Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMLC0061153

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.:

8. Lease Name and Well No.: WINTERFELL 5_6 B2IJ FED COM [331384] 1H

2. Name of Operator: MEWBOURNE OIL COMPANY [14744]

9. API Well No.: 30-025-49363

3a. Address: PO Box 5270, Hobbs, NM 88240

3b. Phone No. *(include area code)*: (575) 393-5905

10. Field and Pool, or Exploratory [65350]: PALMILLO BONE SPRING EAST/BONE

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: TR P / 1270 FSL / 455 FEL / LAT 32.7728217 / LONG -103.7814105

At proposed prod. zone: TR J / 1980 FSL / 2540 FEL / LAT 32.7748066 / LONG -103.8054252

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 5/T18S/R32E/NMP

14. Distance in miles and direction from nearest town or post office*: 10 miles

12. County or Parish: LEA

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 210 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 240.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 330 feet

19. Proposed Depth: 8692 feet / 16299 feet

20. BLM/BIA Bond No. in file: FED:

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3833 feet

22. Approximate date work will start*: 10/31/2019

23. Estimated duration: 60 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	BRADLEY BISHOP / Ph: (575) 393-5905	08/30/2019

Title: Regulatory

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	09/30/2020

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

Application approval 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.
Conditions of approval, if any, are attached.

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.

NGMP Rec 08/27/2021

08/31/2021

SL

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 09/30/2020

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
30-025-49363	65350	YOUNG BONE SPRING NORTH

4 Property Code	5 Property Name	6 Well Number
331384	WINTERFELL 5/6 B2IJ FED COM	1H

7 OGRID NO.	8 Operator Name	9 Elevation
14744	MEWBOURNE OIL COMPANY	3833'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
P	5	18S	32E		1270	SOUTH	455	EAST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	6	18S	32E		1980	SOUTH	2540	EAST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
240			

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.

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GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION
N: 645326.9 – E: 710977.5

LAT: 32.7728216° N
LONG: 103.7814106° W

BOTTOM HOLE
N: 646011.4 – E: 703592.6

LAT: 32.7748066° N
LONG: 103.8054251° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1913
N: 644024.0 – E: 700832.1

B: FOUND BRASS CAP "1913"
N: 646666.0 – E: 700816.4

C: FOUND BRASS CAP "1913"
N: 649306.3 – E: 700801.5

D: FOUND BRASS CAP "1913"
N: 649315.1 – E: 703470.5

E: FOUND BRASS CAP "1913"
N: 649324.0 – E: 706111.0

F: FOUND BRASS CAP "1913"
N: 649334.9 – E: 708748.0

G: FOUND BRASS CAP "1913"
N: 649342.9 – E: 711390.3

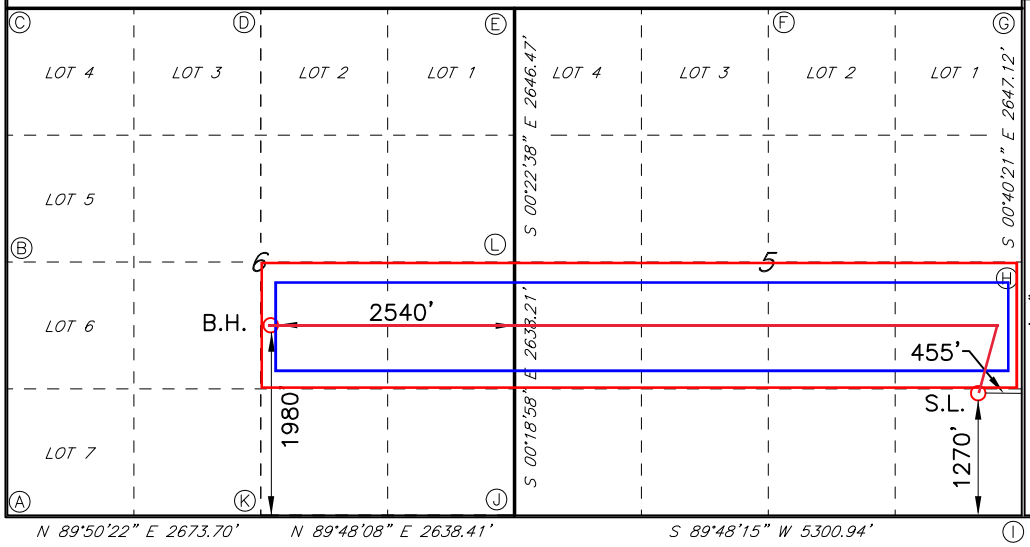
H: FOUND BRASS CAP "1913"
N: 646696.6 – E: 711421.4

I: FOUND BRASS CAP "1913"
N: 644058.8 – E: 711442.6

J: FOUND BRASS CAP "1913"
N: 644040.6 – E: 706142.9

K: FOUND BRASS CAP "1913"
N: 644031.5 – E: 703505.2

L: FOUND 1" IRON PIPE
N: 646678.2 – E: 706128.4



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 8-30-19
Date

BRADLEY BISHOP
Printed Name

BBISHOP@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.

05-29-2019
Date of Survey

Signature and Seal of Professional Surveyor

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

19680
Certificate Number

RRC-Job No: LS19050636

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Mewbourne Oil Company **OGRID:** 14744 **Date:** 08 / 27 / 21

II. Type: ☑ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Winterfell 5/6 B2IJ Fed Com 1H	30-025-49363	P518S32E	1270FSL 455FEL	1500	1550	1650

IV. Central Delivery Point Name: Durango Master Meter [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Winterfell 5/6 B2IJ Fed Com 1H	30-025-49363	09/06/21	09/29/21	11/01/21	11/15/21	11/20/21

VI. Separation Equipment: ☑ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☑ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☑ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☑ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	8/13/21
Phone:	575-393-5905

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Mewbourne Oil Company

Natural Gas Management Plan – Attachment

VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.

VII. Mewbourne Oil Company (MOC) will take following actions to comply with the regulations listed in 19.15.27.8 :

A. MOC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. MOC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.

B. All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.

C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flow will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, MOC will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. MOC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.

D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.

E. MOC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs in order to minimize the waste. Production storage tanks constructed after May 25, 2021 will be equipped with automatic gauging system. Flares constructed after May 25, 2021 will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. MOC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.

F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured or estimated. MOC will install equipment to measure

the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, MOC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Mewbourne Oil Company**
LEASE NO.:	**NMLC0061153**
WELL NAME & NO.:	WINTERFELL 5-6 B2IJ FED COM 1H
SURFACE HOLE FOOTAGE:	1270'/S & 455'/E
BOTTOM HOLE FOOTAGE	1980'/S & 2540'/E
LOCATION:	Section 05, T.18 S., R.32 E., NMPM
COUNTY:	Lea 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	[x] COM	[ ] Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Queen and Bone Spring formations. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **1160** feet (a minimum of **25 feet (Lea 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

 Approval Date: 09/30/2020

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 **9-5/8** inch intermediate casing shall be set at approximately **4770** feet.The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess cement calculates to 17%, additional cement might be required.**

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

- 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.

C. 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.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
    e. 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.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

    b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

    c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for

the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

OTA09012020

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Application Data Report
08/27/2021

APD ID: 10400046775
Submission Date: 08/30/2019
Operator Name: MEWBOURNE OIL COMPANY
Well Name: WINTERFELL 5_6 B2IJ FED COM
Well Number: 1H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400046775
Tie to previous NOS?
Submission Date: 08/30/2019
BLM Office: Carlsbad
User: Bradley Bishop
Title: Regulatory
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMLC0061153
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? YES
Permitting Agent? NO
APD Operator: MEWBOURNE OIL COMPANY
Operator letter of designation:

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY
Operator Address: PO Box 5270
Zip: 88240
Operator PO Box:
Operator City: Hobbs
State: NM
Operator Phone: (575)393-5905
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: WINTERFELL 5_6 B2IJ FED COM
Well Number: 1H
Well API Number:
Field/Pool or Exploratory? Field and Pool
Field Name: PALMILLO BONE SPRING EAST
Pool Name: BONE SPRING
Is the proposed well in an area containing other mineral resources? POTASH

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Is the proposed well in an area containing other mineral resources? POTASH

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**

Type of Well Pad: SINGLE WELL **Multiple Well Pad Name:** **Number:**

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 10 Miles **Distance to nearest well:** 330 FT **Distance to lease line:** 210 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat: Winterfell5_6B2IJFedCom1H_wellplat_20190830072848.pdf

Well work start Date: 10/31/2019 **Duration:** 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	1270	FSL	455	FEL	18S	32E	5	Tract P	32.7728217	-103.7814105	LEA	NEW MEXICO	NEW MEXICO	F	NMLC061153	3833	0	0	Y
KOP Leg #1	1980	FSL	10	FEL	18S	32E	5	Tract I	32.7747726	-103.7799685	LEA	NEW MEXICO	NEW MEXICO	F	NMLC061153	-4315	8202	8148	Y
PPP Leg #1-1	1980	FSL	100	FEL	18S	32E	5	Tract I	32.7747733	-103.7802434	LEA	NEW MEXICO	NEW MEXICO	F	NMLC061153	-4586	8490	8419	Y

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP Leg #1-2	1980	FSL	1325	FEL	18S	32E	5	Tract J	32.7747787	-103.784229	LEA	NEW MEXICO	NEW MEXICO	F	NMLC064098	-4800	9784	8633	Y
PPP Leg #1-3	1980	FSL	2650	FEL	18S	32E	5	Tract K	32.7747847	-103.7885398	LEA	NEW MEXICO	NEW MEXICO	F	NMLC029403B	-4812	11109	8645	Y
PPP Leg #1-4	1980	FSL	3976	FEL	18S	32E	5	Tract L	32.7747905	-103.792854	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 40450	-4824	12435	8657	Y
PPP Leg #1-5	1980	FSL	0	FEL	18S	32E	6	Tract I	32.7747962	-103.7971649	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 111242	-4836	13760	8669	Y
EXIT Leg #1	1980	FSL	2540	FEL	18S	32E	6	Tract J	32.7748066	-103.8054252	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 111242	-4859	16299	8692	Y
BHL Leg #1	1980	FSL	2540	FEL	18S	32E	6	Tract J	32.7748066	-103.8054252	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 111242	-4859	16299	8692	Y

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
	65350	YOUNG BONE SPRING NORTH

4 Property Code	5 Property Name	6 Well Number
	WINTERFELL 5/6 B2IJ FED COM	1H

7 OGRID NO.	8 Operator Name	9 Elevation
14744	MEWBOURNE OIL COMPANY	3833'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
P	5	18S	32E		1270	SOUTH	455	EAST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	6	18S	32E		1980	SOUTH	2540	EAST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
240			

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

16

GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION
N: 645326.9 – E: 710977.5

LAT: 32.7728216° N
LONG: 103.7814106° W

BOTTOM HOLE
N: 646011.4 – E: 703592.6

LAT: 32.7748066° N
LONG: 103.8054251° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1913
N: 644024.0 – E: 700832.1

B: FOUND BRASS CAP "1913"
N: 646666.0 – E: 700816.4

C: FOUND BRASS CAP "1913"
N: 649306.3 – E: 700801.5

D: FOUND BRASS CAP "1913"
N: 649315.1 – E: 703470.5

E: FOUND BRASS CAP "1913"
N: 649324.0 – E: 706111.0

F: FOUND BRASS CAP "1913"
N: 649334.9 – E: 708748.0

G: FOUND BRASS CAP "1913"
N: 649342.9 – E: 711390.3

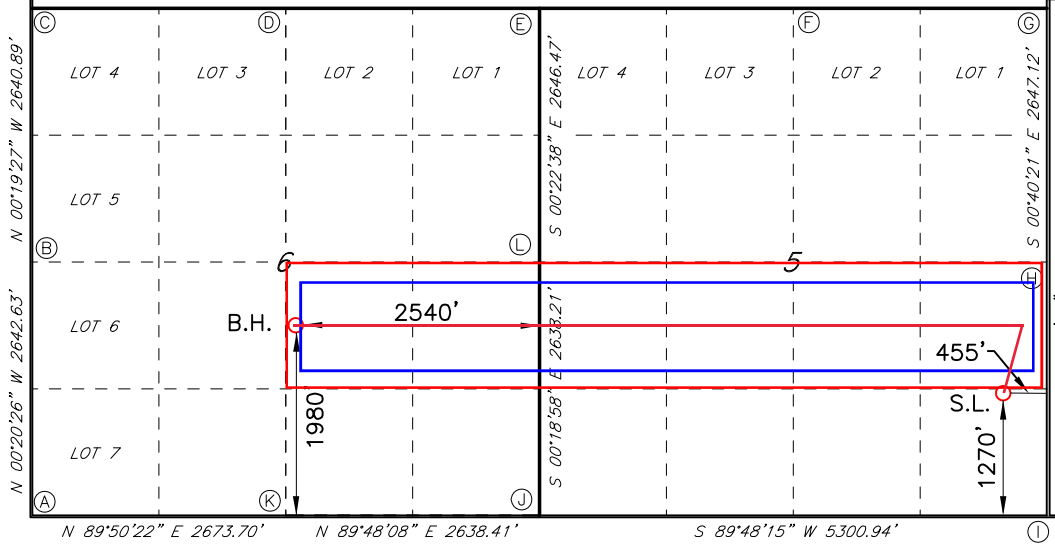
H: FOUND BRASS CAP "1913"
N: 646696.6 – E: 711421.4

I: FOUND BRASS CAP "1913"
N: 644058.8 – E: 711442.6

J: FOUND BRASS CAP "1913"
N: 644040.6 – E: 706142.9

K: FOUND BRASS CAP "1913"
N: 644031.5 – E: 703505.2

L: FOUND 1" IRON PIPE
N: 646678.2 – E: 706128.4



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 8-30-19
Date

BRADLEY BISHOP
Printed Name

BBISHOP@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.

05-29-2019
Date of Survey

Signature and Seal of Professional Surveyor

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

19680
Certificate Number

RRC-Job No: LS19050636

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

08/27/2021

APD ID: 10400046775 **Submission Date:** 08/30/2019

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
526795	UNKNOWN	3833	27	27	OTHER : Top soil	NONE	N
526796	RUSTLER	2738	1095	1095	ANHYDRITE, DOLOMITE	USEABLE WATER	N
526806	TOP SALT	2408	1425	1425	SALT	NONE	N
526807	BASE OF SALT	1443	2390	2390	SALT	NONE	N
526799	YATES	1258	2575	2575	SANDSTONE	NATURAL GAS, OIL	N
526808	SEVEN RIVERS	813	3020	3020	DOLOMITE	NATURAL GAS, OIL	N
526800	QUEEN	113	3720	3720	DOLOMITE	NATURAL GAS, OIL	N
526801	GRAYBURG	-142	3975	3975	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
526809	LAMAR	-1012	4845	4845	LIMESTONE	NATURAL GAS	N
526803	BONE SPRING	-1987	5820	5820	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
526804	BONE SPRING 1ST	-3807	7640	7640	SANDSTONE	NATURAL GAS, OIL	N
526805	BONE SPRING 2ND	-4452	8285	8285	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 16299

Equipment: Annular Pipe Rams Blind Rams 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.
Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. Anchors are not required by manufacturer. A variance is requested to use a multi-bowl wellhead.
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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

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.

