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

Sundry Print Report

02/02/2023

Well Name: MEXICO FEDERAL N

Well Location: T29N / R11W / SEC 15 / SENW / 36.727783 / -107.981873

County or Parish/State: SAN JUAN / NM

Well Number: 1

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM020505

Unit or CA Name: MEX-FED

Unit or CA Number: NMNM73691

US Well Number: 3004508332

Well Status: Producing Gas Well

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2713024

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 01/30/2023

Time Sundry Submitted: 07:01

Date proposed operation will begin: 02/13/2023

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedures, current and proposed wellbore schematics. A closed loop system will be used. A pre-disturbance site visit was not conducted as surface is Fee.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Mexico_Federal_N_1_P_A_NOI_Procedure_20230130070044.pdf

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Conditions of Approval

Additional

29N11W15FKd_Mexico_Federal_N_001_20230201154033.pdf

Authorized

General_Requirement_PxA_20230201171608.pdf

2713024_NOIA_N_1_3004508332_KR_02012023_20230201171557.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: JAN 30, 2023 07:01 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: 02/01/2023

Signature: Kenneth Rennick

HILCORP ENERGY COMPANY
MEXICO FEDERAL N #001
NOTICE OF INTENT TO PERMANENTLY ABANDON

API #:	3004508332

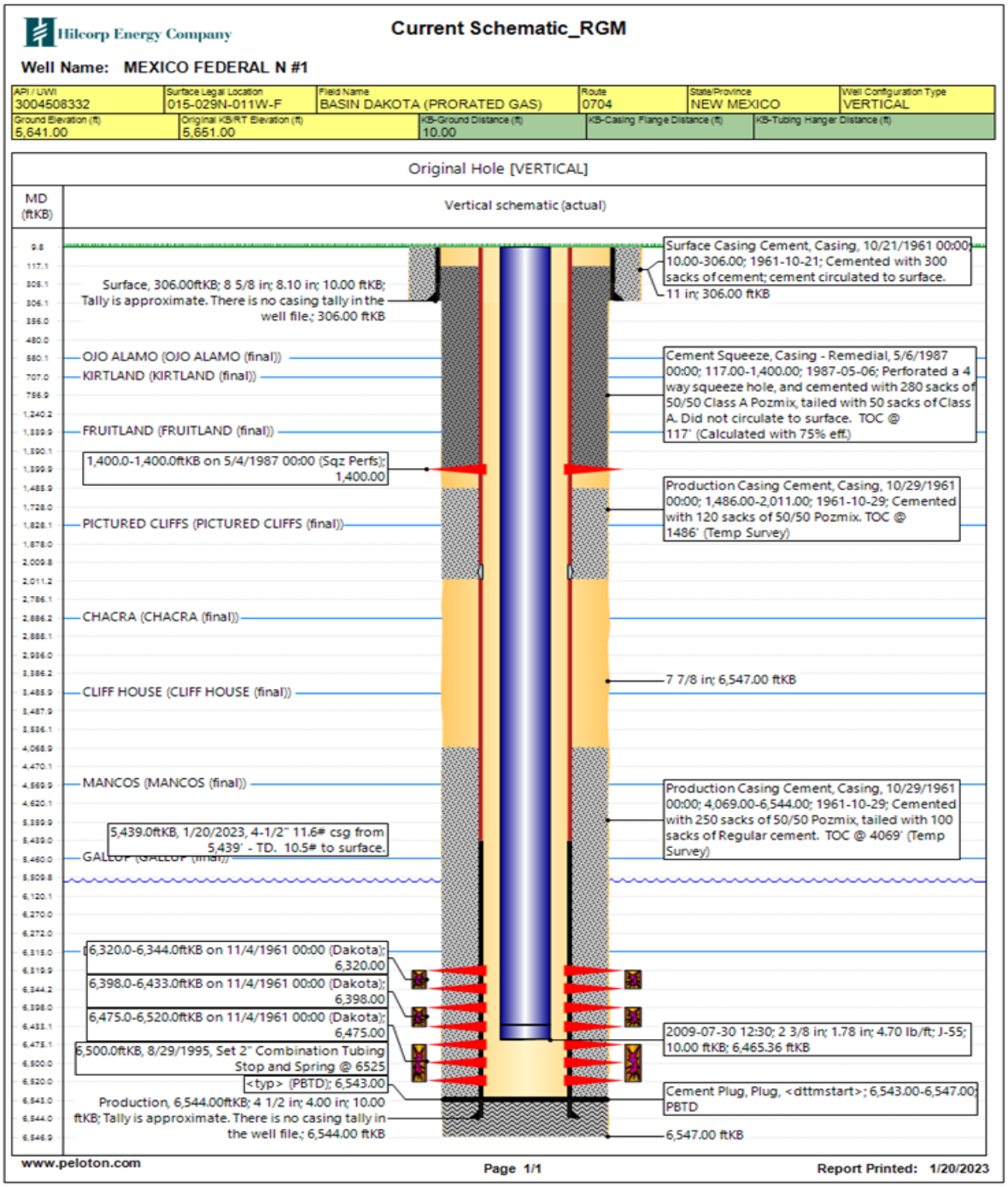
JOB PROCEDURES

☑ NMOCD ☑ BLM **Contact OCD and BLM (where applicable) 24 hrs prior to MIRU. Comply with all NMOCD, BLM (where applicable), and HEC safety and environmental regulations.**

1. MIRU service rig and associated equipment, record all pressures on wellbore.
2. Load well, ND tree, NU BOPs and test.
3. TOOH w/ 2-3/8" 4.7# EUE J55 tbg set at 6,465'.
4. MU 4-1/2" 11.6# csg scraper, clear csg to 6,275', POOH.
5. MU 4-1/2" 11.6# CIBP and set @ 6,270' (DK Top Perf @ 6,320').
