U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Report 06/09/2023

Well Name: TODD 15H FEDERAL

Well Location: T23S / R31E / SEC 15 /

LOT H / SENE /

County or Parish/State: EDDY /

Well Number: 8 Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM0405444

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001537649

Well Status: Oil Well Shut In

Operator: HARVARD

PETROLEUM COMPANY LLC

Accepted for record –NMOCD gc10/31/2023

Digitally signed by LONG

LONG VO

VO Date: 2023.06.21 09:53:54 -05'00'

Notice of Intent

Sundry ID: 2728764

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Time Sundry Submitted: 02:32

Date Sundry Submitted: 05/02/2023

Date proposed operation will begin: 05/02/2023

Procedure Description: Harvard is planning on performing P&A procedure. Please see attachment.

Surface Disturbance

Is any additional surface disturbance proposed?: No

Approval Subject to **General Requirements and**

Special Stipulations

NOI Attachments

Procedure Description

3160_5_Todd_15H_Fed_8_signed_20230502143212.pdf

Received by OCD: WAR WARD 3T BDA: 16TA & BERAL

Well Location: T23S / R31E / SEC 15 / LOT H / SENE /

County or Parish/State: EDDY /

Page 2 of 14

Well Number: 8

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Well Status: Oil Well Shut In

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: RONI KIDD Signed on: MAY 02, 2023 02:32 PM

Name: HARVARD PETROLEUM COMPANY LLC

Title: Business Manager Street Address: PO BOX 936

City: ROSWELL State: NM

Phone: (575) 390-2069

Email address: RKIDD@HPCNM.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires: December 31, 2024

	ARTIMENT OF THE	INILITION		and the second second	
BUR	EAU OF LAND MAN	NAGEMENT		5. Lease Serial No. NN	1040544
Do not use this t		ORTS ON WELLS to drill or to re-enter an APD) for such proposals	i.	6. If Indian, Allottee or	Tribe Name
SUBMIT IN	TRIPLICATE - Other instr	ructions on page 2		7. If Unit of CA/Agreer	ment, Name and/or No.
1. Type of Well					
Oil Well Gas W				8. Well Name and No.	Todd 15H Fed 8
2. Name of Operator Harvard Petrole	um Company		100	9. API Well No. 30-015	5-37649
3a. Address PO Box 936, Roswell, N		3b. Phone No. <i>(include area code</i> (575) 623-1581	?)	10. Field and Pool or Edingle Wells, Delawa	xploratory Area
4. Location of Well (Footage, Sec., T., F.	L,M, or Survey Description)		11. Country or Parish, S	State
1650 FNL & 660 FEL Section 15,	T23S, R31E			Eddy, New Mexico	
12. CHE	CK THE APPROPRIATE E	BOX(ES) TO INDICATE NATURE	OF NO	TICE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION		TY	PE OF A	CTION	
Notice of Intent Subsequent Report	Acidize Alter Casing Casing Repair	Deepen Hydraulic Fracturing New Construction	Re	oduction (Start/Resume) clamation complete	Water Shut-Off Well Integrity Other
	Change Plans	✓ Plug and Abandon	Ter	mporarily Abandon	
Final Abandonment Notice	Convert to Injection	n Plug Back	Wa	ater Disposal	
the Bond under which the work will completion of the involved operation	Ily or recomplete horizontal I be perfonned or provide th ons. If the operation results i tices must be filed only afte	lly, give subsurface locations and me se Bond No. on file with BLM/BIA in a multiple completion or recomp rall requirements, including reclan	easured a Required letion in a	and true vertical depths of a subsequent reports must a new interval, a Form 316	all pertinent markers and zones. Attach
MIRU Pulling Unit. POH w/ roo RIh and spot 25 sx class H @ 8 Set CIBP @ 7264' and cap witl Load hole with plugging mud a	3324'; 8324' tO 8141' - Boo h 35' bailed on top of CIBI	P	a 1,548		
Spot 92 sx class C @ 4668'; 46 Pefr and squeeze 915 sx class Surface to 200' - Surface plug	68' tO 3730' WOC and tag C @ 3730'; 3730' tO surfac Verif y at surface (In 370 s	g - 8 5/8" DV tool and 8 5/8" casi ce - 8 5/8" Top of Salt and 13 3/8 xs/Out 545 sxs)	ng shoe 3" casing	shoe	
After plugging operations the cinstalled. The location will then			vill be w	elded on top of the casir	ngs and a dry hole marker will be
Attachments: Current Wellborn	e Diagram, Proposed We	Ilbore Diagram			

