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

Sundry Print Report

03/14/2024

Well Name: MICHENER LS	**Well Location:** T28N / R9W / SEC 15 / SENW / 36.665237 / -107.77829	**County or Parish/State:** SAN JUAN / NM
Well Number: 2	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMSF077107B	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3004507493	**Well Status:** Producing Gas Well	**Operator:** HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2779584

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 03/14/2024

Time Sundry Submitted: 12:17

Date proposed operation will begin: 04/01/2024

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedure, current and proposed wellbore schematics. A Pre-Disturbance Site visit was not conducted as it is twinned with the Michener LS 3A. The Re-Vegetation Plan will be provided when the Michener LS 3A is plugged and abandoned. A closed loop system will be used.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

2024_03_14___MICHENER_LS_2___P_A_NOI_20240314121723.pdf

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Lease Number: NMSF077107B

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004507493

Well Status: Producing Gas Well

Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Specialist Review

2779584_NOIA_LS_2_3004507493_KR_03142024_20240314131204.pdf

Michener_LS_No_2_Geo_Rpt_20240312142434_20240314131204.pdf

General_Requirement_PxA_20240314131152.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: PRISCILLA SHORTY

Signed on: MAR 14, 2024 12:17 PM

Name: HILCORP ENERGY COMPANY

Title: Regulatory Technician

Street Address: 382 ROAD 3100

City: AZTEC **State:** NM

Phone: (505) 324-5188

Email address: PSHORTY@HILCORP.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 03/14/2024

Signature: Kenneth Rennick

HILCORP ENERGY COMPANY
MICHENER LS 2
P&A NOI

API #:	3004507493

JOB PROCEDURES

1. Contact NMOCD and BLM (where applicable) 24 hours prior to MIRU.
2. Hold pre-job safety meeting. Verify cathodic is off. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.
3. MIRU service rig and associated equipment; NU and test BOP.
4. POOH w/ 1-1/4" tubing.
5. Set a **5-1/2"** CIBP or CICR at **+/- 2,295'** to isolate the **PC Formation**.
6. Load the well as needed. Pressure test the casing above the plug to **560 psig**.
7. RU Wireline. Run CBL. Record Top of Cement. All subsequent plugs below are subject to change pending CBL results.
8. PU & TIH w/ work string to **+/- 2,295'**.
9. **PLUG #1: 35sx of Class G Cement (15.8 PPG, 1.15 yield); PC Formation @ 2,345' | FRD Top @ 2,095':**
   Pump a 35 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 1,995'** & est. **BOC @ +/- 2,295'**).
   .
10. POOH w/ work string. TIH & perforate squeeze holes @ **+/- 1,465'**. RIH w/ **5-1/2"** CICR and set CICR @ **+/- 1,415'**. TIH w/ work string & sting into CICR. Establish injection.
11. **PLUG #2: 87sx of Class G Cement (15.8 PPG, 1.15 yield); KRD Top @ 1,415' | OJO Top @ 1,270':**
    Pump 52sx of cement in the 5-1/2" casing X 7-7/8" open hole annulus (est. **TOC @ +/- 1,120'** & est. **BOC @ +/- 1,465'**). Pump an additional 6sx of cement beneath the 5-1/2" CICR (est. **TOC @ +/- 1,415'** & est. **BOC @ +/- 1,465'**). Sting out of retainer, pump a 29 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 1,170'** & est. **BOC @ +/- 1,415'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
12. POOH w/ work string. TIH & perforate squeeze holes @ **+/- 683'**. Establish circulation.
13. **PLUG #3: 200sx of Class G Cement (15.8 PPG, 1.15 yield); NAC Top @ 633' | Surf. Casing Shoe @ 133':**
    Pump 83sx of cement in the 5-1/2" casing X 7-7/8" open hole annulus (est. **TOC @ +/- 133'** & est. **BOC @ +/- 683'**). Continue pumping 37sx of cement in the 5-1/2" casing X 9-5/8" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 133'**). Pump an 80 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 683'**). WOC for 4 hrs, tag TOC w/ work string.
14. ND BOP, cut off casing below casing flange. Top off cement in surface casing annulus, if needed. Install a P&A marker with cement to comply with regulations. Rig down, move off location, cut off anchors, and restore location.

