

Notice of Intent

Sundry ID: 2684237

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 07/27/2022

Time Sundry Submitted: 07:05

Date proposed operation will begin: 08/10/2022

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 4/12/22 with Bertha Spencer/BIA, Larsen Nez/Navajo Nation & Emmanuel Adeloyle/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

Berger_7S_PA_Procedure_for_P_A_NOI_20220727070505.pdf

Conditions of Approval

Additional

26N11W22IKpc_Berger_7S_20220810112634.pdf

Authorized

2684237_NOIA_7S_3004532946_KR_08082022_20220810140520.pdf

General_Requirement_PxA_20220810140446.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: JUL 27, 2022 07:05 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: 08/10/2022

Signature: Kenneth Rennick



P&A Procedure

General Information			
Well Name	Berger 7S	Date:	7/27/22
API:	30-045-32946	AFE #	
Field:	San Juan North	County	San Juan
Status:	Well is ACOI		
Subject:	Permanently P&A wellbore		
By:	Wissing		

Well Data

Surface Casing: 9-5/8" 36# J-55 at 240'

Production Casing: 7" 23# K-55 at 1,777'

Production Tubing: 2-3/8" 4.7#; J-55 at 1,836'

Rod String: 3/4" Sucker Rods + insert pump

Current Perforated liner: 1,682'- 4,909' MD

Current PBTD: 4,909' (Shoe plug)

KB: 15'

Wellbore: Horizontal Coal wellbore, 90 deg starts at 1,863' MD

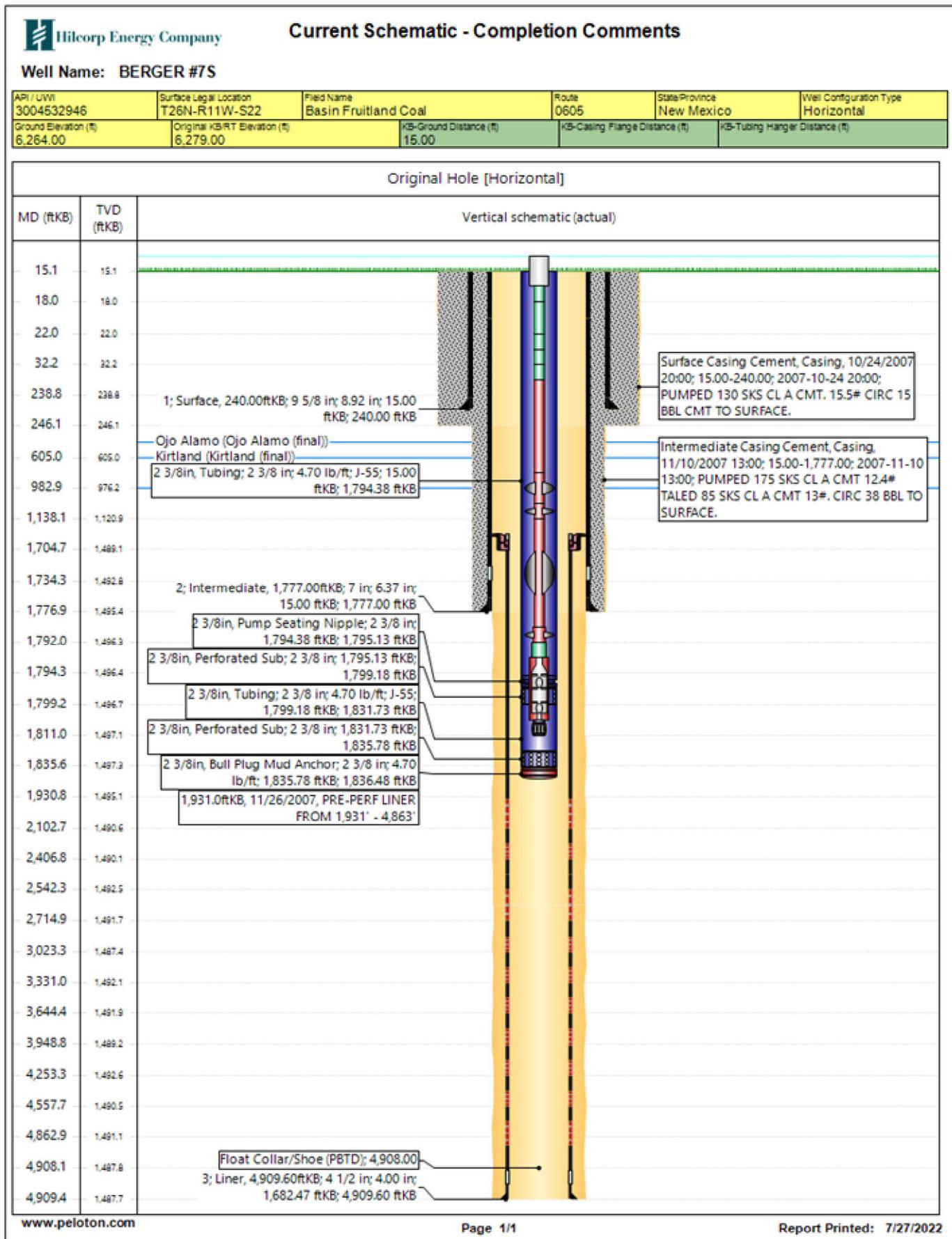
SIBP: 0 psi since 2018 test; SICP: 2 psi

