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

Sundry Print Report

09/25/2024

Well Name: INGWERSON

Well Location: T24N / R2W / SEC 20 / SWSE / 36.290714 / -107.070658

County or Parish/State: RIO ARRIBA / NM

Well Number: 4

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078909

Unit or CA Name:

Unit or CA Number:

US Well Number: 3003905340

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2811634

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 09/12/2024

Time Sundry Submitted: 11:47

Date proposed operation will begin: 10/01/2024

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedure, current and proposed wellbore schematics. The Pre-Disturbance Site Visit was held on 09/10/2024 with Roger Herrera / BLM, Daniel Sloan (Enterprise) and Bryan Hall (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

2024_08_29___INWGERSON_4___P_A_NOI_20240912114624.pdf

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Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

2811634_NOI_PnA_Ingwerson_4_3003905340_MHK_09.24.2024_20240924155236.pdf

General_Requirement_PxA_20240924155223.pdf

Ingwerson_4_Geo_Rpt_20240924102819.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: TAMMY JONES

Signed on: SEP 12, 2024 11:47 AM

Name: HILCORP ENERGY COMPANY

Title: Regulatory Compliance Specialist

Street Address: 382 ROAD 3100

City: AZTEC **State:** NM

Phone: (505) 324-5185

Email address: TAJONES@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: 09/24/2024

Signature: Matthew Kade

HILCORP ENERGY COMPANY
INGWERSON 4
P&A NOI

API #:	3003905340

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 **7"** CIBP or CICR at +/- **6,500'** to isolate the **Gallup formation**.
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 **+/- 6,500'**.
8. **PLUG #1: 29sx of Class G Cement (15.8 PPG, 1.15 yield); GAL Top @ 6,540' | GAL Perfs @ 6,520':**
   Pump a 29 sack balanced cement plug inside the 7" casing (est. **TOC @ +/- 6,350'** & est. **BOC @ +/- 6,500'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
9. POOH w/ work string to **+/- 5,386'**.
10. **PLUG #2: 29sx of Class G Cement (15.8 PPG, 1.15 yield); MCS Top @ 5,336':**
    Pump a 29 sack balanced cement plug inside the 7" casing (est. **TOC @ +/- 5,236'** & est. **BOC @ +/- 5,386'**). *Note cement plug lengths & volumes account for excess.
11. POOH w/ work string to **+/- 4,742'**.
12. **PLUG #3: 29sx of Class G Cement (15.8 PPG, 1.15 yield); MV Top @ 4,692':**
    Pump a 29 sack balanced cement plug inside the 7" casing (est. **TOC @ +/- 4,592'** & est. **BOC @ +/- 4,742'**). *Note cement plug lengths & volumes account for excess.
13. TOOH w/ work string. TIH & perforate squeeze holes @ **+/- 3,950'**. RIH w/ **7" CICR** and set CICR @ **+/- 3,925'**. TIH w/ work string & sting into CICR. Establish injection. ***NOTE* Squeeze holes @ 3,950' due to assumption that TOC is @ 3,966'.**
14. **PLUG #4: 57sx of Class G Cement (15.8 PPG, 1.15 yield); CHC Top @ 3,925':**
    Pump 27sx of cement in the 7" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 3,750'** & est. **BOC @ +/- 3,950'**). Pump an additional 5sx of cement beneath the 7" CICR (est. **TOC @ +/- 3,925'** & est. **BOC @ +/- 3,950'**). Sting out of retainer, pump a 25 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 3,800'** & est. **BOC @ +/- 3,925'**). 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 @ **+/- 3,110'**. RIH w/ **7" CICR** and set **CICR @ +/- 3,060'**. TIH w/ work string & sting into CICR. Establish injection.
16. **PLUG #5: 176sx of Class G Cement (15.8 PPG, 1.15 yield); PC Top @ 3,060' | FRD Top @ 2,834' | KRD Top @ 2,783' | OJO Top @ 2,687':**
    Pump 75sx of cement in the 7" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 2,537'** & est. **BOC @ +/- 3,110'**). Pump an additional 10sx of cement beneath the 7" CICR (est. **TOC @ +/- 3,060'** & est. **BOC @ +/- 3,110'**). Sting out of retainer, pump a 91 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 2,587'** & est. **BOC @ +/- 3,060'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
17. TOOH w/ work string. TIH & perforate squeeze holes @ **+/- 1,610'**. RIH w/ **7" CICR** and set CICR @ **+/- 1,560'**. TIH w/ work string & sting into CICR. Establish injection.
18. **PLUG #6: 57sx of Class G Cement (15.8 PPG, 1.15 yield); NAC Top @ 1,560':**
    Pump 27sx of cement in the 7" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 1,410'** & est. **BOC @ +/- 1,610'**). Pump an additional 10sx of cement beneath the 7" CICR (est. **TOC @ +/- 1,560'** & est. **BOC @ +/- 1,610'**). Sting out of retainer, pump a 20 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 1,460'** & est. **BOC @ +/- 1,560'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
19. TOOH w/ work string. TIH and perforate squeeze holes @ **+/- 556'**. TIH with tubing/work string.
20. **PLUG #7: 188sx of Class G Cement (15.8 PPG, 1.15 yield); Surf. Casing Shoe @ 506':**
    Pump 7sx of cement in the 7" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 506'** & est. **BOC @ +/- 556'**). Continue pumping 74sx of cement in the 7" casing X 9-5/8" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 506'**). Pump an 107 sack balanced cement plug inside the 7" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 556'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
21. 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
INGWERSON 4
P&A NOI

INGWERSON 4 - CURRENT WELLBORE SCHEMATIC

Hilcorp Energy Company

P&A WBD - Current Schematic

Well Name: INGWERSON 4

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3003905340		Gallup Dakota	1413	NEW MEXICO	
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)**
7,134.00	7,144.00		10.00		

