

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

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

5. Lease Serial No.  
NMNM027507

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.

RED HILLS WEST-21 W0CN FED COM  
1H (727018)

9. API-Well No.

30-025-45443

2. Name of Operator  
MEWBOURNE OIL COMPANY (14744)

3a. Address  
PO Box 5270 Hobbs NM 88240

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

10. Field and Pool, or Exploratory  
RED HILLS WOLF CAMP GAS / WILDCA

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

At surface NENW / 185 FNL / 1750 FWL / LAT 32.0350517 / LONG -103.6829331

At proposed prod. zone SESW / 330 FSL / 1650 FWL / LAT 32.0217679 / LONG -103.683285

11. Sec., T. R. M. or Blk. and Survey or Area  
SEC 21 / T26S / R32E / NMP

14. Distance in miles and direction from nearest town or post office\*  
30 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)  
185 feet

16. No of acres in lease  
640

17. Spacing Unit dedicated to this well  
320

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

19. Proposed Depth  
11785 feet / 16579 feet

20. BLM/BIA Bond No. in file  
FED: NM1693

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3180 feet

22. Approximate date work will start\*  
09/28/2018

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  
(Electronic Submission)

Name (Printed/Typed)  
Bradley Bishop / Ph: (575)393-5905

Date  
07/03/2018

Title  
Regulatory

Approved by (Signature)  
(Electronic Submission)

Name (Printed/Typed)  
Cody Layton / Ph: (575)234-5959

Date  
12/07/2018

Title  
Assistant Field Manager Lands & Minerals

Office  
CARLSBAD

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.

GCP Rec 12/18/18

KZ  
12/24/18

APPROVED WITH CONDITIONS

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM I:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**ITEM 24:** If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

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

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

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

## Additional Operator Remarks

### Location of Well

1. SHL: NENW / 185 FNL / 1750 FWL / TWSP: 26S / RANGE: 32E / SECTION: 21 / LAT: 32.0350517 / LONG: -103.6829331 ( TVD: 0 feet, MD: 0 feet )  
PPP: SESW / 1339 FSL / 1650 FWL / TWSP: 26S / RANGE: 32E / SECTION: 21 / LAT: 32.0245525 / LONG: -103.6832791 ( TVD: 11782 feet, MD: 15566 feet )  
PPP: NENW / 330 FNL / 1650 FWL / TWSP: 26S / RANGE: 32E / SECTION: 21 / LAT: 32.0346547 / LONG: -103.6832574 ( TVD: 11747 feet, MD: 11888 feet )  
BHL: SESW / 330 FSL / 1650 FWL / TWSP: 26S / RANGE: 32E / SECTION: 21 / LAT: 32.0217679 / LONG: -103.683285 ( TVD: 11785 feet, MD: 16579 feet )

### BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934

Email: pperez@blm.gov

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## **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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

## APD Print Report

12/07/2018

APD ID: 10400031720

Submission Date: 07/03/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Federal/Indian APD: FED

Well Name: RED HILLS WEST 21 W0CN FED COM

Well Number: 1H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

### Application

#### Section 1 - General

APD ID: 10400031720

Tie to previous NOS?

Submission Date: 07/03/2018

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: NMNM027507

Lease Acres: 640

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:

