U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 03/17/2023
Well Name: PURE GOLD C-17	Well Location: T23S / R31E / SEC 17 / NWNE /	County or Parish/State: EDDY / NM
Well Number: 10	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM45235	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001527393	Well Status: Producing Oil Well	Operator: HARVARD PETROLEUM COMPANY LLC

Notice of Intent

Sundry ID: 2715559 Type of Submission: Notice of Intent Date Sundry Submitted: 02/14/2023 Date proposed operation will begin: 02/14/2023

Type of Action: Plug and Abandonment Time Sundry Submitted: 09:13

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

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

BLM_Sundry_PA_Pure_Gold_C17_Fed_10_20230214091308.pdf

Approval Subject to General Requirements and Special Stipulations Attached

Received by OCD: 4/21/2023 3:39:23 PM Well Name: PURE GOLD C-17	Well Location: T23S / R31E / SEC 17 / NWNE /	County or Parish/State: EDD ?? of I
Well Number: 10	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM45235	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001527393	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: FEB 14, 2023 09:12 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@HPCNM.COM

Field

Representative Name: Street Address: City: State: Phone: Email address:

Zip:

PLUG AND ABANDONMENT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Harvard Petroleum Company LLC		
LEASE NO.:	NMNM45235		
WELL NAME & NO.:	Pure Gold C-17 10		
US Well Number:	3001527393		
LOCATION:	Section 17, T.23 S., R.31 E., NMPM		
COUNTY:	Eddy County, New Mexico		
Sundry ID:	2715559		
Karst:	⊠Low □Medium □High □Critical		
Potash:	\boxtimes Secretary \square R111P		
Special Area:	⊠Prairie Chicken □Capitan Reef		

Harvard Petroleum proposes to plug the well as follows:

MIRU Pulling Unit. POH w/ rods and tubing

Set CIBP @ 7804' and cap with 35' bailed on top of CIBP OR 25 sx class H spotted on top of CIBP - Perfs

Load hole with plugging mud and test casing to 500 psi.

Spot cement from 6005' to 5845'. 25 sxs Class C. WOC and Tag.

Perf and squeeze 95 sx class C@ 4141';4141' to 3741', WOC and tag - Top Delaware and 8 5/8" casing shoe, Base of Salt. If there's no injection rate, perforates and squeeze again at 4132'. If no injection rate perforates and squeeze again at 3880'. Spot cement from 4141' to 3741'. WOC and Tag. (In 41 sxs/Out 54 sxs)

Perf and squeeze 172 sx class C@ 727'; 727' to surface. Verify at surface. - 8 5/8" Top of Salt and 13 3/8" casing shoe, fresh water, surface plug. (In 74 sxs/Out 98 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 remediated to BLM standards.

Attachments: Current Wellbore Diagram, Proposed Wellbore Diagram

Approval Subject to General Requirements and Special Stipulations Attached

- No more than 3000 feet between cement plugs in cased hole.
- Wait on Cement and Tag Top of Cement Requirement:

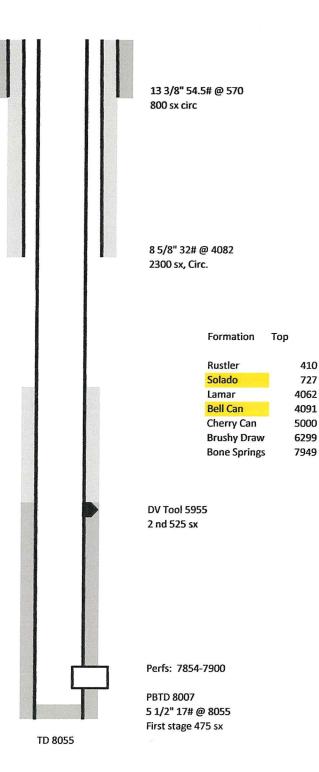
1. Shoe, Top of Salt, Base of Salt, DV tool, Perforate and Squeeze, Open Perforation.