Original Hole

MD (ftKB)	Formation Tops	MD
9.8		
505.9		
556.1		
1,410.1		
1,460.0		
1,560.0	NACIMIENTO	1,560.0
1,562.0		
1,609.9		
2,537.1		
2,586.9		
2,687.0	OJO ALAMO	2,687.0
2,783.1	KIRTLAND	2,783.0
2,834.0	FRUITLAND	2,834.0
3,060.0	PICTURED...	3,060.0
3,062.0		
3,109.9		
3,750.0		
3,799.9		
3,924.9	CHACRA	3,925.0
3,926.8		
3,950.1		
3,965.9		
4,591.9		
4,691.9	CLIFF HOUSE	4,692.0
4,708.0	MENEFEE	4,708.0
4,742.1		
5,200.1	POINT LOO...	5,200.0
5,235.9		
5,336.0	MANCOS	5,336.0
5,386.2		
6,350.1		
6,500.0		
6,502.0		
6,520.0		
6,540.0	GALLUP	6,540.0
6,555.1		
6,700.1		
7,280.8	GRANEROS	7,281.0
7,464.9	DAKOTA	7,465.0
7,716.9	MORRISON	7,717.0
8,395.0		
8,397.0		
8,401.9	ENTRADA	8,402.0
8,404.9		
8,410.1		
8,412.1		
8,413.1		
8,462.9		

Vertical schematic (actual)

1; Surface, 506.00ftKB; 9 5/8 in; 8.92 in; 10.00 ftKB; 506.00 ftKB

Surface Casing Cement, Casing, 12/8/1953 00:00; 10.00-506.00; 1953-12-08; 550sx

NACIMIENTO (NACIMIENTO (final))

OJO ALAMO (OJO ALAMO (final))

KIRTLAND (KIRTLAND (final))

FRUITLAND (FRUITLAND (final))

PICTURED CLIFFS (PICTURED CLIFFS...

2 1/16in, Tubing; 2 1/16 in; 3.25 lb/ft; J-55; 10.00 ftKB; 6,500.00 ftKB

CHACRA (CHACRA (final))

CLIFF HOUSE (CLIFF HOUSE (final))

MENEFEE (MENEFEE (final))

POINT LOOKOUT (POINT LOOKOUT...

MANCOS (MANCOS (final))

Production Casing Cement, Casing, 12/8/1953 00:00; 3,966.00-8,463.00; 1953-12-08; 750sx (TOC @ 3,966' by Calc. Assuming 1.06 yld)

6520-6555ftKB on 7/15/1966 13:58 (PERF - GALLUP); 6,520.00-6,555.00; 1966-07-15 13:58

Plug (PBTD); 6,700.00

GRANEROS (GRANEROS (final))

8395-8397ftKB on 12/8/1953 13:57 (PERF - OTHER); 8,395.00-8,397.00; 1953-12-08 13:57

8402-8405ftKB on 12/8/1953 13:57 (PERF - OTHER); 8,402.00-8,405.00; 1953-12-08 13:57

8412-8413ftKB on 12/8/1953 13:57 (PERF - OTHER); 8,412.00-8,413.00; 1953-12-08 13:57

Cement Squeeze, Squeeze, 3/12/1954 00:00; 8,395.00-8,413.00; 1954-03-12; Squeeze Off Original Perfs w/ 350sx

Production Casing Cement, Casing, 12/8/1953 00:00 (plug); 8,410.00-8,463.00; 1953-12-08; 750sx (TOC @ 3,966' by Calc. Assuming 1.06 yld)

2; Production, 8,463.00ftKB; 7 in; 6.37 in; 10.00 ftKB; 8,463.00 ftKB

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HILCORP ENERGY COMPANY
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INGWERSON 4 - PROPOSED WELLBORE SCHEMATIC

Hilcorp Energy Company

P&A WBD - Proposed Schematic

Well Name: INGWERSON 4

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
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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)**
7,134.00	7,144.00		10.00		

Original Hole

MD (ftKB)	Formation Tops	MD
9.8		
505.9		
556.1		
1,410.1		
1,460.0		
1,560.0	NACIMIENTO	1,560.0
1,562.0		
1,609.9		
2,537.1		
2,586.9		
2,687.0	OJO ALAMO	2,687.0
2,783.1	KIRTLAND	2,783.0
2,834.0	FRUITLAND	2,834.0
3,060.0	PICTURED C...	3,060.0
3,062.0		
3,109.9		
3,750.0		
3,799.9		
3,924.9	CHACRA	3,925.0
3,926.8		
3,980.1		
3,965.9		
4,591.9		
4,691.9	CLIFF HOUSE	4,692.0
4,708.0	MENEFEE	4,708.0
4,742.1		
5,200.1	POINT LOO...	5,200.0
5,235.9		
5,336.0	MANCOS	5,336.0
5,386.2		
6,350.1		
6,500.0		
6,502.0		
6,520.0		
6,540.0	GALLUP	6,540.0
6,555.1		
6,700.1		
7,280.8	GRANEROS	7,281.0
7,464.9	DAKOTA	7,465.0
7,716.9	MORRISON	7,717.0
8,395.0		
8,397.0		
8,401.9	ENTRADA	8,402.0
8,404.9		
8,410.1		
8,412.1		
8,413.1		
8,462.9		

Vertical schematic (proposed)

1; Surface, 506.00ftKB; 9 5/8 in; 8.92 in; 10.00 ftKB; 506.00 ftKB

556-556ftKB on 12/31/2024 00:00 (SQUEEZE PERFS); 556.00; 2024-12-31

6.366 in, CICR, 1,560.0, 1,562.0; 1,560.00-1,562.00

1610-1610ftKB on 12/31/2024 00:00 (SQUEEZE PERFS); 1,610.00; 2024-12-31

6.366 in, CICR, 3,060.0, 3,062.0; 3,060.00-3,062.00

3110-3110ftKB on 12/31/2024 00:00 (SQUEEZE PERFS); 3,110.00; 2024-12-31

6.366 in, CICR, 3,925.0, 3,927.0; 3,925.00-3,927.00

3950-3950ftKB on 12/31/2024 00:00 (SQUEEZE PERFS); 3,950.00; 2024-12-31

6.366 in, CIBP or CICR, 6,500.0, 6,502.0; 6,500.00-6,502.00

6520-6555ftKB on 7/15/1966 13:58 (PERF - GALLUP); 6,520.00-6,555.00; 1966-07-15 13:58