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, 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.

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

1. MIRU P&A rig and equipment. Record pressures on all csg strings daily. Kill well as needed.
2. TOOH with rods and rod pump.
3. NU BOPs and test. TOOH with 2-3/8" prod tbg.
4. MU 7" csg scraper and RIH. Clear csg to top of 4.5" liner at 1,682' MD.
5. Set 7" CIBP at 1,640' MD.
 - a. **Top of FRC liner top at 1,682' MD.**
6. Load wellbore with KCl water and circulate wellbore clean. Pressure test the casing to 500 psi to verify wellbore integrity and plug set.
7. RIH with work string.
8. **Plug #1 (FRC liner top at 1,682' MD):** RU cementers and pump a 150' balanced cmt plug inside the 7" csg from 1490'-1640' MD, using 5.9 bbls (29 sx) of 15.8+ ppg Class G cmt.
9. Circulate tbg clean and TOOH with tbg string to 1,040'.
10. **Plug #2 (FRC top at 983' MD, 981' TVD):** RU cementers and pump a 150' balanced cmt plug inside the 7" csg from 890'-1040' MD (881'-1,031' TVD), using 5.9 bbls (29 sx) of 15.8+ ppg Class G cmt.
11. TOOH with tbg to 655'.
12. Verify BH pressure is 0 psi.
13. **Plug #3 (Kirtland top 605', Ojo top at 465')** RU cementers and pump a 290' balanced cmt plug inside the 7" csg from 365' – 655', using 11.5 bbls (56 sx) of 15.8+ ppg Class G cmt.
14. Circulate tbg clean and TOOH with tbg to 290'.
15. **Plug #3 (Surface csg shoe at 240')**: RU cementers and pump a 150' balanced cmt plug inside the 7" csg from 140'-290', using 5.9 bbls (29 sx) of 15.8+ ppg Class G cmt.
16. **Plug #4 (Surface):** RU cementers and pump a 50' balanced cmt plug inside the 7" csg from 0'-50', using 2 bbls (10 sx) of 15.8+ ppg Class G cmt.
17. Verify all pressures on all strings are at 0 psi.
18. ND BOP. Cutoff wellhead below grade and weld on labeled P&A marker. Top off wellbore with cmt as needed and fill cellar with 1 ft of cmt.
19. RDMO P&A rig.





