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

## Sundry Print Report

03/15/2023

Well Name: BARCLAY 11K  
FEDERALWell Location: T23S / R31E / SEC  
11 / NESW /County or Parish/State:  
EDDY / NM

Well Number: 11

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0404441

Unit or CA Name:

Unit or CA Number:

US Well Number:  
300153230400X1

Well Status: Abandoned

Operator: HARVARD  
PETROLEUM COMPANY LLC

Accepted for record – NMOCD gc4/27/2023

## Notice of Intent

Sundry ID: 2654130

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 01/25/2022

Time Sundry Submitted: 03:11

Date proposed operation will begin:  
01/31/2022

Procedure Description: Please find attached P&amp;A procedure for the BARCLAY 11K FEDERAL

## Surface Disturbance

Is any additional surface disturbance proposed?: No

## NOI Attachments

Procedure Description

Barclay\_11K\_Federal\_11\_PA\_Procedure\_20220125151006.pdf

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FEDERAL**Well Location:** T23S / R31E / SEC  
11 / NESW /**County or Parish/State:**  
EDDY / NM**Well Number:** 11**Type of Well:** OIL WELL**Allottee or Tribe Name:****Lease Number:** NMNM0404441**Unit or CA Name:****Unit or CA Number:****US Well Number:**  
300153230400X1**Well Status:** Abandoned**Operator:** HARVARD  
PETROLEUM COMPANY LLC**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:** VANESSA FIELDS**Signed on:** JAN 25, 2022 03:10 PM**Name:** HARVARD PETROLEUM COMPANY LLC**Title:** Regulatory Compliance Manager**Street Address:** 332 RD 3100**City:** AZTEC**State:** NM**Phone:** (505) 787-9100**Email address:** VANESSA@WALSHENG.NET**Field****Representative Name:** VANESSA FIELDS**Street Address:** 332 RD 3100**City:** Aztec**State:** NM**Zip:** 87410**Phone:** (150)578-7910**Email address:** vanessa@walsheng.net**BLM Point of Contact****BLM POC Name:** ZOTA M STEVENS**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5752345998**BLM POC Email Address:** ZSTEVEN@BLM.GOV**Disposition:** Approved**Disposition Date:** 03/23/2022**Signature:** Zota Stevens

## **Harvard Petroleum Company, LLC**

### **P&A Procedure**

**Wellname:** Barclay 11K Federal 11

**API #:** 3001532304

**Location:** Sec 11 T23S R31E 1930' FSL 1980' FWL

1. Notify Regulatory Agency 24 hours prior to commencing work.
2. MIRU well service unit and all necessary safety equipment.
3. POOH rods and tubing string from 8295'.
4. Set CIBP @ 6450'. Tag. Circulate 10# salt gel. Spot 25 sx Cl C Cement from 6200' – 6450' (Perforations at 6498'). Leak test CIBP.
5. Spot 450 sx of Cl C Cement from 4425' to surface. WOC & Verify @ Surface. (T. Delaware @ 4390'; B. Salt @ 4152'; T. Salt @ 1039').
6. Cut Wellhead off 3' Below Ground Level, Set Dry Hole Marker.

# Harvard Petroleum Company, LLC

## Barclay 11K Federal 11

## Existing Wellbore

Location: 1930' FSL &amp; 1980' FWL

Field: Livingston Ridge South

Date: 1/25/2022

County: Eddy

New Mexico

Sec 11 - T23S - R31E

Form. Delaware

API# 30-015-32304

Elevation 3435'

Spud Date 6/4/2002

Comp. Date 7/9/2002

PBD: 8480'

Size, in

Wgt, lb/ft

Grade

Hole Size

Depth

Sx. Cmt.

Surf. Csg:

13-3/8"

48#

H-40

17-1/2"

870'

950

Casing:

8-5/8"

32#

J-55

11"

4382'

1000

Casing:

5-1/2"

15.5#

J-55

7-7/8"

8480'

960

17 1/2" Hole  
13 3/8", 48#, H40, STC @ 870'  
Cmt'd w/950 sz, circ 155 sz

11" Hole  
8 5/8", 32#, J55, @ 4382'  
Cmt'd w/1000 sz, circ 175 sz

TOC @ 4670' CBL

2795' of 7/8" N-97 Rods  
4900' of 3/4" N-97 Rods  
600' of 1" N-97 Rods

Pump Depth 8295'

Perfs Delaware Formation  
6498' - 6505'  
7000' - 7005'  
7089' - 7094'  
8195' - 8218'

7 7/8" Hole  
5-1/2", 15.5# & 17#, J55 @ 8480'  
Cmt'd w/960 sz. TOC @ 4670' CBL

PBD 8480'



# Harvard Petroleum Company, LLC

## Barclay 11K Federal 11

## Proposed Wellbore

Location: 1930' FSL & 1980' FWL				Field: Livingston Ridge South			Date: 1/25/2022			
County: Eddy		New Mexico		Sec 11 - T23S - R31E			Form. Delaware			
API# 30-015-32304					Size, in	Wgt, lb/ft	Grade	Hole Size	Depth	Sx. Cmt.
Elevation	3435'			Surf. Csg:	13-3/8"	48#	H-40	17-1/2"	870'	950
Spud Date	6/4/2002			Casing:	8-5/8"	32#	J-55	11"	4382'	1000
Comp. Date	7/9/2002			Casing:	5-1/2"	15.5#	J-55	7-7/8"	8480'	960
PBTD:	8480'									

17 1/2" Hole  
13 3/8", 48#, H40, STC @ 870'  
Cmt'd w/950 sz, circ 155 sz

11" Hole  
8 5/8", 32#, J55, @ 4382'  
Cmt'd w/1000 sz, circ 175 sz

TOC @ 4670' CBL

10#  
Gel

7 7/8" Hole  
5-1/2", 15.5# & 17#, J55 @ 8480'  
Cmt'd w/960 sz. TOC @ 4670' CBL

PBTD 8480'

Proposed:  
Cut WH off 3' below ground level, set dry hole marker

Proposed:  
Spot 450 sz CI C from 4425' to Surface.  
VOC. Verify at Surface  
Top of Del. @ 4390'  
Base of Salt @ 4152'; Top of Salt @ 1039'

Proposed:  
Set CIBP @ 6450'. Tag. Leak Test CIBP  
Circ. 10# Salt Gel. Spot 25 sz CI C from 6200' - 6450'

Perfs Delaware Formation  
6498' - 6505'  
7000' - 7005'  
7089' - 7094'  
8195' - 8218'

**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

### 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



... specialist will inspect 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 (Office), 575-361-2648 (Cell)

Arthur Arias  
Environmental Protection Specialist  
575-234-6230

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 211342

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 211342
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	4/27/2023