Plug (PBTD); 6,700.00

8395-8397ftKB on 12/8/1953 13:57 (PERF - OTHER); 8,395.00-8,397.00; 1953-12-08 13:57

8402-8405ftKB on 12/8/1953 13:57 (PERF - OTHER); 8,402.00-8,405.00; 1953-12-08 13:57

8412-8413ftKB on 12/8/1953 13:57 (PERF - OTHER); 8,412.00-8,413.00; 1953-12-08 13:57

2; Production, 8,463.00ftKB; 7 in; 6.37 in; 10.00 ftKB; 8,463.00 ftKB

PLUG #7b: Surface Casing Shoe, Plug, 12/31/2024 00:00; 10.00-556.00; 2024-12-31; 107sx Class G (1.15 yld)

Surface Casing Cement, Casing, 12/8/1953 00:00; 10.00-506.00; 1953-12-08; 550sx

PLUG #7a: Surface Casing Shoe, Casing, 12/31/2024 00:00; 10.00-556.00; 2024-12-31; 81sx Class G (1.15 yld)

PLUG #6b: NAC, Plug, 12/31/2024 00:00; 1,460.00-1,610.00; 2024-12-31; 30sx Class G (1.15 yld); 5sx Below CICR & 25sx Above CICR

PLUG #6a: NAC, Casing, 12/31/2024 00:00; 1,410.00-1,610.00; 2024-12-31; 27sx Class G (1.15 yld)

PLUG #5b: PC, FRD, KRD, & OJO, Plug, 12/31/2024 00:00; 2,587.00-3,110.00; 2024-12-31; 101sx Class G (1.15 yld); 10sx Below CICR & 91sx Above CICR

PLUG #5a: PC, FRD, KRD, & OJO, Casing, 12/31/2024 00:00; 2,537.00-3,110.00; 2024-12-31; 75sx Class G (1.15 yld)

PLUG #4b: CHC, Plug, 12/31/2024 00:00; 3,800.00-3,950.00; 2024-12-31; 30sx Class G (1.15 yld); 5sx Below CICR & 25sx Above CICR

PLUG #4a: CHC, Casing, 12/31/2024 00:00; 3,750.00-3,950.00; 2024-12-31; 27sx Class G (1.15 yld)

PLUG #3: MV, Plug, 12/31/2024 00:00; 4,592.00-4,742.00; 2024-12-31; 29sx Class G (1.15 yld)

PLUG #2: MCS, Plug, 12/31/2024 00:00; 5,236.00-5,386.00; 2024-12-31; 29sx Class G (1.15 yld)

Production Casing Cement, Casing, 12/8/1953 00:00; 3,966.00-8,463.00; 1953-12-08; 750sx (TOC @ 3,966' by Calc. Assuming 1.06 yld)

PLUG #1: GAL & GAL Perfs, Plug, 12/31/2024 00:00; 6,350.00-6,500.00; 2024-12-31; 29sx Class G (1.15 yld)

Cement Squeeze, Squeeze, 3/12/1954 00:00; 8,395.00-8,413.00; 1954-03-12; Squeeze Off Original Perfs w/ 350sx

Production Casing Cement, Casing, 12/8/1953 00:00 (plug); 8,410.00-8,463.00; 1953-12-08; 750sx (TOC @ 3,966' by Calc. Assuming 1.06 yld)

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Hilcorp Energy

Ingwerson 4

36.290760, -107.070623

API-30-039-05340

26N-09W SEC 09

Final Reclamation Plan

Onsite Completed on 09/10/2024 with Roger Herrera (BLM), Bryan Hall, Daniel Sloan (Enterprise Pipeline)

1. Pick up and remove all trash, metal, cable, and any foreign debris within 100’ of location.
2. Remove anchors.
3. Strip equipment off facility.
4. Remove Line Drip.
5. Bury Gravel.
6. Remove piping and cables.
7. Enterprise to remove meter run and piping back to dog leg.
8. Reclaim road. Install water bars to control water. Pull edges of road back into road.
9. Install berm at beginning of the access road.
10. Rip bare soil, leaving rough terrain.
11. Re-seed all disturbed areas. Drill where applicable at rate per acre defined by seed mix(2.5 acres), and broadcast seed and harrow, at double the rate, all other disturbed areas. BLM Special seed mix will be used.


Ingerson 4, 36.290760, -107.070623


36.290760, -107.070623

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
https://www.blm.gov/new-mexico

In Reply Refer To:
NMNM 105466052 (MLRS)
NMSF 078909 (Legacy)
LLNMF01110

CERTIFIED- RETURN RECEIPT REQUESTED
9171 9690 0935 0289 4018 30

Hilcorp San Juan LP
1111 Travis St
Houston, TX 77002

NOTICE OF WRITTEN ORDER NO. 24MHK0020W

The Bureau of Land Management Farmington Field Office (FFO) records show Hilcorp San Juan LP is the current record title and/or operating rights owner of Federal oil and gas Lease NMSF 078909. See enclosed for the adjudication for the lease.

Problem: An inspection was performed on the Ingwerson #4 well (US Well No. 30-039-05340), located in T. 24N, R. 02W, Sec. 20, SWSE, in Rio Arriba County, NM. The well was found in non-operational status. BLM review of reports submitted to the Office of Natural Resources and Revenue for this lease indicate the well has not been reported since January 2021 and has not produced since September 2020. Reports submitted to the New Mexico Oil Conservation Division last production in April 2021, and has not been reported since July 2021.

We are notifying you that the approved oil and gas operator J.B. Martinez did not comply with the orders of the authorized officer to return the well to production or plug and abandon the well and reclaim the surface of lands disturbed in connection with the conduct of operations. As a result of their failure to respond to the orders of the authorized officer, additional enforcement actions, assessments and civil penalties were issued.