HILCORP ENERGY COMPANY
MICHENER LS 2
P&A NOI

MICHENER LS 2 - CURRENT WELLBORE SCHEMATIC

Hilcorp Energy Company

WBD - Current P&A

Well Name: MICHENER LS 2

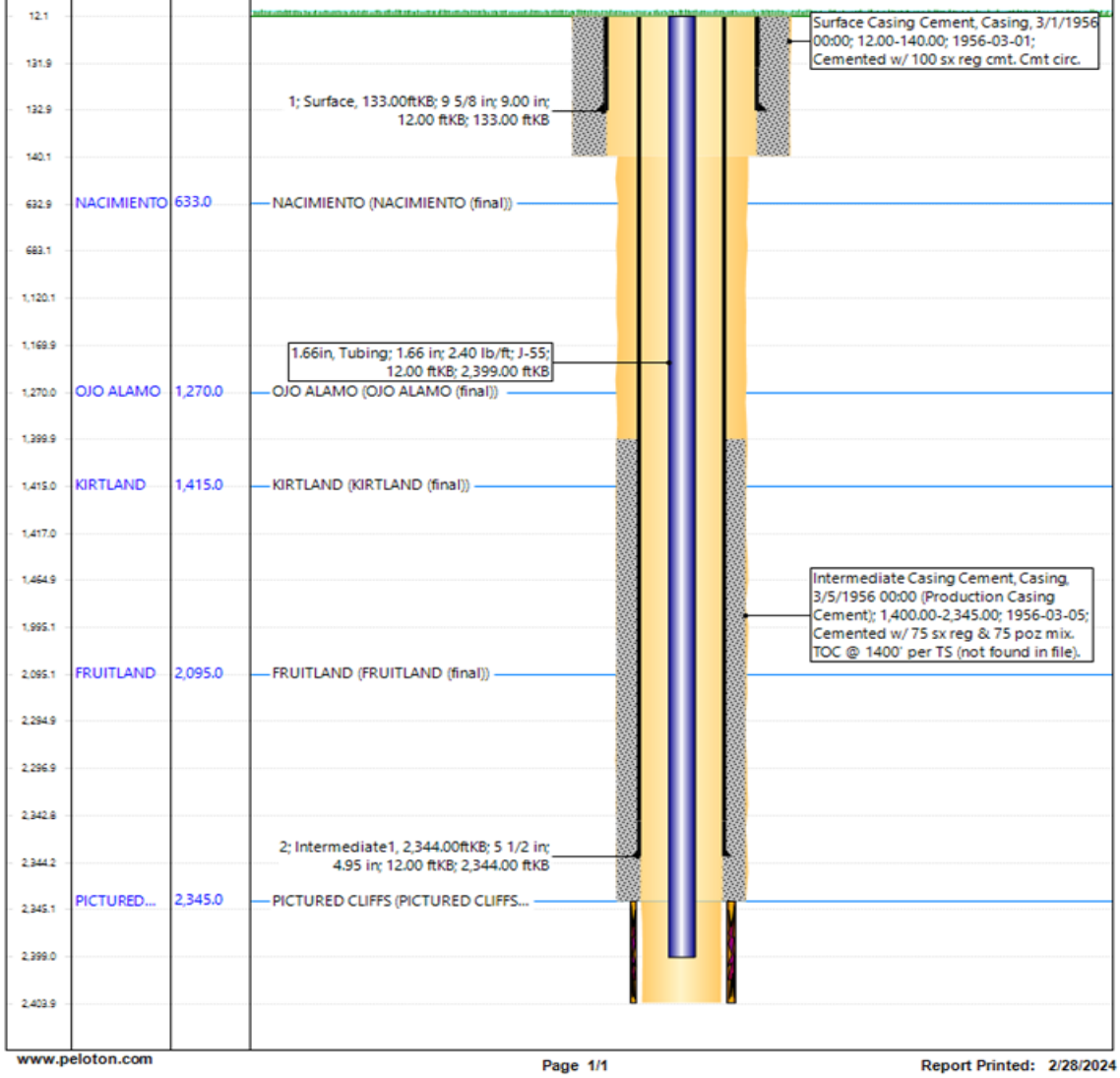
API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3004507493	015-028N-009W-F	PC	0805	NEW MEXICO	

