

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

Well Name: TODD 27K FEDERAL	Well Location: T23S / R31E / SEC 27 / NESE / 32.2731893 / -103.7677604	County or Parish/State: EDDY / NM
Well Number: 11	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0418220A	Unit or CA Name:	Unit or CA Number:
US Well Number: 300153443100S1	Operator: HARVARD PETROLEUM COMPANY LLC	

Notice of Intent

Sundry ID: 2840099

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 03/05/2025

Time Sundry Submitted: 08:48

Date proposed operation will begin: 06/01/2025

Procedure Description: Please see attached NOI to P&A Current and proposed wbd included in doc.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Todd_27K_Fed_11__NOI_to_P_A__03.05.25_20250428085647.pdf

Form_3160_005__Todd_27K_Fed_11__03.04.25_20250305084804.pdf

Well Name: TODD 27K FEDERAL

Well Location: T23S / R31E / SEC 27 /
NESE / 32.2731893 / -103.7677604County or Parish/State: EDDY /
NM

Well Number: 11

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0418220A

Unit or CA Name:

Unit or CA Number:

US Well Number: 300153443100S1

Operator: HARVARD PETROLEUM
COMPANY LLC

Conditions of Approval

Specialist Review

Todd_27K_Federal_11__2840099__COA_AND_PROCEDURE_1_20250429111543.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: RONI KIDD

Signed on: APR 28, 2025 08:56 AM

Name: HARVARD PETROLEUM COMPANY LLC

Title: Business Manager

Street Address: PO BOX 936

City: ROSWELL

State: NM

Phone: (575) 390-2069

Email address: RKIDD@BUCKHORNPRODUCTION.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

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: 04/29/2025

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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMNM0418220A
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. TODD 27K FEDERAL/11
2. Name of Operator HARVARD PETROLEUM COMPANY LLC		9. API Well No. 3001534431
3a. Address PO BOX 936, ROSWELL, NM 882020936	3b. Phone No. (include area code) (575) 623-1581	10. Field and Pool or Exploratory Area INGLE WELLS-DELAWARE/INGLE WELLS-DELAWARE
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 27/T23S/R31E/NMP		11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA					
TYPE OF SUBMISSION		TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ 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 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.)

Please see attached NOI to P&A

Current and proposed wbd included in doc.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) RONI KIDD / Ph: (575) 390-2069	Title Business Manager
Signature (Electronic Submission)	Date 04/28/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by KEITH P IMMATTY / Ph: (575) 988-4722 / Approved	Title ENGINEER	Date 04/29/2025
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 CARLSBAD	

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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: NESE / 1830 FSL / 1980 FWL / TWSP: 23S / RANGE: 31E / SECTION: 27 / LAT: 32.2731893 / LONG: -103.7677604 (TVD: 0 feet, MD: 0 feet)

BHL: NESE / 1830 FSL / 1980 FWL / TWSP: 23S / SECTION: / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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. **NM-041822-A**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator **HARVARD PETROLEUM COMPANY, LLC**3a. Address **P.O. BOX 936, 200 E. SECOND
ROSWELL, NM 88202**3b. Phone No. (include area code)
(575) 623-1581

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

8. Well Name and No. **Todd 27K Federal 11**9. API Well No. **30-015-34431**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 27 T23S R31E 1830 FSL 1980 FWL10. Field and Pool or Exploratory Area
Ingle Wells, Delaware11. 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	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
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Harvard Petroleum proposes to plug this well beginning 6/1/2025 as follows:

Set CIBP @ 6962'. Dump bail 35' or 25 sx of Class H cement on top of CIBP.

Circulate hole w/plug mud (9.5# 25 sx/100 bbls) and test casing 500 psi for 30 minutes.

Perforate and pump 400 sx Class C @ 4308'; 3146' - 4308'; WOC and Tag.

Perforate and pump 400 sx Class C @ 3146'; 1984' - 3146'; WOC and Tag.