Choke Diagram Attachment:

Winterfell_5_6_B2IJ_Fed_Com_1H_BOPE_Choke_Diagram_rev_1_15_19_20190830083427.xlsx

Winterfell_5_6_B2IJ_Fed_Com_1H_Flex_Line_Specs_API_16C_20190830083427.pdf

Winterfell_5_6_B2IJ_Fed_Com_1H_Flex_Line_Specs_20190830083427.pdf

BOP Diagram Attachment:

Winterfell_5_6_B2IJ_Fed_Com_1H_5M_BOPE_Schematic_4_18_17_20190830083434.pdf

Winterfell_5_6_B2IJ_Fed_Com_1H_Multi_Bowl_Surface_Running_Procedure_20190830083434.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1375	0	1375	3833	2458	1375	H-40	48	ST&C	1.22	2.75	DRY	4.88	DRY	8.2
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4770	0	4770		-937	4770	L-80	40	LT&C	1.25	2.32	DRY	3.81	DRY	4.8
3	PRODUCTION	8.75	7.0	NEW	API	N	0	8947	0	8625		-4792	8947	HCP-110	26	LT&C	1.83	2.34	DRY	2.98	DRY	3.57
4	LINER	6.125	4.5	NEW	API	N	8202	16299	8148	8692	-4315	-4859	8097	P-110	13.5	LT&C	1.97	2.29	DRY	3.09	DRY	3.86

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Winterfell_5_6_B2IJ_Fed_Com_1H_CA_20190830083737.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Winterfell_5_6_B2IJ_Fed_Com_1H_CA_20190830083910.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Winterfell_5_6_B2IJ_Fed_Com_1H_CA_20190830083838.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Casing Attachments

Casing ID: 4 **String Type:** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Winterfell_5_6_B2IJ_Fed_Com_1H_CA_20190830083951.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1183	780	2.12	12.5	1654	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		1183	1375	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	4074	740	2.12	12.5	1569	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		4074	4770	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		4570	6549	170	2.12	12.5	360	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		6549	8947	400	1.18	15.6	472	25	Class C	Retarder
LINER	Lead		8202	16299	320	2.97	11.2	950	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Lost circulation material, sweeps, mud scavengers

Describe the mud monitoring system utilized: Pason/PVT/visual monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1375	SPUD MUD	8.6	8.8							
1375	4770	SALT SATURATED	10	10							
4770	8148	WATER-BASED MUD	8.6	9.5							
8148	8202	OIL-BASED MUD	9.5	11							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will run GR/CNL from KOP (8202') to surface (horizontal well vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.

List of open and cased hole logs run in the well:

COMPENSATED NEUTRON LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,MEASUREMENT WHILE DRILLING,MUD LOG/GEOLOGIC LITHOLOGY LOG,

Coring operation description for the well:

None

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5423 **Anticipated Surface Pressure:** 3510

Anticipated Bottom Hole Temperature(F): 150

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Winterfell_5_6_B2IJ_Fed_Com_1H_H2S_Plan_20190830084433.doc

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Winterfell_5_6_B2IJ_Fed_Com_1H_Dir_plan_20190830084452.pdf
Winterfell_5_6_B2IJ_Fed_Com_1H_Dir_plot_20190830084452.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Winterfell_5_6_B2IJ_Fed_Com_1H_Add_info_20190830084510.pdf
Winterfell_5_6_B2IJ_Fed_Com_1H_Drlg_Program_20190830084602.docx

Other Variance attachment:

Mewbourne Oil Company

Lea County, New Mexico NAD 83
Winterfell 5/6 B2IJ Fed Com #1H
Sec 5, T18S, R32E
SHL: 1270' FSL & 455' FEL, Sec 5
BHL: 1980' FSL & 2540' FEL, Sec 6

Plan: Design #1

Standard Planning Report

26 July, 2019

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
Design:	Design #1		

Project	Lea County, New Mexico NAD 83		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Winterfell 5/6 B2IJ Fed Com #1H				
Site Position:		**Northing:**	645,326.90 usft	**Latitude:**	32.7728217
From:	Map	**Easting:**	710,977.50 usft	**Longitude:**	-103.7814105
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.30 °

Well	Sec 5, T18S, R32E					
Well Position	**+N/-S**	0.0 usft	**Northing:**	645,326.90 usft	**Latitude:**	32.7728217
	+E/-W	0.0 usft	**Easting:**	710,977.50 usft	**Longitude:**	-103.7814105
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,860.0 usft	**Ground Level:**	3,833.0 usft

Wellbore	BHL: 1980' FSL & 2540' FEL, Sec 6				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	7/25/2019	6.72	60.45	48,108

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	275.30

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	
1,375.0	0.00	0.00	1,375.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,882.2	7.61	31.68	1,880.7	28.6	17.7	1.50	1.50	0.00	31.68	
7,695.0	7.61	31.68	7,642.3	683.5	421.8	0.00	0.00	0.00	0.00	
8,202.1	0.00	0.00	8,148.0	712.1	439.5	1.50	-1.50	0.00	180.00	KOP: 1980' FSL & 10'
8,947.1	89.48	269.80	8,625.0	710.4	-33.2	12.01	12.01	0.00	-90.20	
16,299.2	89.48	269.80	8,692.0	684.5	-7,384.9	0.00	0.00	0.00	0.00	BHL: 1980' FSL & 25

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
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: 1270' FSL & 1270' FEL (5)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,375.0	0.00	0.00	1,375.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.38	31.68	1,400.0	0.1	0.0	0.0	1.50	1.50	0.00
1,500.0	1.88	31.68	1,500.0	1.7	1.1	-0.9	1.50	1.50	0.00
1,600.0	3.38	31.68	1,599.9	5.6	3.5	-2.9	1.50	1.50	0.00
1,700.0	4.88	31.68	1,699.6	11.8	7.3	-6.1	1.50	1.50	0.00
1,800.0	6.38	31.68	1,799.1	20.1	12.4	-10.5	1.50	1.50	0.00
1,882.2	7.61	31.68	1,880.7	28.6	17.7	-14.9	1.50	1.50	0.00
1,900.0	7.61	31.68	1,898.4	30.6	18.9	-16.0	0.00	0.00	0.00
2,000.0	7.61	31.68	1,997.5	41.9	25.9	-21.9	0.00	0.00	0.00
2,100.0	7.61	31.68	2,096.6	53.2	32.8	-27.8	0.00	0.00	0.00
2,200.0	7.61	31.68	2,195.7	64.4	39.8	-33.6	0.00	0.00	0.00
2,300.0	7.61	31.68	2,294.8	75.7	46.7	-39.5	0.00	0.00	0.00
2,400.0	7.61	31.68	2,394.0	86.9	53.7	-45.4	0.00	0.00	0.00
2,500.0	7.61	31.68	2,493.1	98.2	60.6	-51.3	0.00	0.00	0.00
2,600.0	7.61	31.68	2,592.2	109.5	67.6	-57.2	0.00	0.00	0.00
2,700.0	7.61	31.68	2,691.3	120.7	74.5	-63.1	0.00	0.00	0.00
2,800.0	7.61	31.68	2,790.4	132.0	81.5	-68.9	0.00	0.00	0.00
2,900.0	7.61	31.68	2,889.6	143.3	88.4	-74.8	0.00	0.00	0.00
3,000.0	7.61	31.68	2,988.7	154.5	95.4	-80.7	0.00	0.00	0.00
3,100.0	7.61	31.68	3,087.8	165.8	102.3	-86.6	0.00	0.00	0.00
3,200.0	7.61	31.68	3,186.9	177.1	109.3	-92.5	0.00	0.00	0.00
3,300.0	7.61	31.68	3,286.0	188.3	116.2	-98.4	0.00	0.00	0.00
3,400.0	7.61	31.68	3,385.2	199.6	123.2	-104.2	0.00	0.00	0.00
3,500.0	7.61	31.68	3,484.3	210.9	130.2	-110.1	0.00	0.00	0.00
3,600.0	7.61	31.68	3,583.4	222.1	137.1	-116.0	0.00	0.00	0.00
3,700.0	7.61	31.68	3,682.5	233.4	144.1	-121.9	0.00	0.00	0.00
3,800.0	7.61	31.68	3,781.6	244.7	151.0	-127.8	0.00	0.00	0.00
3,900.0	7.61	31.68	3,880.7	255.9	158.0	-133.7	0.00	0.00	0.00
4,000.0	7.61	31.68	3,979.9	267.2	164.9	-139.6	0.00	0.00	0.00
4,100.0	7.61	31.68	4,079.0	278.5	171.9	-145.4	0.00	0.00	0.00
4,200.0	7.61	31.68	4,178.1	289.7	178.8	-151.3	0.00	0.00	0.00
4,300.0	7.61	31.68	4,277.2	301.0	185.8	-157.2	0.00	0.00	0.00
4,400.0	7.61	31.68	4,376.3	312.3	192.7	-163.1	0.00	0.00	0.00
4,500.0	7.61	31.68	4,475.5	323.5	199.7	-169.0	0.00	0.00	0.00
4,600.0	7.61	31.68	4,574.6	334.8	206.6	-174.9	0.00	0.00	0.00
4,700.0	7.61	31.68	4,673.7	346.1	213.6	-180.7	0.00	0.00	0.00
4,800.0	7.61	31.68	4,772.8	357.3	220.5	-186.6	0.00	0.00	0.00
4,900.0	7.61	31.68	4,871.9	368.6	227.5	-192.5	0.00	0.00	0.00
5,000.0	7.61	31.68	4,971.1	379.9	234.5	-198.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
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	7.61	31.68	5,070.2	391.1	241.4	-204.3	0.00	0.00	0.00
5,200.0	7.61	31.68	5,169.3	402.4	248.4	-210.2	0.00	0.00	0.00
5,300.0	7.61	31.68	5,268.4	413.7	255.3	-216.0	0.00	0.00	0.00
5,400.0	7.61	31.68	5,367.5	424.9	262.3	-221.9	0.00	0.00	0.00
5,500.0	7.61	31.68	5,466.7	436.2	269.2	-227.8	0.00	0.00	0.00
5,600.0	7.61	31.68	5,565.8	447.5	276.2	-233.7	0.00	0.00	0.00
5,700.0	7.61	31.68	5,664.9	458.7	283.1	-239.6	0.00	0.00	0.00
5,800.0	7.61	31.68	5,764.0	470.0	290.1	-245.5	0.00	0.00	0.00
5,900.0	7.61	31.68	5,863.1	481.3	297.0	-251.3	0.00	0.00	0.00
6,000.0	7.61	31.68	5,962.3	492.5	304.0	-257.2	0.00	0.00	0.00
6,100.0	7.61	31.68	6,061.4	503.8	310.9	-263.1	0.00	0.00	0.00
6,200.0	7.61	31.68	6,160.5	515.1	317.9	-269.0	0.00	0.00	0.00
6,300.0	7.61	31.68	6,259.6	526.3	324.8	-274.9	0.00	0.00	0.00
6,400.0	7.61	31.68	6,358.7	537.6	331.8	-280.8	0.00	0.00	0.00
6,500.0	7.61	31.68	6,457.9	548.9	338.8	-286.6	0.00	0.00	0.00
6,600.0	7.61	31.68	6,557.0	560.1	345.7	-292.5	0.00	0.00	0.00
6,700.0	7.61	31.68	6,656.1	571.4	352.7	-298.4	0.00	0.00	0.00
6,800.0	7.61	31.68	6,755.2	582.7	359.6	-304.3	0.00	0.00	0.00
6,900.0	7.61	31.68	6,854.3	593.9	366.6	-310.2	0.00	0.00	0.00
7,000.0	7.61	31.68	6,953.5	605.2	373.5	-316.1	0.00	0.00	0.00
7,100.0	7.61	31.68	7,052.6	616.5	380.5	-322.0	0.00	0.00	0.00
7,200.0	7.61	31.68	7,151.7	627.7	387.4	-327.8	0.00	0.00	0.00
7,300.0	7.61	31.68	7,250.8	639.0	394.4	-333.7	0.00	0.00	0.00
7,400.0	7.61	31.68	7,349.9	650.3	401.3	-339.6	0.00	0.00	0.00
7,500.0	7.61	31.68	7,449.1	661.5	408.3	-345.5	0.00	0.00	0.00
7,600.0	7.61	31.68	7,548.2	672.8	415.2	-351.4	0.00	0.00	0.00
7,695.0	7.61	31.68	7,642.3	683.5	421.8	-357.0	0.00	0.00	0.00
7,700.0	7.53	31.68	7,647.3	684.1	422.2	-357.3	1.50	-1.50	0.00
7,800.0	6.03	31.68	7,746.6	694.1	428.4	-362.5	1.50	-1.50	0.00
7,900.0	4.53	31.68	7,846.2	701.9	433.2	-366.6	1.50	-1.50	0.00
8,000.0	3.03	31.68	7,945.9	707.5	436.7	-369.5	1.50	-1.50	0.00
8,100.0	1.53	31.68	8,045.9	710.9	438.8	-371.3	1.50	-1.50	0.00
8,202.1	0.00	0.00	8,148.0	712.1	439.5	-371.9	1.50	-1.50	0.00
KOP: 1980' FSL & 10' FEL (5)									
8,225.0	2.75	269.80	8,170.8	712.1	439.0	-371.4	12.01	12.01	0.00
8,250.0	5.75	269.80	8,195.8	712.1	437.1	-369.5	12.01	12.01	0.00
8,275.0	8.75	269.80	8,220.6	712.1	433.9	-366.4	12.01	12.01	0.00
8,300.0	11.75	269.80	8,245.2	712.1	429.5	-361.9	12.01	12.01	0.00
8,325.0	14.76	269.80	8,269.5	712.0	423.8	-356.2	12.01	12.01	0.00
8,350.0	17.76	269.80	8,293.5	712.0	416.8	-349.3	12.01	12.01	0.00
8,375.0	20.76	269.80	8,317.1	712.0	408.5	-341.1	12.01	12.01	0.00
8,400.0	23.76	269.80	8,340.2	712.0	399.1	-331.6	12.01	12.01	0.00
8,425.0	26.77	269.80	8,362.8	711.9	388.4	-321.0	12.01	12.01	0.00
8,450.0	29.77	269.80	8,384.9	711.9	376.5	-309.2	12.01	12.01	0.00
8,475.0	32.77	269.80	8,406.2	711.8	363.6	-296.3	12.01	12.01	0.00
8,490.4	34.63	269.80	8,419.1	711.8	355.0	-287.8	12.01	12.01	0.00
FTP: 1980' FSL & 100' FEL (5)									
8,500.0	35.78	269.80	8,426.9	711.8	349.5	-282.3	12.01	12.01	0.00
8,525.0	38.78	269.80	8,446.8	711.7	334.4	-267.2	12.01	12.01	0.00
8,550.0	41.78	269.80	8,465.8	711.7	318.2	-251.1	12.01	12.01	0.00
8,575.0	44.78	269.80	8,484.0	711.6	301.1	-234.1	12.01	12.01	0.00
8,600.0	47.79	269.80	8,501.3	711.5	283.0	-216.1	12.01	12.01	0.00
8,625.0	50.79	269.80	8,517.6	711.5	264.0	-197.2	12.01	12.01	0.00
8,650.0	53.79	269.80	8,532.9	711.4	244.3	-177.6	12.01	12.01	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
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)
8,675.0	56.80	269.80	8,547.1	711.3	223.7	-157.1	12.01	12.01	0.00
8,700.0	59.80	269.80	8,560.3	711.3	202.4	-135.9	12.01	12.01	0.00
8,725.0	62.80	269.80	8,572.3	711.2	180.5	-114.1	12.01	12.01	0.00
8,750.0	65.80	269.80	8,583.1	711.1	158.0	-91.7	12.01	12.01	0.00
8,775.0	68.81	269.80	8,592.8	711.0	134.9	-68.7	12.01	12.01	0.00
8,800.0	71.81	269.80	8,601.2	710.9	111.4	-45.3	12.01	12.01	0.00
8,825.0	74.81	269.80	8,608.4	710.9	87.5	-21.5	12.01	12.01	0.00
8,850.0	77.82	269.80	8,614.3	710.8	63.2	2.7	12.01	12.01	0.00
8,875.0	80.82	269.80	8,618.9	710.7	38.6	27.2	12.01	12.01	0.00
8,900.0	83.82	269.80	8,622.2	710.6	13.8	51.8	12.01	12.01	0.00
8,925.0	86.82	269.80	8,624.3	710.5	-11.1	76.6	12.01	12.01	0.00
8,946.9	89.46	269.80	8,625.0	710.4	-33.0	98.4	12.01	12.01	0.00
LP: 1980' FSL & 488' FEL (5)									
8,947.1	89.48	269.80	8,625.0	710.4	-33.2	98.6	12.01	12.01	0.00
9,000.0	89.48	269.80	8,625.5	710.2	-86.1	151.3	0.00	0.00	0.00
9,100.0	89.48	269.80	8,626.4	709.9	-186.1	250.8	0.00	0.00	0.00
9,200.0	89.48	269.80	8,627.3	709.5	-286.1	350.3	0.00	0.00	0.00
9,300.0	89.48	269.80	8,628.2	709.2	-386.1	449.9	0.00	0.00	0.00
9,400.0	89.48	269.80	8,629.1	708.8	-486.0	549.4	0.00	0.00	0.00
9,500.0	89.48	269.80	8,630.0	708.5	-586.0	648.9	0.00	0.00	0.00
9,600.0	89.48	269.80	8,630.9	708.1	-686.0	748.5	0.00	0.00	0.00
9,700.0	89.48	269.80	8,631.9	707.8	-786.0	848.0	0.00	0.00	0.00
9,784.0	89.48	269.80	8,632.6	707.5	-870.0	931.6	0.00	0.00	0.00
PPP2: 1980' FSL & 1325' FEL (5)									
9,800.0	89.48	269.80	8,632.8	707.4	-886.0	947.5	0.00	0.00	0.00
9,900.0	89.48	269.80	8,633.7	707.1	-986.0	1,047.1	0.00	0.00	0.00
10,000.0	89.48	269.80	8,634.6	706.7	-1,086.0	1,146.6	0.00	0.00	0.00
10,100.0	89.48	269.80	8,635.5	706.4	-1,186.0	1,246.1	0.00	0.00	0.00
10,200.0	89.48	269.80	8,636.4	706.0	-1,286.0	1,345.7	0.00	0.00	0.00
10,300.0	89.48	269.80	8,637.3	705.7	-1,386.0	1,445.2	0.00	0.00	0.00
10,400.0	89.48	269.80	8,638.2	705.3	-1,486.0	1,544.8	0.00	0.00	0.00
10,500.0	89.48	269.80	8,639.2	705.0	-1,586.0	1,644.3	0.00	0.00	0.00
10,600.0	89.48	269.80	8,640.1	704.6	-1,686.0	1,743.8	0.00	0.00	0.00
10,700.0	89.48	269.80	8,641.0	704.2	-1,786.0	1,843.4	0.00	0.00	0.00
10,800.0	89.48	269.80	8,641.9	703.9	-1,886.0	1,942.9	0.00	0.00	0.00
10,900.0	89.48	269.80	8,642.8	703.5	-1,986.0	2,042.4	0.00	0.00	0.00
11,000.0	89.48	269.80	8,643.7	703.2	-2,086.0	2,142.0	0.00	0.00	0.00
11,100.0	89.48	269.80	8,644.6	702.8	-2,186.0	2,241.5	0.00	0.00	0.00
11,109.0	89.48	269.80	8,644.7	702.8	-2,195.0	2,250.5	0.00	0.00	0.00
PPP3: 1980' FSL & 2650' FEL (5)									
11,200.0	89.48	269.80	8,645.5	702.5	-2,286.0	2,341.0	0.00	0.00	0.00
11,300.0	89.48	269.80	8,646.4	702.1	-2,386.0	2,440.6	0.00	0.00	0.00
11,400.0	89.48	269.80	8,647.4	701.8	-2,486.0	2,540.1	0.00	0.00	0.00
11,500.0	89.48	269.80	8,648.3	701.4	-2,585.9	2,639.6	0.00	0.00	0.00
11,600.0	89.48	269.80	8,649.2	701.1	-2,685.9	2,739.2	0.00	0.00	0.00
11,700.0	89.48	269.80	8,650.1	700.7	-2,785.9	2,838.7	0.00	0.00	0.00
11,800.0	89.48	269.80	8,651.0	700.4	-2,885.9	2,938.3	0.00	0.00	0.00
11,900.0	89.48	269.80	8,651.9	700.0	-2,985.9	3,037.8	0.00	0.00	0.00
12,000.0	89.48	269.80	8,652.8	699.7	-3,085.9	3,137.3	0.00	0.00	0.00
12,100.0	89.48	269.80	8,653.7	699.3	-3,185.9	3,236.9	0.00	0.00	0.00
12,200.0	89.48	269.80	8,654.6	699.0	-3,285.9	3,336.4	0.00	0.00	0.00
12,300.0	89.48	269.80	8,655.6	698.6	-3,385.9	3,435.9	0.00	0.00	0.00
12,400.0	89.48	269.80	8,656.5	698.3	-3,485.9	3,535.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
Design:	Design #1		