Pursuant to 43 C.F.R. 3106.7-6 paragraphs (a) and (b), "if you acquire record title interest in a Federal lease, you agree to comply with the terms of the original lease during your lease tenure. You assume the responsibility to plug and abandon all wells which are no longer capable of producing, reclaim the lease site, and remedy all environmental problems in existence and that a purchaser exercising reasonable diligence should have known at the time. You must also maintain an adequate bond to ensure performance of these responsibilities. If you acquire operating rights in a Federal lease, you agree to comply with the terms of the original lease as it applies to the area or horizons in which you acquired rights. You must plug and abandon all unplugged wells, reclaim the lease site, and remedy all environmental problems in existence and that a purchaser exercising reasonable diligence should have known at the time you receive the

transfer. You must also maintain an adequate bond to ensure performance of these responsibilities."

Corrective Action: Regulations at 43 C.F.R. 3161.2 state that the authorized officer may issue written or oral orders to govern specific lease operations. For the Ingwerson #4 well (US Well No. 30-039-05340), you are hereby ordered to submit a Sundry Notice, Notice of Intent (Form 3160-5), and request, or plan, with all the required information to:

1. Return the well to production, including timeframes, and notification to the authorized officer no later than the 5th business day after the well has resumed production; or

2. Plug and abandon the well and reclaim the site(s) and all associated disturbance including utility corridor(s), access road(s), and removal of associated facilities and equipment.

The information must be submitted by October 1, 2024. In accordance with 43 C.F.R. 3163.1(a), you must comply with the corrective actions for the identified issue(s) by the abatement date provided above. If you fail to comply within the time frames specified, you will be issued an Incident of Noncompliance (INC) in accordance with 43 C.F.R. 3163.1(a), which may include an assessment or additional enforcement actions as deemed necessary to gain compliance.

REVIEW AND APPEAL RIGHTS

Under provisions of 43 C.F.R. 3165.3, you may request an Administrative Review before the State Director, either with or without oral presentation, of the order described above. Such a request, including all supporting documentation, must be filed in writing with the State Director, Bureau of Land Management, 301 Dinosaur Trail, Santa Fe, NM 87508 within 20 business days of the date this notice was received or considered to have been received. Such a request shall not result in a suspension of the order unless the reviewing official so determines.

The State Director review decision may be appealed to the Interior Board of Land Appeals, Office of the Secretary, in accordance with the regulations contained in 43 C.F.R., Part 4, as summarized in Form 1842-1 (copy attached).

If you have any questions, please contact Matthew Kade, Petroleum Engineer, at (505) 564-7736 or mkade@blm.gov.

Sincerely,

David J. Mankiewicz
Assistant Field Manager

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.

BLM - FFO - Geologic Report

Date Completed 9/24/2024

Well No.	Ingwerson 4			Surf. Loc.	660	FSL	1980 FEL
Lease No.	078909'				Sec	20	T24N R2W
				County	Rio Arriba		State New Mexico
Operator:	Hilcorp Energy Co.						
TVD	8463	PBTD	6700	Formation:	Gallup		
Elevation	GL	7134		Elevation	Est. KB	7144	(Estimated)

Geologic Formations	Est. tops	Subsea Elev.	Remarks
San Jose Fm.	Surface		
Nacimiento Fm.	1444	5700	Surface /fresh water sands
Ojo Alamo Ss	2644	4500	Fresh water aquifer
Kirtland Fm.	2854	4290	
Fruitland Fm.	2963	4181	Coal/gas/possible water
Pictured Cliffs	3104	4040	Possible gas/water
Lewis Shale (Main)	3272	3872	Source rock
Huerfanito Bentonite	3543	3601	Reference bed
Chacra (lower)	3962	3182	Possible gas/water
Cliff House Ss	4862	2282	Possible gas/water
Menefee Fm.	4932	2212	Coal/water/possible gas
Point Lookout Fm.	5252	1892	Possible gas/water
Mancos Shale	5532	1612	Source rock
Gallup	6482	662	Oil & gas

Remarks:

-Vertical wellbore, all formation depths are TVD from KB at the wellhead.
-Modify the Plug 1 TOC to 6336' to account for the BLM geologist's pick for the Gallup.
-Modify the Plug 2 TOC to 5460' and the BOC to 5610' to account for the BLM geologist's pick for the Mancos.

-Modify the Plug 3 TOC to 4790' and the BOC to 4940' to account for the BLM geologist's pick for the Cliff House.

-Place the CICR for Plug 4 at 3990' with the squeeze holes at 4040' and the inner and outer TOC's at a minimum of 3890' to account for the BLM geologist's Chacra top.

-Place the CICR for Plug 5 at 3104' with the squeeze holes at 3154' and the inner and outer TOC's at a minimum of 2587' to account for the BLM geologist's Pictured Cliffs and Ojo Alamo tops.

-Place the CICR for Plug 6 at 1444' with the squeeze holes at 1494' and the inner and outer TOC's at a minimum of 1344' to account for the BLM geologist's Nacimiento top.

