

Well Name: HENDERSON 5	Well Location: T26N / R11W / SEC 5 / SWSW / 36.513232 / -108.03229	County or Parish/State: SAN JUAN / NM
Well Number: 2	Type of Well: OTHER	Allottee or Tribe Name:
Lease Number: NMSF078899A	Unit or CA Name: FRUITLAND COAL	Unit or CA Number: NMNM120774
US Well Number: 3004532582	Well Status: Gas Well Shut In	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2685913

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 08/05/2022	Time Sundry Submitted: 01:27
Date proposed operation will begin: 09/08/2022	

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 Bertha Spencer, Larson Nez/Navajo Nation and Emmanuel Adeloye/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

HENDERSON_5_2_P_A_NOI_Writeup_20220805132536.pdf

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Conditions of Approval

Additional

26N11W05MKkf_Henderson_5_002_20220825103424.pdf

Authorized

General_Requirement_PxA_20220825111011.pdf
2685913_NOIA_5_2_3004532582_KR_08252022_20220825110938.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: AMANDA WALKER	Signed on: AUG 05, 2022 01:26 PM
Name: HILCORP ENERGY COMPANY	
Title: Operations/Regulatory Technician	
Street Address: 1111 TRAVIS ST.	
City: HOUSTON	State: TX
Phone: (346) 237-2177	
Email address: mwalker@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: 08/25/2022
Signature: Kenneth Rennick	



P&A Procedure

General Information			
Well Name	HENDERSON 5 2	Date:	8/5/22
API:	30-045-32582	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 236'

Production Casing: 7" 23# J-55 at 1,791' MD

Production Tubing: 2-3/8" 4.7#; J-55 at 1,786' MD (10/2018)

w/ 2 perf subs BHA, 54 total tbg jts + BHA

Rod String: 3/4" Sucker Rods + insert pump (8/15)

w/ 21 rods, 44 guided rods, shear tool, 3 sinker bars

Current Perforated liner: 1,815'- 4,775' MD

Current PBTD: 4,819' (Shoe plug)

KB: 12'

Wellbore: Horizontal Coal wellbore (2 sidetracks); 90 deg starts at 2,076' MD

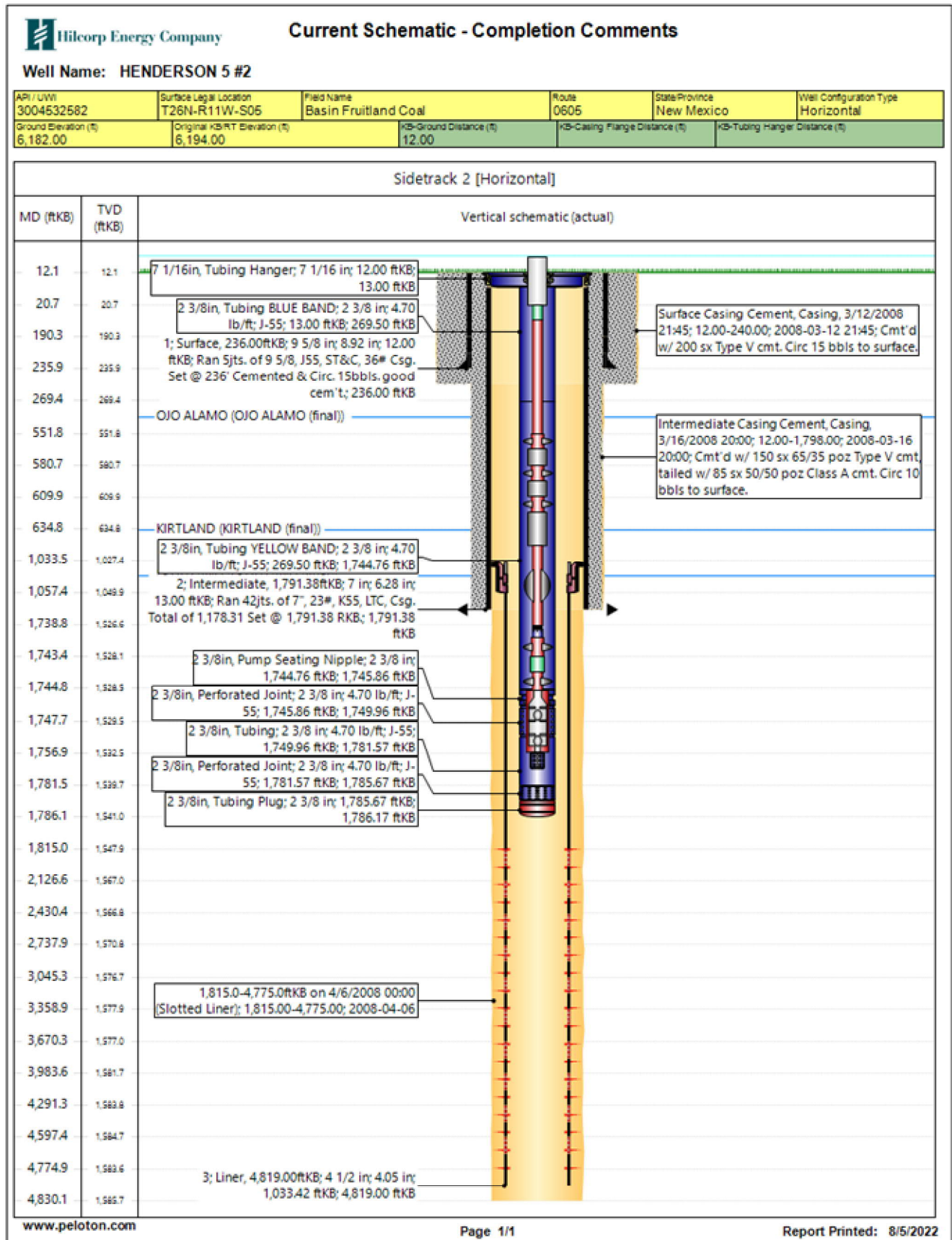
SIBP: 0 psi since 2018 test; SICP: 67 psi

