

Well Name: MABLE HALE	Well Location: T19S / R30E / SEC 11 / NWNE / 32.6802775 / -103.9405511	County or Parish/State: EDDY / NM
Well Number: 3	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0560353	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001525019	Well Status: Producing Oil Well	Operator: GREAT WESTERN DRILLING COMPANY

Accepted for record –NMOCD gc2/23/2024

Notice of Intent

Sundry ID: 2679663

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 06/29/2022	Time Sundry Submitted: 12:46
Date proposed operation will begin: 09/01/2022	

Procedure Description: See attached.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

- Procedure Description
- Mabel_Hale_Federal__3_Existing__P_A_d_Schematic_20220629124511.xlsx
 - MABLE_HALE_FEDERAL_NO._3_P_A_PROCEDURE_20220629124342.docx

Received by OCD: 2/21/2024 1:04:00 PM

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Conditions of Approval

Specialist Review

MABEL_HALE_FED_3__2679663__COA_AND_PROCEDURE_20220702112422.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: GINA KING

Signed on: JUN 29, 2022 12:43 PM

Name: GREAT WESTERN DRILLING COMPANY

Title: Production Tech

Street Address: 700 W. LOUISIANA

City: MIDLANDState: TX

Phone: (432) 682-5241

Email address: GKING@GWDC.COM

Field

Representative Name: RALPH SKINNER JR

Street Address:

City:State:Zip:

Phone: (575)392-1294

Email address: rskinner@gwdc.com

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 07/02/2022

Signature: Keith Immatty

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	11. Country or Parish, State

SUBMIT IN TRIPLICATE - Other instructions on page 2	
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator	
3a. Address	3b. Phone No. (include area code)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

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

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

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

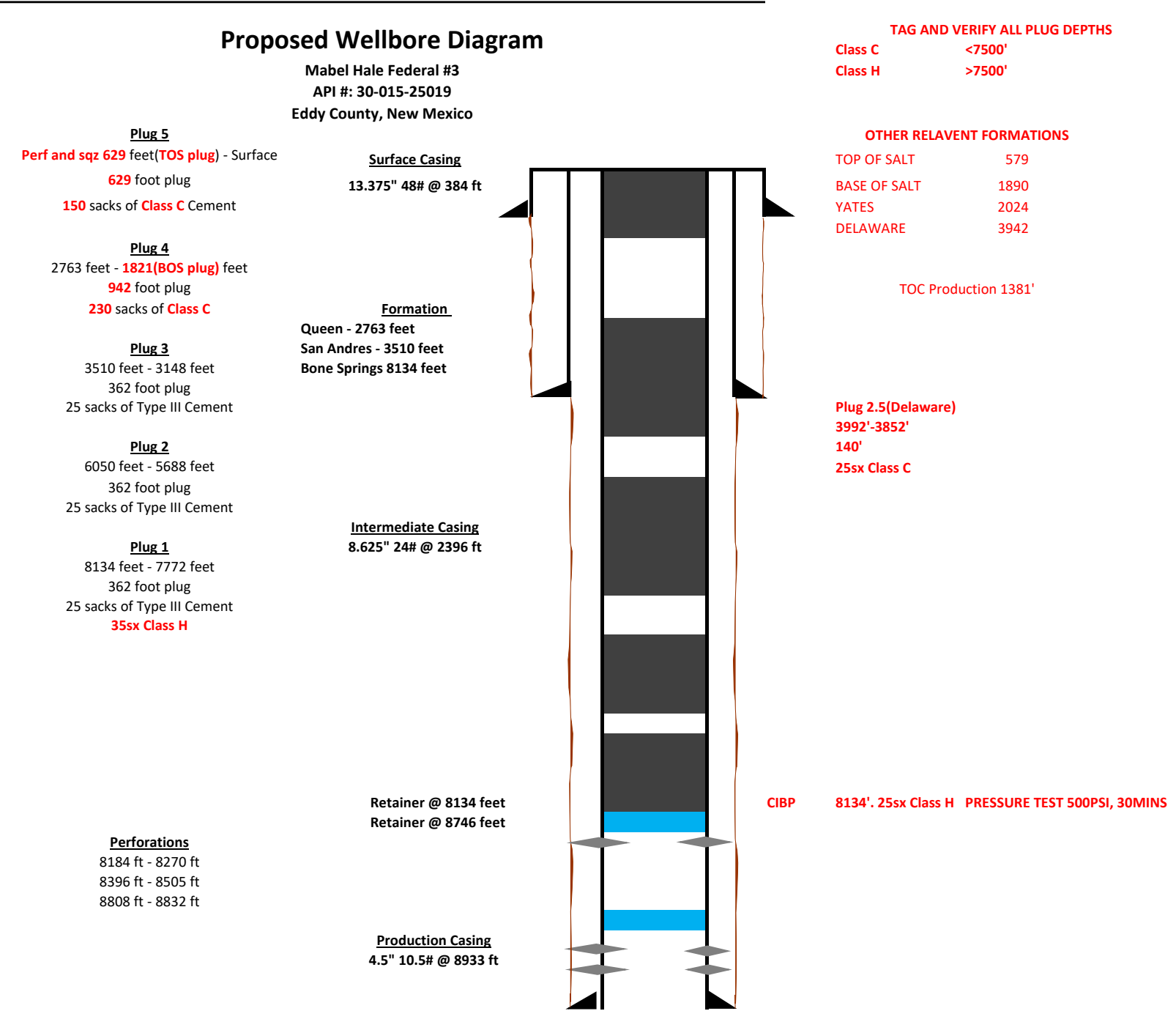
BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form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