6. Load well with inhibited brine & circulate clean. Pressure test the csg to 560 psi. Monitor for 30 minutes. ***Run CBL from 6,270' to surface.***
7. **Plug #1 | 6,120' - 6,270' (CIBP @ 6,270' | Dakota Top Perf: 6,320')** Pump 10sx (2.4bbl) Class III "Select" cement and spot a 150' inside plug over the CIBP.
8. **Plug #2 | 5,360' - 5,510' (Gallup Top @ 5,460')** Pump 10sx (2.4bbl) Class III "Select" cement and spot a 150' inside plug over the Gallup Top.
9. **Plug #3 | 4,470' - 4,620' (Mancos Top @ 4,570')** Pump 10sx (2.4bbl) Class III "Select" cement and spot a 150' inside plug over the Mancos Top.
10. RU ELU, perf circ holes in the 4-1/2" csg @ 3,536'. Set CICR @ 3,486'.
    Plug #4 | 3,386' - 3,536' (Cliff House Top @ 3,486') Mix & circulate in 43sx (10.5bbl) Class III "Select" cement, spot an inside/outside plug to cover the Cliff House Top.
11. RU ELU, perf circ holes in the 4-1/2" csg @ 2,936'. Set CICR @ 2,886'.
    Plug #5 | 2,786' - 2,936' (Chacra Top @ 2,886') Mix & circulate in 43sx (10.5bbl) Class III "Select" cement, spot an inside/outside plug to cover the Chacra Top.
12. **Plug #6 | 1,728' - 1,878' (Pictured Cliffs Top @ 1,828')** Pump 10sx (2.4bbl) Class III "Select" cement and spot a 150' inside plug over the Pictured Cliffs Top.
13. **Plug #7 | 1,240' - 1,390' (Fruitland Top @ 1,340')** Pump 10sx (2.4bbl) Class III "Select" cement and spot a 150' inside plug over the Fruitland Top.
14. **Plug #8 | 490' - 757' (Ojo Top @ 590' | Kirtland Top @ 707')** Pump 18sx (4.4bbl) Class III "Select" cement and spot a 277' inside plug over the Ojo & Kirtland Tops.
15. *CBL will determine the specifics of the surface shoe cement job - calculated TOC ~120'.*
    Plug #9 | 10' - 356' (Surface Shoe @ 306') Pump 23sx (5.6bbl) Class III "Select" cement and spot 346' inside plug to cover the surface shoe from 356' to surface. After wellhead has been cut off, run poly tube to TOC in 8-5/8" x 4-1/2" annulus and fill to surafce.
16. LD tubing. ND BOP and cut off wellhead below surface casing flange as per NMOCD. Top off cement at surface as needed. Weld new P&A maker.