Planned Survey

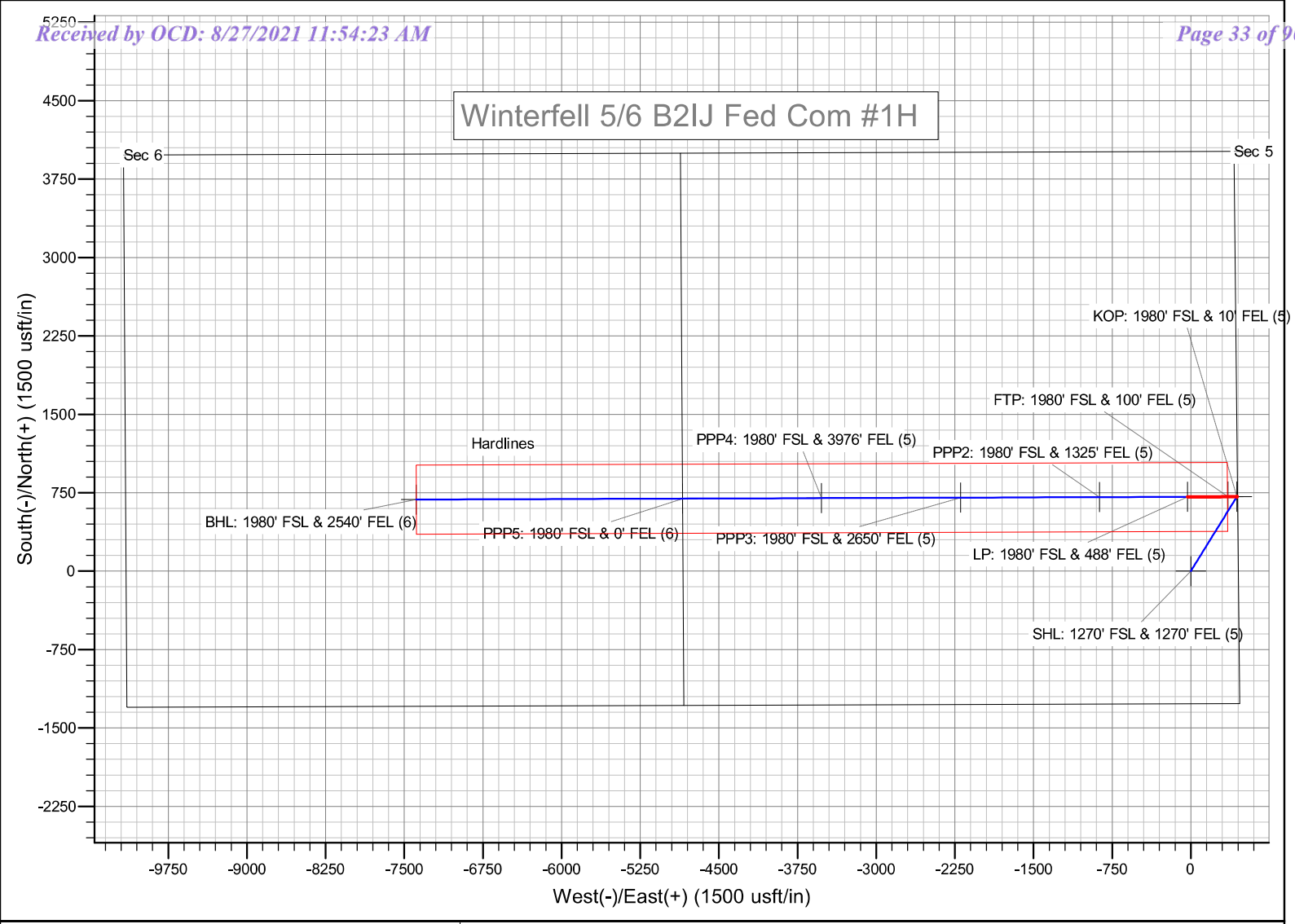
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,435.1	89.48	269.80	8,656.8	698.1	-3,521.0	3,570.4	0.00	0.00	0.00
PPP4: 1980' FSL & 3976' FEL (5)									
12,500.0	89.48	269.80	8,657.4	697.9	-3,585.9	3,635.0	0.00	0.00	0.00
12,600.0	89.48	269.80	8,658.3	697.5	-3,685.9	3,734.5	0.00	0.00	0.00
12,700.0	89.48	269.80	8,659.2	697.2	-3,785.9	3,834.1	0.00	0.00	0.00
12,800.0	89.48	269.80	8,660.1	696.8	-3,885.9	3,933.6	0.00	0.00	0.00
12,900.0	89.48	269.80	8,661.0	696.5	-3,985.9	4,033.2	0.00	0.00	0.00
13,000.0	89.48	269.80	8,661.9	696.1	-4,085.9	4,132.7	0.00	0.00	0.00
13,100.0	89.48	269.80	8,662.8	695.8	-4,185.9	4,232.2	0.00	0.00	0.00
13,200.0	89.48	269.80	8,663.8	695.4	-4,285.9	4,331.8	0.00	0.00	0.00
13,300.0	89.48	269.80	8,664.7	695.1	-4,385.9	4,431.3	0.00	0.00	0.00
13,400.0	89.48	269.80	8,665.6	694.7	-4,485.9	4,530.8	0.00	0.00	0.00
13,500.0	89.48	269.80	8,666.5	694.4	-4,585.9	4,630.4	0.00	0.00	0.00
13,600.0	89.48	269.80	8,667.4	694.0	-4,685.8	4,729.9	0.00	0.00	0.00
13,700.0	89.48	269.80	8,668.3	693.7	-4,785.8	4,829.4	0.00	0.00	0.00
13,760.2	89.48	269.80	8,668.9	693.5	-4,846.0	4,889.3	0.00	0.00	0.00
PPP5: 1980' FSL & 0' FEL (6)									
13,800.0	89.48	269.80	8,669.2	693.3	-4,885.8	4,929.0	0.00	0.00	0.00
13,900.0	89.48	269.80	8,670.1	693.0	-4,985.8	5,028.5	0.00	0.00	0.00
14,000.0	89.48	269.80	8,671.0	692.6	-5,085.8	5,128.0	0.00	0.00	0.00
14,100.0	89.48	269.80	8,672.0	692.3	-5,185.8	5,227.6	0.00	0.00	0.00
14,200.0	89.48	269.80	8,672.9	691.9	-5,285.8	5,327.1	0.00	0.00	0.00
14,300.0	89.48	269.80	8,673.8	691.6	-5,385.8	5,426.7	0.00	0.00	0.00
14,400.0	89.48	269.80	8,674.7	691.2	-5,485.8	5,526.2	0.00	0.00	0.00
14,500.0	89.48	269.80	8,675.6	690.8	-5,585.8	5,625.7	0.00	0.00	0.00
14,600.0	89.48	269.80	8,676.5	690.5	-5,685.8	5,725.3	0.00	0.00	0.00
14,700.0	89.48	269.80	8,677.4	690.1	-5,785.8	5,824.8	0.00	0.00	0.00
14,800.0	89.48	269.80	8,678.3	689.8	-5,885.8	5,924.3	0.00	0.00	0.00
14,900.0	89.48	269.80	8,679.2	689.4	-5,985.8	6,023.9	0.00	0.00	0.00
15,000.0	89.48	269.80	8,680.2	689.1	-6,085.8	6,123.4	0.00	0.00	0.00
15,100.0	89.48	269.80	8,681.1	688.7	-6,185.8	6,222.9	0.00	0.00	0.00
15,200.0	89.48	269.80	8,682.0	688.4	-6,285.8	6,322.5	0.00	0.00	0.00
15,300.0	89.48	269.80	8,682.9	688.0	-6,385.8	6,422.0	0.00	0.00	0.00
15,400.0	89.48	269.80	8,683.8	687.7	-6,485.8	6,521.5	0.00	0.00	0.00
15,500.0	89.48	269.80	8,684.7	687.3	-6,585.8	6,621.1	0.00	0.00	0.00
15,600.0	89.48	269.80	8,685.6	687.0	-6,685.8	6,720.6	0.00	0.00	0.00
15,700.0	89.48	269.80	8,686.5	686.6	-6,785.7	6,820.2	0.00	0.00	0.00
15,800.0	89.48	269.80	8,687.5	686.3	-6,885.7	6,919.7	0.00	0.00	0.00
15,900.0	89.48	269.80	8,688.4	685.9	-6,985.7	7,019.2	0.00	0.00	0.00
16,000.0	89.48	269.80	8,689.3	685.6	-7,085.7	7,118.8	0.00	0.00	0.00
16,100.0	89.48	269.80	8,690.2	685.2	-7,185.7	7,218.3	0.00	0.00	0.00
16,200.0	89.48	269.80	8,691.1	684.8	-7,285.7	7,317.8	0.00	0.00	0.00
16,299.2	89.48	269.80	8,692.0	684.5	-7,384.9	7,416.6	0.00	0.00	0.00
BHL: 1980' FSL & 2540' FEL (6)									

