

Submit a 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

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.)		WELL API NO. 30-015-53724
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Mewbourne Oil Company		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 5270 Hobbs, NM 88241		7. Lease Name or Unit Agreement Name Full Tilt 18/7 Fed
4. Well Location Unit Letter O : 500 feet from the South line and 1511 feet from the East line Section 18 Township 26S Range 30E NMPM County Eddy		8. Well Number 578H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3098' GL		9. OGRID Number 14744
		10. Pool name or Wildcat Purple Sage; Wolfcamp Gas

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>	P AND A <input type="checkbox"/>
CLOSED-LOOP SYSTEM <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: <input type="checkbox"/>

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 APD:

- Change SHL from 500' FSL & 1511' FEL (Sec 18, T26S, R30E) to 490' FSL & 1511' FEL (Sec 18, T26S, R30E). Please see attached updated C102
- Change BHL from 2430' FSL & 1650' FEL (Sec 7, T26S, R30E) to 2560' FSL & 380' FEL (Sec 7, T26S, R30E). Please see attached updated C102
- Change zone from Purple Sage; Wolfcamp (Gas) to Corral Canyon; Bone Spring, South
- Change BOP/BOPE from 10M rating to 5M rating
- 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:

5/6/2023

Rig Release Date:

5/19/2023

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 5/11/2023

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

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Specialist DATE 08/07/2023

Conditions of Approval (if any): [Signature]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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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 30-015-53724		² Pool Code 13354		³ Pool Name Corral Canyon; Bone Spring, South					
⁴ Property Code 333935		⁵ Property Name Full Tilt 18/7 Fed						⁶ Well Number 578H	
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY						⁹ Elevation 3098'	
¹⁰ Surface Location									
UL or lot no. 0	Section 18	Township 26S	Range 30E	Lot Idn	Feet from the 490	North/South line SOUTH	Feet From the 1511	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. I	Section 7	Township 26S	Range 30E	Lot Idn	Feet from the 2560	North/South line SOUTH	Feet from the 380	East/West line EAST	County EDDY
¹² Dedicated Acres 240		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

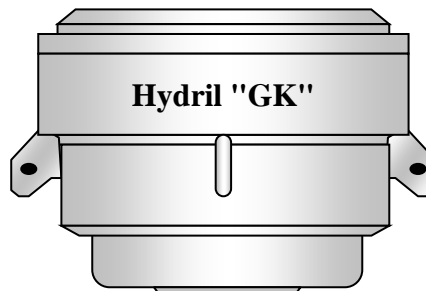
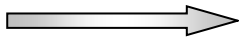
<p>(E) S 89°35'48" W 2682.82' (F) S 89°32'31" W 2655.97' (G)</p> <p>LOT 1 GEODETIC DATA NAD 83 GRID - NM EAST BOTTOM HOLE N: 384673.7 - E: 671483.6 LAT: 32.0568516° N LONG: 103.9132334° W</p> <p>LOT 2</p> <p>LOT 3</p> <p>LOT 4</p> <p>(C) S 89°32'30" W 2673.24'</p> <p>(M) S 89°32'32" W 2660.68'</p> <p>LOT 1 GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N: 377280.4 - E: 670372.4 LAT: 32.0365400° N LONG: 103.9169121° W</p> <p>LOT 2</p> <p>LOT 3</p> <p>LOT 4</p> <p>(A) S 89°34'15" W 2662.73' (L) S 89°32'13" W 2662.51' (K)</p>		<p>(H) S 00°12'44" E 2656.96'</p> <p>(I) S 00°09'16" E 2660.06'</p> <p>(J) S 00°09'43" E 2657.62'</p> <p>(N) S 00°08'10" E 2657.87'</p> <p>(O) S 00°14'32" E 2658.29'</p> <p>(P) S 00°14'30" E 2656.05'</p> <p>(Q) S 00°13'11" E 2661.87'</p> <p>(R) S 00°15'08" E 2657.69'</p>	<p>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.</p> <p><i>Gage Owen</i> 02/07/2023 Signature Date Gage Owen Printed Name gowen@mewbourne.com E-mail Address</p> <p>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.</p> <p>02/02/2023 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number</p> <p>Job No: LS23020114</p>
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5M BOPE & Closed Loop Equipment Schematic



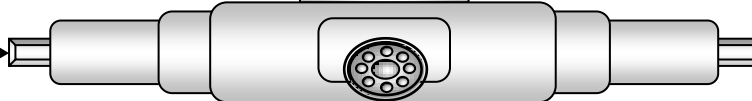
Drawing not to scale

Hydril "GK"
13 5/8" 5M

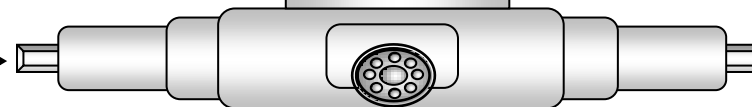


Hydril "GK"

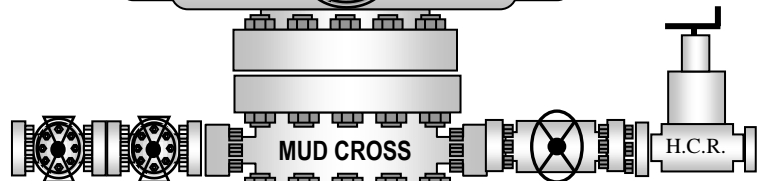
Cameron Type U
13 5/8" 5M



4 1/2" x 5 7/8" VBR



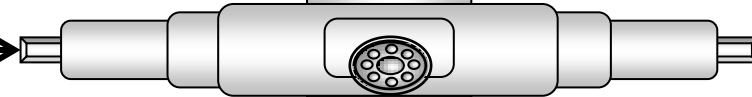
BLIND RAMS



MUD CROSS



H.C.R.