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) Phelps White	Consultant Title			
Signature	Date	04/30/2023	- 525 A	
THE SPACE FOR FEDE	ERAL OR STATE OF	CE USE		
Approved by				
	Title	Date		
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject leads which would entitle the applicant to conduct operations thereon.	t or asse Office			

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

(Instructions on page 2)

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 <u>ninety (90)</u> 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. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.
- 3. <u>Blowout Preventers</u>: 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. <u>Mud Requirement:</u> 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. <u>Cement Requirement</u>: 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 10th 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. <u>Subsequent Plugging Reporting:</u> 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. <u>Trash:</u> 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 predisturbance 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 Sundry ID 2728764

Sundry ID	2728764						
Diver Town	T	Dettern		Tom	Sacks	Cement Class	Notes
Plug Type	Тор	Bottom	Length	Tag	Sacks	Class	Notes
Surface Plug	0.00	100.00	100.00	Tag/Verify			
				If solid base no need to Tag (CIBP present and/or Mechanic al Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open			
Fresh Water @ 713	655.87	763.00	107.13	Perforatio ns			
Shoe Plug	704.38	812.00	107.62	Tag/Verify			
Top of Salt @ 1011	950.89	1061.00	110.11	Tag/Verify			Perforate and
Base of Salt @ 4109 Shoe Plug	4017.91 4246.60			Tag/Verify Tag/Verify	915.00	С	squeeze form 3730' to surface. Verify at surface. (In 370 sxs/Out 545 sxs)
Silve Flug	4240.00	4390.00	143.40	rag/verily			
Delaware @ 4398	4304.02	4448.00		If solid base no need to Tag (CIBP present and/or Mechanic al Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio ns			
							Spot cement from 4668' to 3730'.
DV tool plug	4521.82	4668.00	146.18	Tag/Verify	92.00	С	WOC and Tag.

CIBP Plug	7229.00	7264.00	35.00	If solid base no need to Tag (CIBP present and/or Mechanic al Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio ns	4.00	С	Set CIBP at 7264'. Dump bail 35' on top. Leak Test CIBP.
Perforations Plug (If No CIBP)	7280.00	8258.00	978.00	Tag/Verify			
				If solid base no need to Tag (CIBP present and/or Mechanic al Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio			Tag PBTD and spot cement from 8324' to 8141'. WOC and
Bonesprings @ 8274	8141.26		182.74		25.00	Н	Tag.
NA	0.00	0.00	0.00				

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.

Class H >7500'

Class C<7500'

Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

Medium, Secretary: Top of salt to surface If no salt take the deepest fresh water or Karst Depth

High, Critical: Bottom of Karst to surface or Deepest fresh water, whichever is greater

R111P: 50 Feet from Base of Salt to surface.

Class C: 1.32 ft^3/sx Class H: 1.06 ft^3/sx

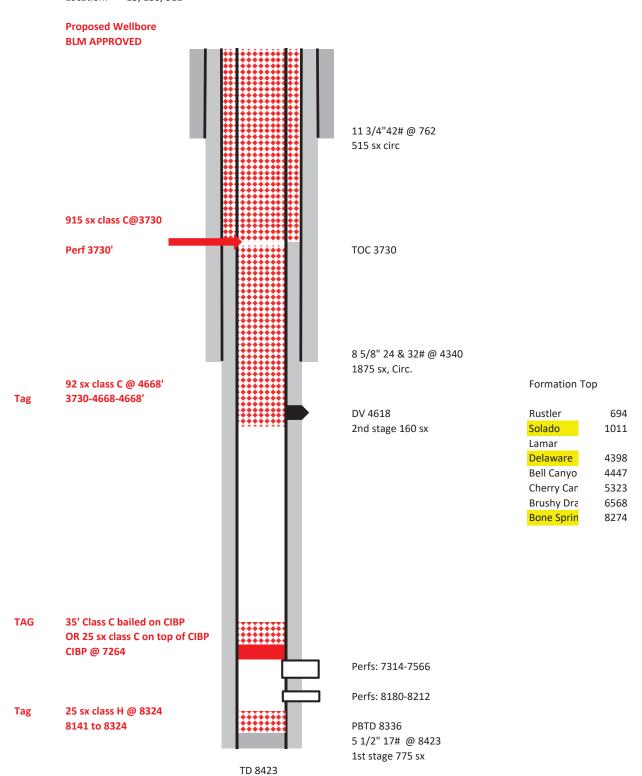
Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement	R111-P	50 Fe	50 Feet from Base of Salt to surface			
Shoe @ Shoe @	762.00 4340.00					
Shoe @	8423.00	тос @	3730.00			
Perforatons Top @	7330.00	Perforations Bottom @	8208.00			
DV Tool @	4618.00	CIBP @	7264.00			

