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

Sundry Print Report

03/21/2025

Well Name: FEDERAL H

Well Location: T27N / R10W / SEC 9 / NWSW / 36.587585 / -107.906235

County or Parish/State: SAN JUAN / NM

Well Number: 1

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF077382

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004506665

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2840982

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 03/10/2025

Time Sundry Submitted: 12:13

Date proposed operation will begin: 07/01/2025

Procedure Description: Hilcorp Energy Company requests permission to plug and abandon the subject well per the attached procedure, current and proposed schematics. The Pre-Disturbance Site Visit was held on 12/5/2024 with Roger Herrera (BLM) and Dale Crawford (HEC). The Re-Vegetation Plan is attached. A closed loop system will be used.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

2025_03_10___FEDERAL_H_1___P_A_NOI_20250310121219.pdf

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Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

General_Requirement_PxA_20250321084745.pdf

2840982_NOI_PnA_Federal_H_1_3004506665_MHK_03.21.2025_20250321083148.pdf

Federal_H_No_1_Geo_Rpt_20250319163332.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 10, 2025 12:12 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: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Approved

Disposition Date: 03/21/2025

Signature: Matthew Kade

HILCORP ENERGY COMPANY
FEDERAL H 1
P&A NOI

API #:	3004506665

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. Set a **5-1/2"** CIBP or CICR at **+/- 6,300'** to isolate the **DK Perfs**.
5. Load the well as needed. Pressure test the casing above the plug to **560 psig**.
6. RU Wireline. Run CBL. Record Top of Cement. All subsequent plugs below are subject to change pending CBL results.
7. PU & TIH w/ work string to **+/- 6,300'**.
8. **PLUG #1: 18sx of Class G Cement (15.8 PPG, 1.15 yield); DK Perfs @ 6,316' | DK Top @ 6,312' | GRN Top @ 6,282':**
   Pump an 18 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 6,150'** & est. **BOC @ +/- 6,300'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
9. POOH w/ work string to **+/- 5,641'**.
10. **PLUG #2: 18sx of Class G Cement (15.8 PPG, 1.15 yield); GAL Top @ 5,591':**
    Pump an 18 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 5,491'** & est. **BOC @ +/- 5,641'**). *Note cement plug lengths & volumes account for excess.
11. TOOH w/ work string. TIH & perforate squeeze holes @ **+/- 4,444'**. RIH w/ **5-1/2" CICR** and set CICR @ **+/- 4,394'**. TIH w/ work string & sting into CICR. Establish injection.
12. **PLUG #3: 62sx of Class G Cement (15.8 PPG, 1.15 yield); MCS Top @ 4,394':**
    Pump 44sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 4,244'** & est. **BOC @ +/- 4,444'**). Pump an additional 6sx of cement beneath the 5-1/2" CICR (est. **TOC @ +/- 4,394'** & est. **BOC @ +/- 4,444'**). Sting out of retainer, pump a 12 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 4,294'** & est. **BOC @ +/- 4,394'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
13. TOOH w/ work string. TIH & perforate squeeze holes @ **+/- 3,472'**. RIH w/ **5-1/2" CICR** and set CICR @ **+/- 3,422'**. TIH w/ work string & sting into CICR. Establish injection.
14. **PLUG #4: 62sx of Class G Cement (15.8 PPG, 1.15 yield); MV Top @ 3,422':**
    Pump 44sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 3,272'** & est. **BOC @ +/- 3,472'**). Pump an additional 6sx of cement beneath the 5-1/2" CICR (est. **TOC @ +/- 3,422'** & est. **BOC @ +/- 3,472'**). Sting out of retainer, pump a 12 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 3,322'** & est. **BOC @ +/- 3,422'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
15. TOOH w/ work string. TIH & perforate squeeze holes @ **+/- 2,860'**. RIH w/ **5-1/2" CICR** and set CICR @ **+/- 2,810'**. TIH w/ work string & sting into CICR. Establish injection.
16. **PLUG #5: 62sx of Class G Cement (15.8 PPG, 1.15 yield); CHC Top @ 2,810':**
    Pump 44sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 2,660'** & est. **BOC @ +/- 2,860'**). Pump an additional 6sx of cement beneath the 5-1/2" CICR (est. **TOC @ +/- 2,810'** & est. **BOC @ +/- 2,860'**). Sting out of retainer, pump a 12 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 2,710'** & est. **BOC @ +/- 2,810'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
17. POOH w/ work string to **+/- 2,261'**.
18. **PLUG #6: 55sx of Class G Cement (15.8 PPG, 1.15 yield); DV Tool #1 Top @ 2,211' | PC Top @ 1,890':**
    Pump an 55 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 1,790'** & est. **BOC @ +/- 2,261'**). *Note cement plug lengths & volumes account for excess.
19. TOOH w/ work string. TIH & perforate squeeze holes @ **+/- 1,520'**. RIH w/ **5-1/2" CICR** and set CICR @ **+/- 1,470'**. TIH w/ work string & sting into CICR. Establish
20. **PLUG #7: 62sx of Class G Cement (15.8 PPG, 1.15 yield); FRD Top @ 1,470':**
    Pump 44sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 1,320'** & est. **BOC @ +/- 1,520'**). Pump an additional 6sx of cement beneath the 5-1/2" CICR (est. **TOC @ +/- 1,470'** & est. **BOC @ +/- 1,520'**). Sting out of retainer, pump a 12 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 1,370'** & est. **BOC @ +/- 1,470'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.