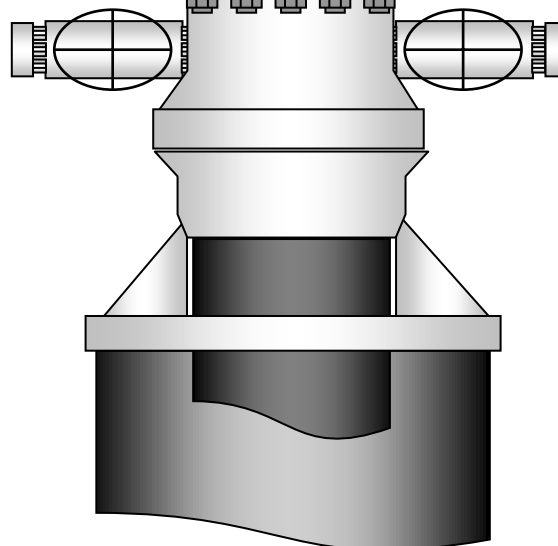
7" RAMS



13 5/8" 5M

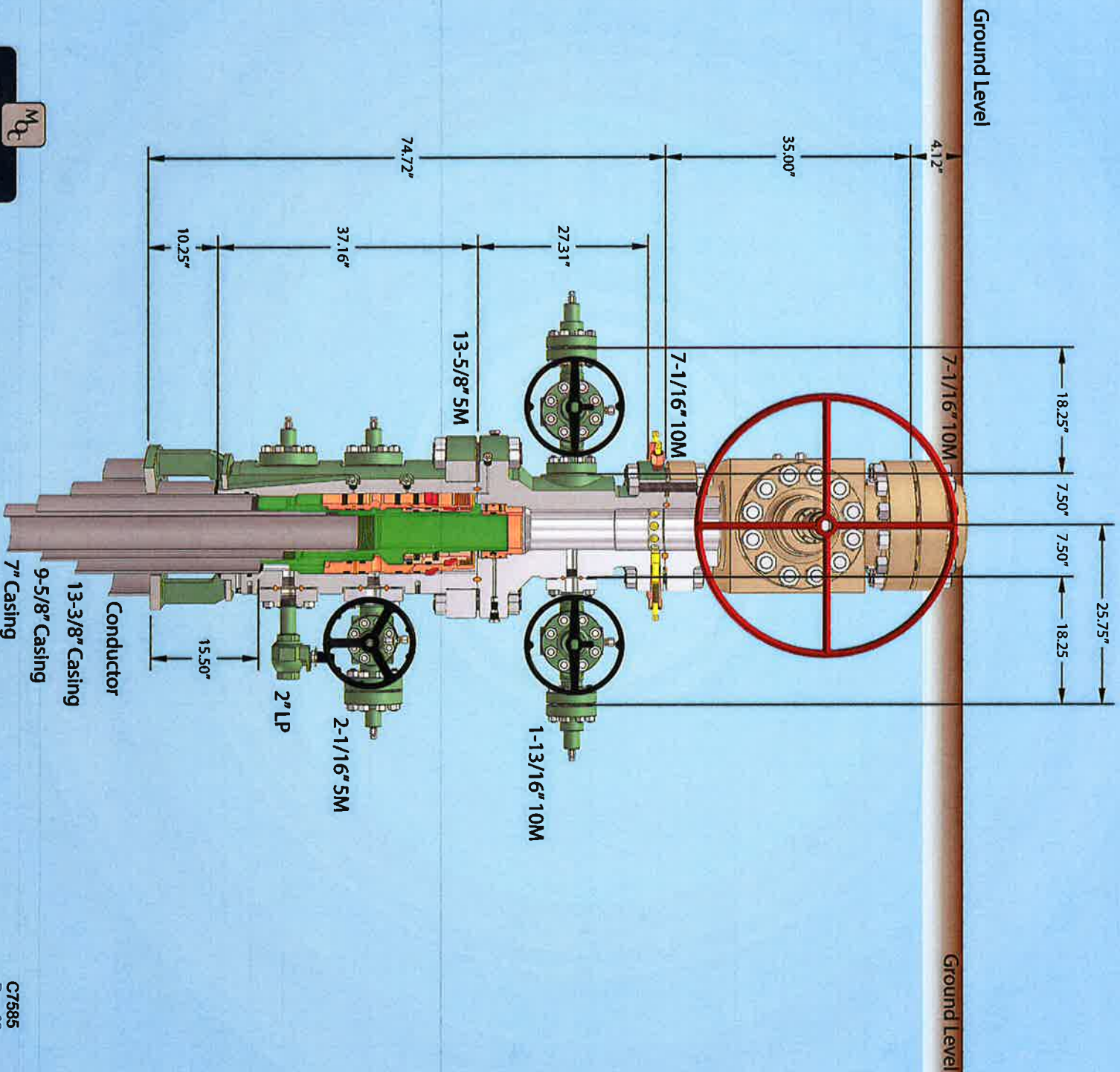
13 5/8" 5M

13 5/8" 5M





13-5/8" MN-DS Wellhead System



C7585

Rev. 02

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

Engineering 537' conductor cut-off
79

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Full Tilt 18/7 Fed #578H

Sec 18, T26S, R30E

SHL: 490' FSL & 1511' FEL (Sec 18)