Perforate and pump 400 sx Class C @ 1984'; 822' - 1984'; WOC and Tag to cover whole salt interval due to potash area.

Perforate and pump 100 sx Class C @ 200'; Surface - 200'.

After plugging, casing will be cut off at least 3' below ground level and a plate welded on containing required well information.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
JASON HARMS**PETROLEUM ENGINEER**

Title

Signature



Date

03/04/2025**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

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Well Bore Diagram Worksheet

Operataor: Harvard Petroleum Co.

Well Name: Todd 27 K Fed 11

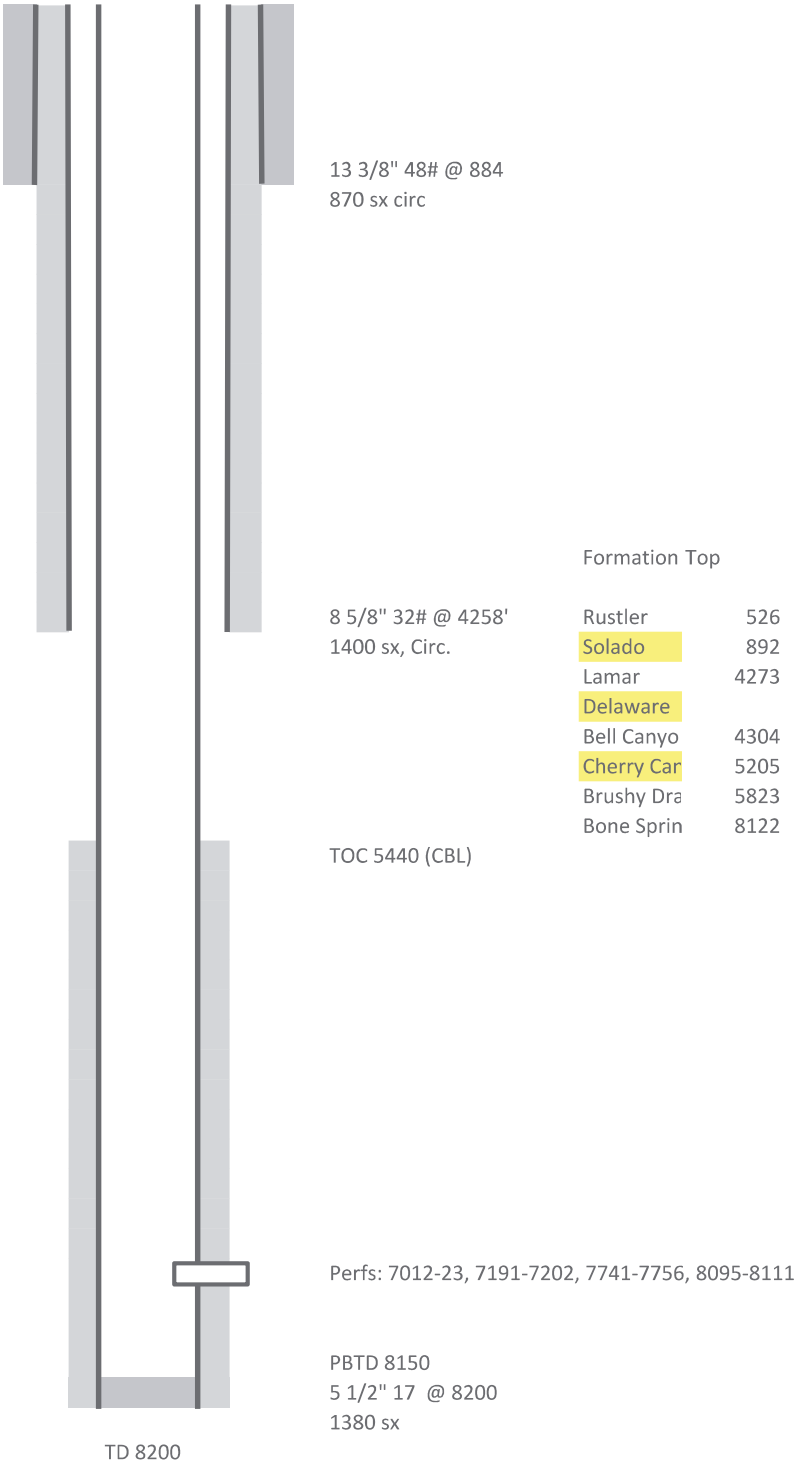
API # 30-015-34431

Location: 27, 23S, 31E

Date Spud: 2/9/2006

Date Complete: 5/12/2006

Current Wellbore



Well Name	Lonecat Fed #1
API #	30-025-38447
Location	T23S, R31E, Sec 30: Lea County, NM

11-Dec-23 Notice of plugging was given to BLM 12/11/23 AM. Permian 5 Moved in plugging equipment and rigged up. RIH w/ Bit, Scraper and 150 jts (4800'). SDFN

12/12/2023 RIH w/ and tag at 5120', cannot work through by rotating with tongs. Start POH, on 3rd stand started pulling wet (heavy emulsion and oil). Attempt to pump down tubing, no progress with 1500 psi. SD wait on vac truck, after 30 minutes start pulling again tubing is not wet. Tie on to tubing and load casing w/ 5 bbls, circulate 115 bbls circulate oil out of hole with brine. RIH open ended, run past prior obstruction and tag at 6336' (200 joints). Start OOH in prep to RU reverse unit tomorrow.

12/13/2023 RIH w/ bit, no collars and tag at 5056. PU swivel and Drill on obstruction 2 hours, only made 3", cuttings are a very hard scale. POH and remove bit in prep to RIH w/ notched collar tomorrow.

12/14/2023 RIH w/ notched collar and tag at 6336'. PU swivel and wash through recovering heavy black fluid and soft scale cuttings. Rotate and wash down 1.5 joints to 6388' and lost circulation. Continue rotating and re gained circulation but could not go deeper. There is some metal in the cuttings. POH 30 stands and SDFN.