HILCORP ENERGY COMPANY
MEXICO FEDERAL N #001
NOTICE OF INTENT TO PERMANENTLY ABANDON

MEXICO FEDERAL N #001 - CURRENT WELLBORE SCHEMATIC



HILCORP ENERGY COMPANY
MEXICO FEDERAL N #001
NOTICE OF INTENT TO PERMANENTLY ABANDON

MEXICO FEDERAL N #001 - PROPOSED P&A SCHEMATIC

Hilcorp Energy Company

WBD Proposed Formations

Well Name: MEXICO FEDERAL N #1

API / UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3004508332	015-029N-011W-F	BASIN DAKOTA (PRORATED GAS)		NEW MEXICO	VERTICAL
Ground Elevation (ft)	**Casing Flange Elevation (ft)**	**KB-Ground Distance (ft)**	**KB-Casing Flange Distance (ft)**	**Original Spud Date**	**Rig Release Date**
5,641.00		10.00		10/19/1961 00:00	

Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
WELL INTERVENTION	TUBING REPAIR	OTHER	7/23/2009	7/30/2009

Original Hole [VERTICAL]

MD (ftKB)	Formation Tops	MD
9.8		
305.1		
356.0		
580.1	OJO ALAMO	580.0
	KIRTLAND	707.0
756.9		
1,339.9	FRUITLAND	1,340.0
1,399.9		
1,728.0		
	PICTURED CL...	1,828.0
1,878.0		
2,011.2		
2,886.2	CHACRA	2,886.0
2,936.0		
3,485.9	CLIFF HOUSE	3,486.0
3,536.1		
4,470.1		
	MANCOS	4,570.0
4,620.1		
5,439.0		
	GALLUP	5,460.0
5,509.8		
6,270.0		
6,315.0	DAKOTA	6,315.0
6,344.2		
6,433.1		
6,500.0		
6,543.0		
6,546.9		

Vertical schematic (proposed)

Surface Plug, Plug, 12/31/2023 00:00; 10.00-356.00; 2023-12-31; 23sx (5.6bbl) Class III "Select" cement.

Surface Plug 1B - Annular Top Job, Casing - Remedial, 12/31/2023 00:00; 10.00-117.00; 2023-12-31; Run poly tube to 117', fill up annulus.

Surface Casing Cement, Casing, 10/21/1961 00:00; 10.00-306.00; 1961-10-21; Cemented with 300 sacks of cement; cement circulated to surface.

8 5/8 in; 8.10 in; 10.00 ftKB; 306.00 ftKB

Kirtland Plug, Plug, 12/31/2023 00:00 (Kirtland & Ojo Plug); 480.00-757.00; 2023-12-31; 18sx (4.4bbl) Class III "Select" cement.

Cement Squeeze, Casing - Remedial, 5/6/1987 00:00; 117.00-1,400.00; 1987-05-06; Perforated a 4 way squeeze hole, and cemented with 280 sacks of 50/50 Class A Pozmix, tailed with 50 sacks of Class A. Did not circulate to surface. TOC @ 117' (Calculated with 75% eff.)

Fruitland Plug, Plug, 12/31/2023 00:00; 1,240.00-1,390.00; 2023-12-31; 10sx (2.4bbl) Class III "Select" cement.

Pictured Cliffs Plug, Plug, 12/31/2023 00:00; 1,728.00-1,878.00; 2023-12-31; 10sx (2.4bbl) Class III "Select" cement.