BHL: 2560' FSL & 380' 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 #578H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3143.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3143.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #578H	North Reference:	Grid
Well:	Sec 18, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2560' FSL & 380' 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 #578H		
Site Position:		Northing:	377,280.40 usft
From:	Map	Easting:	670,372.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.0365400
		Longitude:	-103.9169121

Well	Sec 18, T26S, R30E		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,126.0 usft
Grid Convergence:	0.22 °	Ground Level:	3,098.0 usft
		Latitude:	32.0365400
		Longitude:	-103.9169121

Wellbore	BHL: 2560' FSL & 380' FEL (Sec 7)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.29	59.87	48,089.28865554

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	8.55

Plan Survey Tool Program	Date	2/7/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,553.2	Design #1 (BHL: 2560' FSL & 380	

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	
1,286.5	8.73	112.59	1,284.8	-12.7	30.6	2.00	2.00	0.00	112.59	
8,925.4	8.73	112.59	8,835.2	-458.0	1,101.1	0.00	0.00	0.00	0.00	
9,361.9	0.00	0.00	9,270.0	-470.8	1,131.8	2.00	-2.00	0.00	180.00	KOP: 10' FSL & 380' I
10,258.7	89.67	359.85	9,843.0	98.9	1,130.3	10.00	10.00	0.00	-0.15	
17,553.2	89.67	359.85	9,885.0	7,393.3	1,111.2	0.00	0.00	0.00	0.00	BHL: 2560' FSL & 380

