

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

EMNRD-OCD ARTESIA  
REC'D: 8/12/2020

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

**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.  
NMLC065347

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
WHITE CITY PENN GAS COM 2 1

9. API Well No.  
30-015-24024

10. Field and Pool or Exploratory Area  
WHITE CITY PENN (GAS)

11. County or Parish, State  
EDDY COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

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

2. Name of Operator  
CHEVRON USA  
Contact: HOWIE LUCAS  
E-Mail: howie.lucas@chevron.com

3a. Address  
6301 DEAUVILLE BLVD  
MIDLAND, TX 79706

3b. Phone No. (include area code)  
Ph: 832-588-4044

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 20 T24S R26E SWNE 1830FSL 1650FWL

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 checked="" 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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed 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 determined that the site is ready for final inspection.

Cement calculations utilize 1.32 yld for Class C and 1.18 yld for Class H. If using different yields please recalculate as necessary.

1. Notify BLM 24 hrs. prior to starting work.
2. Rig-less: pressure test casing t/ 1,000 psi for 15 minutes (or highest expected pressure). Contact engineer if test fails.
3. MIRU pulling unit.
4. Kill well as necessary. Check pressures on all strings and bubble test. If sustained casing pressure is noted, Chevron intends to utilize another means of eliminating the pressure (Zonite, Nano-Seal, Cut and pull casing, etc) as agreed upon by the BLM.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

Carlsbad Field Office  
Operator Copy

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #509693 verified by the BLM Well Information System  
For CHEVRON USA, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 04/06/2020 ()

Name (Printed/Typed) HOWIE LUCAS

Title P&A ENGINEER ATTORNEY IN FACT

Signature (Electronic Submission)

Date 04/06/2020

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By Long Vo

Title Petroleum Engineer

Date 4/14/2020

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 CFO

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)

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

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Additional data for EC transaction #509693 that would not fit on the form

32. Additional remarks, continued

- a. While rigging up, pump 50 bbl (30 ppb) Jet Seal pill down tubing, displace just below packer. Contact engineer if the well is not on a vacuum/standing full prior to pumping LCM.
5. N/U BOP and pressure test as per SOP's.
6. Due to lack of tubing detail, R/U wireline, pressure test lubricator t/ 500 psi for 10 minutes, cut tubing above packer at 9,748?. If wireline stacks out, prepare to release packer and L/D.
7. Spot 60 sx CL "H" cement f/ 9,748? t/ 9,080?, WOC & tag. (Perfs).
- a. TOC must be at 9,648? or shallower (100?). **9548' TAU**
- b. Discuss with engineer on using retarder or other additives at this depth dependent upon well conditions.
8. Pressure test casing t/ 1,000 psi f/ 15 minutes or maximum anticipated pressure for the job.
9. Spot MLF between cement plugs in accordance w/ BLM regulations. Wait to spot MLF if casing pressure test failed due to potentially wasting fluid.
10. Spot ~~40~~ **95** sx CL "H" Cement f/ ~~8,377?~~ **8,734'** t/ ~~8,109?~~ **8,090'** (Wolfcamp, Liner Top). **(Ent. shoe) (8734' - 8090') 95 SX TAU**
- a. TOC must be at 8,190? or shallower.
11. Spot ~~25~~ **35** sx CL "C" Cement f/ 5,214? t/ ~~5,089?~~ **5,059'** (Bone Spring). **35 SX**
- a. TOC must be at 5,114? or shallower. **5059' TAU**
12. Perforate casing at 3,590? and squeeze ~~40~~ **35** sx CL "C" Cement f/ ~~3,470?~~ **3,455'** t/ 3,590? , WOC & tag (Brushy Canyon). **35 SX**
- a. TOC must be at 3,490? or shallower. **3455' TAU** **surface**
13. Perforate casing at 2,560? and squeeze ~~290~~ **975** sx CL "C" Cement f/ ~~1,703?~~ **crit. cave** t/ 2,560?, WOC & tag (Cherry Canyon, Shoe). **975 SX**
- a. TOC must be at ~~1,762?~~ **FW** or shallower (Chevron Barrier Standard is 2,010?, but this combines the shoe plug). **surface verify**
- ~~14. Perforate casing at 1,590? and squeeze 600 sx CL "C" Cement f/ Surface t/ 1,590? (Bell Canyon, Salt, Shoe, FW).~~
- a. Deepest freshwater in the area is ~150?.
15. Cut off wellhead 3' below grade, Verify Cement to Surface, install required dry hole marker as per COA's, turn over to reclamation.

## Critical Case

### White City Penn Gas Com Unit 2-1 Procedure

Cement calculations utilize 1.32 yld for Class C and 1.18 yld for Class H. If using different yields please re-calculate as necessary.

