

<b>Well Name:</b> JACK FROST A	<b>Well Location:</b> 36.54881 / -107.86995	<b>County or Parish/State:</b> SAN JUAN / NM
<b>Well Number:</b> 1	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMSF077951	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3004506267	<b>Well Status:</b> Gas Well Shut In	<b>Operator:</b> HILCORP ENERGY COMPANY

### Notice of Intent

**Sundry ID:** 2653614

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 01/21/2022

**Time Sundry Submitted:** 06:09

**Date proposed operation will begin:** 02/04/2022

**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 1/19/2022 with Bob Switzer/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\_\_\_Jack\_Frost\_A\_1\_20220121060742.pdf

Jack\_Frost\_A\_1\_Reclamation\_Plan\_20220121060742.pdf

<b>Well Name:</b> JACK FROST A	<b>Well Location:</b> 36.54881 / -107.86995	<b>County or Parish/State:</b> SAN JUAN / NM
<b>Well Number:</b> 1	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMSF077951	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3004506267	<b>Well Status:</b> Gas Well Shut In	<b>Operator:</b> HILCORP ENERGY COMPANY

Conditions of Approval

Additional Reviews

Jack\_Frost\_A\_No\_1\_Geo\_Rpt\_20220330101945.pdf

Authorized Officer

2653614\_NOIA\_A\_1\_3004506267\_KR\_03302022\_20220330110028.pdf

General\_Requirement\_PxA\_20220330110019.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

<b>Operator Electronic Signature:</b> KANDIS ROLAND	<b>Signed on:</b> JAN 21, 2022 06:09 AM
<b>Name:</b> HILCORP ENERGY COMPANY	
<b>Title:</b> Operation Regulatory Tech	
<b>Street Address:</b> 382 Road 3100	
<b>City:</b> Farmington	<b>State:</b> NM
<b>Phone:</b> (505) 599-3400	
<b>Email address:</b> kroland@hilcorp.com	

Field Representative

<b>Representative Name:</b>		
<b>Street Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone:</b>		
<b>Email address:</b>		

BLM Point of Contact

<b>BLM POC Name:</b> KENNETH G RENNICK	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5055647742	<b>BLM POC Email Address:</b> krennick@blm.gov
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 03/30/2022
<b>Signature:</b> Kenneth Rennick	

**Plug and Abandonment - NOI****Jack Frost A 1****API # - 3004506267****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 H<sub>2</sub>S present prior to beginning operations. If any H<sub>2</sub>S 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 P&A 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.

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. POOH with 1.66" tubing, stand back to use as work string.
5. RUWL and RIH with 3.5" CIBP, set plug at 2040'. POOH RDWL.
6. **Plug #1, 2040' – 2010' (PC Top: 2040')**
7. PU 1.5" work string. RIH to CIBP and circulate 30' of cement on plug.
8. Fill and roll hole with water to run CBL, POOH.
9. RUWL and run CBL from 2010' to surface. RDMOWL
10. Circulate plug mud from 2010' to 1665'
11. **Plug #2, 1665' – 1565' (Fruitland Top: 1615')**
12. Circulate cement plug from 1665' to 1565' (0.87 bbl)
13. Circulate plug mud to 1263'
14. **Plug #3, 1263'-1020' (Kirtland Top: 1213' Ojo Alamo Top: 1070')**
15. Circulate cement plug from 1263' to 1020' (2.1 bbl)

16. Circulate plug mud to 160'
17. POOH with work string
18. **Plug #3, 155' - Surface (Surface Shoe: 105')**
19. RUWL and perforate at 155', RDMO WL
20. Attempt to establish circulation through perforations to bradenhead and 5.5" annulus with fresh water.
21. Circulate cement to surface and fill 3.5" ID (10 bbl volume to fill, 20 bbl minimum to be pumped)
22. ND BOP and cut off wellhead below surface casing flange per regulation. Top off w/cement if needed. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location.