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Full Tilt 18/7 Fed #578H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3143.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3143.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #578H	North Reference:	Grid
Well:	Sec 18, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2560' FSL & 380' 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: 490' 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	112.59	900.0	-0.2	0.4	-0.1	2.00	2.00	0.00
1,000.0	3.00	112.59	999.9	-1.5	3.6	-1.0	2.00	2.00	0.00
1,100.0	5.00	112.59	1,099.7	-4.2	10.1	-2.6	2.00	2.00	0.00
1,200.0	7.00	112.59	1,199.1	-8.2	19.7	-5.2	2.00	2.00	0.00
1,286.5	8.73	112.59	1,284.8	-12.7	30.6	-8.1	2.00	2.00	0.00
1,300.0	8.73	112.59	1,298.2	-13.5	32.5	-8.5	0.00	0.00	0.00
1,400.0	8.73	112.59	1,397.0	-19.4	46.6	-12.2	0.00	0.00	0.00
1,500.0	8.73	112.59	1,495.8	-25.2	60.6	-15.9	0.00	0.00	0.00
1,600.0	8.73	112.59	1,594.7	-31.0	74.6	-19.6	0.00	0.00	0.00
1,700.0	8.73	112.59	1,693.5	-36.8	88.6	-23.3	0.00	0.00	0.00
1,800.0	8.73	112.59	1,792.4	-42.7	102.6	-27.0	0.00	0.00	0.00
1,900.0	8.73	112.59	1,891.2	-48.5	116.6	-30.6	0.00	0.00	0.00
2,000.0	8.73	112.59	1,990.0	-54.3	130.6	-34.3	0.00	0.00	0.00
2,100.0	8.73	112.59	2,088.9	-60.2	144.6	-38.0	0.00	0.00	0.00
2,200.0	8.73	112.59	2,187.7	-66.0	158.7	-41.7	0.00	0.00	0.00
2,300.0	8.73	112.59	2,286.6	-71.8	172.7	-45.4	0.00	0.00	0.00
2,400.0	8.73	112.59	2,385.4	-77.7	186.7	-49.0	0.00	0.00	0.00
2,500.0	8.73	112.59	2,484.3	-83.5	200.7	-52.7	0.00	0.00	0.00
2,600.0	8.73	112.59	2,583.1	-89.3	214.7	-56.4	0.00	0.00	0.00
2,700.0	8.73	112.59	2,681.9	-95.1	228.7	-60.1	0.00	0.00	0.00
2,800.0	8.73	112.59	2,780.8	-101.0	242.7	-63.8	0.00	0.00	0.00
2,900.0	8.73	112.59	2,879.6	-106.8	256.8	-67.5	0.00	0.00	0.00
3,000.0	8.73	112.59	2,978.5	-112.6	270.8	-71.1	0.00	0.00	0.00
3,100.0	8.73	112.59	3,077.3	-118.5	284.8	-74.8	0.00	0.00	0.00
3,200.0	8.73	112.59	3,176.1	-124.3	298.8	-78.5	0.00	0.00	0.00
3,300.0	8.73	112.59	3,275.0	-130.1	312.8	-82.2	0.00	0.00	0.00
3,400.0	8.73	112.59	3,373.8	-135.9	326.8	-85.9	0.00	0.00	0.00
3,500.0	8.73	112.59	3,472.7	-141.8	340.8	-89.5	0.00	0.00	0.00
3,600.0	8.73	112.59	3,571.5	-147.6	354.9	-93.2	0.00	0.00	0.00
3,700.0	8.73	112.59	3,670.4	-153.4	368.9	-96.9	0.00	0.00	0.00
3,800.0	8.73	112.59	3,769.2	-159.3	382.9	-100.6	0.00	0.00	0.00
3,900.0	8.73	112.59	3,868.0	-165.1	396.9	-104.3	0.00	0.00	0.00
4,000.0	8.73	112.59	3,966.9	-170.9	410.9	-107.9	0.00	0.00	0.00
4,100.0	8.73	112.59	4,065.7	-176.7	424.9	-111.6	0.00	0.00	0.00
4,200.0	8.73	112.59	4,164.6	-182.6	438.9	-115.3	0.00	0.00	0.00
4,300.0	8.73	112.59	4,263.4	-188.4	452.9	-119.0	0.00	0.00	0.00
4,400.0	8.73	112.59	4,362.2	-194.2	467.0	-122.7	0.00	0.00	0.00
4,500.0	8.73	112.59	4,461.1	-200.1	481.0	-126.4	0.00	0.00	0.00
4,600.0	8.73	112.59	4,559.9	-205.9	495.0	-130.0	0.00	0.00	0.00
4,700.0	8.73	112.59	4,658.8	-211.7	509.0	-133.7	0.00	0.00	0.00
4,800.0	8.73	112.59	4,757.6	-217.6	523.0	-137.4	0.00	0.00	0.00
4,900.0	8.73	112.59	4,856.4	-223.4	537.0	-141.1	0.00	0.00	0.00
5,000.0	8.73	112.59	4,955.3	-229.2	551.0	-144.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Full Tilt 18/7 Fed #578H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3143.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3143.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #578H	North Reference:	Grid
Well:	Sec 18, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2560' FSL & 380' 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	8.73	112.59	5,054.1	-235.0	565.1	-148.4	0.00	0.00	0.00
5,200.0	8.73	112.59	5,153.0	-240.9	579.1	-152.1	0.00	0.00	0.00
5,300.0	8.73	112.59	5,251.8	-246.7	593.1	-155.8	0.00	0.00	0.00
5,400.0	8.73	112.59	5,350.7	-252.5	607.1	-159.5	0.00	0.00	0.00
5,500.0	8.73	112.59	5,449.5	-258.4	621.1	-163.2	0.00	0.00	0.00
5,600.0	8.73	112.59	5,548.3	-264.2	635.1	-166.9	0.00	0.00	0.00
5,700.0	8.73	112.59	5,647.2	-270.0	649.1	-170.5	0.00	0.00	0.00
5,800.0	8.73	112.59	5,746.0	-275.8	663.2	-174.2	0.00	0.00	0.00
5,900.0	8.73	112.59	5,844.9	-281.7	677.2	-177.9	0.00	0.00	0.00
6,000.0	8.73	112.59	5,943.7	-287.5	691.2	-181.6	0.00	0.00	0.00
6,100.0	8.73	112.59	6,042.5	-293.3	705.2	-185.3	0.00	0.00	0.00
6,200.0	8.73	112.59	6,141.4	-299.2	719.2	-188.9	0.00	0.00	0.00
6,300.0	8.73	112.59	6,240.2	-305.0	733.2	-192.6	0.00	0.00	0.00
6,400.0	8.73	112.59	6,339.1	-310.8	747.2	-196.3	0.00	0.00	0.00
6,500.0	8.73	112.59	6,437.9	-316.6	761.3	-200.0	0.00	0.00	0.00
6,600.0	8.73	112.59	6,536.8	-322.5	775.3	-203.7	0.00	0.00	0.00
6,700.0	8.73	112.59	6,635.6	-328.3	789.3	-207.3	0.00	0.00	0.00
6,800.0	8.73	112.59	6,734.4	-334.1	803.3	-211.0	0.00	0.00	0.00
