

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

Well Name: MCMANUS	Well Location: T25N / R8W / SEC 4 / NENE / 36.433701 / -107.68071	County or Parish/State: SAN JUAN / NM
Well Number: 10	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM04226	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004505564	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2775747

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 02/20/2024

Time Sundry Submitted: 08:22

Date proposed operation will begin: 03/20/2024

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedures, current and proposed wellbore schematics. The Pre-Disturbance Site Visit was held on 2/15/2024 with Roger Herrera / BLM. 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_02_20__MCMANUS_10__P_A_NOI_20240220082055.pdf

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Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

2775747_NOI_PnA_McManus_10_3004505564_MHK_3.1.2024_20240304080857.pdf

General_Requirement_PxA_20240304074803.pdf

McManus_No_10_Geo_Rpt_20240301083744.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: FEB 20, 2024 08:21 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: 03/04/2024

Signature: Matthew Kade



HILCORP ENERGY COMPANY
MCMANUS 10
P&A NOI

API #:	3004505564
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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 **2-7/8"** CIBP at +/- **2,311'** to isolate the **PC Perfs**.
5. Load the well as needed. Pressure test the casing above the plug set @ **2,311'** to **560 psig**.
6. RU Wireline. Run CBL. Record Top of Cement. All subsequent plugs below are subject to change pending CBL results.
7. TIH w/ work string to +/- **2,311'**.
8. **PLUG #1: 11sx of Class G Cement (15.8 PPG, 1.15 yield); PC Perfs @ 2,361' | FRD Top @ 2,055':**
 Pump an 11 sack balanced cement plug inside the 2-7/8" casing (est. **TOC @ +/- 1,955'** & est. **BOC @ +/- 2,311'**).
9. POOH w/ work string. TIH & perforate squeeze holes @ +/- **1,783'**. RIH w/ **2-7/8"** CICR and set CICR @ +/- **1,733'**. TIH w/ work string & sting into CICR. Establish injection.
10. **PLUG #2: 63sx of Class G Cement (15.8 PPG, 1.15 yield); KR D Top @ 1,733' | OJO Top @ 1,585':**
 Pump 53sx of cement in the 5-1/2" casing X 7-7/8" open hole annulus (est. **TOC @ +/- 1,435'** & est. **BOC @ +/- 1,783'**). Pump an additional 2sx of cement beneath the 2-7/8" CICR (est. **TOC @ +/- 1,733'** & est. **BOC @ +/- 1,783'**). Sting out of retainer, pump an 8 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 1,485'** & est. **BOC @ +/- 1,733'**). WOC for 4 hrs, tag WOC w/ work string. *Note cement plug lengths and volumes account for excess.
11. POOH w/ work string. TIH & perforate squeeze holes @ +/- **858'**. RIH w/ **2-7/8"** CICR and set CICR @ +/- **808'**. TIH w/ work string & sting into CICR. Establish injection.
12. **PLUG #3: 36sx of Class G Cement (15.8 PPG, 1.15 yield); NAC Top @ 808':**
 Pump 31sx of cement in the 5-1/2" casing X 7-7/8" open hole annulus (est. **TOC @ +/- 658'** & est. **BOC @ +/- 858'**). Pump an additional 2sx of cement beneath the 2-7/8" CICR (est. **TOC @ +/- 808'** & est. **BOC @ +/- 858'**). Sting out of retainer, pump a 3 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 708'** & est. **BOC @ +/- 808'**). WOC for 4 hrs, tag WOC w/ work string. *Note cement plug lengths and volumes account for excess.
13. POOH w/ work string. TIH & perforate squeeze holes @ +/- **154'**. Establish circulation.
14. **PLUG #4: 31sx of Class G Cement (15.8 PPG, 1.15 yield); Surface Casing Shoe @ 104':**
 Pump 8sx of cement in the 5-1/2" casing X 7-7/8" open hole annulus (est. **TOC @ +/- 104'** & est. **BOC @ +/- 154'**). Continue pumping 18sx of cement in the 8-5/8" casing X 5-1/2" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 104'**). Pump an 5 sack balanced cement plug inside the 2-7/8" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 154'**). WOC for 4 hrs, tag WOC w/ work string.
15. 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
MCMANUS 10
P&A NOI

