

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

Well Name: JICARILLA 20

Well Location: T25N / R4W / SEC 18 /
NESW / 36.397237 / -107.2945287

County or Parish/State: RIO
ARRIBA / NM

Well Number: 4

Type of Well: OIL WELL

Allottee or Tribe Name:
JICARILLA APACHE

Lease Number: JIC64

Unit or CA Name:

Unit or CA Number:

US Well Number: 3003982253

Well Status: Producing Oil Well

Operator: HILCORP ENERGY
COMPANY

Notice of Intent

Sundry ID: 2729475

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 05/08/2023

Time Sundry Submitted: 06:31

Date proposed operation will begin: 05/22/2023

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 4/26/2023 with Jicarilla/BIA. The Re-Vegetation Plan is attached. A closed loop system will be used. Jicarilla has requested that a surface plate be used for the P&A marker for this location. Please see attached letter.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Jicarilla_20_4_P_A_NOI_20230508063019.pdf

Accepted for record – NMOCD
JRH 05/23/23

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COMPANY

Conditions of Approval

Additional

25N04W18KKd_Jicarilla_20_004_20230515115625.pdf

Authorized

General_Requirement_PxA_20230515151821.pdf

2729475_NOIA_20_4_3003982253_KR_05152023_20230515151811.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: MAY 08, 2023 06:30 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: 05/15/2023

Signature: Kenneth Rennick



HILCORP ENERGY COMPANY
Jicarilla 20-4
NOTICE OF INTENT TO PERMANENTLY ABANDON

API #:	3003982253
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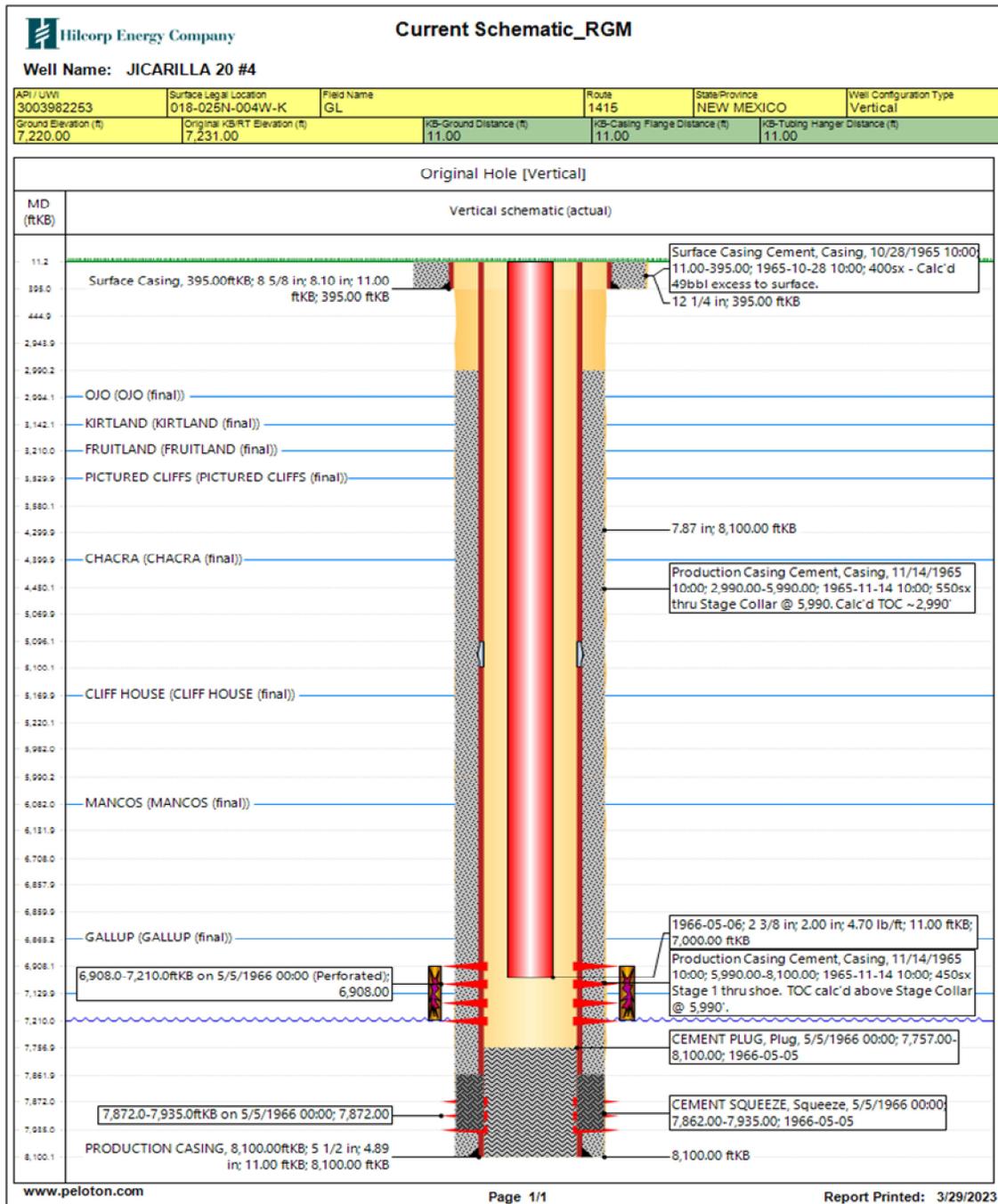
JOB PROCEDURES