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 1,000' MD.
5. Set 7" CICR at 990' MD.
 - a. **Top of FRC liner top at 1,033' 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 1,033' MD):** RU cementers and pump a 150' balanced cmt plug inside the 7" csg from 840'-990' MD, using 5.9 bbls (29 sx) of 15.8+ ppg Class G cmt.
9. Circulate tbg clean and TOOH with tbg string to 685'.
10. Verify BH pressure is 0 psi.
11. **Plug #3 (Kirtland top 635', Ojo top at 464')** RU cementers and pump a 321' balanced cmt plug inside the 7" csg from 364' – 685', using 12.7 bbls (62 sx) of 15.8+ ppg Class G cmt.
12. Circulate tbg clean and TOOH with tbg to 320'.
13. **Plug #3 (Surface csg shoe at 236')** RU cementers and pump a 150' balanced cmt plug inside the 7" csg from 136'-286', using 5.9 bbls (29 sx) of 15.8+ ppg Class G cmt.
14. **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.
15. Verify all pressures on all strings are at 0 psi.
16. 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.
17. RDMO P&A rig.





Hilcorp Energy Company

Wellbore Schematic - PROPOSED

Cut Whd and weld P&A Marker

SPUD: 3/12/08

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

150' Cmt plug from 136'-286'
5.9 bbls (29 sx) Class G, 1.15 yl, 15.8# cmt

321' Cmt plug from 364'-685'
12.7 bbls (62 sx) Class G, 1.15 yl, 15.8# cmt
Ojo Formation Top (464' MD)

Kirtland Formation Top (635' MD)

FRC Formation Top (1,033' MD) 1,027' TVD
150' Cmt plug from 840' - 990' MD
5.9 bbls (29 sx) Class G, 15.8# cmt
7" CICR set at 990' MD

13-1/2" hole
9-5/8" 36# J-55 8rd Csg @ 236'
Cmt'd w' 200 sx; 15 bbls good cmt to surface

>10 deg Incl starts at 910'

*7" Whipstock 1,140' MD for sidetrack
Original wellbore cemented below whipstock

TOL at 1,033' (1,027' TVD) at 20 deg

8-3/4" hole
7" 26# K-55 8rd Csg @ 1,791' MD
Cmt'd w' 150 sx + 85 sx
circ 10 bbls good cmt to surf.
CBL 3/27/08, TOC at surface

6-1/8" hole
4-1/2" slotted liner from 1,033'-4,830' (MD)
(1548'-1584' TVD)
PBSD: 4,819' (MD), 1,033' TVD

WELL NAME/NUMBER	DESCRIPTION		Ground Elevation:
HENDERSON 5 2	Proposed P&A WBD		RKB-THF: 12 ft
FIELD/LEASE/AREA	PREPARED BY	APPROVED/DATE	CFH:
San Juan Basin- Area 6	M. Wissing	8/5/2022	API # 30-045-32582

Hilcorp Energy
P&A Final Reclamation Plan
Henderson 5 2
API: 30-045-32582
T26N-R11W-Sec. 5-Unit M
LAT: 36.513327 LONG: -108.031678 NAD 27
Footage: 1275' FSL & 1070' FWL
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 Eufrazio 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. Rip and seed location.
6. Sample and close BGT when test results permit closure.
7. Insert silt trap near entrance of pad where water is causing erosion.
8. Remove all stained gravel and test if needed. Haul impacted soils to land farm.
9. Remove all gravel from berms, pads, and meter run.
10. Ask residents on the road if they want to use the gravel off of location.
11. Hilcorp Energy meter run will be removed out of their ROW. Barricade and blind riser if needed.
12. 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 be ripped and seeded.
2. Pull out culverts and all gravel from road.
3. Road will be bermed and fenced at entrance of the main road.

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 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)

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

AFMSS 2 Sundry ID 2685913

Attachment to notice of Intention to Abandon

Well: Henderson 5 2

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 8/25/2022

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 08/25/2022

Well No. Henderson 5 #002 (API# 30-045-32582)	SHL BHL	1295 669	FSL FSL	& &	1070 713	FWL FEL
Lease No. NMSF078899A	Sec. 05	T26N			R11W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth (MD) 4830'	PBTD (MD) 4819'	Formation Fruitland Coal				
Elevation (GL) 6182'		Elevation (KB) 6194'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento	Surface	464			Surface/Possible freshwater sands
Ojo Alamo Ss	464	635			Aquifer (possible freshwater)
Kirtland Shale	635	1055			Possible gas
Fruitland	1055	PBTD			Coal/Gas/Water
Pictured Cliffs Ss					
Lewis Shale					
Chacra					
Cliff House Ss					
Menefee					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:

P & A

- Horizontal well. All formations tops are MD from KB elevation.
- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.
- Slotted liner from 1815' – 4775' (MD). Top of liner at 1033'.

Reference Well:

1) **Formation Tops**
Same

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 138181

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 138181
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	8/29/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	8/29/2022