12/15/2023 POH and found that the notched collar is badly damaged, there must be metal in the hole. Discuss matter with field consultant and shut down to wait on research, there may be a tubing anchor left in hole. SDFWE

NOTE: After going through records it appears that there is approximately 22 joints and a TAC that is in the hole along with rods. The TAC appearantly was stuck in the hole and the tubing cut off.

BLM was notified and a request to plug from our tag point was approved. We will pump approximately 100 sx @ 6336', WOC and tag and then continue plugging up the hole.



12/18/2023 The hole remained full over the weekend. RIH to 6338' and pump 140 sx class C plug. Pull up to 4850' and reverse out cement. WOC and tag at 5100'. Load hole and test casing. Casing is leaking 1.5 bbls/min @ 300 psi. POH 79 and prep to hunt for hole tomorrow.

12/19/2023 RIH w/ packer to test casing. Had communication with 8 5/8" starting below 1390'. RIH and tag plug and start testing on the way up. There is still injection above the plug at 5100'. BLM was called and orders given to pump 25 sx class C at 5100'. Pump 25 sx class C on top of tagged plug at 5100'. Pull up to 3338' and WOC. Set packer and pump down tubing with good casing test from 1338 to top of plug. RIH and tag plug at 4896'.



12/20/2023 Pull up testing casing, isolate hole between 1390 and 1408', Hole leaking off 60 psi/min. Pull up and set packer w/ bottom of tailpipe at 4288. Perforate 4832'. Squeeze 88 sx class C cement through perforations with good circulation. Displace plug and SI w/ 300 psi. SDFN

12/21/2023 Unseat packer and tag plug @ 4450'. Pull up and perforate 1460'. Set packer and establish good circulation. Pump 71 sx class c cement through perforations. WOC and tag at 1154'. Pull up and perforate 200'. RD floor and remove BOP Circulate hole w/ 60 sx class C cement from surface to 200'. SD for Christmas.

