

Well Name: SUNRAY E	Well Location: T30N / R10W / SEC 9 / SWNW / 36.82939 / -107.894913	County or Parish/State: SAN JUAN / NM
Well Number: 2B	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF077730	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004530013	Well Status: Temporarily Abandoned	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2755037

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 10/05/2023	Time Sundry Submitted: 12:48
Date proposed operation will begin: 11/02/2023	

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedure, current and proposed wellbore schematics. The Pre-Disturbance Site Visit was held on 3/9/2023 with 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

Sunray_E_2B_PA_NOI_filed_20231005124716.pdf

Received by OCD: 10/6/2023 9:01:54 AM

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Conditions of Approval

Specialist Review

General_Requirement_PxA_20231006074636.pdf
30N10W09_Sunray_E_2B_Geo_KR_20231006074624.pdf
2755037_NOIA_2B_3004530013_KR_10062023_20231006074624.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: TAMMY JONES

Signed on: OCT 05, 2023 12:47 PM

Name: HILCORP ENERGY COMPANY

Title: Regulatory Compliance Specialist

Street Address: 382 ROAD 3100

City: AZTECState: NM

Phone: (505) 324-5185

Email address: TAJONES@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: 10/06/2023

Signature: Kenneth Rennick



HILCORP ENERGY COMPANY
Sunray E 2B
NOTICE OF INTENT TO PERMANENTLY ABANDON

API #:	3004530013
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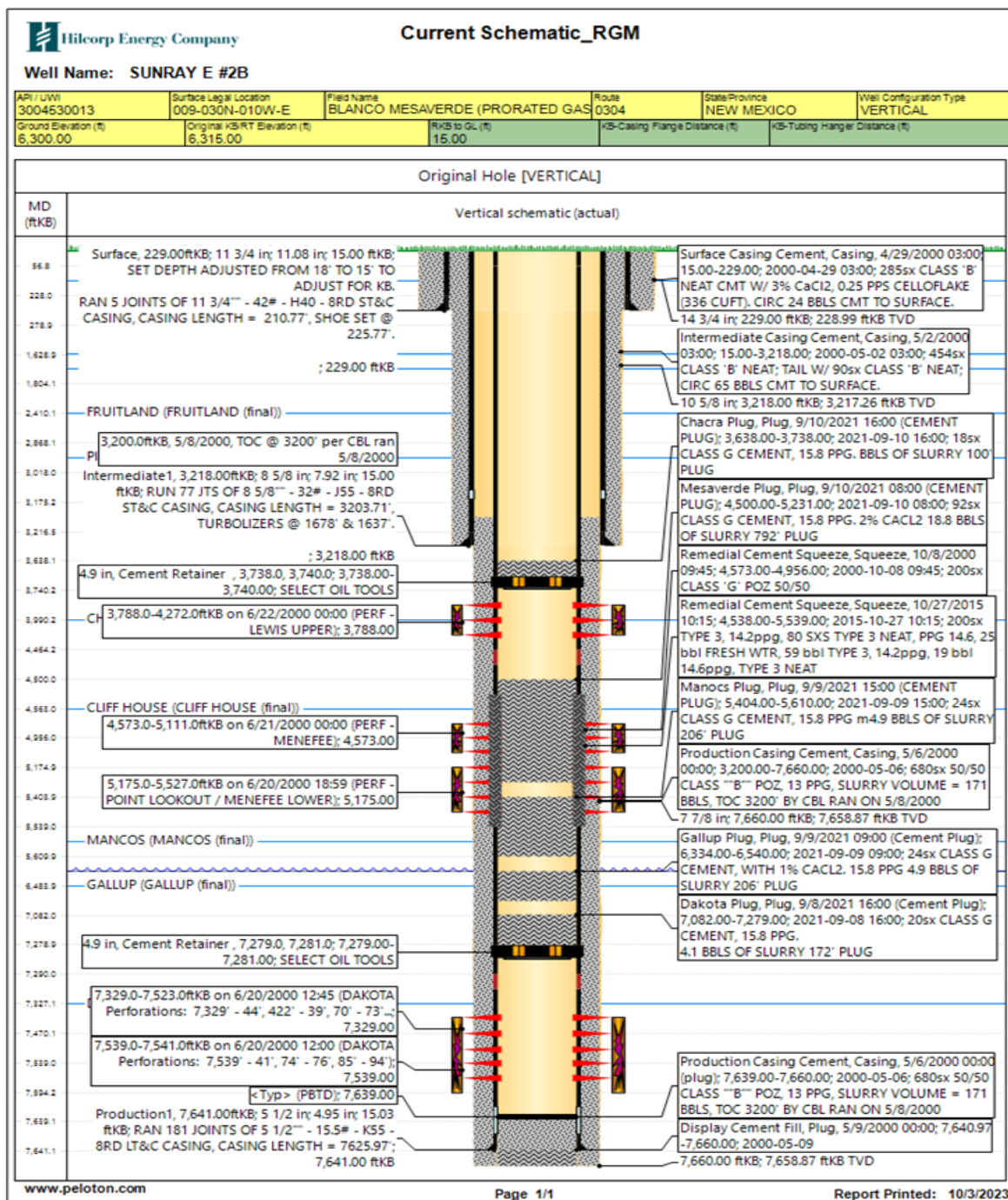
JOB PROCEDURES