21. TOOH w/ work string. TIH & perforate squeeze holes @ **+/- 1,084'**. RIH w/ **5-1/2" CICR** and set CICR @ **+/- 1,034'**. TIH w/ work string & sting into CICR. Establish injection.

22. **PLUG #8: 106sx of Class G Cement (15.8 PPG, 1.15 yield); KRD Top @ 1,034' | OJO Top @ 906':**
Pump 73sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 756'** & est. **BOC @ +/- 1,084'**). Pump an additional 6sx of cement beneath the 5-1/2" CICR (est. **TOC @ +/- 1,034'** & est. **BOC @ +/- 1,084'**). Sting out of retainer, pump a 27 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 806'** & est. **BOC @ +/- 1,034'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.

23. TOOH w/ work string. TIH & perforate squeeze holes @ **+/- 399'**. Establish circulation.

24. **PLUG #9: 167sx of Class G Cement (15.8 PPG, 1.15 yield); NAC Top @ 349' | Surf. Casing Shoe @ 243':**
Pump 35sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 243'** & est. **BOC @ +/- 399'**). Continue pumping 85sx of cement in the 5-1/2" casing X 10-3/4" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 243'**). Pump a 47 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 399'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.

25. 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
FEDERAL H 1
P&A NOI

FEDERAL H 1 - CURRENT WELLBORE SCHEMATIC

Hilcorp Energy Company

P&A WBD - Current Schematic

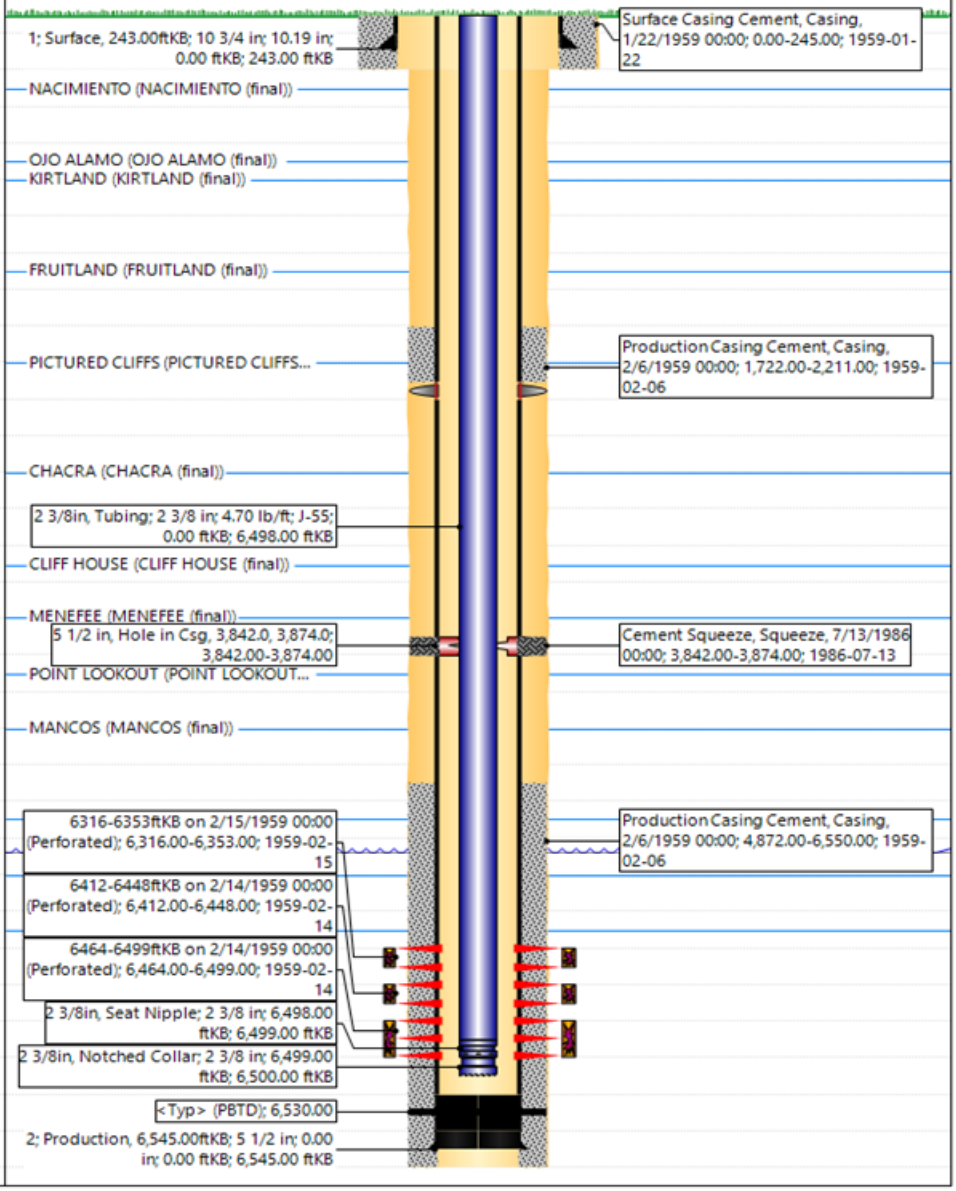
Well Name: FEDERAL H #1 [3004506665]