MCMANUS 10 - CURRENT WELLBORE SCHEMATIC

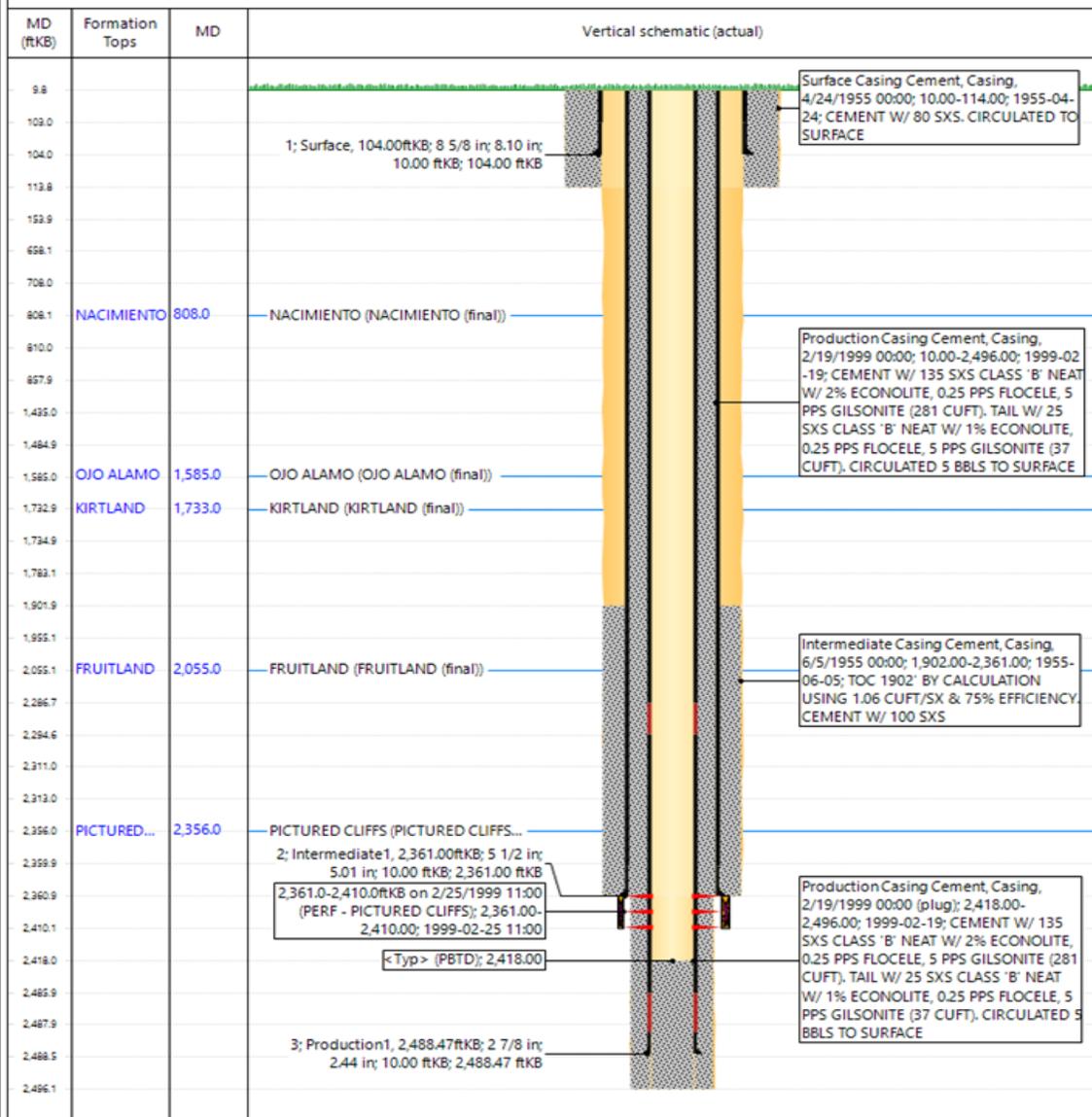


WBD - Current P&A

Well Name: MCMANUS #10

API / UWI 3004505564	Surface Legal Location 004-025N-008W-A	Field Name BALLARD PICTURED CLIFFS (GAS)	Route 0909	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,720.00	Original KBRT Elevation (ft) 6,730.00	ftKB to GL (ft) 10.00	ftKB-Casing Flange Distance (ft)	ftKB-Tubing Hanger Distance (ft)	

