Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.
30-045-09298

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
HARTMAN 23

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

8. Well Number
1

2. Name of Operator
HILCORP ENERGY COMPANY

9. OGRID Number
372171

3. Address of Operator
382 Road 3100, Aztec, NM 87410

10. Pool name or Wildcat
Basin Dakota

4. Well Location
Unit Letter M : 1086’ feet from the South line and 832’ feet from the West line
Section 23 Township 30N Range 11W NMPM County San Juan

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
5888’

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Hilcorp Energy is requesting approval to plug and abandon the subject well after an unsuccessful bradenhead repair. Attached are the procedure, current and proposed schematics. A closed loop system will be used.

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Priscilla Shorty TITLE Operations/Regulatory Technician – Sr. DATE 2/8/2024

Type or print name Priscilla Shorty E-mail address: pshorty@hilcorp.com PHONE: (505) 324-5188

For State Use Only

APPROVED BY: TITLE DATE
Conditions of Approval (if any):

HILCORP ENERGY COMPANY
HARTMAN 23 1
P&A NOI

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. TIH w/ work string/tubing. Set a **4-1/2"** CIBP at +/- **6,650'** to isolate the **Dakota Formation**. ***Note that a 4-1/2" model D Packer is set at 6,656'.**
5. Load the well as needed. Pressure test the casing above the 4-1/2" CIBP set @ **6,650'** to **560 psig** for 30 minutes.
6. RU Wireline. Run CBL. Record Top of Cement. All subsequent plugs below are subject to change pending CBL results.
7. PU & TIH w/ tubing/work string to **+/- 6,650'**.
8. **Plug #1: 12sx of Class G Cement (15.8 PPG, 1.15 yield); DK Perfs @ 6,710':**
   Pump a 12 sack balanced cement plug (est. **TOC @ +/- 6,500'** & est.**BOC @ +/- 6,650'**). If "Step #5" pressure test failed, wait on Cement for 4 hours, tag TOC w/ work string. If "Step #5" pressure test passed, proceed without waiting on cement or tagging TOC. *Note cement plug lengths & volumes account for excess.
   .
9. TOOH w/ tubing/work string. TIH and perforate squeeze holes @ **+/- 5,897'**. RIH w/ **4-1/2" CICR** and set CICR @ **+/- 5,847'**. TIH with work string, sting into CICR, establish circulation.
10. **Plug #2: 48x of Class III "Select" Cement (14.8 PPG, 1.37 yield); Gallup Top @ 5,847':**
    Pump 37sx of cement between the 4-1/2" casing - 7-7/8" open hole annulus (est. **TOC @ +/- 5,697'** & est. **BOC @ +/- 5,897'**). Pump additional 4sx of cement beneath the 4-1/2" CICR (est. **TOC @ +/- 5,847'** & est. **BOC @ +/- 5,897'**). Sting out of retaininer, pump a 7 sack balanced cement plug on top of CICR. (est. **TOC @ +/- 5,747'** & est. **BOC @ +/- 5,847'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
11. TOOH w/ tubing/work string. TIH and perforate squeeze holes @ **+/- 4,926'**. RIH w/ **4-1/2" CICR** and set CICR @ **+/- 4,876'**. TIH with work string, sting into CICR, establish circulation.
12. **Plug #3: 48x of Class III "Select" Cement (14.8 PPG, 1.37 yield); Mancos Top @ 4,876':**