- | | | |
|-------------------------------------|-------|--|
| <input checked="" type="checkbox"/> | NMOCD | <p>Contact OCD & BLM 24 hrs prior to MIRU - confirm a PTPW has been acquired from Jicarilla. Comply with all NMOCD, BLM (where applicable), and HEC safety and environmental regulations.</p> |
| <input checked="" type="checkbox"/> | BLM | |
| <input checked="" type="checkbox"/> | | |
1. MIRU service rig and associated equipment, record all pressures on wellbore.
 2. Load well, ND tree, NU BOPs and test.
 3. Pressure test Chacra plugback plug & 5-1/2" csg to 560psi for 30min.
 4. RIH w/ 2-3/8" work string to +/- 2,700'.
 RU ELU, RIH w/ perf gun loaded w/ 5-1/2" 15.5# circ charges, shoot @ 3,018'. Establish circulation, condition hole with working brine.
**Plugs #1 - #5 were pumped during prior NOI'd TA operations. The following plug design is for full P&A & based on CBL [5/8/2000].*
 5. **Plug #6 | 2,868' - 3,018' (PC Top @ 2,968')** Circulate in 35sx (8.5 bbl) Class III "Select" cement and spot a 150' balanced cmt plug to cover the Pictured Cliffs top. **Note: cement volume includes 50' excess.*
 6. PUH w/ work string to +/- 2,200'.
 RU ELU, RIH w/ perf gun loaded w/ 5-1/2" 15.5# circ charges, shoot @ 2,460'. Establish circulation.
Plug #7 | 2,310' - 2,460' (FRD Top @ 2,410') Circulate in 35sx (8.5 bbl) Class III "Select" cement and spot a 150' balanced cmt plug to cover the Fruitland top. **Note: cement volume includes 50' excess.*
 7. PUH w/ work string to +/- 1,400'.
 RU ELU, RIH w/ perf gun loaded w/ 5-1/2" 15.5# circ charges, shoot @ 1,804'. Establish circulation.
Plug #8 | 1,529' - 1,804' (KRD Top @ 1,754' | OJO Top @ 1,629') Circulate in 63sx (15.4 bbl) Class III "Select" cement and spot a 275' balanced cmt plug to cover the Kirtland & Ojo tops. **Note: cement volume includes 50' excess.*
**Plug will be split if any BH pressure observed.*
 8. POOH w/ work string, LD.
 RU ELU, RIH w/ perf gun loaded w/ 5-1/2" 15.5# circ charges, shoot @ 279'. Establish circulation.
 9. **Plug #9 | Surface - 279' (Surface Shoe @ 229')** Circulate in 61sx (14.9 bbl) Class III "Select" cement and spot a 214' balanced plug to cover the surface shoe from 279' to surface.
 10. 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
Sunray E 2B
NOTICE OF INTENT TO PERMANENTLY ABANDON