RedHillsWest21\_W0CNFedCom1H\_operatorletterofdesignation\_20180628120603.pdf

#### 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:

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**Well API Number:**

**Field/Pool or Exploratory?** Field and Pool

**Field Name:** RED HILLS  
WOLFCAMP GAS

**Pool Name:** WILDCAT  
WOLFCAMP

**Is the proposed well in an area containing other mineral resources?** USEABLE WATER

**Describe other minerals:**

**Is the proposed well in a Helium production area?** N

**Use Existing Well Pad?** NO

**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:** CONVENTIONAL GAS WELL

**Describe Well Type:**

**Well sub-Type:** APPRAISAL

**Describe sub-type:**

**Distance to town:** 30 Miles

**Distance to nearest well:** 50 FT

**Distance to lease line:** 185 FT

**Reservoir well spacing assigned acres Measurement:** 320 Acres

**Well plat:** RedHillsWest21\_W0CNFedCom1H\_wellplat\_20180628120429.pdf

**Well work start Date:** 09/28/2018

**Duration:** 60 DAYS

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83

**Vertical Datum:** NAVD88

**Survey number:**

	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
SHL Leg #1	185	FNL	175 0	FWL	26S	32E	21	Aliquot NENW	32.03505 17	- 103.6829 331	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 027507	318 0	0	0
KOP Leg #1	10	FNL	165 0	FWL	26S	32E	21	Aliquot NENW	32.03553 16	- 103.6832 556	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 027507	- 811 7	113 00	112 97
PPP Leg #1	330	FNL	165 0	FWL	26S	32E	21	Aliquot NENW	32.03465 47	- 103.6832 574	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 027507	- 856 7	118 88	117 47

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

	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
PPP Leg #1	1339	FSL	1650	FWL	26S	32E	21	Aliquot SESW	32.0245525	-103.6832791	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 107393	-8602	15566	11782
EXIT Leg #1	330	FSL	1650	FWL	26S	32E	21	Aliquot SESW	32.0217679	-103.683285	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 107393	-8605	16579	11785
BHL Leg #1	330	FSL	1650	FWL	26S	32E	21	Aliquot SESW	32.0217679	-103.683285	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 107393	-8605	16579	11785

### Drilling Plan

#### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3153	27	27		NONE	No
2	RUSTLER	2610	551	551	DOLOMITE, ANHYDRITE	USEABLE WATER	No
3	TOP SALT	2243	918	918	SALT	NONE	No
4	BOTTOM SALT	-1055	4216	4216	SALT	NONE	No
5	LAMAR	-1274	4435	4435	LIMESTONE	NATURAL GAS, OIL	No
6	BELL CANYON	-1306	4467	4467	SANDSTONE	NATURAL GAS, OIL	No
7	CHERRY CANYON	-2256	5417	5417	SANDSTONE	NATURAL GAS, OIL	No
8	MANZANITA	-2494	5655	5655	LIMESTONE	NATURAL GAS, OIL	No
9	BRUSHY CANYON	-3854	7015	7015	SANDSTONE	NATURAL GAS, OIL	No
10	BONE SPRING	-5405	8566	8566	LIMESTONE, SHALE	NATURAL GAS, OIL	No
11	BONE SPRING 1ST	-6326	9487	9487	SANDSTONE	NATURAL GAS, OIL	No
12	BONE SPRING 2ND	-6951	10112	10112	SANDSTONE	NATURAL GAS, OIL	No

Operator Name: MEWBOURNE OIL COMPANY

Well Name: RED HILLS WEST 21 W0CN FED COM

Well Number: 1H

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
13	BONE SPRING 3RD	-8179	11340	11350	SANDSTONE	NATURAL GAS,OIL	No
14	WOLFCAMP	-8533	11694	11704	LIMESTONE,SHALE,SANDSTONE	NATURAL GAS,OIL	Yes

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 16579

Equipment: Annular, Pipe Rams, Blind Rams

Requesting Variance? YES

**Variance request:** A variance is requested for use of a 5000 psi annular BOP with the 10,000 psi BOP stack. Request variance for the use of a flexible choke line from the BOP to Choke Manifold. Anchors not required by manufacturer. A multi-bowl wellhead will be used. See attached schematic.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_10M\_BOPE\_Choke\_Diagram\_20180702153151.pdf

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_Flex\_Line\_Specs\_20180702153201.pdf

BOP Diagram Attachment:

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_10M\_BOPE\_Schematic\_20180702153209.pdf

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_10M\_Multi\_Bowl\_WH\_20180702153218.pdf

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_10M\_Annular\_BOP\_Variance\_20180702153227.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
1	SURFACE	17.5	13.375	NEW	API	N	0	626	0	626	3180	2554	626	H-40	48	STC	2.69	6.04	DRY	10.7 2	DRY



**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

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
2	INTERMEDIATE	12.25	9.625	NEW	API	Y	0	4360	0	4360	3180	-1180	4360	J-55	36	LTC	1.13	1.96	DRY	2.82	DRY
3	PRODUCTION	8.75	7.0	NEW	API	N	0	12049	0	11775	3180	-8595	12049	P-110	26	LTC	1.4	1.78	DRY	2.08	DRY
4	LINER	6.125	4.5	NEW	API	N	11300	16579	11297	11785	-8117	-8605	5279	P-110	13.5	LTC	1.34	1.56	DRY	4.74	DRY