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3004506665	T27N-R10W-S09	Basin Dakota	0710	New Mexico	Vertical
Ground Elevation (ft)	**Original KB/RT Elevation (ft)**	**Tubing Hanger Elevation (ft)**	**RKB to GL (ft)**	**KB-Casing Flange Distance (ft)**	**KB-Tubing Hanger Distance (ft)**
6,052.50	6,063.00		10.50		

Original Hole [Vertical]

MD (ftKB)	Formation Tops	MD
242.1		
245.1	NACIMIENTO	349
399.0		
806.1		
1,034.1	OJO ALAMO	906
	KIRTLAND	1034
1,084.0		
1,370.1		
1,472.1	FRUITLAND	1470
1,722.1		
1,890.1	PICTURED...	1890
2,211.9		
2,660.1		
2,810.0	CHACRA	2810
2,859.9		
3,321.9		
3,423.9	CLIFF HOUSE	3422
3,589.9	MENEFEE	3590
3,874.0		
4,244.1	POINT LOO...	4224
4,394.0	MANCOS	4394
4,443.9		
5,491.1		
5,641.1	GALLUP	5591
6,282.2	GRANEROS	6282
6,301.8		
6,315.9	DAKOTA	6312
6,412.1		
6,463.9		
6,499.0		
6,525.9		
6,544.0		
6,549.9		

Vertical schematic (actual)



WellViewAdmin@hilcorp.com Page 1/1 Report Printed: 3/10/2025

HILCORP ENERGY COMPANY
FEDERAL H 1
P&A NOI

FEDERAL H 1 - PROPOSED WELLBORE SCHEMATIC

Hilcorp Energy Company

P&A WBD - Proposed Schematic

Well Name: FEDERAL H #1 [3004506665]

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3004506665	T27N-R10W-S09	Basin Dakota	0710	New Mexico	Vertical
Ground Elevation (ft)	**Original KB/RT Elevation (ft)**	**Tubing Hanger Elevation (ft)**	**RKB to GL (ft)**	**KB-Casing Flange Distance (ft)**	**KB-Tubing Hanger Distance (ft)**
6,052.50	6,063.00		10.50		

Original Hole [Vertical]