Well Bore Diagram Worksheet

Operataor:Harvard Petroleum Co.Date Spud:3/24/2010Well Name:Todd 15 H Fed 8Date Complete:6/13/2010API #30-015-37649

Location: 15, 23S, 31E

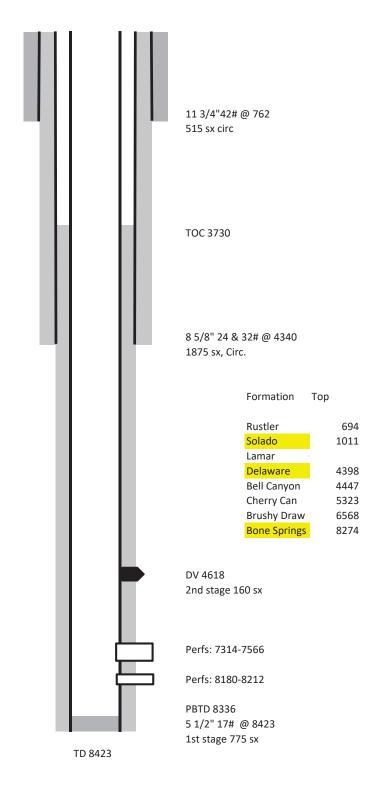


Well Bore Diagram Worksheet

Operataor: Harvard Petroleum Co.
Well Name: Todd 15 H Fed 8
API # 30-015-37649
Location: 15, 23S, 31E

Date Spud: 3/24/2010 Date Complete: 6/13/2010

Current Wellbore



Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

No. 1004-0137 Expires: December 31, 2024

6. If Indian, Allottee or Tribe Name

Lease Serial No.

NM040544

FORM APPROVEDOMB

Well Integrity

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

apandoned well. Use Fol	rm 3100-3 (AF	ior such proposais.		
SUBMIT IN TRIPLICA	7. If Unit of CA/Agreement, Name and/or No.			
1. Type of Well				
✓ Oil Well Gas Well	8. Well Name and No. Todd 15H Fed 8			
2. Name of Operator Harvard Petroleum Comp	pany		9. API Well No. 30-015-37649	
3a. Address PO Box 936, Roswell, NM 8820	T.	Bb. Phone No. (include area code)	10. Field and Pool or Exploratory Area	
1 0 20x 000, Noowell, 1411 0020		(575) 623-1581	Ingle Wells, Delaware	
4. Location of Well (Footage, Sec., T.,R,M, or S	urvey Description)		11. Country or Parish, State	
1650 FNL & 660 FEL Section 15, T23S, R3	31E		Eddy, New Mexico	
12. CHECK THE	APPROPRIATE BO	X(ES) TO INDICATE NATURE OF N	OTICE, REPORT OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF	ACTION	
✓ Notice of Intent	cidize	Deepen 1	Production (Start/Resume) Water Shut-Off	

Subsequent Report	Casing Repair	New Construction	Recomplete	Other				
Suosequent report	Change Plans	✓ Plug and Abandon	Temporarily Abandon					
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal					
	lly or recomplete horizontally, g	give subsurface locations and	measured and true vertical dep	ths of all pertinent markers and zone	es. 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 in the completion of the involved operations.								

completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site

Hydraulic Fracturing

Harvard Petroleum proposes to plug the well as follows:

is ready for final inspection.)

MIRU Pulling Unit. POH w/ rods and tubing RIh and spot 25 sx class H @ 8324'; 8324' to 8141' - Bone Springs WOC and Tag. Set CIBP @ 7264' and cap with 35' bailed on top of CIBP. Load hole with plugging mud and test casing to 500 psi.

Alter Casing

Spot 92 sx class C @ 4668' tO 3730' WOC and tag - 8 5/8" DV tool and 8 5/8" casing shoe Pefr and squeeze 915 sx class C @ 3730' tO surface - 8 5/8" Top of Salt and 13 3/8" casing shoe Surface to 200' - Surface plug Verify at surface (In 370 sxs/Out 545 sxs)

After plugging operations the casing will be cut off 3' below ground level, a steel plate will be welded on top of the casings and a dry hole marker will be installed. The location will then be cleaned and re-mediated to BLM standards.

Attachments: Current Wellbore Diagram, Proposed Wellbore Diagram

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) Phelps White	Consultant Title			
Signature	Date	04/30/2023		
THE SPACE FOR FEDE	ERAL OR STATE OF	CE USE		
Approved by				
	Title	Date		
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lead which would entitle the applicant to conduct operations thereon.	t or asse Office			

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(Instructions on page 2)

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

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 280166

CONDITIONS

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	280166
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	10/31/2023