Additional Information

Location of Well

0. SHL: NWNE / 660 FNL / 1980 FEL / TWSP: 19S / RANGE: 30E / SECTION: 11 / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

BHL: NWNE / 660 FNL / 1980 FEL / TWSP: 19S / SECTION: / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)



Sundry ID		2679663				
Plug Type	Top	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	629.00	629.00	Tag/Verify	150.00	High cave karst. TOS plug to surface
Shoe Plug	329.17	433.00	103.83	Tag/Verify	150.00	High cave karst. TOS plug to surface
Top of Salt @ 579	523.21	629.00	105.79	Tag/Verify	150.00	High cave karst. TOS plug to surface
Base of Salt @ 1890	1821.10	1940.00	118.90	Tag/Verify	230.00	Same as plug below
				If solid base no need to Tag (CIBP present and/or Mechanic al Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio ns		
Yates @ 2024	1953.76	2074.00	120.24		230.00	Same as plug below
Shoe Plug	2322.04	2446.00	123.96	Tag/Verify	230.00	
				If solid base no need to Tag (CIBP present and/or Mechanic al Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio ns		
Delaware @ 3942	3852.58	3992.00	139.42		25.00	

				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations		
Bonesprings @ 8134	8002.66	8184.00	181.34		30.00	Same as CIBP plug
				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations		
CIBP Plug	8099.00	8134.00	35.00		30.00	Pressure test 500psi, 30mins

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.	
Class H >7500'	
Class C<7500'	
Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.	
Critical, High Cave Karst: Cave Karst depth to surface	
R111P: Solid plug in all annuli - 50' from bottom of salt to surface.	
Class C: 1.32 ft^3/sx	
Class H: 1.06 ft^3/sx	

Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement	High	Top of Salt to surface	
Shoe @	383.00		
Shoe @	2396.00		
Shoe @	8933.00		
Perforatons Top @	8184.00	Perforations	8832.00
		CIBP @	8134.00

**BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972**

**Permanent Abandonment of Federal Wells
Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds). A weep hole shall be left if a metal plate is welded in place.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, New Mexico 88220-6292
www.blm.gov/nm



In Reply Refer To: 1310

Reclamation Objectives and Procedures

Reclamation Objective: Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. 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. At final abandonment, well locations, production facilities, and access roads must undergo “final” reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any/all contaminants, scrap/trash, equipment, pipelines and powerlines **(Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure)**. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. **This will apply to well pads, facilities, and access roads.** Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you

- have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.
5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
 6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
 7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos
Supervisory Petroleum Engineering Tech/Environmental Protection Specialist
575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias
Environmental Protection Specialist
575-234-6230

Crisha Morgan
Environmental Protection Specialist
575-234-5987

Jose Martinez-Colon
Environmental Protection Specialist
575-234-5951

Mark Mattozzi
Environmental Protection Specialist
575-234-5713

Robert Duenas
Environmental Protection Specialist
575-234-2229

Trishia Bad Bear, Hobbs Field Station
Natural Resource Specialist
575-393-3612



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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In Reply Refer To: 1310

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The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any and all contaminants, scrap/trash, equipment, pipelines and powerlines (**Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure**). Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. **This will apply to well pads, facilities, and access roads.** Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

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575-234-5713

Trishia Bad Bear, Hobbs Field Station
Natural Resource Specialist
575-393-3612

Plug And Abandonment End Of Well Report

Mabel Hale Federal #003

660 FNL & 1980 FEL, Section 11, 19S, 30E

Eddy County, NM / API 30-015-25019

Work Summary:

7/7/23 Made BLM and NMOCD P&A operations notifications at 9:00 AM MST.