Hilcorp Energy Company

Wellbore Schematic - PROPOSED

Cut Whd and weld P&A Marker

SPUD: 11/26/07

50' Cmt plug from 0' - 50'
2 bbls (10 sx) Class G, 1.15 yl, 15.8# cmt

150' Cmt plug from 140'-290'
5.9 bbls (29 sx) Class G, 1.15 yl, 15.8# cmt

290' Cmt plug from 365'-655'
11.5 bbls (56 sx) Class G, 1.15 yl, 15.8# cmt
Ojo Formation Top (465' MD)

Kirtland Formation Top (605' MD)

FRC Formation Top (983' MD) 981' TVD

150' Cmt plug from 890'-1040' MD (881' - 1,031' TVD)
5.9 bbls (29 sx) Class G, 1.15 yl, 15.8# cmt

150' Cmt plug from 1,490' - 1,640' MD
5.9 bbls (29 sx) Class G, 15.8# cmt
7" CIBP set at 1,640'

13-1/2" hole
9-5/8" 36# J-55 8rd Csg @ 240'
Cmt'd w 130 sx; 15 bbls cmt to surface

>10 deg Incl starts at 805'

TOL at 1,682' (1,484' TVD)

8-3/4" hole
7" 23# K-55 8rd Csg @ 1,777' MD (1,496' TVD)
Cmt'd w 175 sx + 85 sx
circ 38 bbls cmt to surf.

4-1/2" perforated liner from 1,682'-4,909' (MD)
(1484'-1487' TVD)
PBSD: 1,487' TVD 4,909' (MD)

WELL NAME/NUMBER Berger 7S	DESCRIPTION Proposed P&A WBD	Ground Elevation: RKB-THF: 15 ft CFH:
FIELD/LEASE/AREA San Juan Basin- Area 2	PREPARED BY M. Wissing	APPROVED/DATE 7/26/2022
		API # 30-045-32946

Hilcorp Energy
P&A Final Reclamation Plan
Berger 7S
API: 30-045-32946
T26N-R11W-Sec. 22-Unit I
LAT: 36.471318 LONG: -107.984827 NAD 27
Footage: 1820' FSL & 870' 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 Adeloye 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. Reclamation of location will take place if adjacent well in fenced area is not plugged with the next two years.
3. Removal of all equipment, anchors, flowlines, cathodic, and pipelines.
4. Sample and close out BGT when test results permit closure.
5. Remove fence for 7S location and reset fence on eastern side of fenced area.
6. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
7. Rip compacted soil and walk down disturbed portion of well pad.
8. Rip and seed location.
9. Blend in southern edge into northern cut of location.
10. Remove all stained gravel and test if needed. Haul impacted soils to land farm.
11. Remove all gravel from berms, pads, and meter run.
12. Hilcorp Energy meter run will be removed out of their ROW. Barricade and blind riser if needed.
13. Enterprise will cut and cap pipeline off location and blind riser on opposite end.

3. ACCESS ROAD RECLAMATION PROCEDURE

1. The well access road will not be reclaimed until adjacent location is plugged.

4. SEEDING PROCEDURE

1. A Sagebrush 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.

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

Date Completed: 08/10/2022

Well No. Berger #7S (API# 30-045-32946)	SHL BHL	1820 660	FSL FSL	& &	870 660	FEL FWL
Lease No. NMSF078641	Sec. 22	T26N			R11W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth (MD) 4909'	PBTD (MD) 4909'	Formation Fruitland Coal				
Elevation (GL) 6264'		Elevation (KB) 6279'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento	Surface	465			Surface/Possible freshwater sands
Ojo Alamo Ss	465	605			Aquifer (possible freshwater)
Kirtland Shale	605	983			Possible gas
Fruitland	983	PBTD			Coal/Gas/Water
Pictured Cliffs Ss					Probable Gas
Lewis Shale					
Chacra					
Cliff House Ss					
Menefee					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:

P & A

- Horizontal Fruitland Coal well. All depths are MD from KB elevation.
- No log available for subject well. Operator submitted tops are acceptable based on subject well file data and Reference Well #1 logs.
- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.
- Perforated liner producing interval 1931' – 4863' (MD). Liner hanger at 1686' (MD).

Reference Well:

1) **Formation Tops**
Hilcorp Energy Company
Berger #2E
1560' FSL, 1710' FWL
Sec. 23, T26N, R11W
6293' KB

Prepared by: Chris Wenman

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

AFMSS 2 Sundry ID 2684237

Attachment to notice of Intention to Abandon

Well: Berger 7S

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 8/10/2022

**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 H₂S.

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)

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 132957

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 132957
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	8/12/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report	8/12/2022