

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB No 1004-0137  
Expires July 31, 2010

**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.  
NMNM69369

6 If Indian, Allottee or Tribe Name

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
CHEVRON USA INC

3a. Address  
6301 DEAUVILLE BLVD RM N3002  
MIDLAND TX 79706

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

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

8. Well Name and No.  
Sundance 1 Federal 4

9. API Well No  
30-015-28176

10. Field and Pool or Exploratory Area  
Delaware

4. Location of Well (Footage, Sec., T, R, M., or Survey Description)  
SEC 1 T24S R31E MER NMP SESE 740' ENL & 330' FEL

11. Country or Parish, State  
Eddy County, NM

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off  
☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity  
☐ Casing Repair ☐ New Construction ☐ Recomplete ☐ Other  
☐ Change Plans ☒ Plug and Abandon ☐ Temporarily Abandon  
☐ Convert to Injection ☐ Plug Back ☐ 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 recompleat 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 BJA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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.)

13 3/8" 54.5# @ 845' TOC surface, 8 5/8" 24#/32# 4439' TOC surface, 5 1/2" 17#/15 5# @ 8600' TOC 2710' via CBL, 4 1/2" 11.6# f/ 4604'-8407' TOC 4604' via WBD. Perfs 8155'-8244', squeezed perfs 8266'-8282', DV tool 6025'

Chevron respectfully requests to abandon this well as follows

1. Notify BLM 24 hrs. prior to starting work (575) 234-5909 *SEE COA'S*  
2. MIRU, NDWH, NU BOPE, POOH w/ tubing and rods. *25 SX CLASS H*  
3. Set CIBP @ 8100', circ salt gel, test csg, spot 20' sx CL "C" cement f/ 8100' t/ 7900'. WOC & tag  
4. Perf @ 6026' (DV tool) and sqz 20' sx CL "C" cement, WOC & tag. *Spot 25 SX cmt from 6076-5916*  
5. Perf @ 4500' and sqz 35' sx CL "C" cement from 4500-4300', WOC & tag (B. Salt, Delaware, shoe). *4620, spot 35 SX to 4260*  
6. Perf @ 900' and sqz 350' sx CL "C" cement from 900' surface (Shoe, T. Salt, FW Surface). *1038-Surf.*  
7. Cut off wellhead 3' below grade, Verify Cement To Surface, install required dry hole marker as per COA's, turn over to reclamation

All cement plugs will be class "C" with a closed loop system used *except 1st plug*

RECLAMATION PROCEDURE  
ATTACHED

*Below ground level dry hole marker required. LAC Timing*

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Howie Lucas

Title Engineer

Signature

Date 07/31/2017

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by:

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.

Title

*Supv. PET*

Date

*11-29-17*

Office

*LCO*

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)

**CURRENT  
WELLBORE DIAGRAM**

Lease: Sundance Fed 1 Well No: 4 API: 30-015-2817600 Chev No.: BL4747  
 Location: Sec: 1 Blk: Survey: TS  
 County: Eddy State: New Mexico LAT: 32.2410000 LONG: -103.7235500  
 Field: Ingle Wells WBS: Cost Center: UCRF60310  
 Directions to WellSite:

KB: 3,548  
 GL: 3,533  
 Spud Date: 11/22/1996  
 Compl Date: 04/17/2003

**Surface CASING**

Size: 13 3/8  
 Wt.: 54.5#, J-55  
 Set @: 845  
 Sxs cmt: 800 sxs  
 Cmt Date: 12/4/96  
 Circ: Yes  
 Hole Size: 17 1/2

**Intermediate CASING**

Size: 8 5/8  
 Wt.: 24/32#, J-55  
 Set @: 4439 **4440**  
 Sxs Cmt: 1360  
 Cmt Date: 12/9/96  
 Circ: yes  
 Hole Size: 11

**PRODUCTION CASING**

Size: 5 1/2  
 Wt.: 17.15 5#, J-55  
 Set @: 8600  
 Sxs Cmt: 1270 sxs  
 Cmt Date: 12/17/96  
 Circ: No TOC @ 2710 via CBL  
 Hole Size: 7 7/8  
 DV Tool: 6026

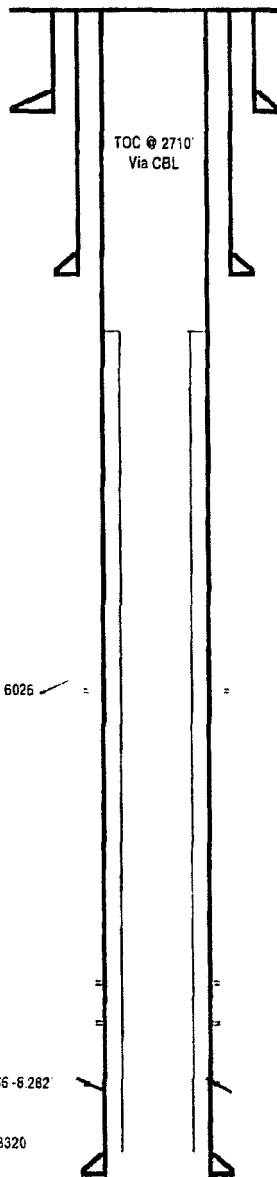
**PRODUCTION LINER**

Size: 4 1/2  
 Wt.: 11 6#, J-55  
 Set @: 4604 - 8407  
 Sxs Cmt: 200 sxs  
 Cmt Date: 11/15/10  
 Circ: No Squeezed  
 through retainer w 115 sxs  
 Test to 1000#

Squeezed Perfs 8,266 - 8,282'

**Geologic Tops**

Rustler 807  
 Saddle 111  
 Base of Sal 4242  
 Lamar 4564  
 Bel Canyon 4584  
 Cherry Creek 5442



Formation	Top	Bottom	Description, Location etc	Name	Top	Bottom
urf Rock	984	984		Anhy	1120	
anhy & Salt	984	3380		Salt	4316	
anhy	3380	4552		Delaware Sand	4580	
m	4552	6200		Bone Springs	8390	
d	6200	8250				
one Spring	8250	8497				

Records indicate bad casing @ 4811' - 5680' which was squeezed with 100 sks of cement. The cement squeeze did not work so a 4 1/2 liner was run in the hole. See notes below.