Well Bore Diagram Worksheet

Operataor: Harvard Petroleum Co.
Well Name: Todd 27K Fed 11
API # 30-015-34431
Location: 27, 23S, 31E

Date Spud: 2/9/2006
Date Complete: 5/12/2006

Proposed Plugs

100 sx class C @ 200'
Surface to 200'
Perf 200'



17.5" Hole

400 sx class C @ 1984'
822 tagged to 1984
Perf 1984'



13 3/8" 48# @ 884
870 sx Circ.

400 sx class C @ 3146'
1984 tagged to 3146
Perf 3146'



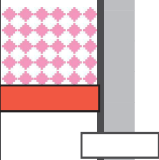
8 5/8" 32# @ 4258'
1400 sx, Circ.

400 sx class C @ 4308'
3146 tagged to 4308
Perf 4308'



Formation	Top
Rustler	526
Solado	892
TOC 5440 (CBL) Lamar	4273
Delaware	
Bell Canyon	4304
Cherry Can	5205
Brushy Draw	5823
Bone Springs	8122

35' or 25 sx class H cement
CIBP @ 6962'



Perfs: 7012-7023, 7191-7202
Perfs: 7741-7756, 8095-8111

PBTD 8150
5 1/2" 17# @ 8200'
1380 sx

TD 8200

Harvard Petroleum / Buckhorn

Well Name	Lonecat Fed 1	
Vendor	Service	Total Cost
		\$86,552
Permian 5	Plugging Unit	57000
	Workstring Rental	0
WRH	Reverse Unit	12500
Toltec Energy, LLC	Supervision and Oversight	6032
C&C	Rental tanks	2140
APSI	Water Hauling	0
BC Rental	Porta Poty/Trash Trailer, lightplant	680
Lystra	Water Hauling	8200
		0
		0
		0
		0
		0
		0
		0
		0
	Total Estimated Cost	86552

Estimated Costs

Daily Costs							
Day	0	1	2	3	4	5	6
Date	12/10/2023	12/11/2023	12/12/2023	12/13/2023	12/14/2023	12/15/2023	12/18/2023
Daily Est	0	4066	6245	13045	8916	4130	1845
Cum Est	0	4066	10311	23356	32272	36402	38247
			4000	4000	4000	2500	
				7000	4000	1500	
		786	915	915	786		915
		1500	80	80	80	80	80
		280	50	50	50	50	50
		1500	1200	1000			800

7	8	9	10	11
12/19/2023	12/20/2023	12/21/2023		
5245	830	42230		
43492	44322	86552		
3500		39000		
915	700	100		
80	80	80		
50	50	50		
700		3000		

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
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OMB No. 1004-0137
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SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator **HARVARD PETROLEUM COMPANY, LLC**3a. Address **P.O. BOX 936, 200 E. SECOND
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(575) 623-15814. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 27 T23S R31E 1830 FSL 1980 FWL

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After plugging, casing will be cut off at least 3' below ground level and a plate welded on containing required well information.

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JASON HARMSTitle
PETROLEUM ENGINEER

Signature



Date

03/04/2025**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

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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.

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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.

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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.

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Response to this request is mandatory.

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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. **NM-041822-A**
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 **HARVARD PETROLEUM COMPANY, LLC**

3a. Address **P.O. BOX 936, 200 E. SECOND
ROSWELL, NM 88202**

3b. Phone No. (include area code)
(575) 623-1581

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

8. Well Name and No. **Todd 27K Federal 11**

9. API Well No. **30-015-34431**

10. Field and Pool or Exploratory Area
Ingle Wells, Delaware

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 27 T23S R31E 1830 FSL 1980 FWL

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	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ 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 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 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 detennined that the site is ready for final inspection.)

Harvard Petroleum proposes to plug this well beginning 6/1/2025 as follows:

Set CIBP @ 6962'. Dump bail 35' or 25 sx of Class H cement on top of CIBP.