Reference Well:

Morning Star Operating
Lindrith Unit 1
Surface - Pictured Cliffs
1800 FSL, 1650 FEL,
20J-24N-2W,
GL= 7091', KB= 7100'

Hilcorp Energy Co
Miller Com 1
Lewis Shale-Gallup
1835' FNL, 1980' FEL
17G-24N-2W
GL= 7163', KB= 7172'

Prepared by: Walter Gage

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

September 24, 2024

Notice of Intent - Plug and Abandonment

Operator: Hilcorp Energy Company
Lease: NMSF078909
Well(s): Ingwerson 4, API # 30-039-05340
Location: SWSE Sec 20 T24N R2W (Rio Arriba County, NM)
Sundry Notice ID#: 2811634

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. **NOTE: Not all changes provided on the BLM geology report correspond to changes noted on the BLM engineering COAs. Follow the BLM engineering COAs.**

   b. Adjust Plug #2 to cover BLM Mancos formation top pick @ 5532'. Estimated minimum 29 sxs class G cement (5610' to 5460'). If pressure test fails, this plug must be tagged at 5460' or shallower.

   c. Adjust Plug #3 to cover BLM Cliff House/Mesaverde formation top pick @ 4862'. Estimated minimum of 29 sxs class G cement (4940' to 4790'). If pressure test fails, this plug must be tagged at 4790' or shallower.

   d. Adjust Plug #4 to cover BLM Chacra formation top picks @ 3962'. Assuming TOC is below 4012', perforate squeeze holes @ 4012' and set CICR @ 3962'. Bring TOC inside and outside to 3862'. Assuming TOC is @ 3966' as suggested, perforate squeeze holes @ +/- 3950' and bring cement from 4012' to 3862' inside and outside.

   e. Adjust Plug #5 to cover BLM Picture Cliffs, Fruitland, Kirtland, and Ojo Alamo formation top picks @ 3104', 2963', 2854', and 2644' respectively. Perforate squeeze holes @ 3154' and set CICR @ 3104'. Bring TOC inside and outside to a minimum of 2594', with a preference of TOC inside and outside at 2544'.

   f. Adjust Plug #6 to cover BLM Nacimiento formation top pick @ 1444'. Perforate squeeze holes @ 1494' and set CICR @ 1444'. Bring TOC inside and outside to a minimum of 1384', with a preference

of TOC inside and outside at 1344'.

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

4. **Deadline of Completion of Operations:** Complete the plugging operation before September 24, 2025. If unable to meet 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. Estimated minimum sacks provided here include the necessary excesses.

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

M. Kade (mkade@blm.gov / 505-564-7736)/ K. Rennick (krennick@blm.gov / 505-564-7724)

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
Standard Plugging Conditions

This document provides OCD's general plugging conditions of approval. It should be noted that the list below may not cover special plugging programs in unique and unusual cases, and OCD expressly reserves the right to impose additional requirements to the extent dictated by project conditions. The OCD also reserves the right to approve deviations from the below conditions if field conditions warrant a change. A C-103F NOI to P&A must be approved prior to plugging operations. Failure to comply with the conditions attached to a plugging approval may result in a violation of 19.15.5.11 NMAC, which may result in enforcement actions, including but not limited to penalties and a requirement that the well be re-plugged as necessary.

1. Notify OCD office at least 24 hours before beginning work and seek prior approval to implementing any changes to the C-103 NOI to PA.
    - North Contact, Monica Kuehling, 505-320-0243, monica.kuehling@emnrd.nm.gov
    - South Contact, Gilbert Cordero, 575-626-0830, gilbert.cordero@emnrd.nm.gov

2. A Cement Bond Log is required to ensure strata isolation of producing formations, protection of water and correlative rights. A CBL must be run or be on file that can be used to properly evaluate the cement behind the casing.

    Note: Logs must be submitted to OCD via OCD permitting. A copy of the log may be emailed to OCD inspector for faster review times, but emailing does not relieve the operators obligation to submit through OCD permitting.

3. Once Plugging operations have commenced, the rig must not rig down until the well is fully plugged without OCD approval. If gap in plugging operations exceeds 30 days, the Operator must file a subsequent sundry of work performed and revised NOI for approval on work remaining. At no time shall the rig be removed from location if it will result in waste or contamination of fresh water.

4. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.

5. Fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
    - North, water or mud laden fluids
    - South, mud laden fluids

6. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to an OCD permitted disposal facility.

7. Class of cement shall be used in accordance with the below table for depth allowed.

Class	TVD Lower Limit (feet)
Class A/B	6,000
Class I/II	6,000
Class C or III	6,000
Class G and H	8,000
Class D	10,000
Class E	14,000
Class F	16,000

8. After cutting the well head any "top off cement jobs" must remain static for 30 minutes. Any gas bubbles or flow during this 30 minutes shall be reported to the OCD for approval of next steps.

9. Trucking companies being used to haul oilfield waste fluids (Commercial or Private) to a disposal facility shall have an approved OCD C-133 permit.
    - A copy of this permit shall be available in each truck used to haul waste products.
    - It is the responsibility of the Operator and Contractor to verify that this permit is in place prior to performing work.
    - Drivers shall be able to produce a copy upon request of an OCD Compliance Officer.

10. Filing a [C-103] Sub. Plugging (C-103P) will serve as notification that the well has been plugged.

11. A [C-103] Sub. Release After P&A (C-103Q) shall be filed no later than a year after plugging and a site inspection by OCD Compliance officer to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to meet OCD standards before bonding can be released.

12. Produced water or brine-based fluids may not be used during any part of plugging operations without prior OCD approval.

13. Cementing;
    - All cement plugs will be neat cement and a minimum of 100' in length. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
    - If cement does not exist between or behind the casing strings at recommended formation depths, the casing perforations will be shot at 50' below the formation top and the cement retainer shall be set no more than 50' from the perforations.
    - WOC (Wait on Cement) time will be:
        - 4 hours for accelerated (calcium chloride) cement.
        - 6 hours on regular cement.
    - Operator must tag all cement plugs unless it meets the below condition.
        - The operator has a passing pressure test for the casing annulus and the plug is only an inside plug.
    - If perforations are made operator must tag all plugs using the work string to tag unless given approval to tag with wireline by the correct contact from COA #1 of this document.
        - This includes plugs pumped underneath a cement retainer to ensure retainer seats properly after cement is pumped.
    - Cement can only be bull-headed with specific prior approval.
    - Squeeze pressures are not to exceed the exposed formations frac gradient or the burst pressure of the casing.