    Pump 37sx of cement between the 4-1/2" casing - 7-7/8" open hole annulus (est. **TOC @ +/- 4,726'** & est. **BOC @ +/- 4,926'**). Pump additional 4sx of cement beneath the 4-1/2" CICR (est. **TOC @ +/- 4,876'** & est. **BOC @ +/- 4,926'**). Sting out of retaininer, pump a 7 sack balanced cement plug on top of CICR. (est. **TOC @ +/- 4,776'** & est. **BOC @ +/- 4,876'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
13. Load the well as needed. Pressure test the casing above the plug set @ **4,776'** to **560 psig** for 30 minutes.
14. POOH w/ tubing/work string to **+/- 4,072'**.
15. **Plug #4: 20x of Class III "Select" Cement (14.8 PPG, 1.37 yield); MV Top @ 4,022':**
    Pump a 20 sack balanced cement plug (est. **TOC @ +/- 3,772'** & est. **BOC @ +/- 4,072'**). If "Step #13" pressure test failed, wait on Cement for 4 hours, tag TOC w/ work string. If "Step #13" pressure test passed, proceed without waiting on cement or tagging TOC. *Note cement plug lengths & volumes account for excess.
16. POOH w/ tubing/work string to **+/- 3,360'**.
17. **Plug #5: 10x of Class III "Select" Cement (14.8 PPG, 1.37 yield); Chacra Top @ 3,310':**
    Pump a 10 sack balanced cement plug (est. **TOC @ +/- 3,210'** & est. **BOC @ +/- 3,360'**). *Note cement plug lengths & volumes account for excess.
18. POOH w/ tubing/work string to **+/- 2,448'**.
19. **Plug #6: 17x of Class III "Select" Cement (14.8 PPG, 1.37 yield); DV Tool #1 @ 2,398' | PC Top @ 2,291':**
    Pump a 17 sack balanced cement plug (est. **TOC @ +/- 2,191'** & est. **BOC @ +/- 2,448'**). *Note cement plug lengths & volumes account for excess.
20. TOOH w/ tubing/work string. TIH and perforate squeeze holes @ **+/- 1,750'**. RIH w/ **4-1/2" CICR** and set CICR @ **+/- 1,700'**. TIH with work string, sting into CICR, establish circulation.
21. **Plug #7: 48x of Class III "Select" Cement (14.8 PPG, 1.37 yield); FRD Top @ 1,700':**
    Pump 37sx of cement between the 4-1/2" casing - 7-7/8" open hole annulus (est. **TOC @ +/- 1,550'** & est. **BOC @ +/- 1,750'**). Pump additional 4sx of cement beneath the 4-1/2" CICR (est. **TOC @ +/- 1,700'** & est. **BOC @ +/- 1,750'**). Sting out of retaininer, pump a 7 sack balanced cement plug on top of CICR. (est. **TOC @ +/- 1,600'** & est. **BOC @ +/- 1,700'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
22. Load the well as needed. Pressure test the casing above the plug set @ **1,600'** to **560 psig** for 30 minutes.
23. POOH w/ tubing/work string to **+/- 1,060'**.
24. **Plug #8: 17x of Class III "Select" Cement (14.8 PPG, 1.37 yield); KRD Top @ 1,010' | OJO Top @ 910':**
    Pump a 17 sack balanced cement plug (est. **TOC @ +/- 810'** & est. **BOC @ +/- 1,060'**). If "Step #22" pressure test failed, wait on Cement for 4 hours, tag TOC w/ work string. If "Step #22" pressure test passed, proceed without waiting on cement or tagging TOC. *Note cement plug lengths & volumes account for excess. *Also note that Plug #8 will be split if any bradenhead pressure is observed prior to pumping Plug #8.
25. POOH w/ tubing/work string to **+/- 348'**.
26. **Plug #9: 23sx of Class III "Select" Cement (14.8 PPG, 1.37 yield); Surface Plug**
    Pump a 23 sack balanced cement plug to surface (est. TOC @ **+/- 0'** & est. BOC @ **+/- 348'**).
27. 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
HARTMAN 23 1
P&A NOI

