

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

<b>Well Name:</b> HOWELL F	<b>Well Location:</b> T27N / R8W / SEC 1 / SESW / 36.598206 / -107.63501	<b>County or Parish/State:</b> SAN JUAN / NM
<b>Well Number:</b> 3	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM015150	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3004526480	<b>Well Status:</b> Gas Well Shut In	<b>Operator:</b> HILCORP ENERGY COMPANY

**Notice of Intent**

**Sundry ID:** 2671293

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 05/11/2022

**Time Sundry Submitted:** 10:58

**Date proposed operation will begin:** 05/23/2022

**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 5/10/22 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**

Plug\_and\_Abandonment\_Procedure\_\_\_Howell\_F\_3\_20220511105743.pdf

Howell\_F\_3\_Reclamation\_Plan\_20220511105743.pdf

Well Name: HOWELL F

Well Location: T27N / R8W / SEC 1 /  
SESW / 36.598206 / -107.63501

County or Parish/State: SAN  
JUAN / NM

Well Number: 3

Type of Well: CONVENTIONAL GAS  
WELL

Allottee or Tribe Name:

Lease Number: NMNM015150

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004526480

Well Status: Gas Well Shut In

Operator: HILCORP ENERGY  
COMPANY

### Conditions of Approval

#### Additional

General\_Requirement\_PxA\_20220512081036.pdf

2671293\_NOIA\_F\_3\_3004526480\_KR\_05122022\_20220512081024.pdf

27N08W01NKpc\_Howell\_F\_3\_20220511155709.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: MAY 11, 2022 10:58 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 Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 05/12/2022

Signature: Kenneth Rennick

## Plug and Abandonment - NOI

Howell F 3

API # - 3004526480

### Procedure:

Hold PJSM prior to beginning any and 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, 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.

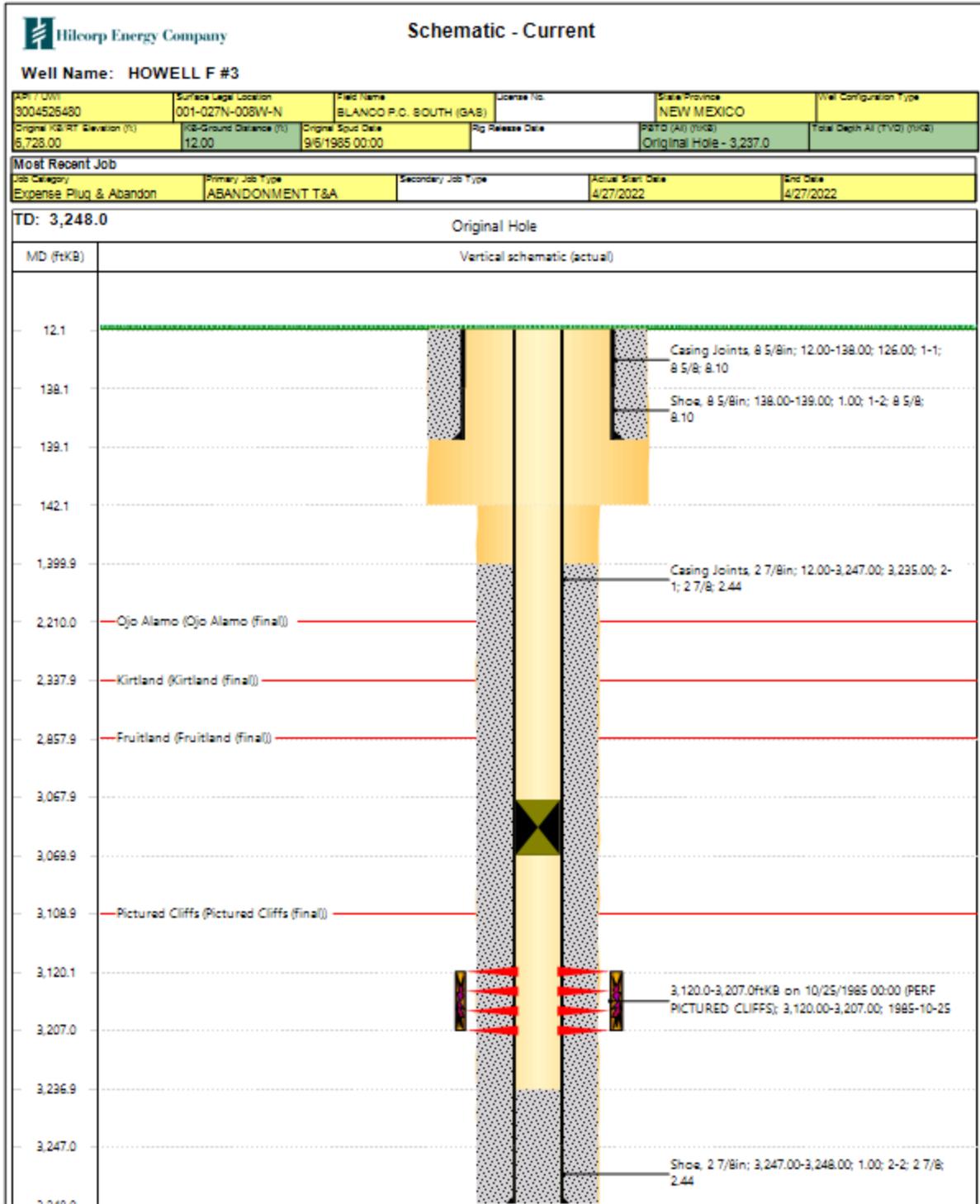
Observe and record pressures across all string daily, prior to beginning operations.  
**Remember to notify NMOCD 24 hours prior to starting operations on location.**