14. A cement plug is required to be set from 50’ below to 50’ above (straddling) formation tops, casing shoes, casing stubs, any attempted casing cut offs, anywhere the casing is perforated, DV tools.
    - Perforation/Formation top plug. (When there is less than 100ft between the top perforation to the formation top.) These plugs are required to be started no greater than 50ft from the top perforation. However, the plug should be set below the formation top or as close to the formation top as possible for the maximum isolation between the formations. The plug is required to be a 100ft cement plug plus excess.
    - Perforation Plug when a formation top is not included. These plugs are required to be started within 50ft of the top perforation. The plug is required to be a 100ft cement plug plus excess.
    - Cement caps on top of bridge plugs or cement retainers for perforation plugs, that are not straddling a formation top, may be set using a bailer with a minimum of 35’ of cement in lieu of the 100’ plug. The bridge plug or retainer must be set within 50ft of the perforations.
    - Perforations are required below the surface casing shoe if cement does not exist behind the casing, a 30-minute minimum wait time will be required immediately after perforating 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. If gas is detected contact the OCD office for directions.

15. No more than 3000 feet is allowed between cement plugs in cased hole and no more than 2000 feet is allowed in open hole.

16. Formation Tops to be isolated with cement plugs, but not limited to are:
    - Northwest See Figure A
    - South (Artesia) See Figure B
    - Potash See Figure C
        - In the R-111-P (Or as subsequently revised) Area a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, woe 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
    - South (Hobbs) See Figure D1 and D2
    - Areas not provided above will need to be reviewed with the OCD on a case by case basis.

17. Markers
    - Dry hole marker requirements 19.15.25.10.
      The operator shall mark the exact location of plugged and abandoned wells with a steel marker not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The marker must include the below information:
        1. Operator name
        2. Lease name and well number
        3. API number
        4. Unit letter
        5. Section, Township and Range

- AGRICULTURE (Below grade markers)
  In Agricultural areas a request can be made for a below ground marker. For a below ground marker the operator must file their request on a C-103 notice of intent, and it must include the following;
  A) Aerial photo showing the agricultural area
  B) Request from the landowner for the below ground marker.
  C) Subsequent plugging report for a well using a below ground marker must have an updated C-102 signed by a certified surveyor for SHL.

  Note: A below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to OCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to OCD. OCD requires a current survey to verify the location of the below ground marker, however OCD will accept a GPS coordinate that were taken with a GPS that has an accuracy of within 15 feet.

18. If work has not commenced within 1 year of the approval of this procedure, the approval is automatically expired. After 1 year a new [C-103] NOI Plugging (C-103F) must be submitted and approved prior to work.

Figure A

North Formations to be isolated with cement plugs are:

- San Jose
- Nacimiento
- Ojo Alamo
- Kirtland
- Fruitland
- Picture Cliffs
- Chacra (if below the Chacra Line)
- Mesa Verde Group
- Mancos
- Gallup
- Basin Dakota (plugged at the top of the Graneros)
- Deeper formations will be reviewed on a case-by-case basis

Figure B

South (Artesia) Formations to be isolated with cement plugs are:

- Fusselman
- Montoya
- Devonian
- Morrow
- Strawn
- Atoka
- Permo-Penn
- Wolfcamp
- Bone Springs
- Delaware , in certain areas where the Delaware is subdivided into;
  - 1. Bell Canyon
  - 2. Cherry Canyon
  - 3. Brushy Canyon
- Any salt sections
- Abo
- Yeso
- Glorieta
- San Andres
- Greyburg
- Queen
- Yates

Figure C

Potash Area R-111-P

T 18S – R 30E
Sec 10 Unit P. Sec 11 Unit M,N. Sec 13 Unit L,M,N. Sec 14 Unit C -P. Sec 15 Unit A G,H,I,J,K,N,O,P. Sec 22 Unit All
except for M. Sec 23, Sec 24 Unit C,D,E,L, Sec 26 Unit A-G, Sec 27 Unit A,B,C

T 19S – R 29E
Sec 11 Unit P. Sec 12 Unit H-P. Sec 13. Sec 14 Unit A,B,F-P. Sec 15 Unit P. Sec 22 Unit A,B,C,F,G,H,I,J K,N,O,P. Sec 23.
Sec 24. Sec 25 Unit D. Sec 26 Unit A- F. Sec 27 Unit A,B,C,F,G,H.

T 19S – R 30E
Sec 2 Unit K,L,M,N. Sec 3 Unit I,L,M,N,O,P. Sec 4 Unit C,D,E,F,G,I-P. Sec 5 Unit A,B,C,E-P. Sec 6 Unit I,O,P. Sec 7 – Sec
10. Sec 11 Unit D, G—P. Sec 12 Unit A,B,E-P. Sec 13 Unit A-O. Sec 14-Sec 18. Sec 19 Unit A-L, P. Sec 20 – Sec 23. Sec
24 Unit C,D,E,F,L,M,N. Sec 25 Unit D. Sec 26 Unit A-G, I-P. Sec 27, Sec 28, Sec 29 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 32
Unit A,B,G,H,I,J,N,O,P. Sec 33. Sec 34. Sec 35. Sec 36 Unit D,E,F,I-P.

T 19S – R 31E
Sec 7 Unit C,D,E,F,L. Sec 18 Unit C,D,E,F,G,K,L. Sec 31 Unit M. Sec 34 Unit P. Sec 35 Unit M,N,O. Sec 36 Unit O,P.

T 20S – R 29E
Sec 1 Unit H,I,P. Sec 13 Unit E,L,M,N. Sec 14 Unit B-P. Sec 15 Unit A,H,I,J,N,O,P. Sec 22 Unit A,B,C,F,G,H,I,J,O,P. Sec
23. Sec 24 Unit C,D,E,F,G,J-P. Sec 25 Unit A-O. Sec 26. Sec 27 Unit A,B,G,H,I,J,O,P. Sec 34 Unit A,B,G,H. Sec 35 Unit
A-H. Sec 36 Unit B-G.

T 20S – R 30E
Sec 1 – Sec 4. Sec 5 Unit A,B,C,E-P. Sec 6 Unit E,G-P. Sec 7 Unit A-H,I,J,O,P. Sec 8 – 17. Sec 18 Unit A,B,G,H,I,J,O,P.
Sec 19 Unit A,B,G,H,I,J,O,P. Sec 20 – 29. Sec 30 Unit A-L,N,O,P. Sec 31 Unit A,B,G,H,I,P. Sec 32 – Sec 36.