HARTMAN 23 1 - CURRENT WELLBORE SCHEMATIC

Hilcorp Energy Company

WBD - Current P&A

Well Name: HARTMAN 23 001

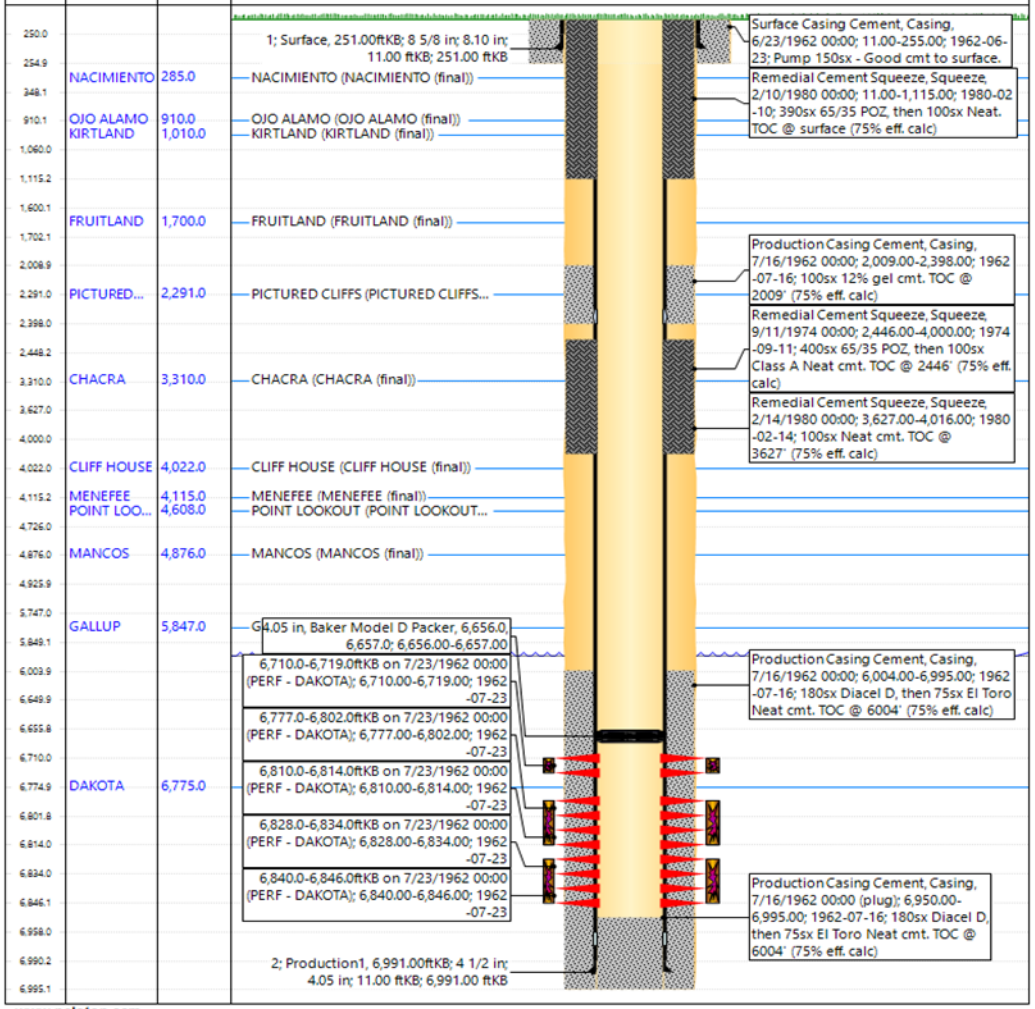
API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3004509298	023-030N-011W-M	DK	0700	NEW MEXICO	Vertical

Ground Elevation (ft)	Original KB/RT Elevation (ft)	RKB to GL (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
5,888.00	5,898.00	10.00	10.00	10.00

Original Hole [Vertical]