Original Hole [VERTICAL]





HILCORP ENERGY COMPANY
MCMANUS 10
P&A NOI

MCMANUS 10 - PROPOSED WELLBORE SCHEMATIC

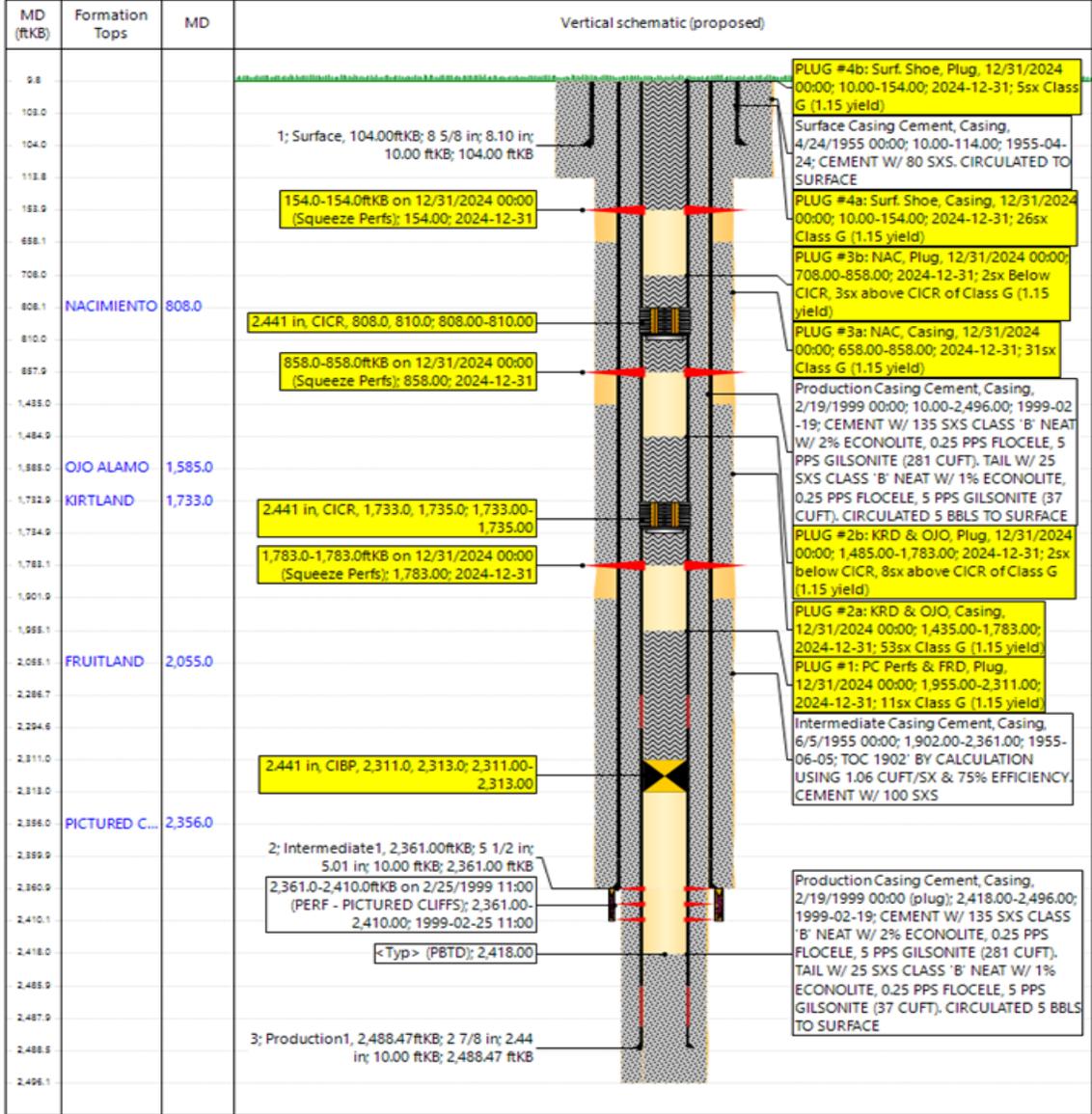


WBD - Proposed P&A

Well Name: **MCMANUS #10**

API / UWI 3004505564	Surface Legal Location 004-025N-008W-A	Field Name BALLARD PICTURED CLIFFS (GAS)	Route 0909	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,720.00	Original KBRT Elevation (ft) 6,730.00	KB to GL (ft) 10.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole [VERTICAL]



Hilcorp Energy

McManus 10

36.43379, -107.68089

API-30-045-05564

25N-08W SEC 04

Final Reclamation Plan

Onsite Completed on 2/15/2024 with Roger Herrera and Bryan Hall

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 Pit, bury Gravel.
5. Remove piping and cables.
6. Remove 2 culverts.
7. Enterprise to remove meter run and piping 50' off location, and at dog leg.
8. Reclaim road. Install silt traps as necessary to control water. Pull edges of road back into road.
9. Move material from south side of location and place on road.
10. Build 3 strand Fence, with t-posts and t-Post Braces at the start of the road.
11. Rip compacted soil, leaving rough terrain.
12. Re-seed all disturbed areas. Drill where applicable at rate per acre defined by seed mix(4.5 acres), and broadcast seed and harrow, at double the rate, all other disturbed areas. BLM Special seed mix will be used.