MD (ftKB)	Formation Tops	MD
242.1		
245.1	NACIMIENTO	349
399.0		
806.1	OJO ALAMO	906
1,034.1	KIRTLAND	1034
1,084.0		
1,370.1	FRUITLAND	1470
1,472.1		
1,722.1		
1,890.1	PICTURED C...	1890
2,211.9		
2,660.1		
2,810.0	CHACRA	2810
2,889.9		
3,321.9	CLIFF HOUSE	3422
3,423.9		
3,589.9	MENEFEE	3590
3,874.0		
4,244.1	POINT LOO...	4224
4,394.0	MANCOS	4394
4,443.9		
5,491.1	GALLUP	5591
5,641.1		
6,282.2	GRANEROS	6282
6,301.8		
6,312.0	DAKOTA	6312
6,315.9		
6,412.1		
6,463.9		
6,525.9		
6,544.0		
6,549.9		

Vertical schematic (proposed)

1; Surface, 243.00ftKB; 10 3/4 in; 10.19 in; 0.00 ftKB; 243.00 ftKB

399-399ftKB on 12/31/2025 00:00 (SQUEEZE PERFS); 399.00; 2025-12-31

4.95 in, CICR, 1,034.0, 1,036.0; 1,034.00-1,036.00

1084-1084ftKB on 12/31/2025 00:00 (SQUEEZE PERFS); 1,084.00; 2025-12-31

4.95 in, CICR, 1,470.0, 1,472.0; 1,470.00-1,472.00

1520-1520ftKB on 12/31/2025 00:00 (SQUEEZE PERFS); 1,520.00; 2025-12-31

4.95 in, CICR, 2,810.0, 2,812.0; 2,810.00-2,812.00

2860-2860ftKB on 12/31/2025 00:00 (SQUEEZE PERFS); 2,860.00; 2025-12-31

4.95 in, CICR, 3,422.0, 3,424.0; 3,422.00-3,424.00

3472-3472ftKB on 12/31/2025 00:00 (SQUEEZE PERFS); 3,472.00; 2025-12-31

5 1/2 in, Hole in Csg, 3,842.0, 3,874.0; 3,842.00-3,874.00

4.95 in, CICR, 4,394.0, 4,396.0; 4,394.00-4,396.00

4444-4444ftKB on 12/31/2025 00:00 (SQUEEZE PERFS); 4,444.00; 2025-12-31

4.95 in, CIBP or CICR, 6,300.0, 6,302.0; 6,300.00-6,302.00

6316-6353ftKB on 2/15/1959 00:00 (Perforated); 6,316.00-6,353.00; 1959-02-15

6412-6448ftKB on 2/14/1959 00:00 (Perforated); 6,412.00-6,448.00; 1959-02-14

6464-6499ftKB on 2/14/1959 00:00 (Perforated); 6,464.00-6,499.00; 1959-02-14

<Typ> (PBTD); 6,530.00

2; Production, 6,545.00ftKB; 5 1/2 in; 0.00 in; 0.00 ftKB; 6,545.00 ftKB

PLUG #9b: NAC & Surf. Csg. Shoe, Plug, 12/31/2025 00:00; 0.00-399.00; 2025-12-31; 47sx Class G (1.15 yld)

Surface Casing Cement, Casing, 1/22/1959 00:00; 0.00-245.00; 1959-01-22

PLUG #9a: NAC & Surf. Csg. Shoe, Casing, 12/31/2025 00:00; 0.00-399.00; 2025-12-31; 120sx Class G (1.15 yld)

PLUG #8b: KRD & OJO, Plug, 12/31/2025 00:00; 806.00-1,084.00; 2025-12-31; 33sx Class G (1.15 yld); 6sx Below CICR & 27sx Above CICR

PLUG #8a: KRD & OJO, Casing, 12/31/2025 00:00; 756.00-1,084.00; 2025-12-31; 73sx Class G (1.15 yld)

PLUG #7b: FRD, Plug, 12/31/2025 00:00; 1,370.00-1,520.00; 2025-12-31; 18sx Class G (1.15 yld); 6sx Below CICR & 12sx Above CICR

PLUG #7a: FRD, Casing, 12/31/2025 00:00; 1,320.00-1,520.00; 2025-12-31; 44sx Class G (1.15 yld)

PLUG #6: DV Tool & PC, Plug, 12/31/2025 00:00; 1,790.00-2,261.00; 2025-12-31; 55sx Class G (1.15 yld)

Production Casing Cement, Casing, 2/6/1959 00:00; 1,722.00-2,211.00; 1959-02-06

PLUG #5b: CHC, Plug, 12/31/2025 00:00; 2,710.00-2,860.00; 2025-12-31; 18sx Class G (1.15 yld); 6sx Below CICR & 12sx Above CICR