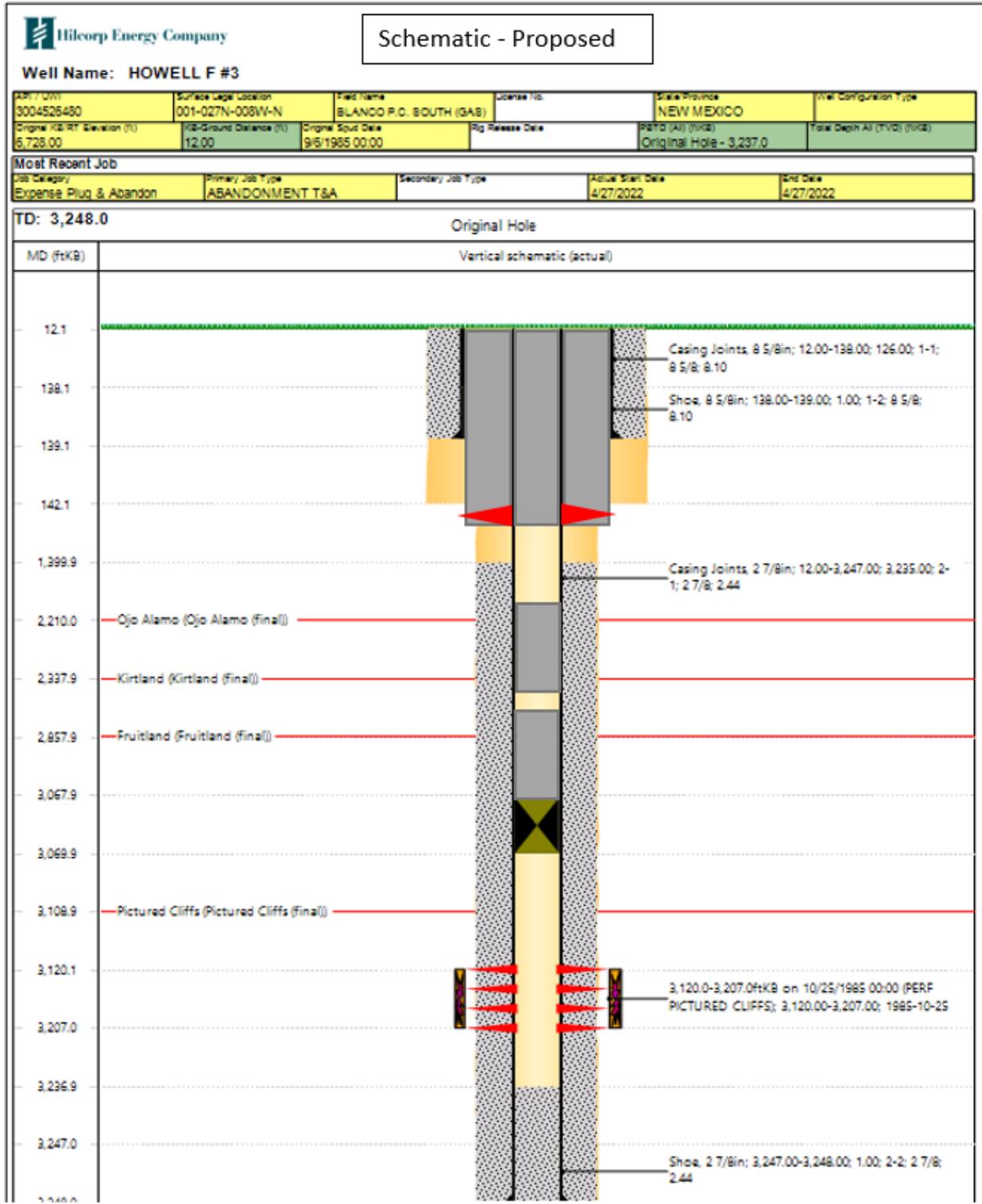
**NOTE: This procedure is contingent upon sundry approval by NMOCD.** All cement volumes use 100% excess outside pipe and 50' excess inside (unless otherwise stated). All cement will be Class G, mixed at 15.8 ppg w/ a 1.15 cf/sx yield. The stabilizing wellbore fluid will be an 8.3 ppg fluid, sufficient to balance all exposed formation pressures.