Circulate hole w/plug mud (9.5# 25 sx/100 bbls) and test casing 500 psi for 30 minutes. **Please run CBL/ send existing CBL to BLM. Please contact BLM and verify TOC before proceeding.**

Perforate and pump 400 sx Class C @ ~~4398'~~ 3146' - ~~4308'~~; WOC and Tag. **4354' to 3146'. Including Delaware top plug**

Perforate and pump 400 sx Class C @ 3146'; 1984' - 3146'; WOC and Tag.

Perforate and pump 400 sx Class C @ 1984'; 822' - 1984'; WOC and Tag to cover whole salt interval due to potash area.

Perforate and pump 100 sx Class C @ 200'; Surface - 200'.

After plugging, casing will be cut off at least 3' below ground level and a plate welded on containing required well information.

KEITH IMMATTY Digitally signed by KEITH IMMATTY
Date: 2025.04.29 11:07:53 -06'00'

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

Title
PETROLEUM ENGINEER

Signature



Date

03/04/2025

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.

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Well Bore Diagram Worksheet

Operataor: Harvard Petroleum Co.

Well Name: Todd 27 K Fed 11

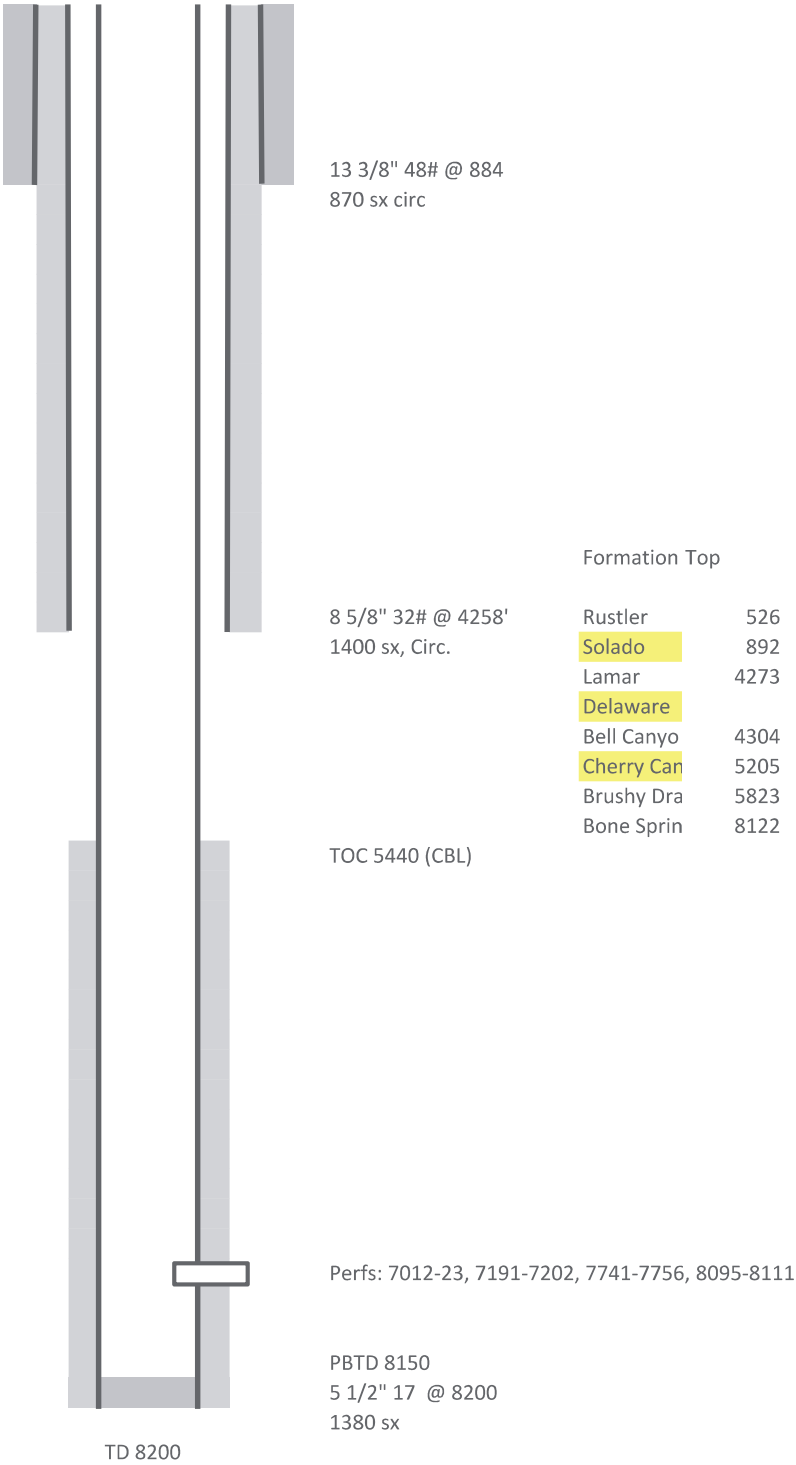
API # 30-015-34431

Location: 27, 23S, 31E

Date Spud: 2/9/2006

Date Complete: 5/12/2006

Current Wellbore



Well Bore Diagram Worksheet

Operataor: Harvard Petroleum Co.
Well Name: Todd 27K Fed 11
API # 30-015-34431
Location: 27, 23S, 31E

Date Spud: 2/9/2006
Date Complete: 5/12/2006

Proposed Plugs

100 sx class C @ 200'
Surface to 200'
Perf 200'

17.5" Hole

400 sx class C @ 1984'
822 tagged to 1984
Perf 1984'

13 3/8" 48# @ 884
870 sx Circ.

400 sx class C @ 3146'
1984 tagged to 3146
Perf 3146'

8 5/8" 32# @ 4258'
1400 sx, Circ.

400 sx class C @ 4308'
3146 tagged to 4354
Perf 4354'

Formation	Top
Rustler	526
Solado	892
TOC 5440 (CBL) Lamar	4273
Delaware	
Bell Canyon	4304
Cherry Can	5205
Brushy Draw	5823
Bone Springs	8122

35' or 25 sx class H cement
CIBP @ 6962'

Perfs: 7012-7023, 7191-7202
Perfs: 7741-7756, 8095-8111

PBTD 8150
5 1/2" 17# @ 8200'
1380 sx

TD 8200