Ground Elevation (ft)	Original KB/RT Elevation (ft)	RKB to GL (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,017.00	6,029.00	12.00		

Original Hole

MD (ftKB)	Formation Tops	MD
12.1		
131.9		
132.9		
140.1		
632.9	NACIMIENTO	633.0
683.1		
1,120.1		
1,169.9		
1,270.0	OJO ALAMO	1,270.0
1,399.9		
1,415.0	KIRTLAND	1,415.0
1,417.0		
1,464.9		
1,995.1		
2,095.1	FRUITLAND	2,095.0
2,294.9		
2,296.9		
2,342.8		
2,344.2		
2,345.1	PICTURED...	2,345.0
2,399.0		
2,403.9		

Vertical schematic (actual)



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HILCORP ENERGY COMPANY
MICHENER LS 2
P&A NOI

MICHENER LS 2 - PROPOSED WELLBORE SCHEMATIC

Hilcorp Energy Company

P&A WBD - Proposed Schematic

Well Name: MICHENER LS 2

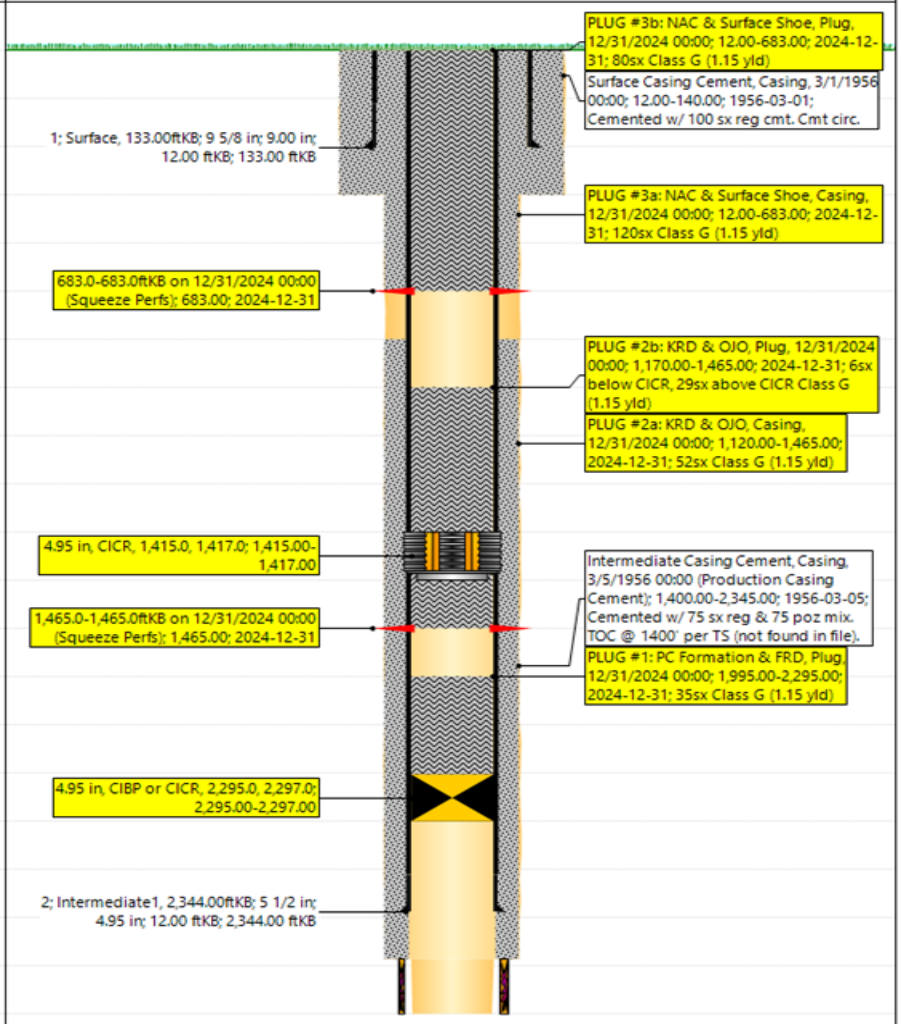
API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3004507493	015-028N-009W-F	PC	0805	NEW MEXICO	