Temperature survey from original drilling indicates TOC at 1400'.

1. This project will use a steel tank to handle waste fluids circulated from the well and cement wash up.
2. Test anchors if not using a base beam. Comply with all NMOCD, BLM, and HEC safety regulations. MIRU and conduct safety meeting for all personnel on location.
3. Record casing, tubing, and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary. Ensure well is dead or on a vacuum.
4. RUWL and run CBL from previously set CIBP at 3070' to surface. RDMO WL.
5. RIH with 1.5" tubing and tag CIBP at 3070'.
6. **Plug #1, 3070' – 2808' (PC Top: 3109', Fruitland Top: 2858')**
7. Circulate 1.5 bbl. cement to 2808'
8. POOH to 2388' with tubing/.
9. **Plug #2, 2388' – 2160' (Kirtland: 2338', Ojo Alamo: 2210')**
10. Circulate 1.3 bbl. cement to 2160'
11. **Plug #3, 190' – Surface (Surface Shoe: 140')**
12. POOH with tubing to 190'. Attempt to pressure test wellbore.

13. If MIT is good, pooh with tubing and pick up perforating guns to perforate at 190' (50' below surface shoe).
14. If wellbore does not pressure test, attempt to circulate with fresh water to bradenhead. If circulation is established, circulate cement to surface. Circulate 10 bbl. out to surface then shut bradenhead and squeeze to 100 PSI.
15. If no circulation can be established, chemical cut 2-7/8" at 190'.
16. Circulate down 2-7/8" and pump 20 bbl. cement to bring TOC to surface with excess.
17. POOH and lay down recovered 2-7/8".
18. RDMO workover rig.
19. Cut and cap wellhead, remediate surface per NMOCD and BLM regulation.





Hilcorp Energy  
P&A Final Reclamation Plan  
**Howell F 3**  
API: 30-045-26480  
T27N-R8W-Sec. 1-Unit N  
LAT: 36.5982 LONG: -107.63501 NAD 27  
Footage: 870' FSL & 1830' FWL  
San Juan County, NM

**1. PRE- RECLAMATION SITE INSPECTION**

A pre-reclamation site inspection was completed with Roger Herrera from the BLM and Eufracio Trujillo, Hilcorp Energy SJ South Construction Foreman on May 10, 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. Location will be reclaimed by rolling down southeast corner of location.
6. Roll eastern edge of location into rolling hill.
7. Remove all gravel from berms, pads, and meter run and use on lease road where needed.
8. Enterprise meter run will be removed out of their ROW. Remove riser.
9. Enterprise to cut and cap pipeline.

**3. ACCESS ROAD RECLAMATION PROCEDURE**

1. The well access road will be blocked at the main lease road with a berm and ditch.
2. Reclaim road by ripping, recontouring road out of location to main lease road.
3. Remove all culverts in road.
4. Seed road after ripping.

**4. SEEDING PROCEDURE**

1. A Pinon/Juniper 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.

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

AFMSS 2 Sundry ID 2671293

Attachment to notice of Intention to Abandon

Well: Howell F 3

**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 5/12/2022

**BLM FLUID MINERALS  
P&A Geologic Report**

**Date Completed:** 05/11/2022

Well No. Howell F #3 (API# 30-045-26480)	Location	870	FSL	&	1830	FWL
Lease No. NMNM-015150	Sec. 01	T27N			R08W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth 3248'	PBTD 3237'	Formation Pictured Cliffs				
Elevation (GL) 6716'		Elevation (KB) 6728'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm	Surface	2210			Surface/possible freshwater sands
Ojo Alamo Ss	2210	2338			Aquifer (possible freshwater)
Kirtland Shale	2338	2858			
Fruitland Fm	2858	3109			Coal/Gas/Water
Pictured Cliffs Ss	3109	PBTD			Gas
Lewis Shale					
Chacra					
Cliff House Ss					
Menefee Fm					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison Formation					

Remarks:

P &amp; A

- No well log available for subject well. Operator tops are acceptable based on logs from Reference Well #1.
- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.
- Existing CIBP at 3070' (TA). Original PBTD 3237'.
- Pictured Cliffs perfs 3120' – 3207'.

Reference Well:

1) **Formation Tops**  
MorningStar Operating, LLC  
Howell F #1  
990' FSL, 990' FWL  
Sec. 01, T27N, R08W  
6625' GL

**Prepared by:** Chris Wenman

**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 106273

**CONDITIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 106273
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
kpickford	CBL required	5/12/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	5/12/2022
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	5/12/2022