FEL (Sec 7)

Additional Information

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Full Tilt 18/7 Fed	577H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	18	26S	30E	-	10'	FSL	1300'	FEL	Eddy
Latitude					Longitude				NAD
32.0352233					-103.9162345				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	18	26S	30E	-	100'	FSL	1300'	FEL	Eddy
Latitude					Longitude				NAD
32.0354707					-103.9162342				83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	7	26S	30E	-	2561'	FSL	1300'	FEL	Eddy
Latitude					Longitude				NAD
32.0568421					-103.9162024				83

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

Is this well an infill well? Y

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	Full Tilt 18/7 Fed	578H

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.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

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 recomplete 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 OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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: LAT: 32.035983 / LONG: -103.916524 (TVD: 0 feet, MD: 0 feet)

PPP: LAT: 32.036099 / LONG: -103.917363 (TVD: 10260 feet, MD: 10820 feet)

BHL: LAT: 32.056481 / LONG: -103.917333 (TVD: 10737 feet, MD: 18241 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Mewbourne Oil Company**
LEASE NO.:	**NMNM031649**
WELL NAME & NO.:	FULL TILT 18-7 FED 577H
SURFACE HOLE FOOTAGE:	430'/S & 1511'/E
BOTTOM HOLE FOOTAGE	2561'/S & 1300'/E
LOCATION:	Section 18, T.26 S., R.30 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

All Previous COAs Still Apply.

A. CASING

Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **775** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength,

whichever is greater.

d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing shall be set at approximately **4,500** feet is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess cement calculates to -20%, additional cement might be required.**

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  Excess cement calculates to -39%, additional cement might be required.

3. The minimum required fill of cement behind the **7** inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
  Excess cement calculates to -68%, additional cement might be required

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

4. The minimum required fill of cement behind the **4-1/2** inch production liner is:

- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

OTA03012023

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 221877

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 221877
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Adhere to previously noted and applicable COAs	8/7/2023