MD (ftKB)	Formation Tops	MD
250.0		
254.9	NACIMIENTO	285.0
348.1		
910.1	OJO ALAMO	910.0
1,060.0	KIRTLAND	1,010.0
1,115.2		
1,600.1	FRUITLAND	1,700.0
1,702.1		
2,009.9		
2,291.0	PICTURED...	2,291.0
2,398.0		
2,446.2		
3,310.0	CHACRA	3,310.0
3,627.0		
4,000.0		
4,022.0	CLIFF HOUSE	4,022.0
4,115.2	MENEFEE	4,115.0
4,608.0	POINT LOO...	4,608.0
4,726.0		
4,876.0	MANCOS	4,876.0
4,925.9		
5,747.0	GALLUP	5,847.0
5,849.1		
6,003.9		
6,649.9		
6,655.8		
6,710.0		
6,774.9	DAKOTA	6,775.0
6,801.8		
6,814.0		
6,834.0		
6,846.1		
6,958.0		
6,990.2		
6,995.1		

Vertical schematic (actual)



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HILCORP ENERGY COMPANY
HARTMAN 23 1
P&A NOI

HARTMAN 23 1 - PROPOSED WELLBORE SCHEMATIC

Hilcorp Energy Company

WBD - Proposed P&A

Well Name: HARTMAN 23 001

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3004509298	023-030N-011W-M	DK	0700	NEW MEXICO	Vertical

Ground Elevation (ft)	Original KB/RT Elevation (ft)	RKB to GL (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
5,888.00	5,898.00	10.00	10.00	10.00

Original Hole [Vertical]

MD (ftKB)	Formation Tops	MD
	NACIMIENTO	285.0
	OJO ALAMO	910.0
	KIRTLAND	1,010.0
	FRUITLAND	1,700.0
	PICTURED C...	2,291.0
	CHACRA	3,310.0
	CLIFF HOUSE	4,022.0
	MENEFEE	4,115.0
	POINT LOO...	4,608.0
	MANCOS	4,876.0
	GALLUP	5,847.0
	DAKOTA	6,775.0

Vertical schematic (proposed)

1; Surface, 251.00ftKB; 8 5/8 in; 8.10 in; 11.00 ftKB; 251.00 ftKB

4.05 in, CICR, 1,700.0, 1,702.0; 1,700.00-1,702.00

1,750.0-1,750.0ftKB on 12/31/2024 00:00 (SQUEEZE PERFS); 1,750.00; 2024-12-31

4.05 in, CICR, 4,876.0, 4,878.0; 4,876.00-4,878.00

4,926.0-4,926.0ftKB on 12/31/2024 00:00 (SQUEEZE PERFS); 4,926.00; 2024-12-31

4.05 in, CICR, 5,847.0, 5,849.0; 5,847.00-5,849.00

5,897.0-5,897.0ftKB on 12/31/2024 00:00 (SQUEEZE PERFS); 5,897.00; 2024-12-31

4.05 in, CIBP, 6,650.0, 6,652.0; 6,650.00-6,652.00

4.05 in, Baker Model D Packer, 6,656.0, 6,657.0; 6,656.00-6,657.00

6,710.0-6,719.0ftKB on 7/23/1962 00:00 (PERF - DAKOTA); 6,710.00-6,719.00; 1962-07-23

6,777.0-6,802.0ftKB on 7/23/1962 00:00 (PERF - DAKOTA); 6,777.00-6,802.00; 1962-07-23

6,810.0-6,814.0ftKB on 7/23/1962 00:00 (PERF - DAKOTA); 6,810.00-6,814.00; 1962-07-23

6,828.0-6,834.0ftKB on 7/23/1962 00:00 (PERF - DAKOTA); 6,828.00-6,834.00; 1962-07-23

6,840.0-6,846.0ftKB on 7/23/1962 00:00 (PERF - DAKOTA); 6,840.00-6,846.00; 1962-07-23

2; Production1, 6,991.00ftKB; 4 1/2 in; 4.05 in; 11.00 ftKB; 6,991.00 ftKB

Plug #9: (NAC & Surface). Plug. 12/31/2024 00:00; 11.00-348.00; 2024-12-31; 23sx Class III Cmt (1.37 yield)

Surface Casing Cement. Casing. 6/23/1962 00:00; 11.00-255.00; 1962-06-23; Pump 150sx - Good cmt to surface.