- | | | |
|-------------------------------------|-----------|---|
| <input checked="" type="checkbox"/> | NMOCD | Contact OCD and Jicarilla 2 weeks prior to MIRU (Need PTPW from Jicarilla). Comply with all NMOCD, Jicarilla and HEC |
| <input checked="" type="checkbox"/> | Jicarilla | 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. POOH w/ 2-3/8" 4.7# production tbq set @ 7,000'.
 4. MU 5-1/2" 17# GR, clear csg to 6,870', POOH. RIH w/ 5-1/2" 17# CICR on pipe and set @ 6,858' (GL Top perf 6,908', DK Top 7,130').
 5. **Plug #1a | 6,858' - 7,130' (CICR @ 6,858' | DK Top 7,130')** Pump 52sx (12.7 bbl) Class III "Select" cement and spot a 272' inside plug below the CICR to sqz GL perms & cover DK Top. Unsting, reverse out, POOH w/ WS.
 6. Load well with inhibited brine & circulate clean. Pressure test the csg to 560 psi. Monitor for 30 minutes. **Run CBL from 6,858' to surface.**
All of the following plug designs are subject to change pending CBL results.
 7. RIH w/ WS to CICR @ 6,858'.
Plug #1b | 6,708' - 6,858' (CICR @ 6,858') Pump 15sx (3.7 bbl) Class III "Select" cement and spot a 150' inside plug over the CICR.
 8. **Plug #2 | 5,982' - 6,132' (Mancos Top @ 6,082')** Pump 15sx (3.7 bbl) Class III "Select" cement and spot a 150' inside plug over the Mancos Top.
 9. **Plug #3 | 5,070' - 5,220' (Cliff House Top @ 5,170')** Pump 15sx (3.7 bbl) Class III "Select" cement and spot a 150' inside plug over the Cliff House Top.
 10. **Plug #4 | 4,300' - 4,450' (Chacra Top @ 4,400')** Pump 15sx (3.7 bbl) Class III "Select" cement and spot a 150' inside plug over the Chacra Top.
 11. **Plug #5 | 2,944' - 3,580' (PC Top 3,530', FRD Top 3,210', KRD Top 3,142', OJO Top 2,994')** Pump 61sx (14.9 bbl) Class III "Select" cement and spot a 636' inside plug over all tops.
Plugs will be split & NMOCD/BLM will be notified if BH pressure is present.
 12. RIH perf circ holes in 5-1/2" 17# csg @ 445'. Establish circulation up 8-5/8" annulus.
Plug #6 | 11' - 445' (Surface Shoe @ 395') Circulate in 103sx (25.1 bbl) Class III "Select" cement and spot a 434' balanced inside/outside plug to cover the surface shoe.
 13. 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
Jicarilla 20-4
NOTICE OF INTENT TO PERMANENTLY ABANDON

