

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

Well Number: 01

Sundry Print Report of 25
02/14/2024

Well Name: TOMCAT 18 FED Well Location: T23S / R32E / SEC 18 / County or Parish/State: LEA /

NENE /

Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM86151 Unit or CA Name: Unit or CA Number:

US Well Number: 3002533364 Well Status: Producing Oil Well Operator: HARVARD

PETROLEUM COMPANY LLC

Notice of Intent

Sundry ID: 2767447

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 12/27/2023 Time Sundry Submitted: 12:30

Date proposed operation will begin: 12/27/2023

Procedure Description: See attached NOI to P&A

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Tomcat_1_1_NOI_to_P_A___fr_PW_20231227123010.pdf

Released to Imaging: 3/19/2025 8:09:55 AM

well Name: TOMCAT 18 FED

Well Location: T23S / R32E / SEC 18 / County or Parish/State: LEA

NENE /

Well Number: 01 Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM86151 Unit or CA Name: Unit or CA Number:

US Well Number: 3002533364 Well Status: Producing Oil Well Operator: HARVARD

PETROLEUM COMPANY LLC

Conditions of Approval

Specialist Review

Tomcat_18_Fed_1_Sundry_ID_2767447_P_A_20240214085120.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: DEC 27, 2023 12:30 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:

BLM Point of Contact

BLM POC Name: LONG VO **BLM POC Title:** Petroleum Engineer

BLM POC Phone: 5759885402 BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved **Disposition Date:** 02/14/2024

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUREAU OF LAND MANAGEMENT					NMNI	M86151		
Do not use this f	IOTICES AND REPO Form for proposals in TUSE Form 3160-3 (A	<u> </u>	ottee or Tri	be Name				
	TRIPLICATE - Other instr		/Agreemer	it, Name and/or No.				
1. Type of Well	TRIPLICATE - Other Instit	uctions on page 2						
✓ Oil Well Gas Well Other				8. Well Name ar	8. Well Name and No. TOMCAT 18 FED/01			
2. Name of Operator HARVARD PETROLEUM COMPANY LLC			9. API Well No.	3002533	364			
3a. Address PO BOX 936, ROSWELL, NM 882020936 3b. Phone No. <i>(include area co.</i> (575) 623-1581			clude area code	2) 10. Field and Po	10. Field and Pool or Exploratory Area null/SAND DUNES			
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 18/T23S/R32E/NMP			11. Country or F LEA/NM	arish, Stat	е			
12. CHE	CK THE APPROPRIATE B	OX(ES) TO INDIC	CATE NATURE	E OF NOTICE, REPORT O	R OTHER	DATA		
TYPE OF SUBMISSION			TY	PE OF ACTION				
Notice of Intent Alter Casing Hydrau		_	ic Fracturing	Production (Start/Res Reclamation Recomplete	ume) [Water Shut-Off Well Integrity Other		
Subsequent Report	Casing Repair Change Plans		d Abandon	Temporarily Abandon		_ Other		
Final Abandonment Notice	Convert to Injection	Plug Ba	ck	Water Disposal				
is ready for final inspection.) See attached NOI to P&A								
14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) RONI KIDD / Ph: (575) 390-2069			Business Manager Title					
Signature (Electronic Submission)			Date 12/27/2023					
	THE SPACE	FOR FEDER	RAL OR ST	ATE OFICE USE				
Approved by				· · · · · · · · · · · · · · · · · · ·		00/4//0001		
LONG VO / Ph: (575) 988-5402 / A	approved		Title	oleum Engineer	Date	02/14/2024		
Conditions of approval, if any, are attact certify that the applicant holds legal or ewhich would entitle the applicant to con	equitable title to those rights			RLSBAD				
Title 18 U.S.C Section 1001 and Title 43				ly and willfully to make to	any depart	ment or agency of the United States		

(Instructions on page 2)

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

(Form 3160-5, page 2)