Hilcorp Energy Company

## Schematic - Current

Well Name: JACK FROST A #1

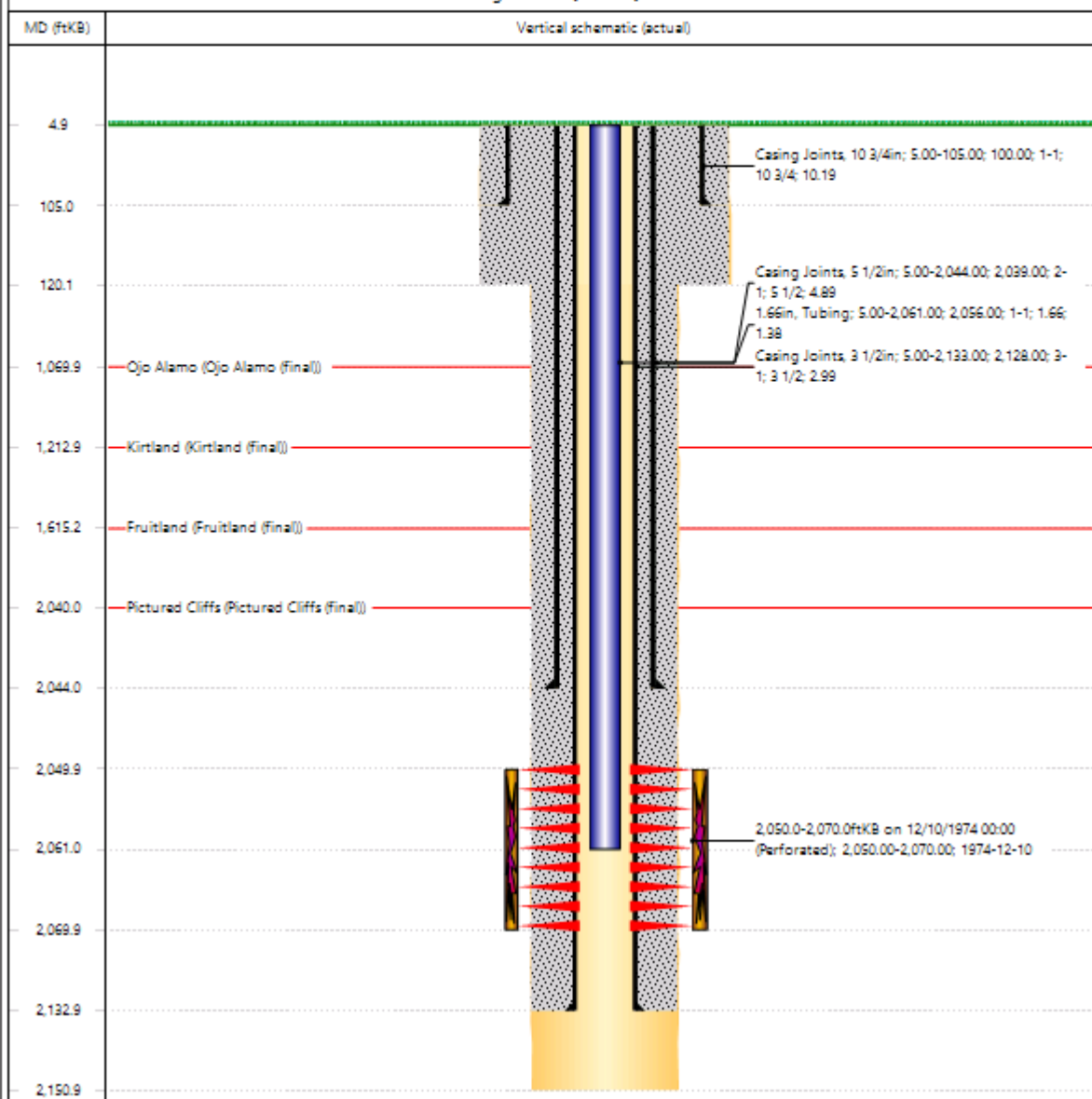
API Well No.	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3004506267	T27N-R10W-S26	Fulcher Kutz PC		New Mexico	Vertical
Original R2/R1 Elevation (ft)	R2-Ground Distance (ft)	Original Spud Date	Rig Release Date	R2/R1 (ft)	Total Depth All (TVD) (ft)
5,262.00	5.00	10/5/1951 00:00	10/12/1951 00:00		

## Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
Well Maintenance	SWI		5/18/2017	5/18/2017

TD: 2,151.0

Original Hole [Vertical]





Hilcorp Energy Company

## Proposed

Well Name: JACK FROST A #1

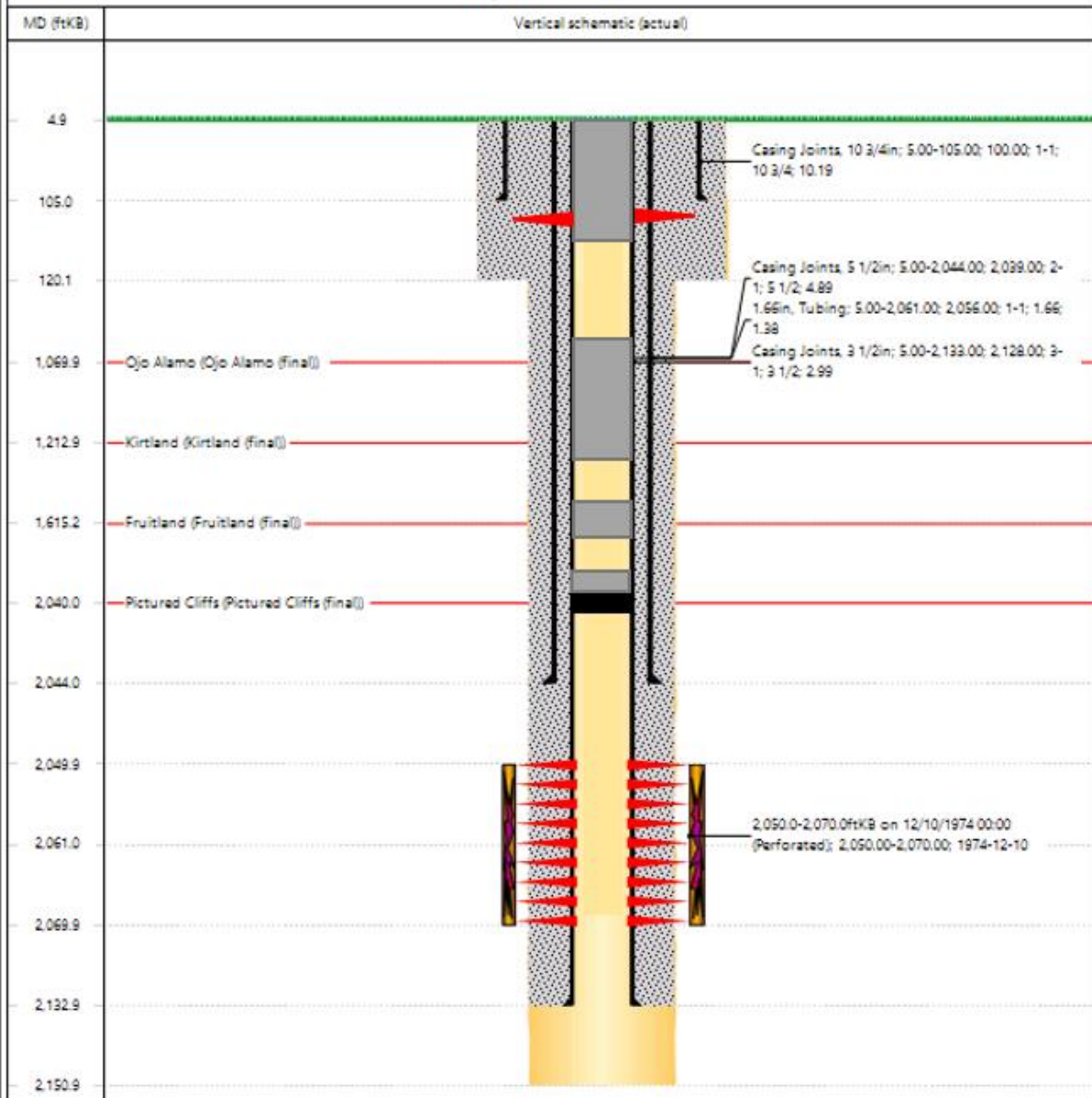
API Well ID	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3004506267	T27N-R10W-S25	Fulcher Kutz PC		New Mexico	Vertical
Original RIG/RT Elevation (ft)	RIG/RT Ground Distance (ft)	Original Spud Date	Rig Release Date	Perf (All) (ft)	Total Depth All (FWD) (ft)
6,262.00	5.00	10/5/1951 00:00	10/12/1951 00:00		

## Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
Well Maintenance	SWI		5/18/2017	5/18/2017

TD: 2,151.0

Original Hole [Vertical]



Hilcorp Energy  
P&A Final Reclamation Plan  
**Jack Frost A 1**  
API: 30-045-06267  
T27N-R10W-Sec. 26-Unit E  
LAT: 36.6591 LONG: -107.97847 NAD 27  
Footage: 1650' FNL & 990' FWL  
San Juan County, NM

**1. PRE- RECLAMATION SITE INSPECTION**

A pre-reclamation site inspection was completed with Bob Switzer from the BLM, Mike Raney from Enterprise, and Eufrazio Trujillo, Hilcorp Energy SJ South Construction Foreman on January 19, 2022.

**2. LOCATION RECLAMATION PROCEDURE**

1. Reclamation work will begin in spring/summer.
2. Removal of all equipment, anchors, cathodic protection, line drip, and flowlines.
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. Push West edge of pad towards the southeastern toe of berm.
6. Install diversion ditch from South to North to divert water from above location to arroyo to the North of well pad.
7. Remove all gravel from berms, pads, and meter run. This gravel will be used on the lease roads.
8. Hilcorp Energy will remove Hilcorp Energy meter run.
9. Enterprise will barricade and blind there stub up.
10. Enterprise to remove line after adjacent location is plugged in the future.

**3. ACCESS ROAD RECLAMATION PROCEDURE**

1. The lease road will be ripped and seeded.
2. A berm will be installed at the entrance to location to keep traffic off of pad.

**4. SEEDING PROCEDURE**

1. A Badlands and Pinon/Juniper seed mix with some sage 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.



**BLM - FFO - Geologic Report****Date Completed** 3/28/2022

Well No. Jack Frost A # 1 Surf. Loc. 1650 FNL 990 FWL  
 Sec. 26 T27N R10W

Lease No. NMSF077951  
 Operator Hilcorp Energy Co County San Juan State New Mexico  
 TD 2151 PBTD 2151 Formation Fulcher Kutz Pictured Cliffs  
 Elevation GL 6257 Elevation Est. KB 6269

Geologic Formations	Est. tops	Subsea Elev.	Remarks
Nacimiento Fm.	Surface	6269	Fresh water sands
Ojo Alamo Ss	1070	5199	Aquifer (fresh water)
Kirtland Fm.	1213	5056	
Fruitland Fm.	1615	4654	Coal/gas/possible water
Pictured Cliffs Ss	2040	4229	Probable water
Lewis Shale	2118	4151	

Remarks:Reference Well:

- Vertical wellbore - all fm. tops are TVD from KB  
 -Bring the top of the Pictured Cliffs plug to 1990', including excess.  
 -Bring the top of the Fruitland plug to 1515', including excess.  
 -Bring the top of the Ojo Alamo plug to 970', including excess.

Same

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 2653614

Attachment to notice of Intention to Abandon

Well: Jack Frost A 1

**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 to be made:
  - a) Bring the top of the Pictured Cliffs plug to 1990'. Note a minimum of 50' of cement is required on top of the CIBP at 2040', not 30'.
  - b) Bring the top of the Fruitland plug to 1515'.
  - c) Bring the top of the Ojo Alamo plug to 970'.
3. 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 3/30/2022

**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.

**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 94316

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 94316
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	3/31/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report	3/31/2022