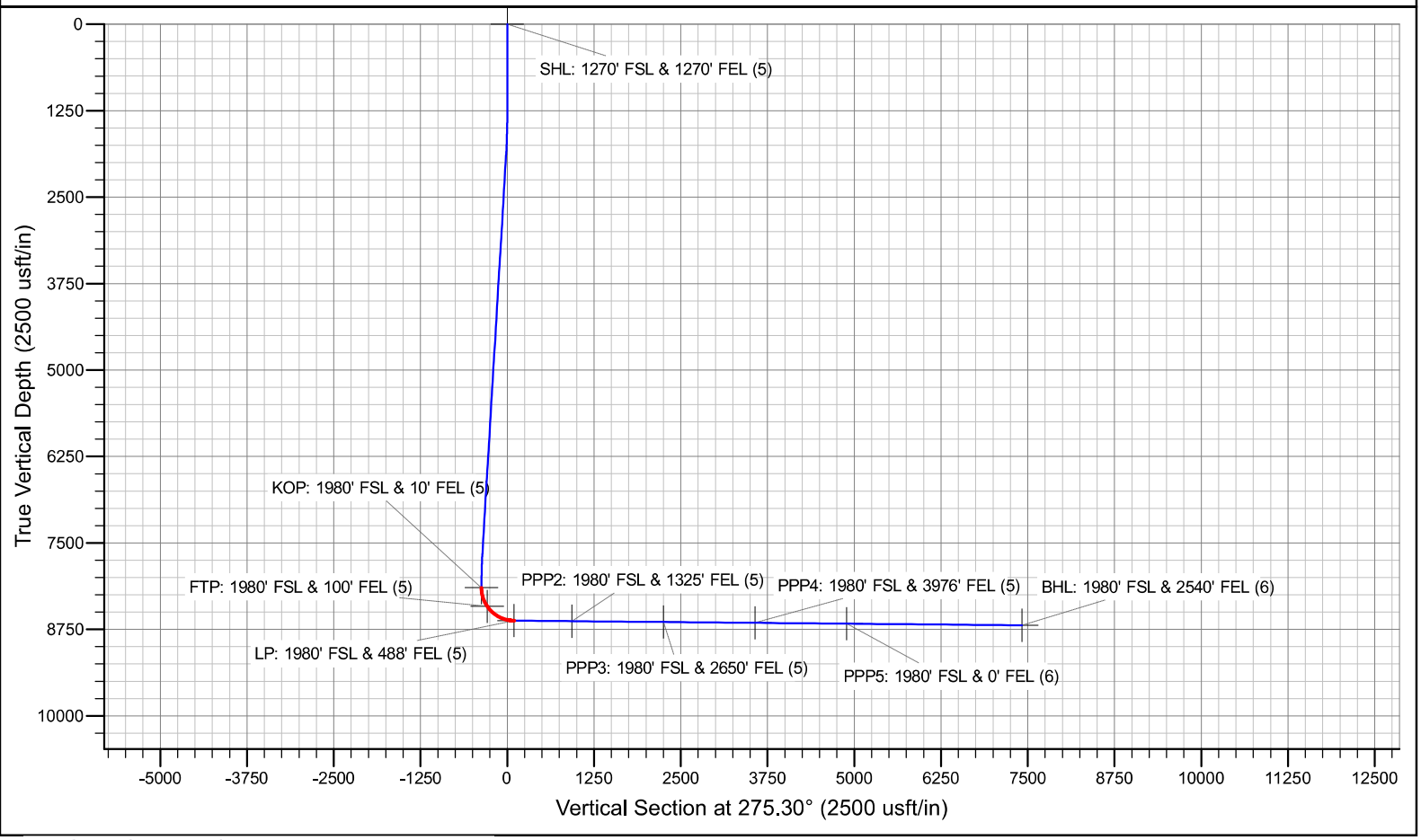
Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
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: 1270' FSL & 1270' - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	645,326.90	710,977.50	32.7728217	-103.7814105
KOP: 1980' FSL & 10' FI - plan hits target center - Point	0.00	0.00	8,148.0	712.1	439.5	646,039.00	711,417.00	32.7747726	-103.7799685
FTP: 1980' FSL & 100' F - plan hits target center - Point	0.00	0.00	8,419.1	711.8	355.0	646,038.71	711,332.50	32.7747730	-103.7802434
LP: 1980' FSL & 488' FE - plan hits target center - Point	0.00	0.00	8,625.0	710.4	-33.0	646,037.34	710,944.50	32.7747748	-103.7815058
PPP2: 1980' FSL & 132 - plan hits target center - Point	0.00	0.00	8,632.6	707.5	-870.0	646,034.39	710,107.50	32.7747787	-103.7842290
PPP3: 1980' FSL & 265 - plan hits target center - Point	0.00	0.00	8,644.7	702.8	-2,195.0	646,029.71	708,782.50	32.7747847	-103.7885398
PPP4: 1980' FSL & 397 - plan hits target center - Point	0.00	0.00	8,656.8	698.1	-3,521.0	646,025.03	707,456.50	32.7747905	-103.7928540
PPP5: 1980' FSL & 0' FE - plan hits target center - Point	0.00	0.00	8,668.9	693.5	-4,846.0	646,020.36	706,131.50	32.7747962	-103.7971649
BHL: 1980' FSL & 2540' - plan hits target center - Point	0.00	0.00	8,692.0	684.5	-7,384.9	646,011.40	703,592.60	32.7748066	-103.8054252


Winterfell 5/6 B2IJ Fed Com #1H
Sec 6
Sec 5
Hardlines
KOP: 1980' FSL & 10' FEL (5)
FTP: 1980' FSL & 100' FEL (5)
PPP4: 1980' FSL & 3976' FEL (5)
PPP2: 1980' FSL & 1325' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)
PPP5: 1980' FSL & 0' FEL (6)
PPP3: 1980' FSL & 2650' FEL (5)
LP: 1980' FSL & 488' FEL (5)
SHL: 1270' FSL & 1270' FEL (5)
South(-)/North(+) (1500 usft/in)
West(-)/East(+) (1500 usft/in)


SHL: 1270' FSL & 1270' FEL (5)
KOP: 1980' FSL & 10' FEL (5)
FTP: 1980' FSL & 100' FEL (5)
PPP2: 1980' FSL & 1325' FEL (5)
PPP4: 1980' FSL & 3976' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)
LP: 1980' FSL & 488' FEL (5)
PPP3: 1980' FSL & 2650' FEL (5)
PPP5: 1980' FSL & 0' FEL (6)
True Vertical Depth (2500 usft/in)
Vertical Section at 275.30° (2500 usft/in)

Intent [X] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
Mewbourne Oil Co.	Winterfell 5/6 B2IJ Fed Com	1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	5	18S	32E		1980	S	10	E	Lea

Latitude	Longitude	NAD
32.7747726	-103.7799685	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	5	18S	32E		1980	S	100	E	Lea

Latitude	Longitude	NAD
32.7747730	-103.7802434	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	6	18S	32E		1980	S	2540	E	Lea

Latitude	Longitude	NAD
32.7748066	-103.8054252	83

Is this well the defining well for the Horizontal Spacing Unit? [Y]

Is this well an infill well? [N]

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

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Mewbourne Oil Company, Winterfell 5/6 B2IJ Fed Com #1H
Sec 5, T18S, R32E
SL: 1270' FSL & 455' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)

1. Geologic Formations

TVD of target	8692'	Pilot hole depth	NA
MD at TD:	16299'	Deepest expected fresh water:	150'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	1095		
Top of Salt	1425		
Base of Salt	2390		
Yates	2575	Oil/Gas	
Seven Rivers	3020	Oil/Gas	
Queen	3720	Oil/Gas	
Grayburg	3975	Oil/Gas	
San Andres	4625	Oil/Gas	
Lamar	4845	Oil/Gas	
Bone Spring	5820	Oil/Gas	
1st Bone Spring Sand	7640	Oil/Gas	
2nd Bone Spring Sand	8285	Target Zone	
3rd Bone Spring Sand			
Abo			
Wolfcamp			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Company, Winterfell 5/6 B2IJ Fed Com #1H
Sec 5, T18S, R32E
SL: 1270' FSL & 455' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)

2. Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	1385'	13.375"	48	H40	STC	1.21	2.73	4.84	8.14
12.25"	0'	4760'	9.625"	40	L80	LTC	1.25	2.32	3.81	4.8
8.75"	0'	9078'	7"	26	HCP110	LTC	1.83	2.34	2.98	3.57
6.125"	8330'	16429'	4.5"	13.5	P110	LTC	1.97	2.29	3.09	3.86
BLM Minimum Safety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet						

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
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?	

Mewbourne Oil Company, Winterfell 5/6 B2IJ Fed Com #1H
Sec 5, T18S, R32E
SL: 1270' FSL & 455' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)

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?	

3. **Cementing Program**

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	790	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	740	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod.	150	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	320	11.2	2.97	18	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

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

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4770'	25%
Liner	8202'	25%

Mewbourne Oil Company, Winterfell 5/6 B2IJ Fed Com #1H
Sec 5, T18S, R32E
SL: 1270' FSL & 455' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)

4. **Pressure Control Equipment**

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type		Tested to:
12-1/4"	13-5/8"	5M	Annular	X	2500#
			Blind Ram	X	5000#
			Pipe Ram	X	
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

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.

X	Formation integrity test will be performed per Onshore Order #2. On exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

Mewbourne Oil Company, Winterfell 5/6 B2IJ Fed Com #1H
Sec 5, T18S, R32E
SL: 1270' FSL & 455' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)

Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. • Provide description here: See attached schematic.	

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	1385'	FW Gel	8.6-8.8	28-34	N/C
1385'	4770'	Saturated Brine	10.0	28-34	N/C
4770'	8625'	Cut Brine	8.6-9.5	28-34	N/C
8625'	8692'	OBM	10.0-12.0	30-40	<10cc

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

What will be used to monitor the loss or gain of fluid?	Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (8202') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
X	Gamma Ray	8202' (KOP) to TD

Mewbourne Oil Company, Winterfell 5/6 B2IJ Fed Com #1H
Sec 5, T18S, R32E
SL: 1270' FSL & 455' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)

	Density	
	CBL	
	Mud log	
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5423 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
	H2S is present
X	H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe.
Will be pre-setting casing? If yes, describe.

Attachments

Mewbourne Oil Company, Winterfell 5/6 B2IJ Fed Com #1H
Sec 5, T18S, R32E
SL: 1270' FSL & 455' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)

___ Directional Plan
___ Other, describe

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

SUPO Data Report
08/27/2021

APD ID: 10400046775
Submission Date: 08/30/2019
Operator Name: MEWBOURNE OIL COMPANY
Well Name: WINTERFELL 5_6 B2IJ FED COM
Well Number: 1H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Winterfell5_6B2IJFedCom1H_existingroadmap_20190830073023.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Winterfell5_6B2IJFedCom1H_existingwellmap_20190830073037.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: BATTERY WILL BE TO THE WEST OF THE WELL PAD. Production facility will be 100' x 400'.

Production Facilities map:

Winterfell5_6B2IJFedCom1H_productionfacility_20190830073051.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: IRRIGATION

Water source use type: SURFACE CASING
STIMULATION
DUST CONTROL
CAMP USE
INTERMEDIATE/PRODUCTION CASING

Source latitude: 32.44582 **Source longitude:** -103.45101

Source datum: NAD83

Water source permit type: WATER WELL

Water source transport method: TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: STATE

Water source volume (barrels): 1940 **Source volume (acre-feet):** 0.2500526

Source volume (gal): 81480

Water source and transportation map:

Winterfell5_6B2IJFedCom1H_watersource_20190830073106.pdf

Water source comments: BOTH SOURCES SHOWN ON ONE MAP

New water well? N

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche

Construction Materials source location attachment:

Winterfell5_6B2IJFedCom1H_calichesource_20190830073118.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: DRILL CUTTINGS

Amount of waste: 940 barrels

Waste disposal frequency : One Time Only

Safe containment description: DRILL CUTTINGS WILL BE PROPERLY CONTAINED IN STEEL TANKS (20 YARD ROLL OFF BINS.)

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

Disposal type description:

Disposal location description: NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec 27, T20S, R32E

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & Trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailer

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Winterfell5_6B2IJFedCom1H_wellsitelayout_20190830073135.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:**

Multiple Well Pad Number:

Recontouring attachment:

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance (acres): 3.67
Road proposed disturbance (acres): 0.22
Powerline proposed disturbance (acres): 0
Pipeline proposed disturbance (acres): 0
Other proposed disturbance (acres): 0

Total proposed disturbance: 3.89

Well pad interim reclamation (acres): 1.02
Road interim reclamation (acres): 0
Powerline interim reclamation (acres): 0
Pipeline interim reclamation (acres): 0
Other interim reclamation (acres): 0

Total interim reclamation: 1.02

Well pad long term disturbance (acres): 2.65
Road long term disturbance (acres): 0
Powerline long term disturbance (acres): 0
Pipeline long term disturbance (acres): 0
Other long term disturbance (acres): 0

Total long term disturbance: 2.65

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Disturbance Comments: In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.
Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ration, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.
Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To see the area, the proper BLM seed mixture, free of noxious weeks, will be used.
Soil treatment: N/A

Existing Vegetation at the well pad: VARIOUS BRUSH & GRASSES

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: VARIOUS BRUSH & GRASSES

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: VARIOUS BRUSH & GRASSES

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: VARIOUS BRUSH & GRASSES

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: **Last Name:**

Phone: **Email:**

Seedbed prep: Final seedbed preparation will consist of contour cultivating to the depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
Seed BMP: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Seed method: Drilling or broadcasting seed over entire reclaimed area.

