

Well Name: H B MCGRADY B	Well Location: T27N / R12W / SEC 24 / SESE / 36.556094 / -108.056326	County or Parish/State: SAN JUAN / NM
Well Number: 2	Type of Well: OTHER	Allottee or Tribe Name:
Lease Number: NMNM035634	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004532696	Well Status: Gas Well Shut In	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2676123

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 06/10/2022	Time Sundry Submitted: 09:38
Date proposed operation will begin: 07/01/2022	

**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 4/12/2022 with Emmanuel Adeloye/BLM, Bertha Spencer & Larsen Nez/Navajo Nation. 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

- H\_B\_MCGRADY\_B\_2\_PA\_Poly\_Procedure\_for\_NOI\_Copy\_20220610093716.pdf
- H\_B\_MCGRADY\_B\_2\_Reclamation\_Plan\_20220610093604.pdf

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Conditions of Approval

Specialist Review

General\_Requirement\_PxA\_20220610102254.pdf  
2676123\_NOIA\_2\_3004532696\_KR\_06102022\_20220610102210.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:** KANDIS ROLAND  
**Signed on:** JUN 10, 2022 09:34 AM  
**Name:** HILCORP ENERGY COMPANY  
**Title:** Operation Regulatory Tech  
**Street Address:** 382 Road 3100  
**City:** Farmington **State:** NM  
**Phone:** (505) 599-3400  
**Email address:** kroland@hilcorp.com

Field

**Representative Name:**  
**Street Address:**  
**City:** **State:** **Zip:**  
**Phone:**  
**Email address:**

BLM Point of Contact

**BLM POC Name:** KENNETH G RENNICK  
**BLM POC Phone:** 5055647742  
**Disposition:** Approved  
**Signature:** Kenneth Rennick  
**BLM POC Title:** Petroleum Engineer  
**BLM POC Email Address:** krennick@blm.gov  
**Disposition Date:** 06/10/2022



## P&A Procedure

General Information			
<b>Well Name</b>	H B McGrady B #2	<b>Date:</b>	6/10/2022
<b>API:</b>	30-045-32696	<b>AFE #</b>	
<b>Field:</b>	San Juan South	<b>County</b>	San Juan
<b>Status:</b>	ACOI		
<b>Subject:</b>	Permanently P&A wellbore		
<b>By:</b>	Michael Wissing		

### Well Data

Surface Casing: 8-5/8" 24# J-55 at 232'

Production Casing: 5-1/2" 15.5# J-55 at 2,000'

Production Tubing: 2-3/8" 4.7# J-55 at 1,706 (3/2016)

Rod String: 7/8" & 3/4" guided/slick rods + insert pump

Current PBTD: 1,954' (cement plug)

KB: 4'

SI BH: 2018, 2020, 2021 had BH tests at 0 psi

Hold PJSM prior to begin all operations. Properly document all operations via the JSA process. Ensure that all personnel onsite abide by HEC safety protocol, including PPE, housekeeping, and standard guidelines. Verify cathodic protection is off and wellhead instrumentation is properly disconnected from the wellhead. Comply with all NMOCD, BLM, Navajo Nation, and HEC safety and environmental regulations. Verify there is no H2S present prior to beginning operations. If any H2S is present, take the necessary actions to ensure that the location is safe prior to beginning operations. Observe and record pressures across all strings daily, prior to beginning operations. TA work will be completed by a rig. The P&A work will be completed rigless.

Remember to notify NMOCD and BLM 24 hours prior to starting operations on location. This procedure is contingent upon P&A sundry approval by the NMOCD & BLM.

## P&A Rig Procedure

### Part I:

1. MIRU P&A rig and equipment. Record pressures on all strings.
  - a. *Record daily pressures on all casing strings.*
  - b. *Document all onsite agency agents and all approved changes to approved P&A NOI.*
2. Unseat rod pump from seat nipple and POOH with rod string/pump. NU BOP & test. TOOH with 2-3/8" production tbg.
3. RIH with 5-1/2" casing scraper or gauge ring to +/- 1,490'.
4. MU 5-1/2" CIBP and RIH. Set CIBP at 1,480'.
5. Load wellbore with water and circulate wellbore clean. Pressure test the casing to 500 psi to verify wellbore integrity and plug is set.
6. ND BOP and RD P&A rig.

### Part II:

1. MIRU cement pump truck & poly pipe spool.
  - a. *Record daily pressures on all casing strings.*
  - b. *Document all onsite agency agents and all approved changes to approved P&A NOI.*
2. ND whd, NU circulation pump equipment and poly pipe spooling unit, RIH with 2" poly tbg to +/-1,480'.
3. **Plug #1 (Surface, Shoe at 232', Ojo top at 454', Kirtland top at 586', FRC top at 1,078', FRC top perf 1,526')**: RU cementers and establish circulation back to surface with water. Pump a 1,480' cmt plug inside the 5-1/2" csg & 2" poly pipe from Surface – 1,480' using 35.4 bbls (145 sx) of Type III, 14.6 ppg, 1.37 yield cement.
4. Verify all pressures on all strings are at 0 psi.
5. Cut off the wellhead & poly pipe. Weld on labeled P&A marker. Top off all casing strings (if needed) and a portion of the well cellar with cement.
6. RDMO cement pump and equipment.