6,900.0	8.73	112.59	6,833.3	-340.0	817.3	-214.7	0.00	0.00	0.00
7,000.0	8.73	112.59	6,932.1	-345.8	831.3	-218.4	0.00	0.00	0.00
7,100.0	8.73	112.59	7,031.0	-351.6	845.3	-222.1	0.00	0.00	0.00
7,200.0	8.73	112.59	7,129.8	-357.4	859.3	-225.8	0.00	0.00	0.00
7,300.0	8.73	112.59	7,228.6	-363.3	873.4	-229.4	0.00	0.00	0.00
7,400.0	8.73	112.59	7,327.5	-369.1	887.4	-233.1	0.00	0.00	0.00
7,500.0	8.73	112.59	7,426.3	-374.9	901.4	-236.8	0.00	0.00	0.00
7,600.0	8.73	112.59	7,525.2	-380.8	915.4	-240.5	0.00	0.00	0.00
7,700.0	8.73	112.59	7,624.0	-386.6	929.4	-244.2	0.00	0.00	0.00
7,800.0	8.73	112.59	7,722.9	-392.4	943.4	-247.8	0.00	0.00	0.00
7,900.0	8.73	112.59	7,821.7	-398.3	957.4	-251.5	0.00	0.00	0.00
8,000.0	8.73	112.59	7,920.5	-404.1	971.5	-255.2	0.00	0.00	0.00
8,100.0	8.73	112.59	8,019.4	-409.9	985.5	-258.9	0.00	0.00	0.00
8,200.0	8.73	112.59	8,118.2	-415.7	999.5	-262.6	0.00	0.00	0.00
8,300.0	8.73	112.59	8,217.1	-421.6	1,013.5	-266.3	0.00	0.00	0.00
8,400.0	8.73	112.59	8,315.9	-427.4	1,027.5	-269.9	0.00	0.00	0.00
8,500.0	8.73	112.59	8,414.7	-433.2	1,041.5	-273.6	0.00	0.00	0.00
8,600.0	8.73	112.59	8,513.6	-439.1	1,055.5	-277.3	0.00	0.00	0.00
8,700.0	8.73	112.59	8,612.4	-444.9	1,069.6	-281.0	0.00	0.00	0.00
8,800.0	8.73	112.59	8,711.3	-450.7	1,083.6	-284.7	0.00	0.00	0.00
8,900.0	8.73	112.59	8,810.1	-456.5	1,097.6	-288.3	0.00	0.00	0.00
8,925.4	8.73	112.59	8,835.2	-458.0	1,101.1	-289.3	0.00	0.00	0.00
9,000.0	7.24	112.59	8,909.1	-462.0	1,110.7	-291.8	2.00	-2.00	0.00
9,100.0	5.24	112.59	9,008.5	-466.2	1,120.7	-294.4	2.00	-2.00	0.00
9,200.0	3.24	112.59	9,108.2	-469.0	1,127.6	-296.2	2.00	-2.00	0.00
9,300.0	1.24	112.59	9,208.1	-470.5	1,131.2	-297.2	2.00	-2.00	0.00
9,361.9	0.00	0.00	9,270.0	-470.8	1,131.8	-297.3	2.00	-2.00	0.00
KOP: 10' FSL & 380' FEL (Sec 18)									
9,400.0	3.81	359.85	9,308.1	-469.5	1,131.8	-296.1	10.00	10.00	0.00
9,450.0	8.81	359.85	9,357.8	-464.0	1,131.8	-290.6	10.00	10.00	0.00
9,500.0	13.81	359.85	9,406.8	-454.2	1,131.7	-280.9	10.00	10.00	0.00
9,550.0	18.81	359.85	9,454.8	-440.2	1,131.7	-267.1	10.00	10.00	0.00
9,600.0	23.81	359.85	9,501.3	-422.0	1,131.7	-249.1	10.00	10.00	0.00
9,650.0	28.81	359.85	9,546.1	-399.8	1,131.6	-227.2	10.00	10.00	0.00
9,687.4	32.55	359.85	9,578.3	-380.8	1,131.5	-208.4	10.00	10.00	0.00
FTP: 100' FSL & 380' FEL (Sec 18)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Full Tilt 18/7 Fed #578H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3143.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3143.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #578H	North Reference:	Grid
Well:	Sec 18, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2560' FSL & 380' 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)
9,700.0	33.81	359.85	9,588.8	-373.9	1,131.5	-201.5	10.00	10.00	0.00
9,750.0	38.81	359.85	9,629.1	-344.3	1,131.5	-172.3	10.00	10.00	0.00
9,800.0	43.81	359.85	9,666.7	-311.3	1,131.4	-139.7	10.00	10.00	0.00
9,850.0	48.81	359.85	9,701.2	-275.1	1,131.3	-103.9	10.00	10.00	0.00
9,900.0	53.81	359.85	9,732.4	-236.1	1,131.2	-65.4	10.00	10.00	0.00
9,950.0	58.81	359.85	9,760.2	-194.5	1,131.1	-24.3	10.00	10.00	0.00
10,000.0	63.81	359.85	9,784.2	-150.7	1,130.9	19.1	10.00	10.00	0.00
10,050.0	68.81	359.85	9,804.3	-104.9	1,130.8	64.3	10.00	10.00	0.00
10,100.0	73.81	359.85	9,820.3	-57.6	1,130.7	111.1	10.00	10.00	0.00
10,150.0	78.81	359.85	9,832.1	-9.0	1,130.6	159.1	10.00	10.00	0.00
10,200.0	83.81	359.85	9,839.7	40.4	1,130.4	208.0	10.00	10.00	0.00
10,250.0	88.80	359.85	9,842.9	90.3	1,130.3	257.3	10.00	10.00	0.00
10,258.7	89.67	359.85	9,843.0	98.9	1,130.3	265.8	10.00	10.00	0.00
10,262.0	89.67	359.85	9,843.0	102.2	1,130.3	269.1	0.00	0.00	0.00
LP: 583' FSL & 380' FEL (Sec 18)									
10,300.0	89.67	359.85	9,843.2	140.3	1,130.2	306.7	0.00	0.00	0.00
10,400.0	89.67	359.85	9,843.8	240.3	1,129.9	405.6	0.00	0.00	0.00
10,500.0	89.67	359.85	9,844.4	340.3	1,129.7	504.4	0.00	0.00	0.00
10,600.0	89.67	359.85	9,845.0	440.3	1,129.4	603.2	0.00	0.00	0.00
10,700.0	89.67	359.85	9,845.5	540.3	1,129.1	702.1	0.00	0.00	0.00
10,800.0	89.67	359.85	9,846.1	640.3	1,128.9	800.9	0.00	0.00	0.00
10,900.0	89.67	359.85	9,846.7	740.3	1,128.6	899.8	0.00	0.00	0.00
11,000.0	89.67	359.85	9,847.3	840.3	1,128.4	998.6	0.00	0.00	0.00
11,100.0	89.67	359.85	9,847.8	940.3	1,128.1	1,097.5	0.00	0.00	0.00
11,200.0	89.67	359.85	9,848.4	1,040.3	1,127.8	1,196.3	0.00	0.00	0.00
11,300.0	89.67	359.85	9,849.0	1,140.3	1,127.6	1,295.2	0.00	0.00	0.00
11,400.0	89.67	359.85	9,849.6	1,240.3	1,127.3	1,394.0	0.00	0.00	0.00
11,500.0	89.67	359.85	9,850.1	1,340.3	1,127.0	1,492.9	0.00	0.00	0.00
11,600.0	89.67	359.85	9,850.7	1,440.3	1,126.8	1,591.7	0.00	0.00	0.00