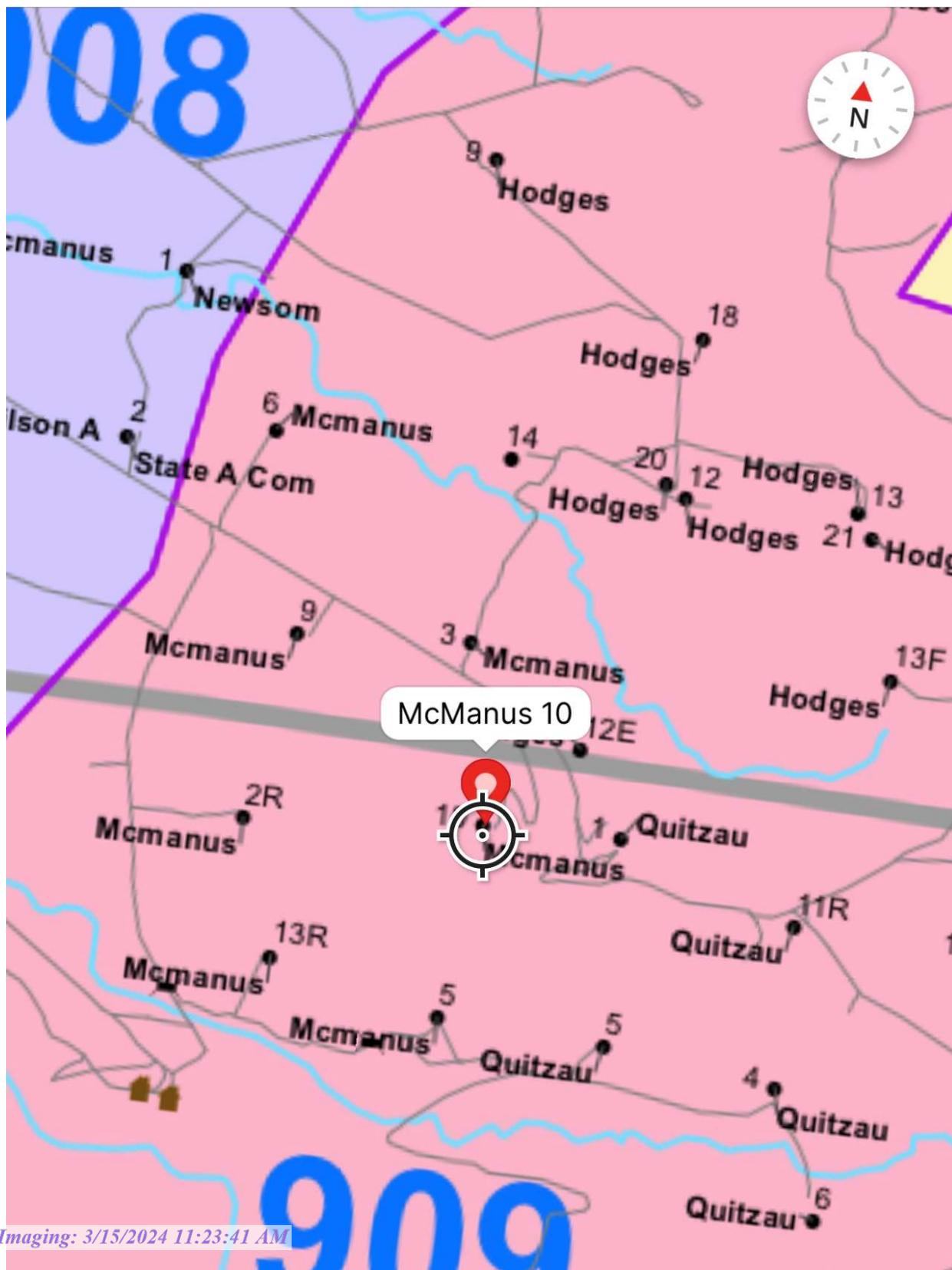




3:03



SJ South Field Map



**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 H₂S.

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 3/1/2024

Well No. McManus # 10 Surf. Loc. 1059 FNL 1154 FEL
 Lot 1 Sec. 4 T25N R8W

Lease No. NMNM04226

Operator Hilcorp Energy Co. County San Juan State New Mexico
 TVD 2418 PBD 2418 Formation Ballard Pictured Cliffs
 Elevation GL 6720 Elevation Est. KB 6730 (Estimated)

Geologic Formations	Est. tops	Subsea Elev.	Remarks
Nacimiento Fm.	Surface		Surface /fresh water sands
Ojo Alamo Ss	1427	5303	Fresh water aquifer
Kirtland Fm.	1697	5033	
Fruitland Fm.	1937	4793	Coal/gas/possible water
Pictured Cliffs	2327	4403	Possible gas/water
Lewis Shale (Main)	2567	4163	Source rock

Remarks:

Reference Well:

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

-Adjust the top of Plug 1 to 1837' to account for the BLM geologist's Fruitland Top.

-Place the CICR for Plug 2 at 1697', with the squeeze holes at 1747', to account for the BLM geologist's Kirtland top. Adjust the TOC of Plug 2 to 1327' to account for the BLM geologist's Ojo Alamo top.

-The surface formation is the Nacimiento, therefore Plug 3 is not required.

Hilcorp Energy Co.
 McManus 2R
 1480' FNL, 790' FWL
 4E-25N-8W
 GL= 6452', KB= 6463'

Prepared by: Walter Gage

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

AFMSS 2 Sundry ID 2775747

Attachment to Notice of Intent for Plug and Abandonment

Operator: Hilcorp Energy Company

Well: McManus 10 (API#30-045-05564)

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 made:
 - a. Adjust Plug #1 to cover BLM Fruitland formation top pick @ 1937'. Cement should be brought to a minimum of 50' above Fruitland formation top (1887' – 2311').
 - b. Adjust Plug #2 to cover BLM Kirtland formation top pick @ 1697' and BLM Ojo Alamo top pick @ 1427'. Perforate @ 1747', CICR set @ 1697', and cement brought to 1327'.
 - c. Plug #3 is not required. The BLM Nacimiento formation top pick is at surface, so plug #3 can be removed from the procedure.
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 March 5, 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)

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 320129

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 320129
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Monitor string pressures daily - report on subsequent - Notify NMOCD 24 hours prior to moving on - extend plug 1 to 50 feet below intermediate shoe - follow blm pick on tops	3/14/2024