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: N/A

Weed treatment plan attachment:

Monitoring plan description: vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeks are controlled.
Monitoring plan attachment:

Success standards: regrowth within 1 full growing season of reclamation.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Section 12 - Other Information

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW Applications

SUPO Additional Information: Met w/RRC Surveying & staked location @ 1250' FSL & 400' FEL, Sec 5, T18S, R32E, Lea Co., NM. This location was unacceptable due to electric line to E & buried gas line to the N & E. Moved location @ 1270' FSL & 455' FEL, Sec 5, T18S, R32E, Lea Co., NM. (Elevation @ 3832'). Pad is 430 x 500. Top soil S. Battery to the W. Existing lease road enters NE corner. Reclaim 60' S. Location is in MOA. Will require BLM on-site. Lat: 32.77282158 N, Long: -103.78141058 W NAD 83. (BPS) JUN 10 2019 Met w/Paul Murphy (BLM). Location approved @ 1270' FSL & 455' FEL, Sec 5, T18S, R32E, Lea Co., NM. (BPS)
Use a previously conducted onsite? N

Previous Onsite information:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Other SUPO Attachment

Winterfell5_6B2IJFedCom1H_gascaptureplan_20190830073244.pdf

Winterfell5_6B2IJFedCom1H_interimreclamation_20190830073244.pdf

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report
08/27/2021

APD ID: 10400046775 **Submission Date:** 08/30/2019

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD discharge volume (bbl/day):

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data Report
08/27/2021

APD ID: 10400046775

Submission Date: 08/30/2019

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM

Well Number: 1H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond Information

Federal/Indian APD: FED

BLM Bond number:

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Mewbourne Oil Company

Lea County, New Mexico NAD 83
Winterfell 5/6 B2IJ Fed Com #1H
Sec 5, T18S, R32E
SHL: 1270' FSL & 455' FEL, Sec 5
BHL: 1980' FSL & 2540' FEL, Sec 6

Plan: Design #1

Standard Planning Report

26 July, 2019

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
Design:	Design #1		

Project Lea County, New Mexico NAD 83

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

Site Winterfell 5/6 B2IJ Fed Com #1H

Site Position:		**Northing:**	645,326.90 usft	**Latitude:**	32.7728217
From:	Map	**Easting:**	710,977.50 usft	**Longitude:**	-103.7814105
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.30 °

Well Sec 5, T18S, R32E

Well Position	**+N/-S**	0.0 usft	**Northing:**	645,326.90 usft	**Latitude:**	32.7728217
	+E/-W	0.0 usft	**Easting:**	710,977.50 usft	**Longitude:**	-103.7814105
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,860.0 usft	**Ground Level:**	3,833.0 usft

Wellbore BHL: 1980' FSL & 2540' FEL, Sec 6

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/25/2019	6.72	60.45	48,108

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	275.30

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	
1,375.0	0.00	0.00	1,375.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,882.2	7.61	31.68	1,880.7	28.6	17.7	1.50	1.50	0.00	31.68	
7,695.0	7.61	31.68	7,642.3	683.5	421.8	0.00	0.00	0.00	0.00	
8,202.1	0.00	0.00	8,148.0	712.1	439.5	1.50	-1.50	0.00	180.00	KOP: 1980' FSL & 10'
8,947.1	89.48	269.80	8,625.0	710.4	-33.2	12.01	12.01	0.00	-90.20	
16,299.2	89.48	269.80	8,692.0	684.5	-7,384.9	0.00	0.00	0.00	0.00	BHL: 1980' FSL & 25

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
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: 1270' FSL & 1270' FEL (5)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,375.0	0.00	0.00	1,375.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.38	31.68	1,400.0	0.1	0.0	0.0	1.50	1.50	0.00
1,500.0	1.88	31.68	1,500.0	1.7	1.1	-0.9	1.50	1.50	0.00
1,600.0	3.38	31.68	1,599.9	5.6	3.5	-2.9	1.50	1.50	0.00
1,700.0	4.88	31.68	1,699.6	11.8	7.3	-6.1	1.50	1.50	0.00
1,800.0	6.38	31.68	1,799.1	20.1	12.4	-10.5	1.50	1.50	0.00
1,882.2	7.61	31.68	1,880.7	28.6	17.7	-14.9	1.50	1.50	0.00
1,900.0	7.61	31.68	1,898.4	30.6	18.9	-16.0	0.00	0.00	0.00
2,000.0	7.61	31.68	1,997.5	41.9	25.9	-21.9	0.00	0.00	0.00
2,100.0	7.61	31.68	2,096.6	53.2	32.8	-27.8	0.00	0.00	0.00
2,200.0	7.61	31.68	2,195.7	64.4	39.8	-33.6	0.00	0.00	0.00
2,300.0	7.61	31.68	2,294.8	75.7	46.7	-39.5	0.00	0.00	0.00
2,400.0	7.61	31.68	2,394.0	86.9	53.7	-45.4	0.00	0.00	0.00
2,500.0	7.61	31.68	2,493.1	98.2	60.6	-51.3	0.00	0.00	0.00
2,600.0	7.61	31.68	2,592.2	109.5	67.6	-57.2	0.00	0.00	0.00
2,700.0	7.61	31.68	2,691.3	120.7	74.5	-63.1	0.00	0.00	0.00
2,800.0	7.61	31.68	2,790.4	132.0	81.5	-68.9	0.00	0.00	0.00
2,900.0	7.61	31.68	2,889.6	143.3	88.4	-74.8	0.00	0.00	0.00
3,000.0	7.61	31.68	2,988.7	154.5	95.4	-80.7	0.00	0.00	0.00
3,100.0	7.61	31.68	3,087.8	165.8	102.3	-86.6	0.00	0.00	0.00
3,200.0	7.61	31.68	3,186.9	177.1	109.3	-92.5	0.00	0.00	0.00
3,300.0	7.61	31.68	3,286.0	188.3	116.2	-98.4	0.00	0.00	0.00
3,400.0	7.61	31.68	3,385.2	199.6	123.2	-104.2	0.00	0.00	0.00
3,500.0	7.61	31.68	3,484.3	210.9	130.2	-110.1	0.00	0.00	0.00
3,600.0	7.61	31.68	3,583.4	222.1	137.1	-116.0	0.00	0.00	0.00
3,700.0	7.61	31.68	3,682.5	233.4	144.1	-121.9	0.00	0.00	0.00
3,800.0	7.61	31.68	3,781.6	244.7	151.0	-127.8	0.00	0.00	0.00
3,900.0	7.61	31.68	3,880.7	255.9	158.0	-133.7	0.00	0.00	0.00
4,000.0	7.61	31.68	3,979.9	267.2	164.9	-139.6	0.00	0.00	0.00
4,100.0	7.61	31.68	4,079.0	278.5	171.9	-145.4	0.00	0.00	0.00
4,200.0	7.61	31.68	4,178.1	289.7	178.8	-151.3	0.00	0.00	0.00
4,300.0	7.61	31.68	4,277.2	301.0	185.8	-157.2	0.00	0.00	0.00
4,400.0	7.61	31.68	4,376.3	312.3	192.7	-163.1	0.00	0.00	0.00
4,500.0	7.61	31.68	4,475.5	323.5	199.7	-169.0	0.00	0.00	0.00
4,600.0	7.61	31.68	4,574.6	334.8	206.6	-174.9	0.00	0.00	0.00
4,700.0	7.61	31.68	4,673.7	346.1	213.6	-180.7	0.00	0.00	0.00
4,800.0	7.61	31.68	4,772.8	357.3	220.5	-186.6	0.00	0.00	0.00
4,900.0	7.61	31.68	4,871.9	368.6	227.5	-192.5	0.00	0.00	0.00
5,000.0	7.61	31.68	4,971.1	379.9	234.5	-198.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
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	7.61	31.68	5,070.2	391.1	241.4	-204.3	0.00	0.00	0.00
5,200.0	7.61	31.68	5,169.3	402.4	248.4	-210.2	0.00	0.00	0.00
5,300.0	7.61	31.68	5,268.4	413.7	255.3	-216.0	0.00	0.00	0.00
5,400.0	7.61	31.68	5,367.5	424.9	262.3	-221.9	0.00	0.00	0.00
5,500.0	7.61	31.68	5,466.7	436.2	269.2	-227.8	0.00	0.00	0.00
5,600.0	7.61	31.68	5,565.8	447.5	276.2	-233.7	0.00	0.00	0.00
5,700.0	7.61	31.68	5,664.9	458.7	283.1	-239.6	0.00	0.00	0.00
5,800.0	7.61	31.68	5,764.0	470.0	290.1	-245.5	0.00	0.00	0.00
5,900.0	7.61	31.68	5,863.1	481.3	297.0	-251.3	0.00	0.00	0.00
6,000.0	7.61	31.68	5,962.3	492.5	304.0	-257.2	0.00	0.00	0.00
6,100.0	7.61	31.68	6,061.4	503.8	310.9	-263.1	0.00	0.00	0.00
6,200.0	7.61	31.68	6,160.5	515.1	317.9	-269.0	0.00	0.00	0.00
6,300.0	7.61	31.68	6,259.6	526.3	324.8	-274.9	0.00	0.00	0.00
6,400.0	7.61	31.68	6,358.7	537.6	331.8	-280.8	0.00	0.00	0.00
6,500.0	7.61	31.68	6,457.9	548.9	338.8	-286.6	0.00	0.00	0.00
6,600.0	7.61	31.68	6,557.0	560.1	345.7	-292.5	0.00	0.00	0.00
6,700.0	7.61	31.68	6,656.1	571.4	352.7	-298.4	0.00	0.00	0.00
6,800.0	7.61	31.68	6,755.2	582.7	359.6	-304.3	0.00	0.00	0.00
6,900.0	7.61	31.68	6,854.3	593.9	366.6	-310.2	0.00	0.00	0.00
7,000.0	7.61	31.68	6,953.5	605.2	373.5	-316.1	0.00	0.00	0.00
7,100.0	7.61	31.68	7,052.6	616.5	380.5	-322.0	0.00	0.00	0.00
7,200.0	7.61	31.68	7,151.7	627.7	387.4	-327.8	0.00	0.00	0.00
7,300.0	7.61	31.68	7,250.8	639.0	394.4	-333.7	0.00	0.00	0.00
7,400.0	7.61	31.68	7,349.9	650.3	401.3	-339.6	0.00	0.00	0.00
7,500.0	7.61	31.68	7,449.1	661.5	408.3	-345.5	0.00	0.00	0.00
7,600.0	7.61	31.68	7,548.2	672.8	415.2	-351.4	0.00	0.00	0.00
7,695.0	7.61	31.68	7,642.3	683.5	421.8	-357.0	0.00	0.00	0.00
7,700.0	7.53	31.68	7,647.3	684.1	422.2	-357.3	1.50	-1.50	0.00
7,800.0	6.03	31.68	7,746.6	694.1	428.4	-362.5	1.50	-1.50	0.00
7,900.0	4.53	31.68	7,846.2	701.9	433.2	-366.6	1.50	-1.50	0.00
8,000.0	3.03	31.68	7,945.9	707.5	436.7	-369.5	1.50	-1.50	0.00
8,100.0	1.53	31.68	8,045.9	710.9	438.8	-371.3	1.50	-1.50	0.00
8,202.1	0.00	0.00	8,148.0	712.1	439.5	-371.9	1.50	-1.50	0.00
KOP: 1980' FSL & 10' FEL (5)									
8,225.0	2.75	269.80	8,170.8	712.1	439.0	-371.4	12.01	12.01	0.00
8,250.0	5.75	269.80	8,195.8	712.1	437.1	-369.5	12.01	12.01	0.00
8,275.0	8.75	269.80	8,220.6	712.1	433.9	-366.4	12.01	12.01	0.00
8,300.0	11.75	269.80	8,245.2	712.1	429.5	-361.9	12.01	12.01	0.00
8,325.0	14.76	269.80	8,269.5	712.0	423.8	-356.2	12.01	12.01	0.00
8,350.0	17.76	269.80	8,293.5	712.0	416.8	-349.3	12.01	12.01	0.00
8,375.0	20.76	269.80	8,317.1	712.0	408.5	-341.1	12.01	12.01	0.00
8,400.0	23.76	269.80	8,340.2	712.0	399.1	-331.6	12.01	12.01	0.00
8,425.0	26.77	269.80	8,362.8	711.9	388.4	-321.0	12.01	12.01	0.00
8,450.0	29.77	269.80	8,384.9	711.9	376.5	-309.2	12.01	12.01	0.00
8,475.0	32.77	269.80	8,406.2	711.8	363.6	-296.3	12.01	12.01	0.00
8,490.4	34.63	269.80	8,419.1	711.8	355.0	-287.8	12.01	12.01	0.00
FTP: 1980' FSL & 100' FEL (5)									
8,500.0	35.78	269.80	8,426.9	711.8	349.5	-282.3	12.01	12.01	0.00
8,525.0	38.78	269.80	8,446.8	711.7	334.4	-267.2	12.01	12.01	0.00
8,550.0	41.78	269.80	8,465.8	711.7	318.2	-251.1	12.01	12.01	0.00
8,575.0	44.78	269.80	8,484.0	711.6	301.1	-234.1	12.01	12.01	0.00
8,600.0	47.79	269.80	8,501.3	711.5	283.0	-216.1	12.01	12.01	0.00
8,625.0	50.79	269.80	8,517.6	711.5	264.0	-197.2	12.01	12.01	0.00
8,650.0	53.79	269.80	8,532.9	711.4	244.3	-177.6	12.01	12.01	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
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)
8,675.0	56.80	269.80	8,547.1	711.3	223.7	-157.1	12.01	12.01	0.00
8,700.0	59.80	269.80	8,560.3	711.3	202.4	-135.9	12.01	12.01	0.00
8,725.0	62.80	269.80	8,572.3	711.2	180.5	-114.1	12.01	12.01	0.00
8,750.0	65.80	269.80	8,583.1	711.1	158.0	-91.7	12.01	12.01	0.00
8,775.0	68.81	269.80	8,592.8	711.0	134.9	-68.7	12.01	12.01	0.00
8,800.0	71.81	269.80	8,601.2	710.9	111.4	-45.3	12.01	12.01	0.00
8,825.0	74.81	269.80	8,608.4	710.9	87.5	-21.5	12.01	12.01	0.00
8,850.0	77.82	269.80	8,614.3	710.8	63.2	2.7	12.01	12.01	0.00
8,875.0	80.82	269.80	8,618.9	710.7	38.6	27.2	12.01	12.01	0.00
8,900.0	83.82	269.80	8,622.2	710.6	13.8	51.8	12.01	12.01	0.00
8,925.0	86.82	269.80	8,624.3	710.5	-11.1	76.6	12.01	12.01	0.00
8,946.9	89.46	269.80	8,625.0	710.4	-33.0	98.4	12.01	12.01	0.00
LP: 1980' FSL & 488' FEL (5)									
8,947.1	89.48	269.80	8,625.0	710.4	-33.2	98.6	12.01	12.01	0.00
9,000.0	89.48	269.80	8,625.5	710.2	-86.1	151.3	0.00	0.00	0.00
9,100.0	89.48	269.80	8,626.4	709.9	-186.1	250.8	0.00	0.00	0.00
9,200.0	89.48	269.80	8,627.3	709.5	-286.1	350.3	0.00	0.00	0.00
9,300.0	89.48	269.80	8,628.2	709.2	-386.1	449.9	0.00	0.00	0.00
9,400.0	89.48	269.80	8,629.1	708.8	-486.0	549.4	0.00	0.00	0.00
9,500.0	89.48	269.80	8,630.0	708.5	-586.0	648.9	0.00	0.00	0.00
9,600.0	89.48	269.80	8,630.9	708.1	-686.0	748.5	0.00	0.00	0.00
9,700.0	89.48	269.80	8,631.9	707.8	-786.0	848.0	0.00	0.00	0.00
9,784.0	89.48	269.80	8,632.6	707.5	-870.0	931.6	0.00	0.00	0.00
PPP2: 1980' FSL & 1325' FEL (5)									
9,800.0	89.48	269.80	8,632.8	707.4	-886.0	947.5	0.00	0.00	0.00
9,900.0	89.48	269.80	8,633.7	707.1	-986.0	1,047.1	0.00	0.00	0.00
10,000.0	89.48	269.80	8,634.6	706.7	-1,086.0	1,146.6	0.00	0.00	0.00
10,100.0	89.48	269.80	8,635.5	706.4	-1,186.0	1,246.1	0.00	0.00	0.00
10,200.0	89.48	269.80	8,636.4	706.0	-1,286.0	1,345.7	0.00	0.00	0.00
10,300.0	89.48	269.80	8,637.3	705.7	-1,386.0	1,445.2	0.00	0.00	0.00
10,400.0	89.48	269.80	8,638.2	705.3	-1,486.0	1,544.8	0.00	0.00	0.00
10,500.0	89.48	269.80	8,639.2	705.0	-1,586.0	1,644.3	0.00	0.00	0.00
10,600.0	89.48	269.80	8,640.1	704.6	-1,686.0	1,743.8	0.00	0.00	0.00
10,700.0	89.48	269.80	8,641.0	704.2	-1,786.0	1,843.4	0.00	0.00	0.00
10,800.0	89.48	269.80	8,641.9	703.9	-1,886.0	1,942.9	0.00	0.00	0.00
10,900.0	89.48	269.80	8,642.8	703.5	-1,986.0	2,042.4	0.00	0.00	0.00
11,000.0	89.48	269.80	8,643.7	703.2	-2,086.0	2,142.0	0.00	0.00	0.00
11,100.0	89.48	269.80	8,644.6	702.8	-2,186.0	2,241.5	0.00	0.00	0.00
11,109.0	89.48	269.80	8,644.7	702.8	-2,195.0	2,250.5	0.00	0.00	0.00
PPP3: 1980' FSL & 2650' FEL (5)									
11,200.0	89.48	269.80	8,645.5	702.5	-2,286.0	2,341.0	0.00	0.00	0.00
11,300.0	89.48	269.80	8,646.4	702.1	-2,386.0	2,440.6	0.00	0.00	0.00
11,400.0	89.48	269.80	8,647.4	701.8	-2,486.0	2,540.1	0.00	0.00	0.00
11,500.0	89.48	269.80	8,648.3	701.4	-2,585.9	2,639.6	0.00	0.00	0.00
11,600.0	89.48	269.80	8,649.2	701.1	-2,685.9	2,739.2	0.00	0.00	0.00
11,700.0	89.48	269.80	8,650.1	700.7	-2,785.9	2,838.7	0.00	0.00	0.00
11,800.0	89.48	269.80	8,651.0	700.4	-2,885.9	2,938.3	0.00	0.00	0.00
11,900.0	89.48	269.80	8,651.9	700.0	-2,985.9	3,037.8	0.00	0.00	0.00
12,000.0	89.48	269.80	8,652.8	699.7	-3,085.9	3,137.3	0.00	0.00	0.00
12,100.0	89.48	269.80	8,653.7	699.3	-3,185.9	3,236.9	0.00	0.00	0.00
12,200.0	89.48	269.80	8,654.6	699.0	-3,285.9	3,336.4	0.00	0.00	0.00
12,300.0	89.48	269.80	8,655.6	698.6	-3,385.9	3,435.9	0.00	0.00	0.00
12,400.0	89.48	269.80	8,656.5	698.3	-3,485.9	3,535.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
Design:	Design #1		