Additional Information

Location of Well

 $0.\ SHL:\ NENE\ /\ 660\ FNL\ /\ 990\ FEL\ /\ TWSP:\ 23S\ /\ RANGE:\ 32E\ /\ SECTION:\ 18\ /\ LAT:\ 0.0\ /\ LONG:\ 0.0\ (\ TVD:\ 0\ feet,\ MD:\ 0\ feet)$

BHL: NENE / 660 FNL / 990 FEL / 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 MANAGEMENT**

	FORM APPROVED OMB No. 1004-0137 Expires: December 31, 2024	
5. Lease Serial No.	NM-86151	

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name

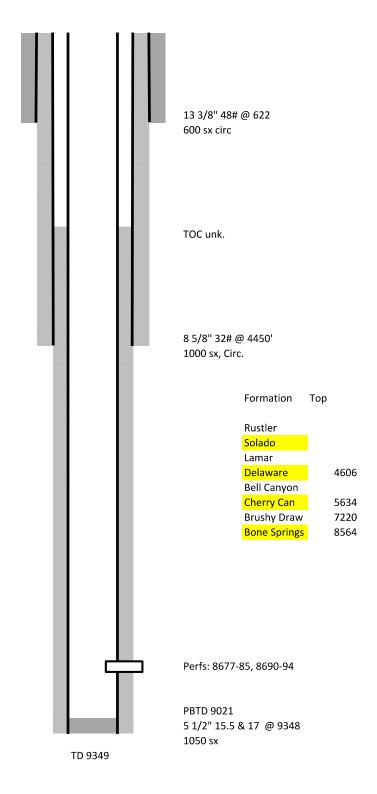
	Use Form 3160-3 (A						
SUBMIT IN	TRIPLICATE - Other instr	7. If Unit of CA/Agreement, Name and/or No.					
1. Type of Well							
✓ Oil Well Gas V	Well Other				8. Well Name and No. Tomcat 18 Fed #1		
2. Name of Operator Harvard Petroleum Company, LLC				9. API Well No. 30-02	5-33364		
3a. Address PO Box 936 3b. Phone No.			ude area cod	le)	10. Field and Pool or E		
Roswell, NM 88202 (575) 623-1580					Sand Dunes Bone S	Spring	
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)				11. Country or Parish,	State		
660 FNL & 990 FEL, Sec 18, T23	S, R32E				Lea, NM		
12. CHE	ECK THE APPROPRIATE B	BOX(ES) TO INDICA	TE NATUR	E OF NOTI	CE, REPORT OR OTH	ER DATA	
TYPE OF SUBMISSION			TY	PE OF AC	TION		
✓ Notice of Intent	Acidize	Deepen		Prod	uction (Start/Resume)	Water Shut-Off	
	Alter Casing	Hydraulic Hydraulic	Fracturing	Recl	amation	Well Integrity	
Subsequent Report	Casing Repair	New Cons	struction	Reco	omplete	Other	
	Change Plans	✓ Plug and A	Abandon	Tem	porarily Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back		Wate	er Disposal		
	to plug this well as follows: g @ 8601'; 8361-8601 Bo sx of Class H on top. 5# 25 sx/100 bbls) and tes 5444-5684 State required 4320-4656' WOC and Tag C @ 672'; 572-672 WOC s C @ 200'; Surface to 200	r all requirements, income Springs Top st casing 500 psi for I Cherry Canyon plug cover top of delay and tag 13 3/8" should be seen to the seen top of delay and tag 13 3/8" should be seen top of delay and tag 13 3/8" should be seen to the seen top of delay and tag 13 3/8" should be seen to the	30 minutes g vare and 8	mation, hav	e been completed and th	60-4 must be filed once testing has been to operator has detennined that the site attion.	
14. I hereby certify that the foregoing is	s true and correct. Name (Pr	rinted/Typed)	Consulta	ınt			
Phelps White		Titl					
Signature Date				12/26/20	023		
	THE SPACE	E FOR FEDERA	AL OR S	TATE OF	FICE USE		
Approved by			T				
Approved by							
			Title		JE	Date	
Conditions of approval, if any, are attac certify that the applicant holds legal or which would entitle the applicant to co	equitable title to those rights		Office				
Title 18 U.S.C Section 1001 and Title any false, fictitious or fraudulent states					Ifully to make to any de	partment or agency of the United States	
(Instructions on page 2)	<u> </u>						