PLUG #5a: CHC, Casing, 12/31/2025 00:00; 2,660.00-2,860.00; 2025-12-31; 44sx Class G (1.15 yld)

PLUG #4b: MV, Plug, 12/31/2025 00:00; 3,322.00-3,472.00; 2025-12-31; 18sx Class G (1.15 yld); 6sx Below CICR & 12sx Above CICR

PLUG #4a: MV, Casing, 12/31/2025 00:00; 3,272.00-3,472.00; 2025-12-31; 44sx Class G (1.15 yld)

Cement Squeeze, Squeeze, 7/13/1986 00:00; 3,842.00-3,874.00; 1986-07-13

PLUG #3b: MCS, Plug, 12/31/2025 00:00; 4,294.00-4,444.00; 2025-12-31; 18sx Class G (1.15 yld); 6sx Below CICR & 12sx Above CICR

PLUG #3a: MCS, Casing, 12/31/2025 00:00; 4,244.00-4,444.00; 2025-12-31; 44sx Class G (1.15 yld)

PLUG #2: GAL, Plug, 12/31/2025 00:00; 5,491.00-5,641.00; 2025-12-31; 18sx Class G (1.15 yld)

Production Casing Cement, Casing, 2/6/1959 00:00; 4,872.00-6,550.00; 1959-02-06

PLUG #1: DK Perfs, DK, & GRN, Plug, 12/31/2025 00:00; 6,150.00-6,300.00; 2025-12-31; 18sx Class G (1.15 yld)

WellViewAdmin@hilcorp.com Page 1/1 Report Printed: 3/10/2025

Hilcorp Energy
P&A Final Reclamation Plan
Federal H 1
API: 30-045-06665
T27N-R10W-Sec. 09-Unit L
LAT: 36.587517 LONG: -107.906347 NAD 27
Footage: 1,830' FSL & 870' FWL
San Juan County, NM

1. **PRE- RECLAMATION SITE INSPECTION**

   A pre-reclamation site inspection was completed with Roger Herrera, from the BLM and Dale Crawford, Hilcorp Energy SJ South Construction Foreman on December 5, 2024.

2. **LOCATION RECLAMATION PROCEDURE**

   1. Final reclamation will occur in Summer.
   2. Removal of all equipment, anchors, flowlines and cathodic.
   3. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
   4. Remove all gravel from berms, pads, and meter run.
   5. Push fill slope back to cut slope.
   6. Add 1 large silt trap in the middle of location and others as needed.
   7. Meter run will be removed. Pipeline will be stripped back to North edge of main road.

3. **ACCESS ROAD RECLAMATION PROCEDURE**

   1. Access roads will be closed by water barring.
   2. Access will be ripped and contoured.
   3. Allow flow to stay in natural drainage.

4. **SEEDING PROCEDURE**

   1. A BLM badlands seed mix will be used for all reclaimed and disturbed areas of the well pad and lease road.
   2. Drill seed will be done where applicable, and all other disturbed areas will be broadcast seeded and harrowed. Broadcast seeding will be applied at a double the rate of seed.
   3. Timing of the seeding will be when the ground is not frozen or saturated.

5. **WEED MANAGEMENT**

   1. No noxious weeds were identified during this onsite.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
http://www.blm.gov/nm

CONDITIONS OF APPROVAL

March 21, 2025

Notice of Intent - Plug and Abandonment

Operator: Hilcorp Energy Company
Lease: NMSF077382
Well(s): Federal H 1, API # 30-045-06665
Location: NWSW Sec 9 T27N R10W (San Juan County, NM)
Sundry Notice ID#: 2840982

The Notice of Intent to Plug and Abandon is accepted with the following Conditions of Approval (COA):

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 made:**

   a. Adjust Plug 2 (Gallup) to cover the BLM geologist's Gallup formation top pick @ 5638'. Plug should cover at a minimum 5538' – 5688'.

   b. Adjust Plug 4 (Mesaverde) to cover the BLM geologist's Cliff House formation top pick @ 3438'. Plug should cover at a minimum 3338' - 3488' inside and outside.

   c. Adjust Plug 5 (Chacra) to cover the BLM geologist's Lower Chacra formation top pick @ 2828'. Plug should cover at a minimum 2728' – 2878' inside and outside.

   d. Adjust Plug 6 (DV tool/Picture Cliffs) to cover BLM geologist's Picture Cliff formation top pick @ 1908'. Plug should at a minimum cover 1808' – 2261'.

   e. Adjust Plug 8 (Kirtland/Ojo) to cover BLM geologist's Kirtland formation pick @ 1034' and Ojo Alamo formation to pick @ 708'. Plug should cover at a minimum 608' – 1084' inside and outside.