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 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; Lea County, call 575-689-5981. For wells in Eddy County, please email notifications to: BLM_NM_CFO_PluggingNotifications@BLM.GOV. The Eddy County inspector on call phone, 575-361-2822, will remain active as a secondary contact.

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 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 for Class C or accelerated cement (calcium chloride) and 6 hours for Class H. Tagging the plug means running in the hole with a string of tubing or drill pipe and placing sufficient weight on the plug to ensure its integrity. Other methods of tagging the plug may be approved by the BLM authorized officer or BLM field representative.

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.

Fluid used to mix the cement in R111Q shall be saturated with the salts common to the section penetrated, and in suitable proportions but not less than 1% and not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

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 *BY PHONE* (numbers listed in 2. Notifications) 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 (14) calendar days of the well being plugged. If the cut off cannot be done by the 14th 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. The following information shall be permanently inscribed on the plate: well name and number, name of 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).

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 1st through June 15th 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



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

Doris Lauger Martinez
Environmental Protection Specialist
575-234-5926

Jaden Johnston
Environmental Protection Asst. (Intern)
575-234-6252

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 459593

CONDITIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 459593
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	Run CBL from 6962' to Surface	5/8/2025
gcordero	Perforate and squeeze cement 5255' - 5055' - WOC & Tag - T Cherry	5/8/2025
gcordero	A Cement Bond Log (CBL) is required to be submitted to electronic permitting.	5/8/2025
gcordero	Submit Cement Bond Logs (CBL) prior to submittal of C-103P.	5/8/2025