1. Notify BLM 24 hrs. prior to starting work.
2. Rig-less: pressure test casing t/ 1,000 psi for 15 minutes (or highest expected pressure). Contact engineer if test fails.
3. MIRU pulling unit.
4. Kill well as necessary. Check pressures on all strings and bubble test. If sustained casing pressure is noted, Chevron intends to utilize another means of eliminating the pressure (Zonite, Nano-Seal, Cut and pull casing, etc) as agreed upon by the BLM.
  - a. While rigging up, pump 50 bbl (30 ppb) Jet Seal pill down tubing, displace just below packer. Contact engineer if the well is not on a vacuum/standing full prior to pumping LCM.
5. N/U BOP and pressure test as per SOP's.
6. Due to lack of tubing detail, R/U wireline, pressure test lubricator t/ 500 psi for 10 minutes, cut tubing above packer at 9,748'. If wireline stacks out, prepare to release packer and L/D.
7. Spot 60 sx CL "H" cement f/ 9,748' t/ 9,080', WOC & tag. (Perfs).
  - a. TOC must be at ~~9,648'~~ or shallower (100'). **9548' TAG**
  - b. Discuss with engineer on using retarder or other additives at this depth dependent upon well conditions.
8. Pressure test casing t/ 1,000 psi f/ 15 minutes or maximum anticipated pressure for the job.
9. Spot MLF between cement plugs in accordance w/ BLM regulations. Wait to spot MLF if casing pressure test failed due to potentially wasting fluid.
10. Spot ~~40~~<sup>95SX</sup> sx CL "H" Cement f/ ~~8,377'~~ t/ ~~8,169'~~ (Wolfcamp, Liner Top). **(Int. Shoe) (8734' - 8090')**
  - a. TOC must be at ~~8,190'~~ or shallower. **8090' TAG**
11. Spot ~~25~~<sup>35SX</sup> sx CL "C" Cement f/ 5,214' t/ ~~5,089'~~ (Bone Spring). **5059'**
  - a. TOC must be at ~~5,114'~~ or shallower. **5059' TAG 3455'**
12. Perforate casing at 3,590' and squeeze ~~40~~<sup>95SX</sup> sx CL "C" Cement f/ ~~3,470'~~ t/ 3,590', WOC & tag (Brushy Canyon). **3455'**
  - a. TOC must be at ~~3,490'~~ or shallower. **TAG surface**
13. Perforate casing at 2,560' and squeeze ~~250~~<sup>975SX</sup> sx CL "C" Cement f/ ~~1,703'~~ t/ 2,560', WOC & tag **Critical Case** (Cherry Canyon, Shoe). **Salt, FW**
  - a. TOC must be at ~~1,762'~~ or shallower (Chevron Barrier Standard is 2,010', but this combines the shoe plug). **Surface verify.**
14. ~~Perforate casing at 1,590' and squeeze 600 sx CL "C" Cement f/ Surface t/ 1,590' (Bell Canyon, Salt, Shoe, FW).~~
  - a. Deepest freshwater in the area is ~150'.
15. Cut off wellhead 3' below grade, Verify Cement to Surface, install required dry hole marker as per COA's, turn over to reclamation.

White City Penn Gas Com Unit 2 #1 Wellbore Diagram

Created: 08/13/07 By: C. A. Irle  
Updated: 03/26/19 By: Yifan Li  
Lease: White City Penn Gas Com Unit 2  
Field: White City (Penn)  
Surf. Loc.: 1,830' FSL & 1,650' FWL  
Bot. Loc.:  
County: Eddy St.: NM  
Status: Active Gas Well

Well #: 1 Fd./St. #: LC-065347  
API: 30-015-24024  
Unit Ltr.: K Section: 20  
TSHP/Rng: S-24 E-26  
Unit Ltr.: Section:  
TSHP/Rng:

Surface Casing

Size: 10 3/4  
Wt., Grd.: 40.5# K-55  
Depth: 1,812  
Sxs Cmt: 1,600  
Circulate: Yes  
TOC: Surface  
Hole Size: 14 3/4

KB: 3,406  
DF: 3,405  
GL: 3,389  
Ini. Spud: 02/26/82  
Ini. Comp.: 07/15/82

Intermediate Casing

Size: 7 5/8  
Wt., Grd.: 26.4#\*  
Depth: 8,684  
Sxs Cmt: 1,500  
Circulate: No  
TOC: 4760 TS  
Hole Size: 9 1/2  
\*68 Jts S-95, 139 Jts N-80

History  
7/15/82 Ini Comp: Perf 2 spf 10922-924,  
11010-012, 060-062, 080-082, 170-172, 194-  
196, 372-376, acid 10500 gls 10% MA 42  
BS, CIBP 10835, perf 2 spf 10366-370, 386-  
388, 423-435, 503-505, 521-523, 596-600,  
acid each 200 gls 15% NEFE, acid all 10000  
glis 15% 30 BS, drl CIBP, push 11424,  
1/25/89 Acdz perfs 10366 - 11376 w/ 6000  
gals.  
3/28/96 Perf Strawn 9589'-9971', Perf Atoka  
10,074'-10,089', Asdz all perfs

Production Liner

Size: 5" X-lined  
Wt., Grd.: 15# N-80  
Top: 8,327  
Depth: 11,500  
Sxs Cmt: 415  
Circulate:  
TOC: Liner Top  
Hole Size: N/A