2. Formation plug is optional if a solid base is established and confirmed.

Form 3160-5 (June 2019)				FORM APPROVED OMB No. 1004-0137 Expires: December 31, 2024				
	BUREAU OF LAND MANAGEMENT			5. Lease Serial No. NM 45235				
	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.			6. If Indian, Allottee or Tribe Name		с Name		
	SUBMIT IN	TRIPLICATE - Other instr	uctions on pa	ige 2		7. If Unit of CA/Agree	ment	, Name and/or No.
I. Type of Well						8. Well Name and No.	Pure	Gold C17 Federal 10
2. Name of Operat	^{or} Harvard Petrole	um Company				9. API Well No. 30-01	5-27	393
3a. Address PO E	Box 936, Roswell, M	NM 88202	3b. Phone No (575) 623-1	o. (include area cod 581	e)	 Field and Pool or E Los Medanos, Dela 	•	
4. Location of Wel	(Footage, Sec., T.,	R., M., or Survey Description		501		11. Country or Parish,		
	0 FEL Section 17,					Eddy, New Mexico		
	12. CHE	CK THE APPROPRIATE B	OX(ES) TO IN	NDICATE NATURI	E OF NOTI	CE, REPORT OR OTH	ER D	ATA
TYPE OF S	UBMISSION			TY	PE OF ACT	ION		
✓ Notice of In	tent	Acidize	Dee	epen	Produ	uction (Start/Resume)		Water Shut-Off
		Alter Casing		draulic Fracturing		mation		Well Integrity
Subsequent	Report	Casing Repair		w Construction g and Abandon		mplete orarily Abandon		Other
Final Aband	onment Notice	Convert to Injection		g Back	Ξ ·	Disposal		
Harvard Petr MIRU Pulling Set CIBP @ Load hole wi Perf and squ Perf and squ Perf and squ After pluggin installed. Th	is ready for final inspection.)Approval Subject toHarvard Petroleum proposes to plug the well as follows:Approval Subject toMIRU Pulling Unit. POH w/ rods and tubing Set CIBP @ 7800' and cap with 35' bailed on top of CIBP OR 25 sx class H spotted on top of CIBP - Perfs Load hole with plugging mud and test casing to 500 psi.General Requirements andPerf and squeeze 35 sx class C @ 4150'; 3918-4150', WOC and tag - Top Delaware and 8 5/8" casing shoe Perf and squeeze 80 sx class C @ 200' - Surface to 200' - Surface plugSpecial StipulationsAfter 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.AttachedAttachments: Current Wellbore Diagram, Proposed Wellbore DiagramAttachments: Current Wellbore Diagram, Proposed Wellbore Diagram					ral Requirements and al Stipulations ned		
5 5	that the foregoing is	true and correct. Name (Print	nted/Typed)	Consultan	t			
Phelps White				Title				
Signature	Signature Date			Date		01/30/20	23	
		THE SPACE	FOR FED	ERAL OR ST	ATE OFI	CE USE		
Approved by				Title		D	ate	
certify that the appli	cant holds legal or e	ed. Approval of this notice d quitable title to those rights i duct operations thereon.						
		U.S.C Section 1212, make ints or representations as to a			ly and willfi	ally to make to any dep	artme	nt or agency of the United States
(Instructions on	page 2)							

Operataor:	Harvard Petroleum Co.	Date Spud:	7/15/1993
Well Name:	Pure Gold C17 Fed 10	Date Complete:	8/8/1993
API #	30-015-27393		
Location:	17, 23S, 31E		

CURRENT WELLBORE



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Date Spud:

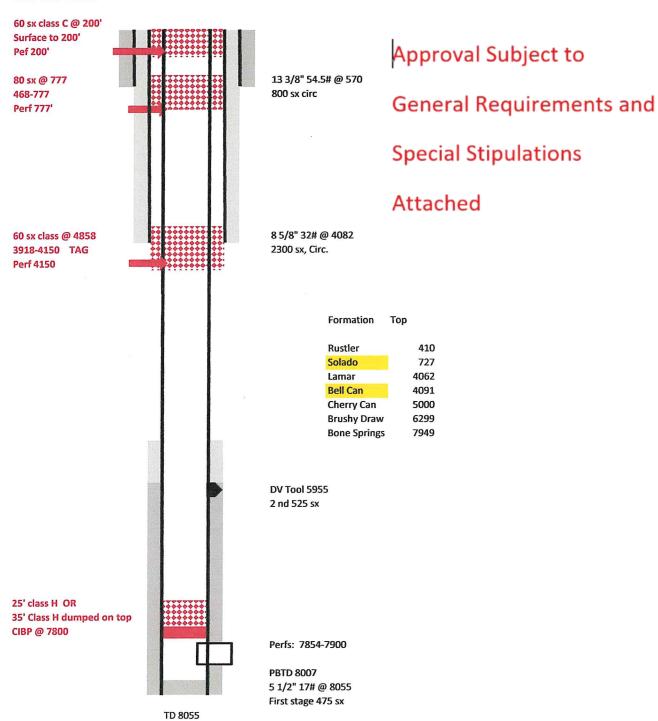
Date Complete:

7/15/1993

8/8/1993

Operataor:Harvard Petroleum Co.Well Name:Pure Gold C17 Fed 10API #30-015-27393Location:17, 23S, 31E

PROPOSED PLUGS



Released to Imaging: 5/4/2023 2:17:58 PM

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. <u>Below Ground Level Cap (Lesser Prairie-Chicken Habitat)</u>: 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 ¹/₄ 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. <u>Show date well was plugged.</u>

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.

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



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.