Ground Elevation (ft)	Original KB/RT Elevation (ft)	RKB to GL (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,017.00	6,029.00	12.00		

Original Hole

MD (ftKB)	Formation Tops	MD
12.1		
131.9		
132.9		
140.1		
632.9	NACIMIENTO	633.0
683.1		
1,120.1		
1,169.9		
1,270.0	OJO ALAMO	1,270.0
1,399.9		
1,415.0	KIRTLAND	1,415.0
1,417.0		
1,464.9		
1,995.1		
2,095.1	FRUITLAND	2,095.0
2,294.9		
2,296.9		
2,342.8		
2,344.2		
2,345.1	PICTURED C...	2,345.0
2,403.9		
2,417.0		

Vertical schematic (proposed)



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UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2779584

Attachment to notice of Intention to Abandon

Well: Michener LS 2

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

2. The following modifications to your plugging program are to be made:
   a. Place the mechanical plug for Plug 1 at 2270 ft to account for the BLM geologist's Pictured Cliffs top at 2320 ft. Move the TOC to 1900 ft to account for the BLM geologist's Fruitland top at 2000 ft.
   b. Adjust the top of Plug 2 to 860 ft to account for the BLM geologist's Ojo Alamo top at 960 ft.

3. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 03/14/2024

BLM - FFO - Geologic Report

Date Completed 3/12/2024

Well No.	Michener LS	# 2		Surf. Loc.	1453	FNL	1850	FWL
					Sec	15	T28N	R9W
Lease No.	NMSF077107B							
Operator	Hilcorp Energy Co			County	San Juan		State	New Mexico
TVD	2404	PBTD	2404	Formation:	Aztec Pictured Cliffs			
Elevation	GL	6019		Elevation	Est. KB	6029	(Estimated)	

Geologic Formations	Est. tops	Subsea Elev.	Remarks
Nacimiento Fm.	Surface		Surface /fresh water sands
Ojo Alamo Ss	960	5069	Fresh water aquifer
Kirtland Fm.	1415	4614	
Fruitland Fm.	2000	4029	Coal/gas/possible water
Pictured Cliffs	2320	3709	Possible gas/water

Remarks:

-Vertical wellbore, all formation depths are TVD from KB at the wellhead.

-Place the mechanical plug for Plug 1 at 2270' to account for the BLM geologist's Pictured Cliffs top. Move the TOC to 1900' to account for the BLM geologist's Fruitland top.

-Adjust the top of Plug 2 to 860' to account for the BLM geologist's Ojo Alamo top.

-The surface formation is the Nacimiento, therefore the bottom of Plug 3 may be adjusted.

Reference Well:

Same

Prepared by: Walter Gage

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), through the Automated Fluid Minerals Support System (AFMSS) with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

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

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

CONDITIONS

Action 323409

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 323409
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	plug 1 will need to start in open hole 50 feet below pc top and then extend 100 feet into production casing - this plug will have to be tagged- this well has bradenhead issues with same gas on bradenhead and production casing - cannot combine plugs - Notify NMOCD 24 hours prior to moving on - keep this office informed on string pressures as you are working up the hole - String pressures should be recorded each day and noted in subsequent - contact this office prior to running kirtland plug.	3/14/2024