Well Bore Diagram Worksheet

Operataor: Harvard Petroleum Co. Date Spud:
Well Name: Tomcat 18 Fed 1 Date Complete:
API # 30-025-33364

Location: 18, 23S, 32E

Current Wellbore



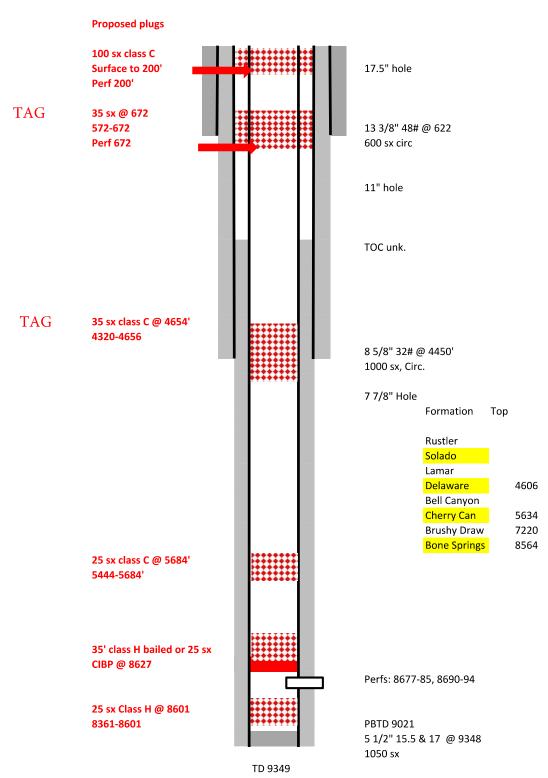
5/9/2096

6/8/2096

Well Bore Diagram Worksheet

Operataor: Harvard Petroleum Co.
Well Name: Tomcat 18 Fed 1
API # 30-025-33364
Location: 18, 23S, 32E

Date Spud: 5/9/2096 Date Complete: 6/8/2096



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Report

Well Name: TOMCAT 18 FED

Well Location: T23S / R32E / SEC 18 /

NENE /

County or Parish/State: LEA /

Well Number: 01

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM86151

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002533364

Well Status: Producing Oil Well

Operator: HARVARD PETROLEUM COMPANY LLC

LONG VO Date: 2024.02.13 16:08:40

Digitally signed by LONG

Sundry ID: 2767447

Notice of Intent

Type of Submission: Notice of Intent

Date Sundry Submitted: 12/27/2023

Date proposed operation will begin: 12/27/2023

Procedure Description: See attached NOI to P&A

Type of Action: Plug and Abandonment

Time Sundry Submitted: 12:30

Approval Subject to General Requirements

and Special Stipulations Attached

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Tomcat_1_1_NOI_to_P_A___fr_PW_20231227123010.pdf

Received by OCD: Warana 3.705 MEAPM FED

Well Location: T23S / R32E / SEC 18 / NENE /

NM

Л

Well Number: 01

Type of Well: OIL WELL

Allottee or Tribe Name:

County or Parish/State: LEA /

Page 10 of 25

Lease Number: NMNM86151

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002533364

Well Status: Producing Oil Well

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: DEC 27, 2023 12:30 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: October 31, 202