7/8/23 Moved rig to location. Arrived at the location and held safety meeting. Prepped location. RU P&A rig. Removed horses head. Worked stuck rod string. L/D polished rod, a 4' by 7/8" pony, 3 by 6' by 7/8" ponies, 40 -7/8" stick rods, 152- 3/4" stick rods, and a rod pump. ND WH, NU BOP, RU floor. Worked tubing string. TOOH with 154 - 2 3/8" joints, tubing anchor, SN, 4' perforated sub, and bull plug. Inspected and tallied tubing. P/U 4.5" casing scraper. TIH to 4674'. Shut in and secured well for the day.

7/9/23 Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 120 psi, Bradenhead: 0 psi. Bled down well. Waited on tubing. Prepped and tallied 2 3/8" work string. Continued to TIH with scraper. Tagged hard at 5030'. TOOH removed scraper. P/U drill bit. TIH and tagged at 5030'. RU pump and power swivel. Attempted to circulate hole with no luck. Pumped 100 bbls. Began drilling on hard spot from 5030' to 5122'. Continued to TIH with power swivel to 5500'. RD power swivel and pump. TIH to 8188'. TOOH to 7570'. Shut down and secured well for the day.

7/10/23 Arrived on location and held safety meeting. Checked well pressures: Tubing 30 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. Continued to TOOH. L/D drill bit. Installed 4.5" casing scraper. TIH to 8188'. TOOH. L/D scraper. P/U 4.5" CR. TIH and set CR at 8134'. RU cementing services. Attempted to circulate hole but was unable to. Pumped 140 bbls. Pumped plug #1 from 8134' to approximately 7772'. RD cementers. L/D 12 joints and TOOH to 6590'. WOC overnight. Shut in and secured well.

7/11/23 Arrived on location and held safety meeting. Checked well pressures: Tubing 30 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. Continued to TOOH. RU wireline services. RIH and logged well. POOH. RD wireline. TIH and tagged plug #1 at 7760'. RU cementing services and pumped 27 bbls of brine water from 7760' to 6050'. RD cementers. LD 52 joints. RU cementing services. Pumped plug #2 from 6050' to

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approximately 5668'. RD cementers. L/D 12 joints. TOOH. WOC overnight. Shut in and secured well.

7/12/23

Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH to tag plug #2 but did not tag. RU cementers. Pumped 20 bbls of 15% LCM plug. Waited 45 minutes. Continued pumping plug #2 from 6050' to approximately 5688'. RD cementers. L/D 12 joints and TOOH. WOC 4 hours. TIH and tagged plug #2 at 5900'. RU cementers. Pumped 20 bbls of 15% LCM plug. Waited 45 minutes. Continued pumping plug #2 from 5900' to approximately 5688'. RD cementers. L/D 12 joints and TOOH. WOC overnight. Shut in and secured well.

7/13/23

Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged plug #2 at 5900'. RU cementing services. Began to pump cement, started displacement and tubing pressured up. RD cementing services. Worked tubing string to unplug it but was unsuccessful. TOOH. Removed 36 plugged joints. TIH to 5900'. RU cementing services. Successfully circulated hole with 35 bbls pumped 80 bbls total. Continued pumping plug #2 from 5900' to approximately 5688'. RD cementers. L/D 12 joints and TOOH. WOC 4 hours. TIH and tagged plug #2 at 5642'. RU cementing services. Pumped brine water from 5642' to 3510'. RD cementers. L/D 65 joints. RU cementing services. Pumped plug #3 from 3510' to approximately 3148'. RD cementers. L/D 13 joints and TOOH. WOC overnight. Shut in and secured well.

7/14/23

Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH to tag plug #3 but did not tag cement. RU cementing services. Continued pumping plug #3 from 3510' to approximately 3148'. RD cementers. L/D 12 joints. TOOH. WOC 4 hours. TIH and tagged plug #3 at 3270'. RU cementing services. Continued pumping plug #3 from 3270' to 3148'. RD cementers. L/D 6 joints and TOOH. WOC 4 hours. TIH and tagged top of plug #3 at 3025'. Attempted to pressure test 13.3" casing, pumped 1.5 bbls and fluid began coming out at surface. Successfully pressure tested 8.6" casing to 300 psi. RU cementers. Pumped brine water from 3025' to 2763'. RD cementers. L/D 8 joints. RU cementing services. Pumped plug #4 from 2763' to 2190'. RD cementers. L/D 20 joints and TOOH. WOC overnight. Shut in and secured well.

7/15/23

Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged plug #4 at 2000'. RU cementers. Pumped brine water from 2000' to 434'. RD cementers. L/D tubing. RU wireline services. RIH and perforated at 434'. POOH. RU cementing services. Successfully circulated water down 8.6" casing and out 4.5" casing at surface with 4 bbls. Shut valve and attempted to circulate water down 8.6" casing and out 13.3" but was not able to. RU wireline services. RIH and perforated at 334'. POOH. Successfully circulated water down 8.6" casing and out 4.5" with 1 bbl. Was still unable to circulate down 8.6" casing and out 13.3" casing. TIH to 485'. RU cementing services. Pumped plug #5 from 485' until cement came to surface in 4.5" casing.