Planned Survey

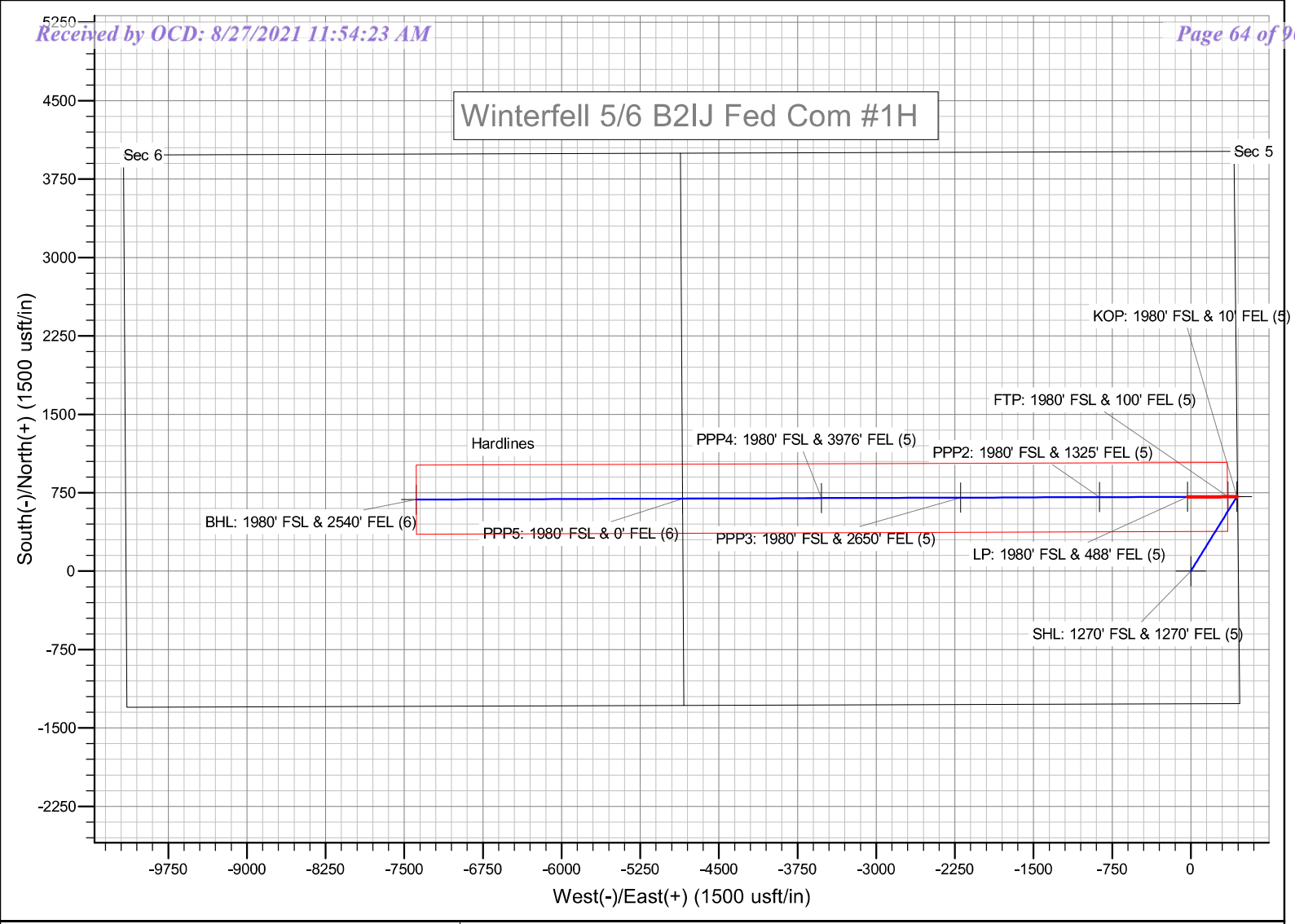
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,435.1	89.48	269.80	8,656.8	698.1	-3,521.0	3,570.4	0.00	0.00	0.00
PPP4: 1980' FSL & 3976' FEL (5)									
12,500.0	89.48	269.80	8,657.4	697.9	-3,585.9	3,635.0	0.00	0.00	0.00
12,600.0	89.48	269.80	8,658.3	697.5	-3,685.9	3,734.5	0.00	0.00	0.00
12,700.0	89.48	269.80	8,659.2	697.2	-3,785.9	3,834.1	0.00	0.00	0.00
12,800.0	89.48	269.80	8,660.1	696.8	-3,885.9	3,933.6	0.00	0.00	0.00
12,900.0	89.48	269.80	8,661.0	696.5	-3,985.9	4,033.2	0.00	0.00	0.00
13,000.0	89.48	269.80	8,661.9	696.1	-4,085.9	4,132.7	0.00	0.00	0.00
13,100.0	89.48	269.80	8,662.8	695.8	-4,185.9	4,232.2	0.00	0.00	0.00
13,200.0	89.48	269.80	8,663.8	695.4	-4,285.9	4,331.8	0.00	0.00	0.00
13,300.0	89.48	269.80	8,664.7	695.1	-4,385.9	4,431.3	0.00	0.00	0.00
13,400.0	89.48	269.80	8,665.6	694.7	-4,485.9	4,530.8	0.00	0.00	0.00
13,500.0	89.48	269.80	8,666.5	694.4	-4,585.9	4,630.4	0.00	0.00	0.00
13,600.0	89.48	269.80	8,667.4	694.0	-4,685.8	4,729.9	0.00	0.00	0.00
13,700.0	89.48	269.80	8,668.3	693.7	-4,785.8	4,829.4	0.00	0.00	0.00
13,760.2	89.48	269.80	8,668.9	693.5	-4,846.0	4,889.3	0.00	0.00	0.00
PPP5: 1980' FSL & 0' FEL (6)									
13,800.0	89.48	269.80	8,669.2	693.3	-4,885.8	4,929.0	0.00	0.00	0.00
13,900.0	89.48	269.80	8,670.1	693.0	-4,985.8	5,028.5	0.00	0.00	0.00
14,000.0	89.48	269.80	8,671.0	692.6	-5,085.8	5,128.0	0.00	0.00	0.00
14,100.0	89.48	269.80	8,672.0	692.3	-5,185.8	5,227.6	0.00	0.00	0.00
14,200.0	89.48	269.80	8,672.9	691.9	-5,285.8	5,327.1	0.00	0.00	0.00
14,300.0	89.48	269.80	8,673.8	691.6	-5,385.8	5,426.7	0.00	0.00	0.00
14,400.0	89.48	269.80	8,674.7	691.2	-5,485.8	5,526.2	0.00	0.00	0.00
14,500.0	89.48	269.80	8,675.6	690.8	-5,585.8	5,625.7	0.00	0.00	0.00
14,600.0	89.48	269.80	8,676.5	690.5	-5,685.8	5,725.3	0.00	0.00	0.00
14,700.0	89.48	269.80	8,677.4	690.1	-5,785.8	5,824.8	0.00	0.00	0.00
14,800.0	89.48	269.80	8,678.3	689.8	-5,885.8	5,924.3	0.00	0.00	0.00
14,900.0	89.48	269.80	8,679.2	689.4	-5,985.8	6,023.9	0.00	0.00	0.00
15,000.0	89.48	269.80	8,680.2	689.1	-6,085.8	6,123.4	0.00	0.00	0.00
15,100.0	89.48	269.80	8,681.1	688.7	-6,185.8	6,222.9	0.00	0.00	0.00
15,200.0	89.48	269.80	8,682.0	688.4	-6,285.8	6,322.5	0.00	0.00	0.00
15,300.0	89.48	269.80	8,682.9	688.0	-6,385.8	6,422.0	0.00	0.00	0.00
15,400.0	89.48	269.80	8,683.8	687.7	-6,485.8	6,521.5	0.00	0.00	0.00
15,500.0	89.48	269.80	8,684.7	687.3	-6,585.8	6,621.1	0.00	0.00	0.00
15,600.0	89.48	269.80	8,685.6	687.0	-6,685.8	6,720.6	0.00	0.00	0.00
15,700.0	89.48	269.80	8,686.5	686.6	-6,785.7	6,820.2	0.00	0.00	0.00
15,800.0	89.48	269.80	8,687.5	686.3	-6,885.7	6,919.7	0.00	0.00	0.00
15,900.0	89.48	269.80	8,688.4	685.9	-6,985.7	7,019.2	0.00	0.00	0.00
16,000.0	89.48	269.80	8,689.3	685.6	-7,085.7	7,118.8	0.00	0.00	0.00
16,100.0	89.48	269.80	8,690.2	685.2	-7,185.7	7,218.3	0.00	0.00	0.00
16,200.0	89.48	269.80	8,691.1	684.8	-7,285.7	7,317.8	0.00	0.00	0.00
16,299.2	89.48	269.80	8,692.0	684.5	-7,384.9	7,416.6	0.00	0.00	0.00
BHL: 1980' FSL & 2540' FEL (6)									