#### Casing Attachments

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_Csg\_Assumptions\_20180702155517.pdf

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_Inter\_Tapered\_String\_Diagram\_20180702154249.pdf

**Casing Design Assumptions and Worksheet(s):**

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_Csg\_Assumptions\_20180702155525.pdf

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

### Casing Attachments

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_Csg\_Assumptions\_20180702155532.pdf

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_Csg\_Assumptions\_20180702155539.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	436	290	2.12	12.5	615	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		436	626	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	3701	710	2.12	12.5	1505	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		3701	4360	200	1.34	14.8	268	25	Class C	Retarder

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead	5650	4160	4818	50	2.12	12.5	106	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		4818	5650	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	5650	5650	9561	350	2.12	12.5	742	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		9561	1204 9	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		1130 0	1657 9	220	2.97	11.2	653	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

### 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 in surface hole

**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	626	SPUD MUD	8.6	8.8							

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

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
626	4360	SALT SATURATED	10	10							
4360	11300	WATER-BASED MUD	8.6	9.5							
11300	11785	OIL-BASED MUD	10	13							

### Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (11300') to surface.

Will run MWD GR from KOP (11300') to TD.

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

CNL,DS,GR,MWD,MUDLOG

**Coring operation description for the well:**

None

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 7967

**Anticipated Surface Pressure:** 5296.2

**Anticipated Bottom Hole Temperature(F):** 165

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_H2S\_Plan\_20180702155945.pdf

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_Dir\_Plan\_20180702160010.pdf

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_Dir\_Plot\_20180702160019.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_Drlg\_Program\_20180702160036.doc

Red\_Hills\_West\_21\_W0CN\_Fed\_Com\_1H\_OCD\_Sheet\_20180702160508.pdf

**Other Variance attachment:**

SUPD

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

RedHillsWest21\_W0CNFedCom1H\_existingroadmap\_20180628124645.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

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

### Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

RedHillsWest21\_W0CNFedCom1H\_existingwellmap\_20180628121357.pdf

**Existing Wells description:**

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

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Appx 1500' of 2-7/8" surface flow line

**Production Facilities map:**

RedHillsWest21\_W0CNFedCom1H\_productionfacilltymap\_20180628121424.pdf

### Section 5 - Location and Types of Water Supply

#### Water Source Table

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

**Describe type:**

**Source latitude:** 32.204

**Source datum:** NAD83

**Water source permit type:** WATER WELL

**Source land ownership:** FEDERAL

**Water source transport method:** TRUCKING

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 1940

**Water source type:** IRRIGATION

**Source longitude:** -103.40123

**Source volume (acre-feet):** 0.2500526

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**Source volume (gal):** 81480