11,700.0	89.67	359.85	9,851.3	1,540.3	1,126.5	1,690.6	0.00	0.00	0.00
11,800.0	89.67	359.85	9,851.9	1,640.3	1,126.3	1,789.4	0.00	0.00	0.00
11,900.0	89.67	359.85	9,852.5	1,740.3	1,126.0	1,888.3	0.00	0.00	0.00
12,000.0	89.67	359.85	9,853.0	1,840.2	1,125.7	1,987.1	0.00	0.00	0.00
12,100.0	89.67	359.85	9,853.6	1,940.2	1,125.5	2,086.0	0.00	0.00	0.00
12,200.0	89.67	359.85	9,854.2	2,040.2	1,125.2	2,184.8	0.00	0.00	0.00
12,300.0	89.67	359.85	9,854.8	2,140.2	1,124.9	2,283.7	0.00	0.00	0.00
12,400.0	89.67	359.85	9,855.3	2,240.2	1,124.7	2,382.5	0.00	0.00	0.00
12,500.0	89.67	359.85	9,855.9	2,340.2	1,124.4	2,481.4	0.00	0.00	0.00
12,600.0	89.67	359.85	9,856.5	2,440.2	1,124.2	2,580.2	0.00	0.00	0.00
12,700.0	89.67	359.85	9,857.1	2,540.2	1,123.9	2,679.1	0.00	0.00	0.00
12,800.0	89.67	359.85	9,857.6	2,640.2	1,123.6	2,777.9	0.00	0.00	0.00
12,900.0	89.67	359.85	9,858.2	2,740.2	1,123.4	2,876.8	0.00	0.00	0.00
13,000.0	89.67	359.85	9,858.8	2,840.2	1,123.1	2,975.6	0.00	0.00	0.00
13,100.0	89.67	359.85	9,859.4	2,940.2	1,122.9	3,074.5	0.00	0.00	0.00
13,200.0	89.67	359.85	9,859.9	3,040.2	1,122.6	3,173.3	0.00	0.00	0.00
13,300.0	89.67	359.85	9,860.5	3,140.2	1,122.3	3,272.2	0.00	0.00	0.00
13,400.0	89.67	359.85	9,861.1	3,240.2	1,122.1	3,371.0	0.00	0.00	0.00
13,500.0	89.67	359.85	9,861.7	3,340.2	1,121.8	3,469.9	0.00	0.00	0.00
13,600.0	89.67	359.85	9,862.2	3,440.2	1,121.5	3,568.7	0.00	0.00	0.00
13,700.0	89.67	359.85	9,862.8	3,540.2	1,121.3	3,667.6	0.00	0.00	0.00
13,800.0	89.67	359.85	9,863.4	3,640.2	1,121.0	3,766.4	0.00	0.00	0.00
13,900.0	89.67	359.85	9,864.0	3,740.2	1,120.8	3,865.2	0.00	0.00	0.00
14,000.0	89.67	359.85	9,864.5	3,840.2	1,120.5	3,964.1	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Full Tilt 18/7 Fed #578H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3143.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3143.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #578H	North Reference:	Grid
Well:	Sec 18, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2560' FSL & 380' 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	89.67	359.85	9,865.1	3,940.2	1,120.2	4,062.9	0.00	0.00	0.00	
14,200.0	89.67	359.85	9,865.7	4,040.2	1,120.0	4,161.8	0.00	0.00	0.00	
14,300.0	89.67	359.85	9,866.3	4,140.2	1,119.7	4,260.6	0.00	0.00	0.00	
14,400.0	89.67	359.85	9,866.8	4,240.2	1,119.5	4,359.5	0.00	0.00	0.00	
14,500.0	89.67	359.85	9,867.4	4,340.2	1,119.2	4,458.3	0.00	0.00	0.00	
14,600.0	89.67	359.85	9,868.0	4,440.2	1,118.9	4,557.2	0.00	0.00	0.00	
14,700.0	89.67	359.85	9,868.6	4,540.2	1,118.7	4,656.0	0.00	0.00	0.00	
14,800.0	89.67	359.85	9,869.1	4,640.2	1,118.4	4,754.9	0.00	0.00	0.00	
14,900.0	89.67	359.85	9,869.7	4,740.2	1,118.1	4,853.7	0.00	0.00	0.00	
15,000.0	89.67	359.85	9,870.3	4,840.2	1,117.9	4,952.6	0.00	0.00	0.00	
15,100.0	89.67	359.85	9,870.9	4,940.2	1,117.6	5,051.4	0.00	0.00	0.00	
15,200.0	89.67	359.85	9,871.5	5,040.2	1,117.4	5,150.3	0.00	0.00	0.00	
15,300.0	89.67	359.85	9,872.0	5,140.2	1,117.1	5,249.1	0.00	0.00	0.00	
15,400.0	89.67	359.85	9,872.6	5,240.2	1,116.8	5,348.0	0.00	0.00	0.00	
15,500.0	89.67	359.85	9,873.2	5,340.2	1,116.6	5,446.8	0.00	0.00	0.00	
15,600.0	89.67	359.85	9,873.8	5,440.2	1,116.3	5,545.7	0.00	0.00	0.00	
15,700.0	89.67	359.85	9,874.3	5,540.2	1,116.1	5,644.5	0.00	0.00	0.00	
15,800.0	89.67	359.85	9,874.9	5,640.2	1,115.8	5,743.4	0.00	0.00	0.00	
15,900.0	89.67	359.85	9,875.5	5,740.2	1,115.5	5,842.2	0.00	0.00	0.00	
16,000.0	89.67	359.85	9,876.1	5,840.2	1,115.3	5,941.1	0.00	0.00	0.00	
16,100.0	89.67	359.85	9,876.6	5,940.2	1,115.0	6,039.9	0.00	0.00	0.00	
16,200.0	89.67	359.85	9,877.2	6,040.2	1,114.7	6,138.8	0.00	0.00	0.00	
16,300.0	89.67	359.85	9,877.8	6,140.2	1,114.5	6,237.6	0.00	0.00	0.00	
16,400.0	89.67	359.85	9,878.4	6,240.2	1,114.2	6,336.5	0.00	0.00	0.00	
16,500.0	89.67	359.85	9,878.9	6,340.2	1,114.0	6,435.3	0.00	0.00	0.00	
16,600.0	89.67	359.85	9,879.5	6,440.2	1,113.7	6,534.2	0.00	0.00	0.00	
16,700.0	89.67	359.85	9,880.1	6,540.2	1,113.4	6,633.0	0.00	0.00	0.00	
16,800.0	89.67	359.85	9,880.7	6,640.2	1,113.2	6,731.9	0.00	0.00	0.00	
16,900.0	89.67	359.85	9,881.2	6,740.2	1,112.9	6,830.7	0.00	0.00	0.00	
17,000.0	89.67	359.85	9,881.8	6,840.1	1,112.6	6,929.5	0.00	0.00	0.00	
17,100.0	89.67	359.85	9,882.4	6,940.1	1,112.4	7,028.4	0.00	0.00	0.00	
17,200.0	89.67	359.85	9,883.0	7,040.1	1,112.1	7,127.2	0.00	0.00	0.00	
17,300.0	89.67	359.85	9,883.5	7,140.1	1,111.9	7,226.1	0.00	0.00	0.00	
17,400.0	89.67	359.85	9,884.1	7,240.1	1,111.6	7,324.9	0.00	0.00	0.00	
17,500.0	89.67	359.85	9,884.7	7,340.1	1,111.3	7,423.8	0.00	0.00	0.00	
17,553.2	89.67	359.85	9,885.0	7,393.3	1,111.2	7,476.3	0.00	0.00	0.00	
BHL: 2560' FSL & 380' FEL (Sec 7)										