Well Name: HB MCGRADY B #2

Original Hole [Vertical]	
MD (ftKB)	TVD (ftKB)
-3.3	
3.9	
12.8	
14.8	
18.7	
24.6	
186.0	
231.3	
232.3	
238.8	
454.1	
586.0	
1,078.1	
1,124.7	
1,126.3	
1,141.4	
1,199.8	
1,524.6	
1,525.9	
1,542.0	
1,544.0	
1,549.9	
1,551.8	
1,588.9	
1,589.1	
1,610.9	
1,674.5	
1,674.9	
1,675.5	
1,675.9	
1,686.0	
1,694.9	
1,706.0	
1,706.4	
1,799.9	
1,953.7	
1,954.1	
1,954.4	
1,999.7	
2,000.3	
2,006.9	

Vertical schematic (actual)

The schematic shows a vertical wellbore with various components labeled on the right and depth markers on the left. Key features include:
 

- Surface Casing:** 12 1/4 in Polished Rod (16.00 ft), 3/4 in Rod Sub (2.00 ft, 4.00 ft, 6.00 ft).
- Production Casing:** 12 1/4 in Polished Rod (16.00 ft), 3/4 in Rod Sub (2.00 ft, 4.00 ft, 6.00 ft).
- Surface Casing Cement:** 12/29/2005 00:00; 4.00-232.41; 2005-12-29; Cmtd surf csg w/185 sx Class B cmt. Circ 15 bbls cmt to surf.
- Production Casing Cement:** 1/2/2006 00:00; 4.00-2,007.00; 2006-01-02; Cmtd prod csg w/225 sx of Type III cmt followed by 100 sx of Type III cmt. Circ 20 bbls cmt to surf.
- Hydraulic Fracture:** 2006-03-02; Frac'd FC down 5-1/2" csg w/151,524 gal Delta 140 (13) frac fld (20# Borate XL gelled FW) carrying 191,200# sd coated w/Sandwedge & Sandwedge NT (134,200# 20/40 Brady sd & 57,000# 16/30 Brady sd).
- 7/8 in Sucker Rod w/Molded Guides:** 75.00 ft, 325.00 ft, 150.00 ft.
- 1 in Lift Sub:** 1.00 ft.
- 3/4 in Spiral Rod Guide:** 0.30 ft.
- 1 1/4 in Rod Insert Pump:** 10.00 ft.
- 1 in Gas Anchor:** 9.00 ft.
- 2 3/8 in, Pump Seating Nipple:** 2 3/8 in; 1,674.84 ftKB; 1,675.54 ftKB.
- 2 3/8 in, Mud Anchor:** 2 3/8 in; 1,675.54 ftKB; 1,706.02 ftKB.
- 2 3/8 in, Notched Collar:** 2 3/8 in; 1,706.02 ftKB; 1,706.42 ftKB.
- Cement Plug (PBDT):** 1,954.00.