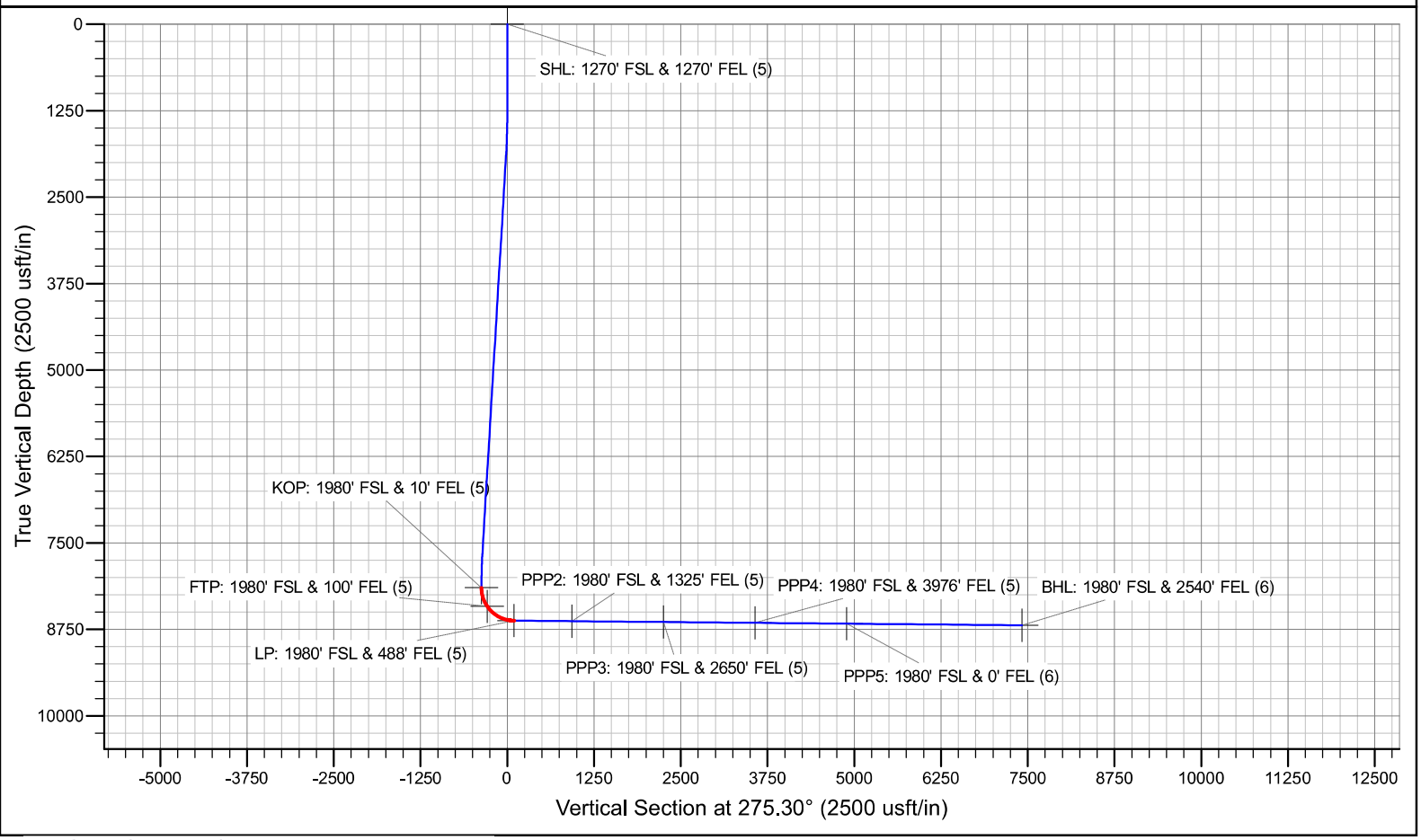
Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Winterfell 5/6 B2IJ Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	**MD Reference:**	WELL @ 3860.0usft (Original Well Elev)
Site:	Winterfell 5/6 B2IJ Fed Com #1H	**North Reference:**	Grid
Well:	Sec 5, T18S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 2540' FEL, Sec 6		
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: 1270' FSL & 1270' - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	645,326.90	710,977.50	32.7728217	-103.7814105
KOP: 1980' FSL & 10' FI - plan hits target center - Point	0.00	0.00	8,148.0	712.1	439.5	646,039.00	711,417.00	32.7747726	-103.7799685
FTP: 1980' FSL & 100' F - plan hits target center - Point	0.00	0.00	8,419.1	711.8	355.0	646,038.71	711,332.50	32.7747730	-103.7802434
LP: 1980' FSL & 488' FE - plan hits target center - Point	0.00	0.00	8,625.0	710.4	-33.0	646,037.34	710,944.50	32.7747748	-103.7815058
PPP2: 1980' FSL & 132 - plan hits target center - Point	0.00	0.00	8,632.6	707.5	-870.0	646,034.39	710,107.50	32.7747787	-103.7842290
PPP3: 1980' FSL & 265 - plan hits target center - Point	0.00	0.00	8,644.7	702.8	-2,195.0	646,029.71	708,782.50	32.7747847	-103.7885398
PPP4: 1980' FSL & 397 - plan hits target center - Point	0.00	0.00	8,656.8	698.1	-3,521.0	646,025.03	707,456.50	32.7747905	-103.7928540
PPP5: 1980' FSL & 0' FE - plan hits target center - Point	0.00	0.00	8,668.9	693.5	-4,846.0	646,020.36	706,131.50	32.7747962	-103.7971649
BHL: 1980' FSL & 2540' - plan hits target center - Point	0.00	0.00	8,692.0	684.5	-7,384.9	646,011.40	703,592.60	32.7748066	-103.8054252


Winterfell 5/6 B2IJ Fed Com #1H
Sec 6
Sec 5
Hardlines
KOP: 1980' FSL & 10' FEL (5)
FTP: 1980' FSL & 100' FEL (5)
PPP4: 1980' FSL & 3976' FEL (5)
PPP2: 1980' FSL & 1325' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)
PPP5: 1980' FSL & 0' FEL (6)
PPP3: 1980' FSL & 2650' FEL (5)
LP: 1980' FSL & 488' FEL (5)
SHL: 1270' FSL & 1270' FEL (5)
South(-)/North(+) (1500 usft/in)
West(-)/East(+) (1500 usft/in)


SHL: 1270' FSL & 1270' FEL (5)
KOP: 1980' FSL & 10' FEL (5)
FTP: 1980' FSL & 100' FEL (5)
PPP2: 1980' FSL & 1325' FEL (5)
PPP4: 1980' FSL & 3976' FEL (5)
BHL: 1980' FSL & 2540' FEL (6)
LP: 1980' FSL & 488' FEL (5)
PPP3: 1980' FSL & 2650' FEL (5)
PPP5: 1980' FSL & 0' FEL (6)
True Vertical Depth (2500 usft/in)
Vertical Section at 275.30° (2500 usft/in)

Intent [X] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
Mewbourne Oil Co.	Winterfell 5/6 B2IJ Fed Com	1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	5	18S	32E		1980	S	10	E	Lea

Latitude	Longitude	NAD
32.7747726	-103.7799685	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	5	18S	32E		1980	S	100	E	Lea

Latitude	Longitude	NAD
32.7747730	-103.7802434	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	6	18S	32E		1980	S	2540	E	Lea

Latitude	Longitude	NAD
32.7748066	-103.8054252	83

Is this well the defining well for the Horizontal Spacing Unit? [Y]

Is this well an infill well? [N]

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

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

WINTERFELL 5_6 B2IJ FED COM 1H
Surface Hole Location: 1270' FSL & 455' FEL, Section 5, T. 18 S., R. 32 E.
Bottom Hole Location: 1980' FSL & 2540' FEL, Section 6, T. 18 S, R 32 E.

WINTERFELL 5_6 B2PO FED COM 1H
Surface Hole Location: 1240' FSL & 455' FEL, Section 5, T. 18 S., R. 32 E.
Bottom Hole Location: 500' FSL & 2539' FEL, Section 6, T. 18 S, R 32 E.

Lea County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

 Approval Date: 09/30/2020

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for

acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:
Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Below Ground-level Abandoned Well Marker to avoid raptor perching:
Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Timing Limitation Exceptions:
The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Hydrology
The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion.

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Range:

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing
The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width
The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing
Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

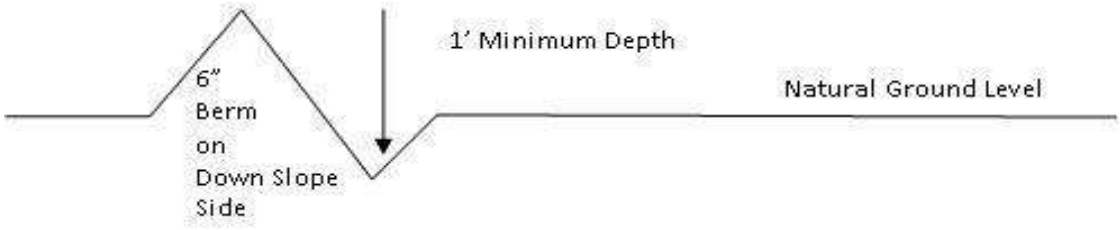
Ditching
Ditching shall be required on both sides of the road.

Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage
Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of

lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$\text{400 foot road with 4\% road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

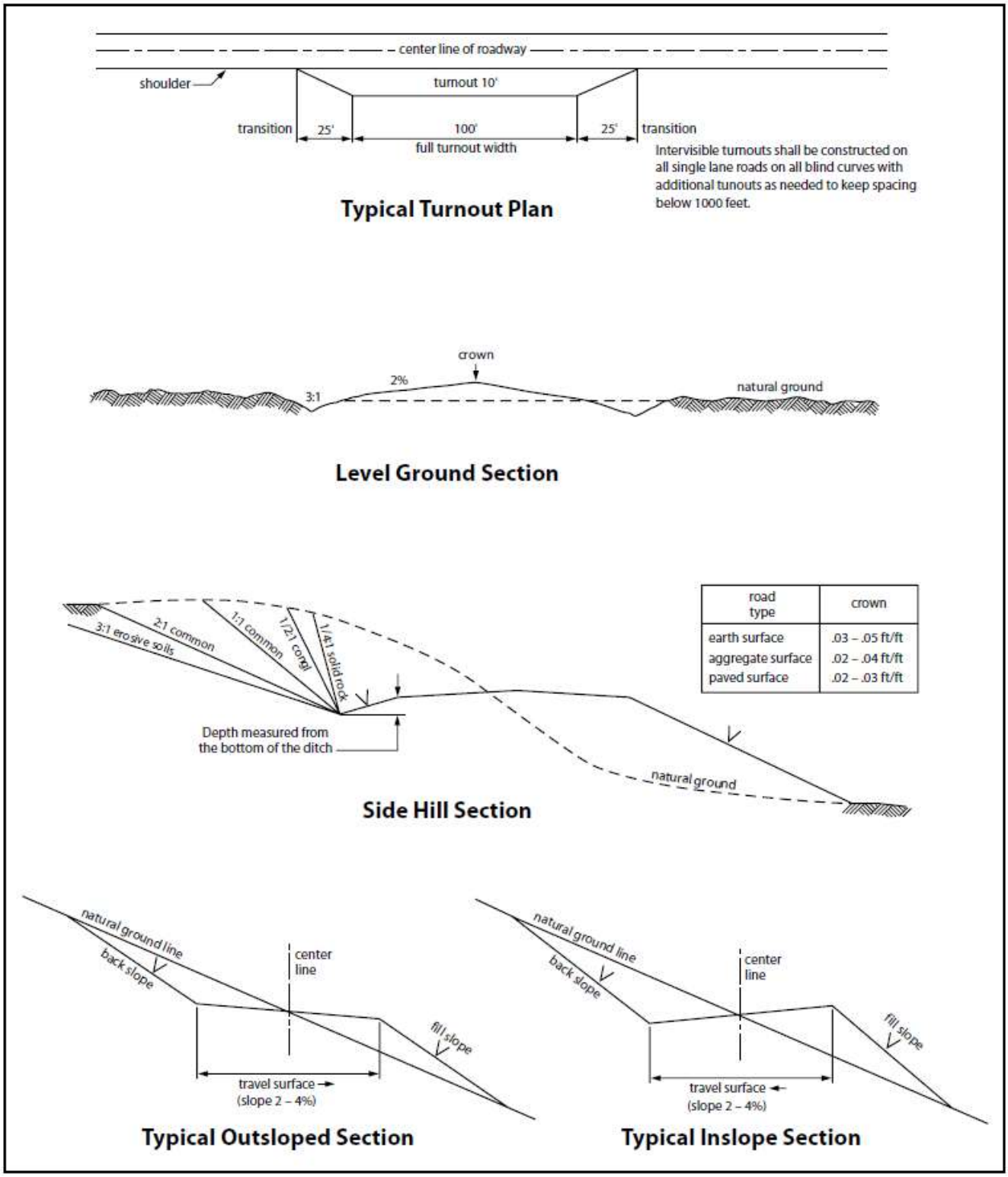


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Approval Date: 09/30/2020

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities
Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)
Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening
The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures
The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production

equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures
Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

VRM Facility Requirement
Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Below Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture for LPC Sand/Shinnery Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment before the Delaware formation for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

1. The hazards and characteristics of hydrogen sulfide gas.
2. The proper use of personal protective equipment and life support systems.
3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

1 The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
3 The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the 9 5/8" intermediate casing.

1. Well Control Equipment
   - A. Choke manifold with minimum of one adjustable choke/remote choke.
   - B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
   - C. Auxiliary equipment including annular type blowout preventer.
2. Protective Equipment for Essential Personnel
   Thirty minute self contained work unit located in the dog house and at briefing areas.

Additionally: If H2S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H2S are detected the well will be shut in and a rotating head, mud/gas separator, remote choke and flare line with igniter will be installed.