Remedial Cement Squeeze. Squeeze. 2/10/1980 00:00; 11.00-1,115.00; 1980-02-10; 390sx 65/35 POZ, then 100sx Neat. TOC @ surface (75% eff. calc)

Plug #8: (KRD & OJO). Plug. 12/31/2024 00:00; 810.00-1,060.00; 2024-12-31; 17sx Class III Cmt (1.37 yield)

Plug #7b: (FRD). Plug. 12/31/2024 00:00; 1,600.00-1,750.00; 2024-12-31; 4sx below CICR, 7sx above CICR of Class III Cmt (1.37 yield)

Plug #7a: (FRD). Casing. 12/31/2024 00:00; 1,550.00-1,750.00; 2024-12-31; 37sx Class III Cmt (1.37 yield)

Plug #6: (DV #1 & PC). Plug. 12/31/2024 00:00; 2,191.00-2,448.00; 2024-12-31; 17sx Class III Cmt (1.37 yield)

Production Casing Cement. Casing. 7/16/1962 00:00; 2,009.00-2,398.00; 1962-07-16; 100sx 12% gel cmt. TOC @ 2009' (75% eff. calc)

Plug #5: (Chacra). Plug. 12/31/2024 00:00; 3,210.00-3,360.00; 2024-12-31; 10sx Class III Cmt (1.37 yield)

Remedial Cement Squeeze. Squeeze. 9/11/1974 00:00; 2,446.00-4,000.00; 1974-09-11; 400sx 65/35 POZ, then 100sx Class A Neat cmt. TOC @ 2446' (75% eff. calc)

Plug #4: (MV). Plug. 12/31/2024 00:00; 3,772.00-4,072.00; 2024-12-31; 20sx Class III Cmt (1.37 yield)

Remedial Cement Squeeze. Squeeze. 2/14/1980 00:00; 3,627.00-4,016.00; 1980-02-14; 100sx Neat cmt. TOC @ 3627' (75% eff. calc)

Plug #3b: (Mancos). Plug. 12/31/2024 00:00; 4,776.00-4,926.00; 2024-12-31; 4sx below CICR, 7sx above CICR of Class III Cmt (1.37 yield)

Plug #3a: (Mancos). Casing. 12/31/2024 00:00; 4,726.00-4,926.00; 2024-12-31; 37sx Class III Cmt (1.37 yield)

Plug #2b: (GAL). Plug. 12/31/2024 00:00; 5,747.00-5,897.00; 2024-12-31; 4sx below CICR, 7sx above CICR of Class III Cmt (1.37 yield)

Plug #2a: (GAL). Casing. 12/31/2024 00:00; 5,697.00-5,897.00; 2024-12-31; 37sx Class III Cmt (1.37 yield)

Production Casing Cement. Casing. 7/16/1962 00:00; 6,004.00-6,995.00; 1962-07-16; 180sx Diacel D, then 75sx El Toro Neat cmt. TOC @ 6004' (75% eff. calc)

Plug #1: (DK Perfs). Plug. 12/31/2024 00:00; 6,500.00-6,650.00; 2024-12-31; 12sx Class G Cmt (1.15 yield)

Production Casing Cement. Casing. 7/16/1962 00:00 (plug); 6,950.00-6,995.00; 1962-07-16; 180sx Diacel D, then 75sx El Toro Neat cmt. TOC @ 6004' (75% eff. calc)

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

CONDITIONS

Action 312810

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 312810
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	NMOCD call on Fruitland top is 2000 feet - Extend plug #7 to cover from 2050 to 1900 feet Notify NMOCD 24 hours prior to moving on	2/8/2024