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Full Tilt 18/7 Fed #578H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3143.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3143.0usft (Original Well Elev)
Site:	Full Tilt 18/7 Fed #578H	North Reference:	Grid
Well:	Sec 18, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2560' FSL & 380' FEL (Sec 7)		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
SHL: 490' FSL & 1511' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	377,280.40	670,372.40	32.0365400	-103.9169121
KOP: 10' FSL & 380' FE - plan hits target center - Point	0.00	0.00	9,270.0	-470.8	1,131.8	376,809.63	671,504.18	32.0352339	-103.9132656
FTP: 100' FSL & 380' FE - plan hits target center - Point	0.00	0.00	9,578.3	-380.8	1,131.5	376,899.63	671,503.94	32.0354813	-103.9132652
LP: 583' FSL & 380' FEL - plan hits target center - Point	0.00	0.00	9,843.0	102.2	1,130.3	377,382.64	671,502.67	32.0368091	-103.9132632
BHL: 2560' FSL & 380' F - plan hits target center - Point	0.00	0.01	9,885.0	7,393.3	1,111.2	384,673.70	671,483.60	32.0568517	-103.9132333



GATES ENGINEERING & SERVICES NORTH AMERICA
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Houston, TX 77086

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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:	Moose 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
Date : 8/20/2018
Signature : *Moose Naqvi*