Perforations

Strawn 9859' - 9971'  
Atoka 10,074 - 10,089'  
10,366' - 10,600'  
10,922' - 11,196' & 11,372' - 11,376'

Packer LOK-SET W/ 1.78 "F" NIPPLE SET @ 9748'

Tubing Detail (From 6/26/96 WO Report)  
OD WT Grade Threads Depth  
2 3/8" 4.7# N-80 EUE-8-RD 10319'

PBTD: 11,424  
TD: 11,500

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critical cave

### White City Penn Gas Com Unit 2 #1 Wellbore Diagram

Created: 08/13/07 By: C. A. Irie  
Updated: 03/26/19 By: Yifan Li  
Lease: White City Penn Gas Com Unit 2  
Field: White City (Penn)  
Surf. Loc.: 1,830' FSL & 1,650' FWL  
Bot. Loc.:  
County: Eddy St.: NM  
Status: Active Gas Well

Well #: 1 Fd./St. #: LC-065347  
API: 30-015-24024  
Unit Ltr.: K Section: 20  
TSHR/Rng: S-24 E-26  
Unit Ltr.: Section:  
TSHR/Rng:

#### Surface Casing

Size: 10 3/4  
Wt., Grd.: 40.5# K-55  
Depth: 1,812  
Sxs Cmt: 1,600  
Circulate: Yes  
TOC: Surface  
Hole Size: 14 3/4

#### Intermediate Casing

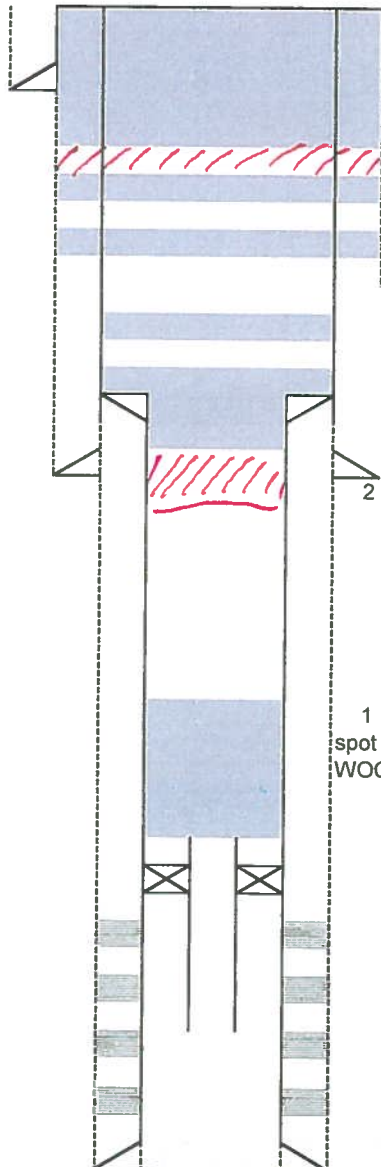
Size: 7 5/8  
Wt., Grd.: 26.4#\*  
Depth: 8,684  
Sxs Cmt: 1,500  
Circulate: No  
TOC: 4760 TS  
Hole Size: 9 1/2  
\*68 Jts S-95, 139 Jts N-80

#### Production Liner

Size: 5" X-lined  
Wt., Grd.: 15# N-80  
Top: 8,327  
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Sxs Cmt: 415  
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#### Perforations

Strawn 9859' - 9971'  
Atoka 10,074 - 10,089'  
10,366' - 10,600'  
10,922' - 11,196' & 11,372' - 11,376'



KB: 3,406  
DF: 3,405  
GL: 3,389  
Ini. Spud: 02/26/82  
Ini. Comp.: 07/15/82

to surface Verify@surface  
TA Lr  
TA Lr

Formation Name	TD, ft Top
T Salt	350 (est.)
B Salt	1500 (est.)
Lamar LS	1497
Bell Canyon	1540
Cherry Canyon	2510
Brushy Canyon	3540
Bone Spring	5164
1st Bone Spring	6100
2nd Bone Spring	6580
3rd Bone Spring	7912
Wolfcamp	8240
Strawn	10073
Atoka	10264
Morrow	10814
Mississippian	11423

Packer LOK-SET W/ 1.78 "F" NIPPLE SET @ 9748'

#### Tubing Detail (From 6/26/96 WO Report)

OD	WT	Grade	Threads	Depth
2 3/8"	4.7#	N-80	EUE-8-RD	10319'

PBTD: 11,424  
TD: 11,500

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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 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> 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 575-393-3612.

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.

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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 10<sup>th</sup> 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).

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.

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# 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 and all contaminants, scrap/trash, equipment, pipelines and powerlines. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip 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 Recenter (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

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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  
575-234-5909, 575-361-2648 (Cell)

Arthur Arias  
Environmental Protection Specialist  
575-234-6230

Henryetta Price  
Environmental Protection Specialist  
575-234-5951

Shelly Tucker  
Environmental Protection Specialist  
575-234-5979

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

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