3. Hydrogen Sulfide Protection and Monitoring Equipment
Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

4. Visual Warning Systems
A. Wind direction indicators as indicated on the wellsite diagram.
B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

5. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

6. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

7. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well. If a drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

8. Emergency Phone Numbers

Eddy County Sheriff's Office	**911 or 575-887-7551**
Ambulance Service	**911 or 575-885-2111**
Carlsbad Fire Dept	**911 or 575-885-2111**
Loco Hills Volunteer Fire Dept.	**911 or 575-677-3266**
Closest Medical Facility - Columbia Medical Center of Carlsbad	**575-492-5000**

Mewbourne Oil Company	**Hobbs District Office**	**575-393-5905**
	Fax	**575-397-6252**
	2nd Fax	**575-393-7259**
District Manager	**Robin Terrell**	**575-390-4816**
Drilling Superintendent	**Frosty Lathan**	**575-390-4103**
	Bradley Bishop	**575-390-6838**

Drilling Foreman	**Wesley Noseff**	**575-441-0729**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL **Disposal location ownership:** PRIVATE FACILITY

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & Trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailer

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL **Disposal location ownership:** PRIVATE FACILITY

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Winterfell5_6B2IJFedCom1H_wellsitelayout_20190830073135.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:**

Multiple Well Pad Number:

Recontouring attachment:

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance (acres): 3.67
Road proposed disturbance (acres): 0.22
Powerline proposed disturbance (acres): 0
Pipeline proposed disturbance (acres): 0
Other proposed disturbance (acres): 0

Total proposed disturbance: 3.89

Well pad interim reclamation (acres): 1.02
Road interim reclamation (acres): 0
Powerline interim reclamation (acres): 0
Pipeline interim reclamation (acres): 0
Other interim reclamation (acres): 0

Total interim reclamation: 1.02

Well pad long term disturbance (acres): 2.65
Road long term disturbance (acres): 0
Powerline long term disturbance (acres): 0
Pipeline long term disturbance (acres): 0
Other long term disturbance (acres): 0

Total long term disturbance: 2.65

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U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report
08/27/2021

APD ID: 10400046775 **Submission Date:** 08/30/2019

Operator Name: MEWBOURNE OIL COMPANY

Well Name: WINTERFELL 5_6 B2IJ FED COM **Well Number:** 1H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
526795	UNKNOWN	3833	27	27	OTHER : Top soil	NONE	N
526796	RUSTLER	2738	1095	1095	ANHYDRITE, DOLOMITE	USEABLE WATER	N
526806	TOP SALT	2408	1425	1425	SALT	NONE	N
526807	BASE OF SALT	1443	2390	2390	SALT	NONE	N
526799	YATES	1258	2575	2575	SANDSTONE	NATURAL GAS, OIL	N
526808	SEVEN RIVERS	813	3020	3020	DOLOMITE	NATURAL GAS, OIL	N
526800	QUEEN	113	3720	3720	DOLOMITE	NATURAL GAS, OIL	N
526801	GRAYBURG	-142	3975	3975	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
526809	LAMAR	-1012	4845	4845	LIMESTONE	NATURAL GAS	N
526803	BONE SPRING	-1987	5820	5820	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
526804	BONE SPRING 1ST	-3807	7640	7640	SANDSTONE	NATURAL GAS, OIL	N
526805	BONE SPRING 2ND	-4452	8285	8285	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 16299

Equipment: Annular Pipe Rams Blind Rams 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.
Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. Anchors are not required by manufacturer. A variance is requested to use a multi-bowl wellhead.
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

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

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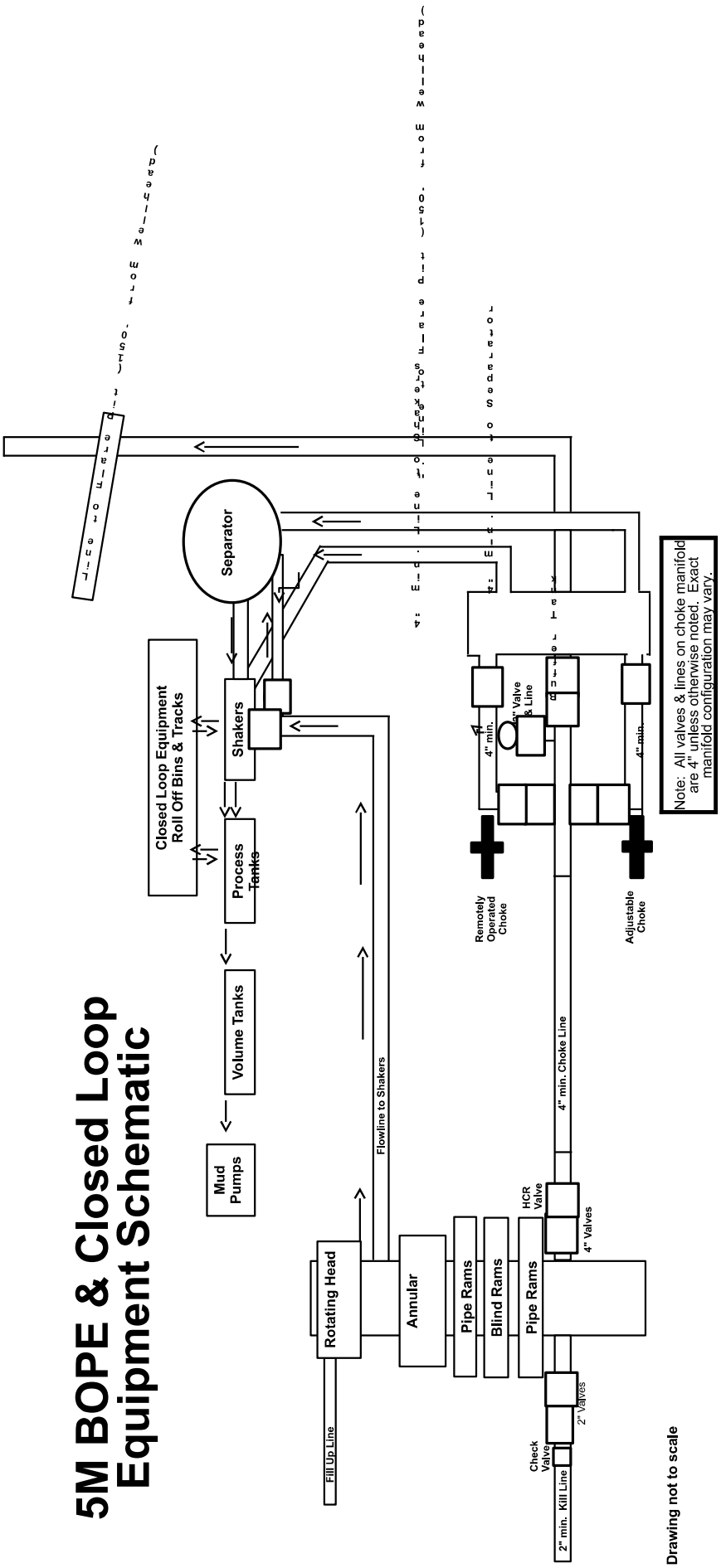
5M BOPE & Closed Loop Equipment Schematic



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

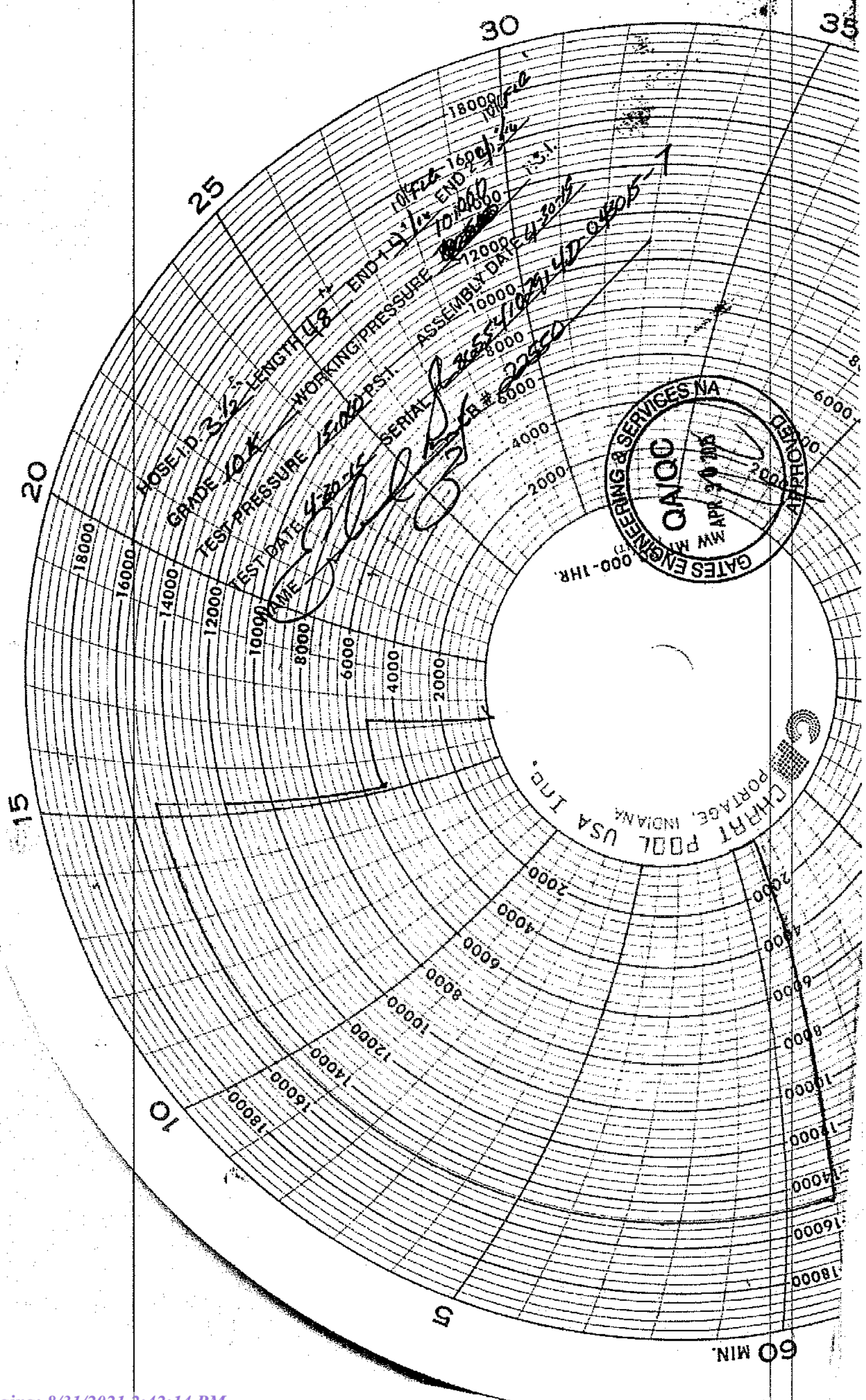
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE

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

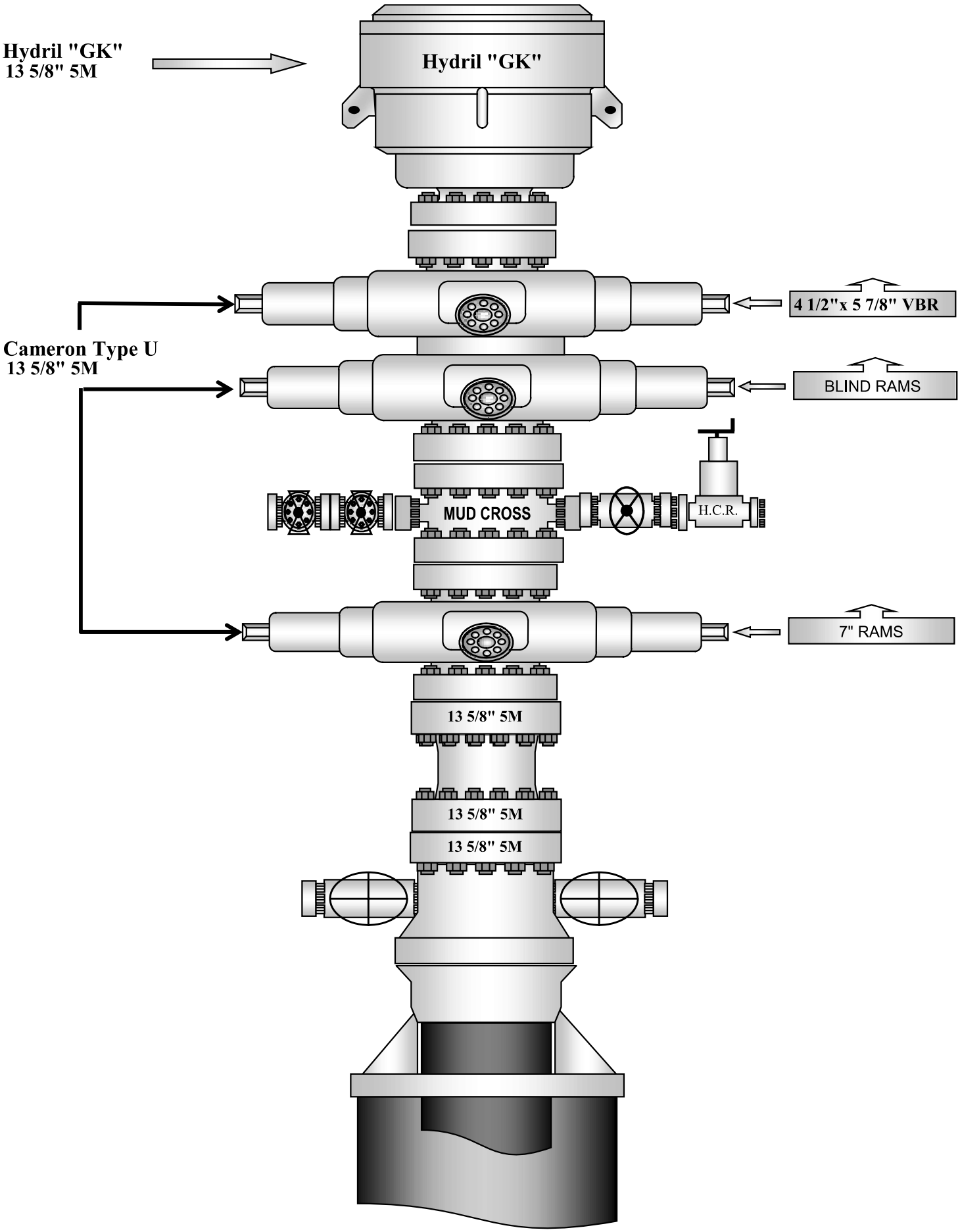
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in 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 :		Signature :	

Form-PTC - 01 Rev.0 2


HOSE I.D. 3 1/2 LENGTH 48 END
GRADE 10K WORKING PRESSURE PSI
TEST PRESSURE 15000 P.S.I. ASSEMBLY DATE 4-30-15
TEST DATE 4-30-15 SERIAL
NAME
GATES ENGINEERING & SERVICES NA
QA/QC
APPROVED
CHART POOL USA Inc.
PORTAGE, INDIANA
60 MIN.

5M BOPE Schematic



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 44861

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 44861
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/31/2021
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	8/31/2021
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	8/31/2021
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	8/31/2021