Tubing Strings									
String	Size	Wt	Set @	Sxs	Cmt	Top	Bottom	Length	Grade
1	2 3/8	1.655	470	1.80		8,029.1	14.0	8.043.1	
2	2 3/8	1.655	470	1.80		8,043.1	8.043.3	8.111.1	
3	2 3/8	1.655	470	1.80		8,111.1	8.111.1	8.113.5	
4	2 3/8	1.655	470	1.80		8,113.5	8.113.5	8.117.3	
5	2 3/8	1.655	470	1.80		8,117.3	8.117.3	8.242.2	
6	2 3/8	1.655	470	1.80		8,242.2	8.242.2	8.243.5	
7	2 3/8	1.655	470	1.80		8,243.5	8.243.5	8.243.5	

**ROD DETAIL(Run in Hole)**

Size	Manufacturer	No. of Rods	Length	Grade
1 1/2	HF	1	26	PR
7 8	NORRIS	1	4	N-90
7 8	NORRIS	115	2875	N-90
3 4	NORRIS	200	5000	N-90
1 1/2	NORRIS	12	300	C
7 8	NORRIS GUIDED 3 GUIDE	20-125-RHBM-24-5		N-97

**Perforations**

Date	Zone/Formation	Top (ftKB)	Bottom (ftKB)
2/3/2010	BRUSHY CANYON	8,155.0	8,171.0
2/3/2010	BRUSHY CANYON	8,193.0	8,225.0
2/3/2010	BRUSHY CANYON	8,230.0	8,244.0

## WELLSHOLE DIAGRAM

Lease: Sundance Fed 1 Well No: 4 APN: 3-215-0000 Chevron No: 6-4-87  
 Location: Sec: 1 Blk: Survey: TS  
 County: Eddy State: New Mexico LAT: 32.2410000 LONG: -103.7235500  
 Field: Ingle Wells WBS: UCRF80010  
 Directions to Wellsite:

KB 3546  
 D 3523  
 Spud Date 11/22/1996  
 Compl Date 04/17/2000

## Surface CASING

Size 10.39  
 WL 3454 JCS  
 Set C 645  
 Sss Cmt 600 fms  
 Cmt Date 12/4/99  
 Cdr Yes  
 Hole Size 17.12

## Intermediate CASING

Size 6.58  
 WL 34520 JCS  
 Set C 6436  
 Sss Cmt 1360  
 Cmt Date 12/9/99  
 Cdr yes  
 Hole Size 11

## PRODUCTION CASING

Size 4.12  
 WL 1770 SA JCS  
 Set C 8572  
 Sss Cmt 1270 fms  
 Cmt Date 11/17/98  
 Cdr No  
 Hole Size 2.78

## PRODUCTION LINER

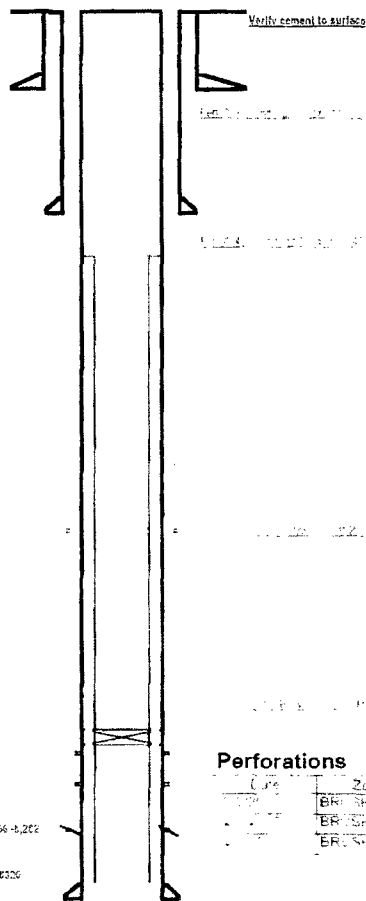
Size 4.12  
 WL 1164 JCS  
 Set C 4604 64  
 Sss Cmt 200 fms  
 Cmt Date 11/11/98  
 Cdr No  
 Squeezed  
 Unsqueeze  
 Treated

Squeezed Parts 6,206-6,202

## Geologic Tops

Base 60  
 Top 116  
 Base 4743  
 Top 4564  
 Base 45  
 Top 5443

Sand/Rk at 6320



## and perforations

Formation	Top	Bottom
unf Rock	0	924
unf & Ssh	924	3380
unf	3380	4552
unf	4552	6200
unf	6200	8254
Stone Spring	8254	8489

Description of Casing, etc.

Name

Top

Measured Depth

A 85  
 Set  
 Delaware Sand  
 Bone Spring

1120  
 4310  
 4560  
 8190

## Perforations

Casing	Zone/Formation	Top (FKB)	Bottom (FKB)
BR SHY ANY IN		6156.0	6177.0
BR SHY ANY IN		6156.0	6225.0
BR SHY ANY IN		6200.0	6244.0

**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 (LPC Habitat)**

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.**

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. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): 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.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

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.

**Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:**

From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted



# 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](http://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 (**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 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  
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