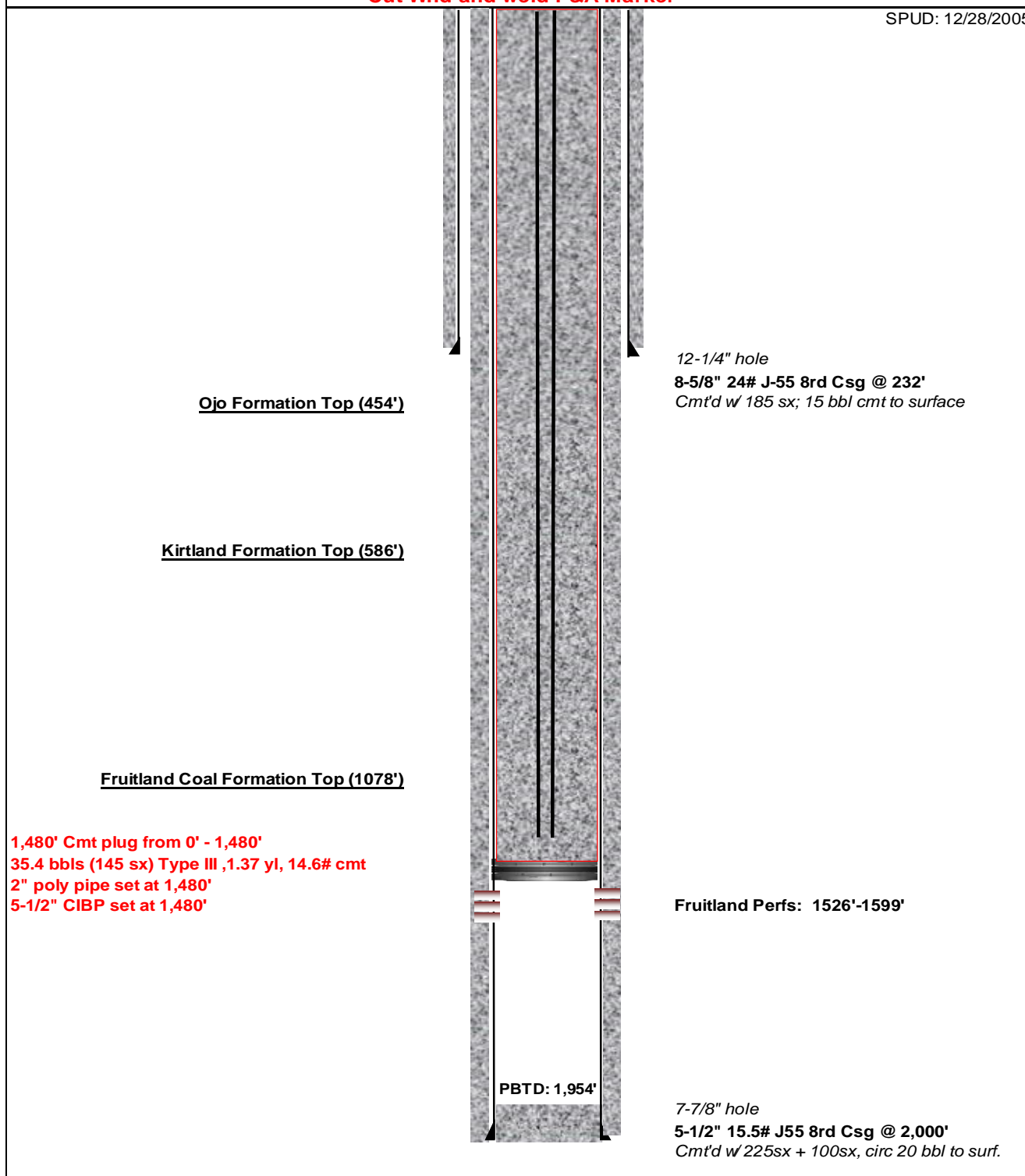


# Hilcorp Energy Company

## Wellbore Schematic - PROPOSED

**Cut Whd and weld P&A Marker**

SPUD: 12/28/2005



WELL NAME/NUMBER	DESCRIPTION		Ground Elevation:
<b>H B MCGRADY B 2</b>	<b>Proposed P&amp;A WBD</b>		RKB-THF: 4'
FIELD/LEASE/AREA	PREPARED BY	APPROVED/DATE	CFH:
<b>San Juan Basin- Area 6</b>	M. Wissing	6/10/2022	API # 30-045-32696

Hilcorp Energy  
P&A Final Reclamation Plan  
**H B MCGRADY B 2**  
API: 30-045-32696  
T27N-R12W-Sec. 24-Unit P  
LAT: 36.556095 LONG: -108.055713 NAD 27  
Footage: 985' FSL & 665' FEL  
San Juan County, NM

**1. PRE- RECLAMATION SITE INSPECTION**

A pre-reclamation site inspection was completed with Bertha Spencer and Larsen Nez of the Navajo Nation, Emmanuel Adeloyle from the BLM and Eufracio Trujillo, Hilcorp Energy SJ South Construction Foreman on April 12, 2022.

**2. LOCATION RECLAMATION PROCEDURE**

1. Reclamation work will begin in summer.
2. Removal of all equipment, anchors, flowlines, cathodic, and pipelines.
3. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
4. Rip compacted soil and walk down disturbed portion of well pad.
5. Contour pad by pushing fill on western edge into the middle of the pad.
6. Sample and close BGT when test results permit closure.
7. Remove all stained gravel and test if needed. Haul impacted soils to land farm.
8. Remove all gravel from berms, pads, and meter run.
9. Hilcorp Energy meter run will be removed out of their ROW. Barricade and blind riser if needed.
10. Hilcorp Energy will cut and cap pipeline off location and blind riser on opposite end.

**3. ACCESS ROAD RECLAMATION PROCEDURE**

1. The well access road will be left open for well location access past it..

**4. SEEDING PROCEDURE**

1. A NAPI 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.

**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<sub>2</sub>S.

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

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

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

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

(October 2012 Revision)

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

AFMSS 2 Sundry ID 2676123

Attachment to notice of Intention to Abandon

Well: H B McGrady B 2

\*Fill up wellbore with cement proposal. BLM Geology Report not applicable.

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

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

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

K. Rennick 06/10/2022

**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 115844

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 115844
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	6/13/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	6/13/2022