DEI	AKTMENT OF THE	INTERIOR			2	p
BUR	5. Lease Serial No.	IMNM86151				
SUNDRY N Do not use this a bandoned well.	6. If Indian, Allottee or Tribe Name					
SUBMIT IN	TRIPLICATE - Other instr	ructions on page	e 2		7. If Unit of CA/Agre	ement, Name and/or No.
1. Type of Well					8 Well Name and No	
Oil Well Gas V					O A DI W-II N-	TOMCAT 18 FED/01
2. Name of Operator HARVARD PET					9. API Well No. 3002	
3a. Address PO BOX 936, ROSWELL, NM 882020936 3b. Phone No. (include area code) (575) 623-1581					10. Field and Pool or null/SAND DUNES	• •
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 18/T23S/R32E/NMP					11. Country or Parish, LEA/NM	, State
12. CHE	ECK THE APPROPRIATE E	BOX(ES) TO INI	DICATE NATURE	E OF NOTI	CE, REPORT OR OTI	HER DATA
TYPE OF SUBMISSION			TY	PE OF ACT	ΓΙΟΝ	
Notice of Intent	Acidize Alter Casing	=	aulic Fracturing	Recla	uction (Start/Resume) amation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair Change Plans		Construction and Abandon	=	mplete oorarily Abandon	Other
Final Abandonment Notice	Convert to Injection			=	r Disposal	
is ready for final inspection.) See attached NOI to P&A			Approval	Subject	to General Re lations Attache	
14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) RONI KIDD / Ph: (575) 390-2069 Business Manager			Manager			
Signature (Electronic Submission) Date				12/27/2	2023	
	THE SPACE	E FOR FEDI	ERAL OR ST	ATE OF	ICE USE	
Approved by			Title			Date
Conditions of approval, if any, are attac certify that the applicant holds legal or which would entitle the applicant to con	equitable title to those rights					
Title 18 U.S.C Section 1001 and Title 4	3 U.S.C Section 1212, make	e it a crime for an	y person knowing	ly and will	fully to make to any de	epartment or agency of the United Stat

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 State any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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NOTICES

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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.

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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

(Form 3160-5, page 2)

Additional Information

Location of Well

 $0.\ SHL:\ NENE\ /\ 660\ FNL\ /\ 990\ FEL\ /\ TWSP:\ 23S\ /\ RANGE:\ 32E\ /\ SECTION:\ 18\ /\ LAT:\ 0.0\ /\ LONG:\ 0.0\ (\ TVD:\ 0\ feet,\ MD:\ 0\ feet)$

BHL: NENE / 660 FNL / 990 FEL / 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