**Water source and transportation map:**

RedHillsWest21\_W0CNFedCom1H\_watersourceandtransmap\_20180628121500.pdf

**Water source comments:**

**New water well?** NO

### 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

**Construction Materials description:** Caliche

**Construction Materials source location attachment:**

RedHillsWest21\_W0CNFedCom1H\_calichesourceandtransmap\_20180628121606.pdf

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

### **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.

**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.



**Operator Name: MEWBOURNE OIL COMPANY**

**Well Name: RED HILLS WEST 21 W0CN FED COM**

**Well Number: 1H**

### **Reserve Pit**

**Reserve Pit being used? NO**

**Temporary disposal of produced water into reserve pit?**

**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? NO**

**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?**

**Cuttings area liner**

**Cuttings area liner specifications and installation description**

## **Section 8 - Ancillary Facilities**

**Are you requesting any Ancillary Facilities?: NO**

**Ancillary Facilities attachment:**

**Comments:**

## **Section 9 - Well Site Layout**

**Well Site Layout Diagram:**

**RedHillsWest21\_W0CNFedCom1H\_wellsitelayout\_20180628121633.pdf**

**Comments:**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

## 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):** 3.65

**Road proposed disturbance (acres):**  
0.1999

**Powerline proposed disturbance  
(acres):** 0

**Pipeline proposed disturbance  
(acres):** 0

**Other proposed disturbance (acres):** 0

**Total proposed disturbance:** 3.8499

**Well pad interim reclamation (acres):**  
1.36

**Road interim reclamation (acres):** 0

**Powerline interim reclamation (acres):**  
0

**Pipeline interim reclamation (acres):**  
2.9834712E-7

**Other interim reclamation (acres):**  
1.205

**Total interim reclamation:** 2.5650003

**Well pad long term disturbance  
(acres):** 2.27

**Road long term disturbance (acres):** 0

**Powerline long term disturbance  
(acres):** 0

**Pipeline long term disturbance  
(acres):** 2.9834712E-7

**Other long term disturbance (acres):**  
1.205

**Total long term disturbance:**  
3.4750004

**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 ratio, 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 seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

**Soil treatment:** NA

**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:** NA

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:** NA

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

### Seed Management

#### Seed Table

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**

**Source phone:**

**Seed cultivar:**

**Seed use location:**

**PLS pounds per acre:**

**Proposed seeding season:**

#### Seed Summary

**Total pounds/Acre:**

Seed Type	Pounds/Acre
-----------	-------------

**Seed reclamation attachment:**

### Operator Contact/Responsible Official Contact Info

**First Name:** Bradley

**Last Name:** Bishop

**Phone:** (575)393-5905

**Email:** bbishop@mewbourne.com

**Seedbed prep:** Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to tilling, 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.

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**Seed method:** drilling or broadcasting seed over entire reclaimed area.

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** NA

**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 weeds 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

**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:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**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:**

**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:**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

## Section 12 - Other Information

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

### ROW Applications

**SUPO Additional Information:**

**Use a previously conducted onsite?** YES

**Previous Onsite information:** JUN 25 2015 Met with Trish Badbear (BLM) & RRC Surveying & staked location at 185' FNL & 1650' FWL, Sec 21, T26S, R32E, Lea Co., NM. This location was unacceptable due to fence. Moved to 185' FNL & 1750' FWL, Sec 21, T26S, R32E, Lea Co. NM. (Elevation @ 3153') This appears to be a drillable location with pit area to the N. Topsoil will be 30' on S. If battery is needed, it will be on W side. Reclaim 70' S & E with battery. Reclaim all sides 70' with no battery. Road off the NE corner heading E to the Red Hills West 21 #2H NW corner of pad. Arch approved through MOA. (BPS) JUN 18 2018 Change name from Red Hills West 21 A3CN Fed Com #2H. Lat 32.03505167, Long -103.68293311. (BPS) JUN 22 2018 Changed name from Red Hills West 21 W1CN Fed Com #1H.

### Other SUPO Attachment

RedHillsWest21\_W0CNFedCom1H\_interimreclamationdiagram\_20180628121925.pdf

RedHillsWest21\_W0CNFedCom1H\_gascaptureplan\_20180628121947.pdf

PWD

## 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?** NO

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**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:**

**Describe 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:**

**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? NO**

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit specifications:**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**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?**

**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? NO**

**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:**



**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**Underground Injection Control (UIC) Permit?**

**UIC Permit attachment:**

### Section 5 - Surface Discharge

**Would you like to utilize Surface Discharge PWD options?** NO

**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?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**

### Bond Info

#### Bond Information

**Federal/Indian APD:** FED

**BLM Bond number:** NM1693

**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:**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** RED HILLS WEST 21 W0CN FED COM

**Well Number:** 1H

**Forest Service reclamation bond attachment:**

**Reclamation bond number:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information attachment:**

### Operator Certification

#### Operator Certification

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** Bradley Bishop

**Signed on:** 07/03/2018

**Title:** Regulatory

**Street Address:** PO Box 5270

**City:** Hobbs

**State:** NM

**Zip:** 88240

**Phone:** (575)393-5905

**Email address:** bbishop@mewbourne.com

#### Field Representative

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

### Payment Info

#### Payment

**APD Fee Payment Method:** PAY.GOV

**pay.gov Tracking ID:** 26ANLJF9