T 20S – R 31E
Sec 1 Unit A,B,C,E-P. Sec 2. Sec 3 Unit A,B,G,H,I,J,O,P. Sec 6 Unit D,E,F,J-P. Sec 7. Sec 8 Unit E-P. Sec 9 Unit E,F,J-P.
Sec 10 Unit A,B,G-P. Sec 11 – Sec 36.

T 21S – R 29E
Sec 1 – Sec 3. Sec 4 Unit L1 – L16,I,J,K,O,P. Sec 5 Unit L1. Sec 10 Unit A,B,H,P. Sec 11 – Sec 14. Sec 15 Unit A,H,I. Sec
23 Unit A,B. Sec 24 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 25 Unit A,O,P. Sec 35 Unit G,H,I,J,K,N,O,P. Sec 36 A,B,C,F – P.

T 21S – R 30E
Sec 1 – Sec 36

T 21S – R 31E

Sec 1 – Sec 36

T 22S – R 28E
Sec 36 Unit A,H,I,P.

T 22S – R 29E
Sec 1. Sec2. Sec 3 Unit I,J,N,O,P. Sec 9 Unit G – P. Sec 10 – Sec 16. Sec 19 Unit H,I,J. Sec 20 – Sec 28. Sec 29 Unit
A,B,C,D,G,H,I,J,O,P. Sec 30 Unit A. Section 31 Unit C – P. Sec 32 – Sec 36

T 22S – R 30E
Sec 1 – Sec 36

T 22S – R 31E
Sec 1 – Sec 11. Sec 12 Unit B,C,D,E,F,L. Sec 13 Unit E,F,K,L,M,N. Sec 14 – Sec 23. Sec 24 Unit
C,D,E,F,K,L,M,N. Sec 25
Unit A,B,C,D. Sec 26 Unit A,BC,D,G,H. Sec 27 – Sec 34.

T 23S – R 28E
Sec 1 Unit A

T 23S – R 29E
Sec 1 – Sec 5. Sec 6 Unit A – I, N,O,P. Sec 7 Unit A,B,C,G,H,I,P. Sec 8 Unit A – L, N,O,P. Sec 9 – Sec 16. Sec 17 Unit
A,B,G,H,I,P. Sec 21 – Sec 23. Sec 24 Unit A – N. Sec 25 Unit D,E,L. Sec 26. Sec 27. Sec 28 Unit A – J, N,O,P. Sec 33
Unit A,B,C. Sec 34 Unit A,B,C,D,F,G,H. Sec 35. Sec 36 Unit B,C,D,E,F,G,K,L.

T 23S – R 30E
Sec 1 – Sec 18. Sec 19 Unit A – I,N,O,P. Sec 20, Sec 21. Sec 22 Unit A – N, P. Sec 23, Sec 24, Sec 25. Sec 26 Unit
A,B,F-P. Sec 27 Unit C,D,E,I,N,O,P. Sec 28 Unit A – H, K,L,M,N. Sec 29 Unit A – J, O,P. Sec 30 Unit A,B. Sec 32 A,B. Sec
33 Unit C,D,H,I,O,P. Sec 34, Sec 35, Sec 36.

T 23S – R 31E
Sec 2 Unit D,E,J,O. Sec 3 – Sec 7. Sec 8 Unit A – G, K – N. Sec 9 Unit A,B,C,D. Sec 10 Unit D,P. Sec 11 Unit G,H,I,J,M,N,O,P. Sec 12 Unit E,L,K,M,N. Sec 13 Unit C,D,E,F,G,J,K,L,M,N,O. Sec 14. Sec 15 Unit A,B,E – P. Sec 16 Unit
I, K – P. Sec 17 Unit B,C,D,E, I – P. Sec 18 – Sec 23. Sec 24 Unit B – G, K,L,M,N. Sec 25 Unit B – G, J,K,L. Sec 26 – Sec
34. Sec 35 Unit C,D,E.

T 24S – R 29E
Sec 2 Unit A, B, C, D. Sec 3 Unit A

T 24S – R 30E
Sec 1 Unit A – H, J – N. Sec 2, Sec 3. Sec 4 Unit A,B,F – K, M,N,O,P. Sec 9 Unit A – L. Sec 10 Unit A – L, O,P. Sec 11.
Sec 12 Unit D,E,L. Sec 14 Unit B – G. Sec 15 Unit A,B,G,H.

T 24S – R 31E
Sec 3 Unit B – G, J – O. Sec 4. Sec 5 Unit A – L, P. Sec 6 Unit A – L. Sec 9 Unit A – J, O,P. Sec 10 Unit B – G, K – N. Sec
35 Unit E – P. Sec 36 Unit E,K,L,M,N.

T 25S – R 31E
Sec 1 Unit C,D,E,F. Sec 2 Unit A – H.

Figure D1 and D2

South (Hobbs) Formations to be isolated with cement plugs are:

The plugging requirements in the Hobbs Area are based on the well location within specific areas of the Area (See Figure D1). The Formations in the Hobbs Area to be isolated with cement plugs are (see Figure D2)