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

BUREAU OF LA	S. Lease Schai No. N	M-86151			
SUNDRY NOTICES A Do not use this form for pro abandoned well. Use Form 3		6. If Indian, Allottee or Tribe Name			
SUBMIT IN TRIPLICATE -	Other instructions on page	e 2	7. If Unit of CA/Agree	ement, Name and/or No.	
1. Type of Well		4	m=		
✓ Oil Well Gas Well	Other		8. Well Name and No.	Tomcat 18 Fed #1	
2. Name of Operator Harvard Petroleum Company,	LLC		9. API Well No. 30-02	25-33364	
3a. Address PO Box 936		(include area cod			
Roswell, NM 88202	(575) 623-158	30	Sand Dunes Bone	Spring	
4. Location of Well (Footage, Sec., T.,R.,M., or Survey	Description)		11. Country or Parish,	State	
660 FNL & 990 FEL, Sec 18, T23S, R32E			Lea, NM		
12. CHECK THE APPR	OPRIATE BOX(ES) TO INI	DICATE NATUR	E OF NOTICE, REPORT OR OTH	IER DATA	
TYPE OF SUBMISSION		TY	PE OF ACTION		
▼ Notice of Intent			Production (Start/Resume)	Water Shut-Off	
Alter C		aulic Fracturing	Reclamation	Well Integrity	
Subsequent Report Casing Change	• =	Construction and Abandon	Recomplete Temporarily Abandon	Other	
		Back	Water Disposal		
completed. Final Abandonment Notices must be fil ready for final inspection.) Harvard Petroleum Proposes to plug this well Set CIBP @ 8627'. RIH and set 35 sx class H. Circulate hole w/ plug mud (9.5# 25 sx/100 b) Run a CBL log Pump 25 sx class C @ 5684; 5444-5684 Sta Pump 46 sx class C @ 4700'; 4700' to 4253' \) Perf & Squeeze 28 sxs C @ 1253' to 1140'. V Perf and squeeze 35 sx class C @ 672'; 565' Perf and squeeze 100 sx class C @ 200'; Su After plugging, the casing will be cut off at lease Attachments: Current Well Bore Diagram Proposed Well Bore Diagram 14. I hereby certify that the foregoing is true and correct	I as follows: I plug @ 8627'; 8627' to 8: bls) and test casing 500 ps ate required Cherry Canyo WOC and Tag cover top o WOC & tg (top of St.) -672 WOC and tag 13 3/8 rface to 200' ast 3' below ground level a	349' Bone Sprirsi for 30 minutes in plug f delaware and	Prescribed ags Top 8 5/8" shoe & B. St.	Conditions	
Phelps White		Consulta Title	nt		
1 200	•	THIC			
Signature			12/26/2	023	
ТН	IE SPACE FOR FED	ERAL OR S	TATE OFICE USE		
Approved by	315-A	Title		Date	
Conditions of approval, if any, are attached. Approval of certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations.	those rights in the subject le				
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section	n 1212, make it a crime for a	ny person knowin	gly and willfully to make to any de	epartment or agency of the United States	

(Instructions on page 2)

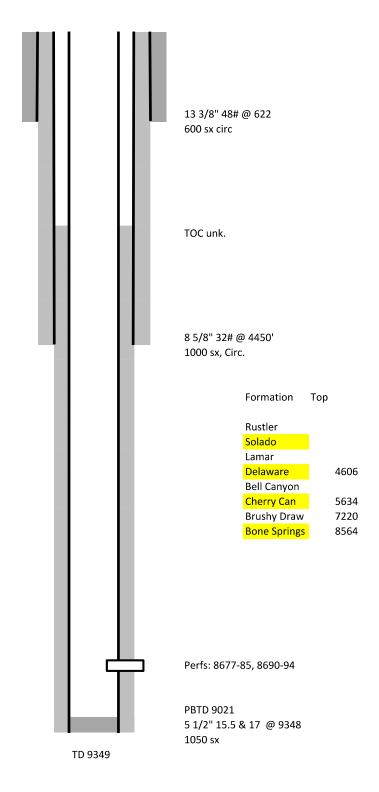
any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Well Bore Diagram Worksheet