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

4. Additional changes to procedure, before or during plugging, should be sent through email to Kenneth Rennick (krennick@blm.gov) and Matthew Kade (mkade@blm.gov) for approval. Verbal approvals may be given and should be followed up with an email documenting the requested changes.

5. When a CBL is run, send a copy to Kenneth Rennick (krennick@blm.gov), Matthew Kade (mkade@blm.gov), Virgil Lucero (vlucero@blm.gov), and the Petroleum Engineering Technician on location.

6. **Deadline of Completion of Operations:** Complete the plugging operation before March 21, 2026. If unable to meet the deadline, notify the Bureau of Land Management's Farmington Field Office prior to the deadline via Sundry Notice (Form 3160-5) Notice of Intent detailing the reason for the delay and the date the well is to be plugged.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements. Any estimated minimum sacks provided in procedure modification include necessary excesses.

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

Matthew Kade (mkade@blm.gov/505-564-7736) / Kenny Rennick (krennick@blm.gov/505-564-7742)

BLM - FFO - Geologic Report

Date Completed 3/19/2025

Well No.	Federal H No 1			Surf. Loc.	1830	FSL	870	FWL
Lease No.	NMSF077382				Sec	9	T27N	R10W
Operator	Hilcorp Energy Co.			County	San Juan		State	New Mexico
TVD	6550	PBTD	6530	Formation	Basin Dakota			
Elevation	GL	6053		Elevation	Est. KB	6063		

Geologic Formations	**Est. tops**	**Subsea Elev.**	**Remarks**
Nacimiento Fm.	Surface		Surface /fresh water sands
Ojo Alamo Ss	708	5355	Fresh water aquifer
Kirtland Fm.	1034	5029	
Fruitland Fm.	1470	4593	Coal/gas/possible water
Pictured Cliffs	1908	4155	Possible gas/water
Lewis Shale (Main)	2008	4055	Source rock
DV Tool	2211	3852	
Huerfanito Bentonite	2423	3640	Reference bed
Chacra (upper)	2478	3585	Possible gas/water
Lewis Shale Stringer	2718	3345	Source rock
Chacra (Lower)	2828	3235	Possible gas/water
Cliff House Ss	3438	2625	Possible gas/water
Menefee Fm.	3573	2490	Coal/water/possible gas
Point Lookout Fm.	4278	1785	Possible gas/water
Mancos Shale	4394	1669	Source rock
El Vado Ss	5408	655	Possible gas/water
Gallup	5638	425	Oil & gas
Mancos Stringer	6008	55	Source rock
Juana Lopez	6148	-85	
Brdge Crk/Grnhrn	6248	-185	
Graneros Shale	6328	-265	
Dakota Ss	6413	-350	Possible gas/water

Remarks:

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

-Modify the Plug 2 BOC to 5688' to account for the BLM geologist's pick for the Gallup.

-Modify Plug 4a/4b to cover the BLM geologist's pick for the Cliff House: Set CR @ 3438', 4a TOC @ 3288', BOC @ 3488', 4b TOC @ 3338', BOC @3488'.

-Modify Plug 5a/5b to cover the BLM geologist's pick for the lower Chacra: Set CR @ 2828', 4a TOC @ 2678', BOC @ 2878', 4b TOC @ 2728', BOC @2878'.

-Modify the Plug 6 TOC to 1808' to cover the BLM geologist's pick for the PC.

-Modify Plug 8a/8b to cover the BLM geologist's pick for the Ojo Alamo: Set CR @ 1034', 8a TOC @ 558', BOC @ 1084', 4b TOC @ 608', BOC @1084'.

Reference Well:

Pan American Petroleum Corp.
P.O. Pipkin No 1
GL= 5981', KB= 5995'
8H-27N-10W,
1650'/FNL, 790 FEL

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) and 43 CFR 3172.12(a)(10). 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.

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 444526

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 444526
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	NMOCD agrees with BLM formation tops - add upper chacra plug at 2478 - Notify NMOCD 24 hours prior to moving on - monitor string pressures daily report on subsequent - submit all logs prior to subsequent.	3/26/2025