Figure D1 Map

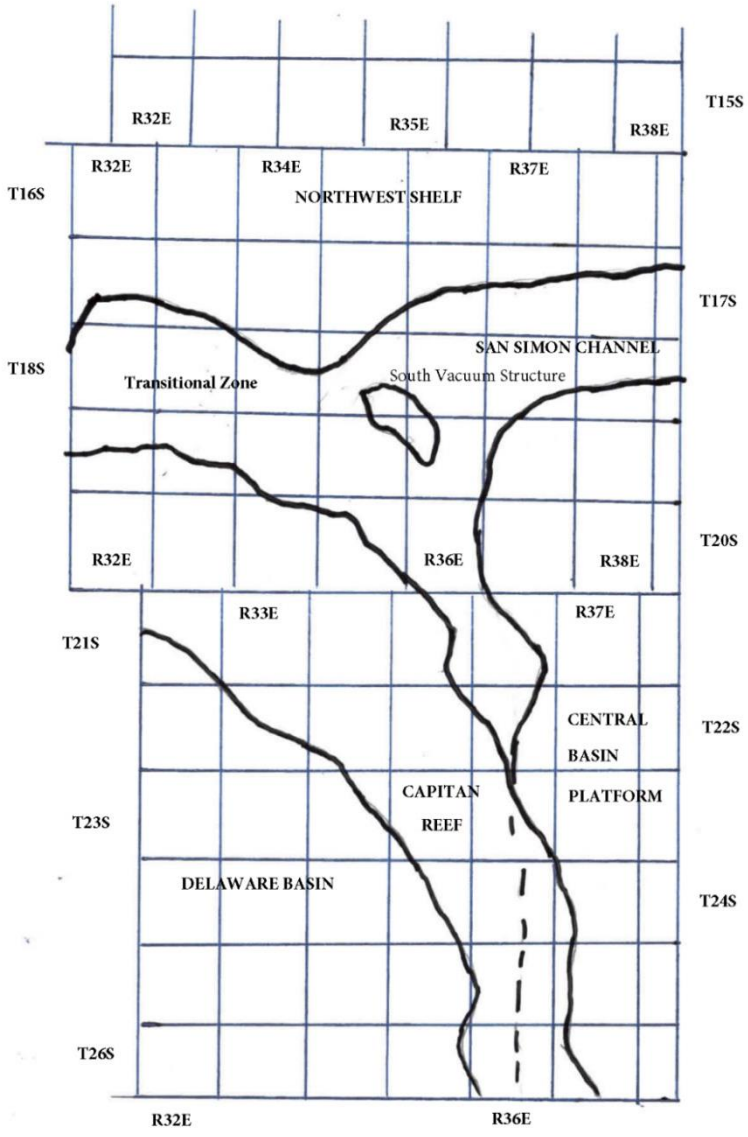

Figure D2 Formation Table

100' P'lug to isolate upper and lower fresh water zones (typiailly 2.50' to 350')						
ND!rthwest Shelf	**C;iptan Reef Are<a**	**Trani5ition Zone**	**San Simon Oh.annel**	**South \lacJUUm Structure**	**Delaware Basin**	**Ce<n,tiral Basin Platform**
Granit \./ash (Detrital basement material and fractured pre-Cambrian basement rock)	Siluro-Devonian	Morrow	Siluro-Devonian	Ellenburger	Siluro-Devonian	Granit \./ash (Detrital basement material, fractured pre-Cambrian basement rock and fracture Mafic Volcanic intrusives).
Montoya	Mississippian	Atoka	Morrow	Mckee	Morrow	Ellenburger
Fusselman	Morrow	Strawn	\./olfcamp	Siluro-Devonian	Atoka	Connell
Woodford	Atoka	Cisco	Abo Reef	Woodford	Strawn	Waddell
Siluro-Devonian	Strawn	Pennsylvanian	Bone Spring	Mississippian	Pennsylvanian	Mckee
Chester	Pennsylvanian	\./olfcamp	Delaware	Barnett Shale	Low er \./olfcamp	Simpson Group
Austin	\./olfcamp	Bone Spring	San Andres	Morrow	Upper \./olfcamp	Montoya
Mississippian	Abo Reef, if present	Delaware	Queen	Atoka	\./olfcamp	Fusselman
Morrow	Abo, if present	San Andres	Yates	Strawn	Third Bone Spring Sand (Top of \./olfbone)	Silurian
Atoka	Queen, if present	Grayburg-San Andres	Base of Salt	Canyon	First Bone Spring Sand (Top of Lower Bone Spring)	Devonian
Lower Pennsylvanian	Bone Spring	Queen	Rustler	Pennsylvanian	Bone Spring	Strawn
Cisco-Canyon	Delaware	Seven Rivers		Blinebry	Brushy Canyon	Pennsylvanian
Pennsylvanian	Base Capitan Reef	Yates		Bone Spring	Delaw are (Base of Salt)	\./olfcamp
Bough	Seven Rivers	Base of Salt		San Andres	Rustler	Abo
\./olfcamp	Yates	Rustler		Queen		Abo Reef
Abo	Top Capitan Reef			Base of Salt		Drinkard
Abo Reef, if present	Base of Salt			Rustler		Tubb
Yeso (Township 15 South to Township 17 South)	Rustler					Blinebry
Drinkard or Low er Y eso (Township 15 South to Township 17 South)						Paddock
Tubb (Township 15 South to Township 17 South)						Glorieta
Blinebry (Township 15 South to Township 17 South)						San Andres
Pad dock (Township 15 South to Township 17 South)						Grayburg
Glorieta						Gr ayburg-San Andres
San Andres						Queen
Queen (Township 15 South to Township 17 South)						Seven Rivers
Seven Rivers (Township 15 South to Township 17 South)						Yates
Yates (Township 15 South to Township 17 South)						Base of Salt
Base of Salt						Rustler
Rustler						

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 386719

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 386719
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
loren.diede	NOtify NMOCD 24 hours prior to beginning P&A operations.	9/25/2024
loren.diede	NMOCD concurs with the BLM formation top picks. However, since there are no well logs for this well, NMOCD will want the opportunity to cross-check estimated formation tops with the CBL GR to confirm the estimated formation tops.	9/25/2024
loren.diede	NMOCD requires that the operator place a plug over the Gallup perforated interval with a cement plug from 6700' to at least 6490'. TIH with workstring, tag plug at 6700', spot a plug of 50 sx Class G cement from 6700'.	9/25/2024
loren.diede	CBL is to be submitted into NMOCD Imaging via Electronic Permitting.	9/25/2024
loren.diede	Submit a photo and GPS coordinates of the P&A marker with the subsequent P&A report.	9/25/2024