Operataor: Harvard Petroleum Co.
Well Name: Tomcat 18 Fed 1
API # 30-025-33364

Location: 18, 23S, 32E

Current Wellbore



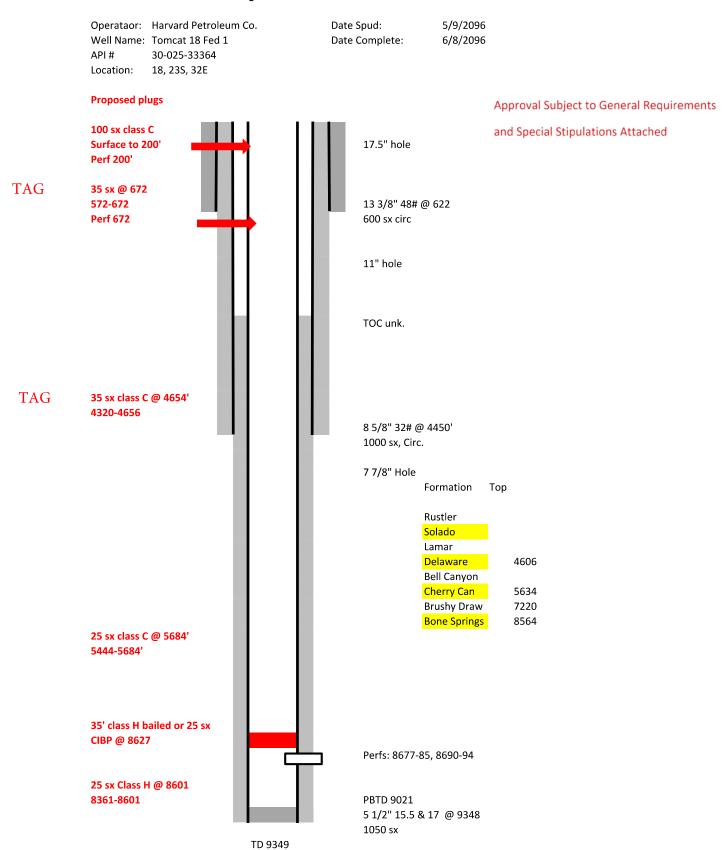
Date Spud:

Date Complete:

5/9/2096

6/8/2096

Well Bore Diagram Worksheet



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 BY PHONE (numbers listed under 2. Notification) 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. The following information shall be permanently inscribed on the plate: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

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

Doris Lauger Martinez Environmental Protection Specialist 575-234-5926

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

Sundry ID	2767447

Sunary ID	2/0/44/						
Plug Type	Тор	Bottom	Length	Tag	Sacks	Cement Class	Notes
Surface Plug	0.00	100.00	100.00	Tag/Verify	25.00	С	squeeze from 100' to surface. Verify at surface. (In 11/Out 14 sxs) Perforate and
13.375 inch- Shoe Plug	565.78	672.00	106.22	Tag/Verify	26.00	С	squeeze from 672' to 565'. WOC and Tag. (In 11 sxs/Out 15 sxs) Perforate and
Top of Salt @ 1203	1140.97	1253.00		Tag/Verify	28.00	С	squeeze from 1253' to 1140'. WOC and Tag. (In 12 sxs/Out 16 sxs)
Base of Salt @ 4347	4253.53	4397.00		Tag/Verify			
8.625 inch- Shoe Plug	4355.50	4500.00	144.50	Tag/Verify			
Delaware @ 4650	4553.50	4700.00		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	46.00	С	Spot cement from 4700' to 4253'. WOC and Tag.
	1000.00			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			Spot cement from
Spacer @ 5634	5527.66	5684.00	156.34		25.00	С	5684' to 5527'.
Bonesprings @ 8484	8349.16	8534.00	184.84	If solid			
Perforations Plug (If No CIBP)	8557.06	8744.00	186.94	Tag/Verify			

				If solid			
				base no			
				need to			
				Tag (CIBP			
				present			
				and/or			ļ
				Mechanic			
				al Integrity			
				Test), If			
				Perf &			
				Sqz then			
				Tag, Leak			
				Test all			
				CIBP if no			Set CIBP at 8627'.
				Open			Spot 35 sxs on top
				Perforatio			from 8627' to 8349'
CIBP Plug	8592.00	8627.00	35.00	ns	35.00	Н	Leak Test CIBP.
5.5 inch- Shoe Plug	9204.52	9398.00	193.48	Tag/Verify			

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 Requirement:	Low		
13.375 inch- Shoe Plug @ 8.625 inch- Shoe Plug @ 5.5 inch- Shoe Plug @	622.00 4450.00 9348.00	тос @	3407.00
Perforatons Top @	8677.00	Perforations	8694.00
		CIBP @	8627.00

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 438448

CONDITIONS

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	438448
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	Run CBL 8627' to Surface	3/14/2025
gcordero	A Cement Bond Log (CBL) is required to be submitted to electronic permitting.	3/14/2025
gcordero	Submit Cement Bond Logs (CBL) prior to submittal of C-103P.	3/14/2025