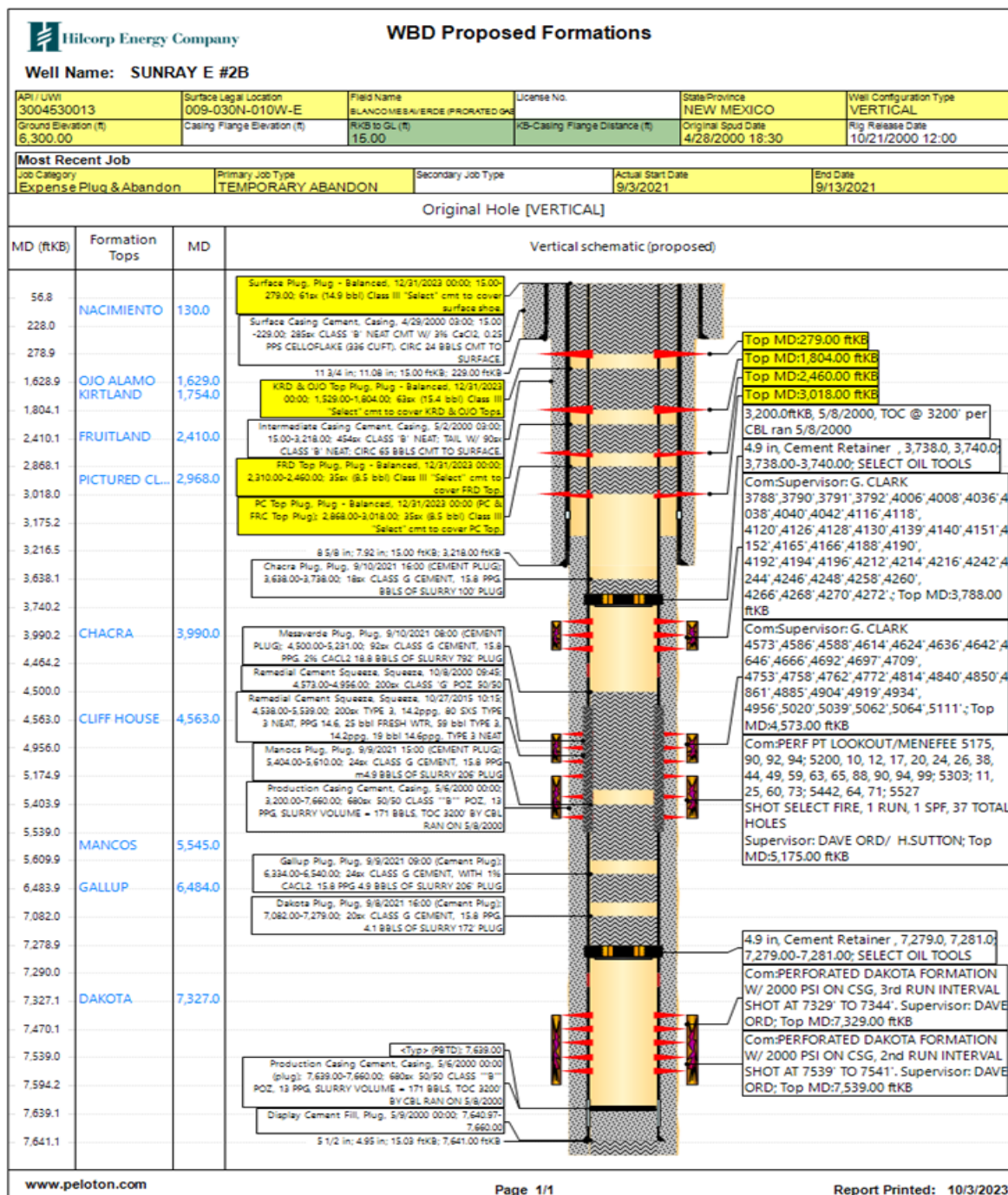
Sunray E 2B - CURRENT WELLBORE SCHEMATIC





HILCORP ENERGY COMPANY
Sunray E 2B
NOTICE OF INTENT TO PERMANENTLY ABANDON

Sunray E 2B - PROPOSED P&A SCHEMATIC



Hilcorp Energy
P&A Final Reclamation Plan
Sunray E 2B
API: 30-045-30013
T30N- R10W-Sec. 09 Unit E
LAT: 36.82933 LONG: -107.894416 NAD 27
Footage: 1450' FNL & 790' FWL
San Juan County, NM

1. PRE- RECLAMATION SITE INSPECTION

A pre-reclamation site inspection was completed with Roger Herrera from the BLM and Bobby Spearman, Hilcorp Energy SJN Construction Foreman on March 9th, 2023

2. LOCATION RECLAMATION PROCEDURE

1. Reclamation work will begin in spring/summer
2. Removal of all equipment, anchors, flowlines, cathodic, meter run.
3. Strip pipeline to edge of location, blind flange at Enterprise pipeline tie in and leave M/IL valve riser.
4. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
5. Location fill slope on the West will be moved to the East side to fill in cut slope then tapered down to the existing landscape.
6. Recontouring as needed to mimic surrounding landscape.
7. Rip compacted soil and walk down disturbed portion of well pad if need.
8. Remove all gravel from berms, pads, and bury in toe of cut or spread on main access road.

3. ACCESS ROAD RECLAMATION PROCEDURE

1. Location access road to be closed by ripping and reseeding.

2. SEEDING PROCEDURE

1. A Pinion Juniper seed mix mixed for all reclaimed and disturbed areas of the well pad and lease road.
2. Drill seeding, crimping and mulching 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.

4. Weed Management

1. No noxious weeds were found on location

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

AFMSS 2 Sundry ID 2755037

Attachment to notice of Intention to Abandon

Well: Sunray E 2B

CONDITIONS OF APPROVAL

1. Plugging work must be completed by September 30, 2024.
2. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
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 10/06/2023

**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 H₂S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), through the Automated Fluid Minerals Support System (AFMSS) 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.

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 10/6/2023

Well No. Sunray E 2B (API 30-045-30013)	Location	SWNW				
Lease No. NMS077730	Sec. 9	T30N			R10W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth 3638' Chacra Plugback		Formation Plugback, No Current Producing Zones				
Elevation (GL) 6315'						

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/freshwater sands
Nacimiento Fm	130				Possible freshwater sands
Ojo Alamo Ss	1629				Aquifer (possible freshwater)
Kirtland Shale	1754				
Fruitland Fm	2410				Coal/Gas/Possible water
Pictured Cliffs Ss	2968				Gas
Lewis Shale					
Chacra					Gas
Cliff House Ss					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale					
Gallup					O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:

P & A

Reference Well:

- Limited raster log data above 3000 feet. The estimated formation tops by the operator are appropriate. .

Prepared by: Kenneth Rennick

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 273145

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 273145
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	If pressure on bradenhead - kirtland and ojo plug will need to be separated - Notify NMOCD 24 hours prior to moving on.	10/16/2023