Production Casing Cement, Casing, 10/29/1961 00:00; 1,486.00-2,011.00; 1961-10-29; Cemented with 120 sacks of 50/50 Pozmix. TOC @ 1486' (Temp Survey)

Chacra Plug, Plug - Balanced, 12/31/2023 00:00; 2,786.00-2,936.00; 2023-12-31; 43sx (10.5bbl) Class III "Select" cement.

Cliff House Plug, Plug - Balanced, 12/31/2023 00:00; 3,386.00-3,536.00; 2023-12-31; 43sx (10.5bbl) Class III "Select" cement.

Mancos Plug, Plug, 12/31/2023 00:00; 4,470.00-4,620.00; 2023-12-31; 10sx (2.4bbl) Class III "Select" cement.

Production Casing Cement, Casing, 10/29/1961 00:00; 4,069.00-6,544.00; 1961-10-29; Cemented with 250 sacks of 50/50 Pozmix, tailed with 100 sacks of Regular cement. TOC @ 4069' (Temp Survey)

Gallup Plug , Plug, 12/31/2023 00:00; 5,360.00-5,510.00; 2023-12-31; 10sx (2.4bbl) Class III "Select" cement.

CIBP & Dakota Plug, Plug, 12/31/2023 00:00; 6,120.00-6,270.00; 2023-12-31; 10sx (2.4bbl) Class III "Select" cement.

Cement Plug, Plug, <dttmstart>; 6,543.00-6,547.00; PBTD

<typ> (PBTD); 6,543.00

4 1/2 in; 4.00 in; 10.00 ftKB; 6,544.00 ftKB

4 in, CICR, 2,886.0, 2,888.0; 2,886.00-2,888.00

2,936.00 ftKB

4 in, CICR, 3,486.0, 3,488.0; 3,486.00-3,488.00

3,536.00 ftKB

5,439.0ftKB, 1/20/2023, 4-1/2" 11.6# csg from 5,439' - TD. 10.5# to surface.

4 in, CIBP, 6,270.0, 6,272.0; 6,270.00-6,272.00

6,500.0ftKB, 8/29/1995, Set 2" Combination Tubing Stop and Spring @ 6525

www.peloton.com Page 1/1 Report Printed: 1/20/2023

BLM FLUID MINERALS
P&A Geologic Report

Date Completed: 2/1/2023

Well No. Mexico Federal N #001 (API# 30-045-08332)		Location	1850 FNL	&	1650 FWL	
Lease No. NMNM020505		Sec. 15	T29N		R11W	
Operator Hilcorp Energy Company		County	San Juan	State	New Mexico	
Total Depth 6547’	PBTD 6543’	Formation Dakota				
Elevation (GL)		Elevation (KB) 5651’				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					Surface/possible freshwater sands
Nacimiento			Surface	590	Possible freshwater sands
Ojo Alamo Ss			590	707	Aquifer (possible freshwater)
Kirtland Shale			707	1488	Possible gas
Fruitland			1488	1828	Coal/Gas/Water
Pictured Cliffs Ss			1828	2020	Probable Gas
Lewis Shale			2020	2886	
Chacra			2886	3486	Possible Gas
Cliff House Ss			3486	3600	Water/possible gas
Menefee			3600	4210	Coal/Ss/Water/possible gas
Point Lookout Ss			4210	4570	
Mancos Shale			4570	5460	Probable O&G
Gallup			5460	6210	O&G
Greenhorn			6210	6272	
Graneros Shale			6272	6315	Probable O&G
Dakota Ss			6315	PBTD	O&G/water
Morrison					

Remarks:
P & A

- Adjust Plug #7 (Fruitland) to cover BLM formation top pick at 1488’.
- Dakota perfs 6320’ – 6520’.

Reference Well:
1) **Formation Tops**
Same

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 2713024

Attachment to notice of Intention to Abandon

Well: Mexico Federal N 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. Adjust Plug #7 (Fruitland) to cover BLM formation top pick at 1488'.

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 2/1/2023

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_2S.

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 181874

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 181874
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	2/2/2023
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	2/2/2023
kpickford	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	2/2/2023