- 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.
- 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

Trishia Bad Bear, Hobbs Field Station Natural Resource Specialist 575-393-3612 *Received by OCD: 4/21/2023 3:39:23 PM*

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Sundry ID	2715559						·
Plug Type	Тор	Bottom	Length	Тад	Sacks	Cement 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 Perforatio			
Fresh Water @ 506	450.94	556.00	105.06				
Shoe Plug	514.30			Tag/Verify			
Top of Salt @ 727	669.73	777.00	107.27	Tag/Verify	172.00	с	Perf and squeeze at 727' to surface. (In 74 sxs/Out 98 sxs) Verifty at surface.
Base of Salt @ 3830	3741.70	3880.00	138.30	Tag/Verify			
Shoe Plug	3991.18	4132.00	140.82	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			Perf and Squeeze at 4141' to 3741'. If there's no injection rate, perf again at 4132'. If no injection perf again at 3880'. Spot cement from 4141' to 3741'. WOC and Tag. (In
Delaware @ 4091	4000.09	4141.00	140.91		95.00	С	41 sxs/Out 54 sxs)
DV tool plug	5845.45	6005.00	159.55	Tag/Verify	25.00	с	Spot cement from 6005' to 5845'.

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CIBP Plug	7769.00	7804.00	35.00		25.00	Н	Set CIBP at 7804'. Spot 25 sxs on top. Leak test CIBP.
Perforations Plug (If No CIBP)	7771.00	7950.00	179.00	Tag/Verify			
Bonesprings @ 7949	7819.51	7999.00		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			
Shoe Plug	7924.45	8105.00	180.55	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 ft³/sx Class H: 1.06 ft³/sx

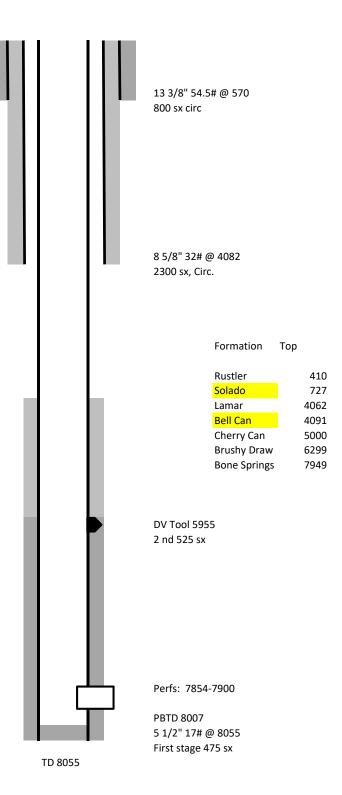
Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement	Secretary	Top of Salt to surface
Shoe @ Shoe @	570.00 4082.00	
Shoe @	8055.00	TOC @ N/a
Perforatons Top @	7854.00	Perforations Bottom @ 7900.00

DV Tool @	5955.00	CIBP @	7804.00
	5955.00		1004.00

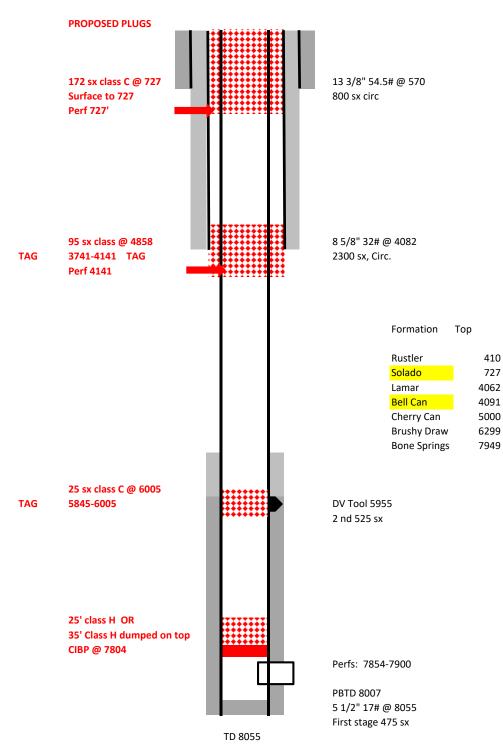
•	Harvard Petroleum Co. Pure Gold C17 Fed 10	Date Spud: Date Complete:	7/15/1993 8/8/1993
API #	30-015-27393	Date complete.	0/0/1995
Location:	17, 23S, 31E		

CURRENT WELLBORE



Operataor:	Harvard Petroleum Co.	Date Spud:	7/15/1993
Well Name:	Pure Gold C17 Fed 10	Date Complete:	8/8/1993
API #	30-015-27393		
Location:	17, 23S, 31E		

WELLBORE DIAGRAM UPDATED WITH BLM REQUIREMENTS



District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	209811
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	perf & sqz 60 sx cmt 5050' - 4950' - T Cherry Canyon	5/4/2023

CONDITIONS

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Action 209811