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Shut valve and continued pumping cement until cement was at surface in 8.6" casing. RD cementers. L/D tubing. WOC 4 hours. RD floor, ND BOP. Dug out WH. Welder performed WH cutoff. Cement was 20' low in 4.5", 18' low in 8.6", and 22" low in 13.3". RU cementing services. Filled all casing strings to surface. RD cementers. Welded on P&A marker. Prepare to MOL.

7/16/23 Arrived on location and held safety meeting. Prepped all equipment to move off location. Picked up all trash and debris. Moved equipment off location.

Plug Summary:

Plug #1: (Bone Springs Perforations and formation top, 8,134'-7,760', 28 Sacks Type H Cement)

P/U 4.5" CR. TIH and set CR at 8134'. RU cementing services. Attempted to circulate hole but was unable to. Pumped plug #1 from 8134' to approximately 7772'. RD cementers. L/D 12 joints and TOOH to 6590'. WOC overnight. TIH and tagged plug #1 at 7760'.

Plug #2: (Delaware Formation Top, 6,050'-5,642', 124 Sacks Type H Cement)

RU cementing services. Pumped plug #2 from 6050' to approximately 5668'. RD cementers. L/D 12 joints. TOOH. WOC overnight. TIH to tag plug #2 but did not tag. RU cementers. Pumped 20 bbls of 15% LCM plug. Waited 45 minutes. Continued pumping plug #2 from 6050' to approximately 5688'. RD cementers. L/D 12 joints and TOOH. WOC 4 hours. TIH and tagged plug #2 at 5900'. RU cementers. Pumped 20 bbls of 15% LCM plug. Waited 45 minutes. Continued pumping plug #2 from 5900' to approximately 5688'. RD cementers. L/D 12 joints and TOOH. WOC overnight. TIH and tagged plug #2 at 5900'. RU cementing services. Began to pump cement, started displacement and tubing pressured up. RD cementing services. TOOH. Removed 36 plugged joints. TIH to 5900'. RU cementing services. Successfully circulated hole with 35 bbls pumped 80 bbls total. Continued pumping plug #2 from 5900' to approximately 5688'. RD cementers. L/D 12 joints and TOOH. WOC 4 hours. TIH and tagged plug #2 at 5642'.

Plug #3: (San Andres Formation Top, 3,510' to 3,025', 67 Sacks Class C Cement)

RU cementing services. Pumped plug #3 from 3510' to approximately 3148'. RD cementers. L/D 13 joints and TOOH. WOC overnight. TIH to tag plug #3 but did not tag cement. RU cementing services. Continued pumping plug #3 from 3510' to approximately 3148'. RD cementers. L/D 12 joints. TOOH. WOC 4 hours. TIH and tagged plug #3 at 3270'. RU cementing services. Continued pumping plug #3 from 3270' to 3148'. RD cementers. L/D 6 joints and TOOH. WOC 4 hours. TIH and tagged top of plug #3 at 3025'.

Plug #4: (Queen, 7 Rivers, Yates Formation Tops, and Intermediate Casing Shoe 2,736' to 2,000', 39 Sacks Class C Cement)

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RU cementing services. Pumped plug #4 from 2763' to 2190'. RD cementers. L/D 20 joints and TOOH. WOC overnight. TIH and tagged plug #4 at 2000'

Plug #5: (Surface Casing Shoe, 485' to Surface, 181 Sacks Type III Cement (34 for top off))

RU wireline services. RIH and perforated at 434'. POOH. RU cementing services. Successfully circulated water down 8.6" casing and out 4.5" casing at surface with 4 bbls. Shut valve and attempted to circulate water down 8.6" casing and out 13.3" but was not able to. RU wireline services. RIH and perforated at 334'. POOH. Successfully circulated water down 8.6" casing and out 4.5" with 1 bbl. Was still unable to circulate down 8.6" casing and out 13.3" casing. TIH to 485'. RU cementing services. Pumped plug #5 from 485' until cement came to surface in 4.5" casing. Shut valve and continued pumping cement until cement was at surface in 8.6" casing. RD cementers. L/D tubing. Dug out WH. Welder performed WH cutoff. Cement was 20' low in 4.5", 18' low in 8.6", and 22" low in 13.3". RU cementing services. Filled all casing strings to surface. RD cementers. Welded on P&A marker.

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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CONDITIONS

Action 274190

CONDITIONS

Operator: GREAT WESTERN DRILLING CO P.O. Box 1659 Midland, TX 79701	OGRID: 9338
	Action Number: 274190
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	2/23/2024