Production: PRODUCTION
Date : 8/20/2018
Signature : *[Signature]*

Form PTC - 01 Rev.0 2





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

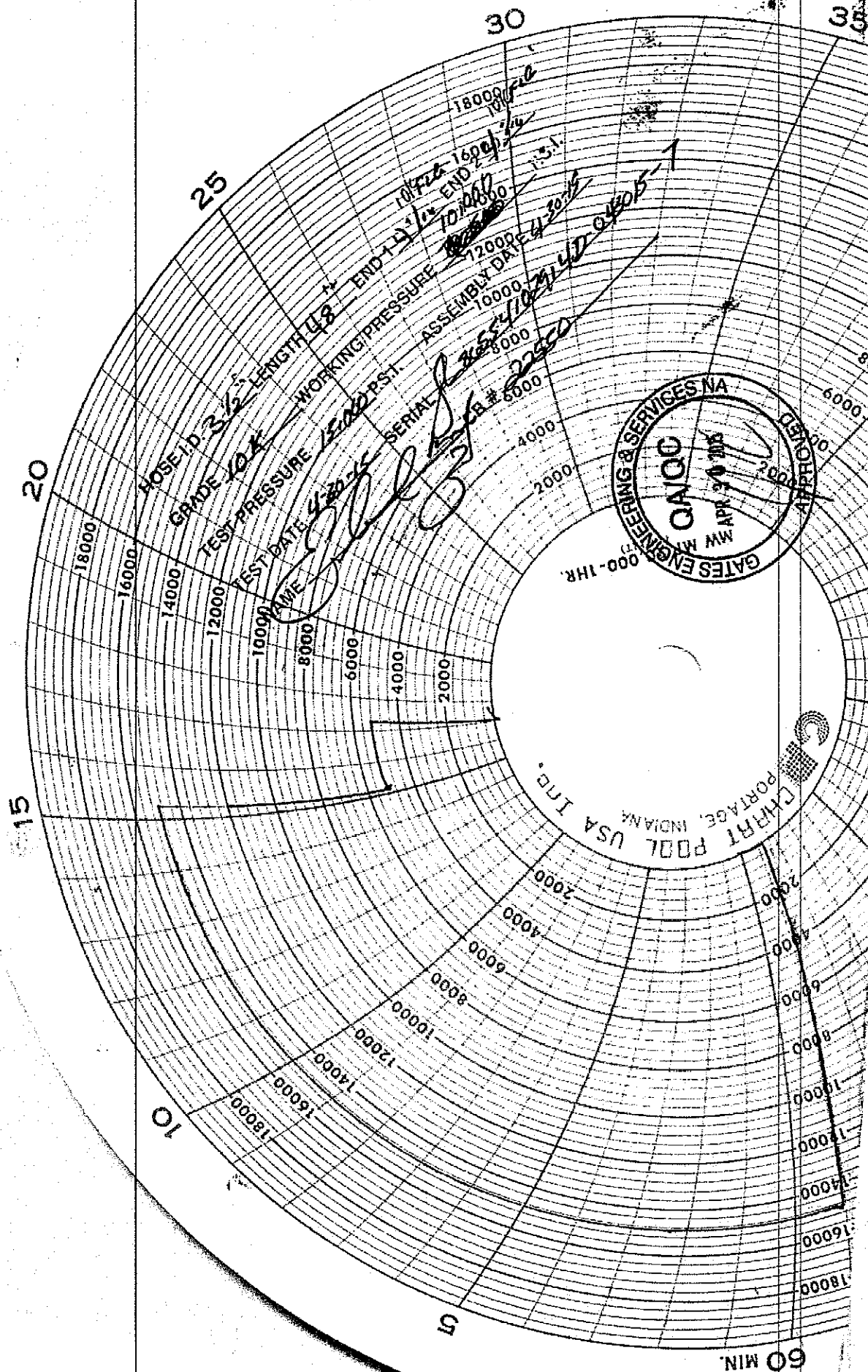
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE		
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

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	Production:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :	<i>Justin Cropper</i>	Signature :	<i>Justin Cropper</i>

Form PTC - 01 Rev.02





Mewbourne Oil Company, Full Tilt 18/7 Fed 578H
Sec 18, T26S, R30E
SHL: 490' FSL & 1511' FEL (Sec 18)
BHL: 2560' FSL & 380' FEL (Sec 7)

Casing Program

Hole Size	From	To	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF Jt	SF Body Tension
				(lbs)			Collapse		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'	9300'	7.000	26.0	P110	LTC	1.34	2.14	2.87	3.43
6.125	9100'	17553'	4.500	13.5	P110	LTC	1.73	2.01	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 IILB.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 nd 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 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 578H**Sec 18, T26S, R30E****SHL: 490' FSL & 1511' FEL (Sec 18)****BHL: 2560' FSL & 380' 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'	7118'	260	2.12	12.5	560	40	Class C, Salt, Gel, Extender, LCM, Defoamer
Production (Tail Stage 2)	7118'	9300'	400	1.18	15.6	472	40	Class H, Retarder, Fluid Loss, Defoamer
Liner	9100'	17553'	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 578H**Sec 18, T26S, R30E****SHL: 490' FSL & 1511' FEL (Sec 18)****BHL: 2560' FSL & 380' 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	9300	Cut Brine	8.6-9.7	28-34	N/C
9300	17553	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:** 9885' (See attached Directional Plan)**Max MW:** 12 ppg**Anticipated Bottom Hole Pressure:** 6168 psi**Anticipated Surface Pressure:** 3994 psi

Mewbourne Oil Company, Full Tilt 18/7 Fed 578H**Sec 18, T26S, R30E****SHL: 490' FSL & 1511' FEL (Sec 18)****BHL: 2560' FSL & 380' FEL (Sec 7)****Additional Information**

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Full Tilt 18/7 Fed	578H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	18	26S	30E	-	10'	FSL	380'	FEL	Eddy
Latitude					Longitude			NAD	
32.0352339					-103.9132656			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	380'	FEL	Eddy
Latitude					Longitude			NAD	
32.0354813					-103.9132652			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	7	26S	30E	-	2560'	FSL	380'	FEL	Eddy
Latitude					Longitude			NAD	
32.0568516					-103.9132334			83	

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

☒

Is this well an infill well?

☐

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

API #

Operator Name:	Property Name:	Well Number

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 <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> 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				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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: TR O / 500 FSL / 1511 FEL / TWSP: 26S / RANGE: 30E / SECTION: 18 / LAT: 32.036568 / LONG: -103.916914 (TVD: 0 feet, MD: 0 feet)

PPP: TR O / 330 FSL / 1650 FEL / TWSP: 26S / RANGE: 30E / SECTION: 18 / LAT: 32.036099 / LONG: -103.917363 (TVD: 11613 feet, MD: 11747 feet)

BHL: TR J / 2430 FSL / 1650 FEL / TWSP: 26S / RANGE: 31E / SECTION: 7 / LAT: 32.056481 / LONG: -103.917333 (TVD: 11656 feet, MD: 19168 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM031649
WELL NAME & NO.:	FULL TILT 18-7 FED 578H
SURFACE HOLE FOOTAGE:	490'/S & 1511'/E
BOTTOM HOLE FOOTAGE:	2560'/S & 380'/E
LOCATION:	Section 18, T.26 S., R.30 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> 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 216114

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 216114
	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