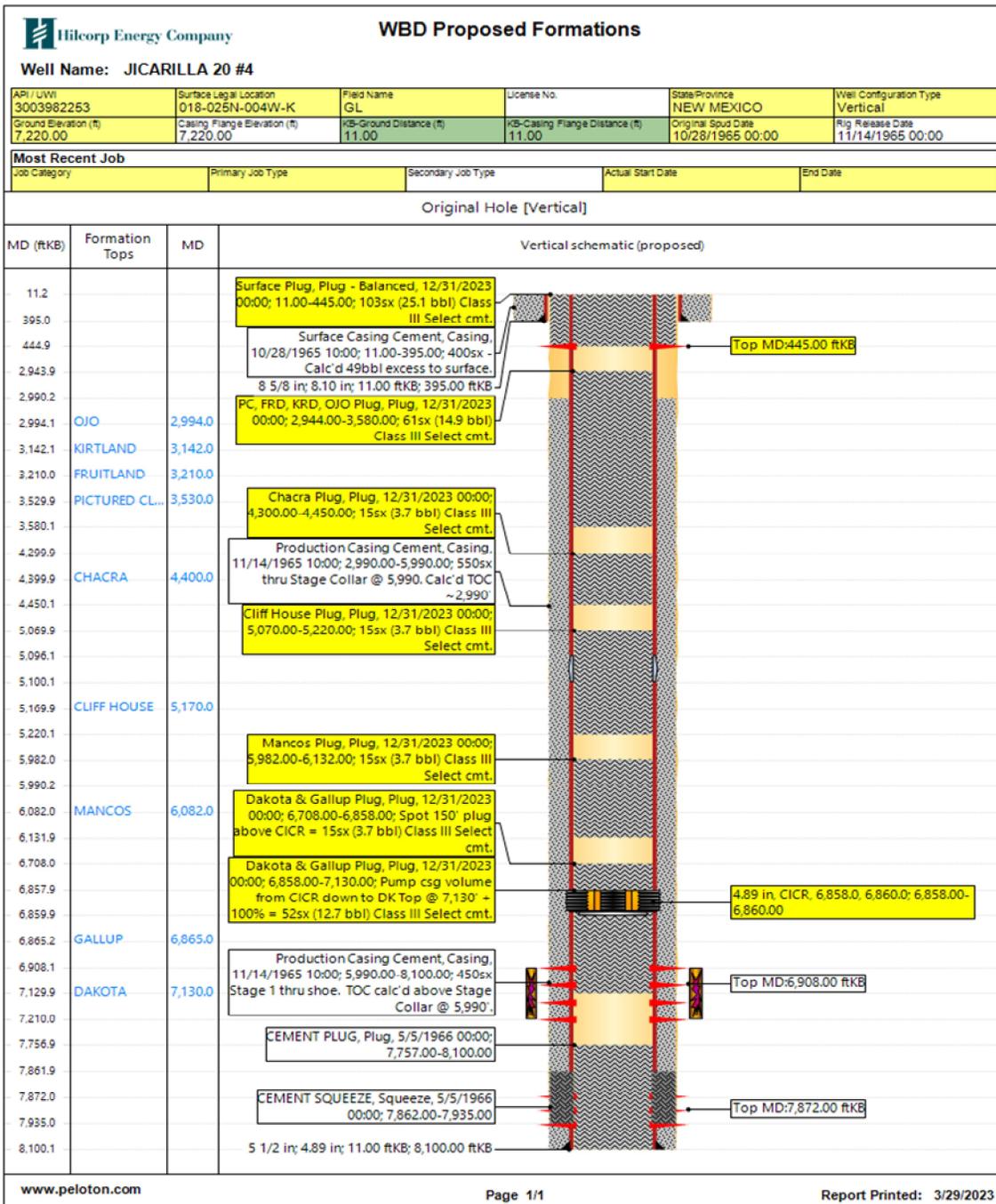
Jicarilla 20-4 - CURRENT WELLBORE SCHEMATIC





HILCORP ENERGY COMPANY
Jicarilla 20-4
NOTICE OF INTENT TO PERMANENTLY ABANDON

Jicarilla 20-4 - PROPOSED P&A SCHEMATIC



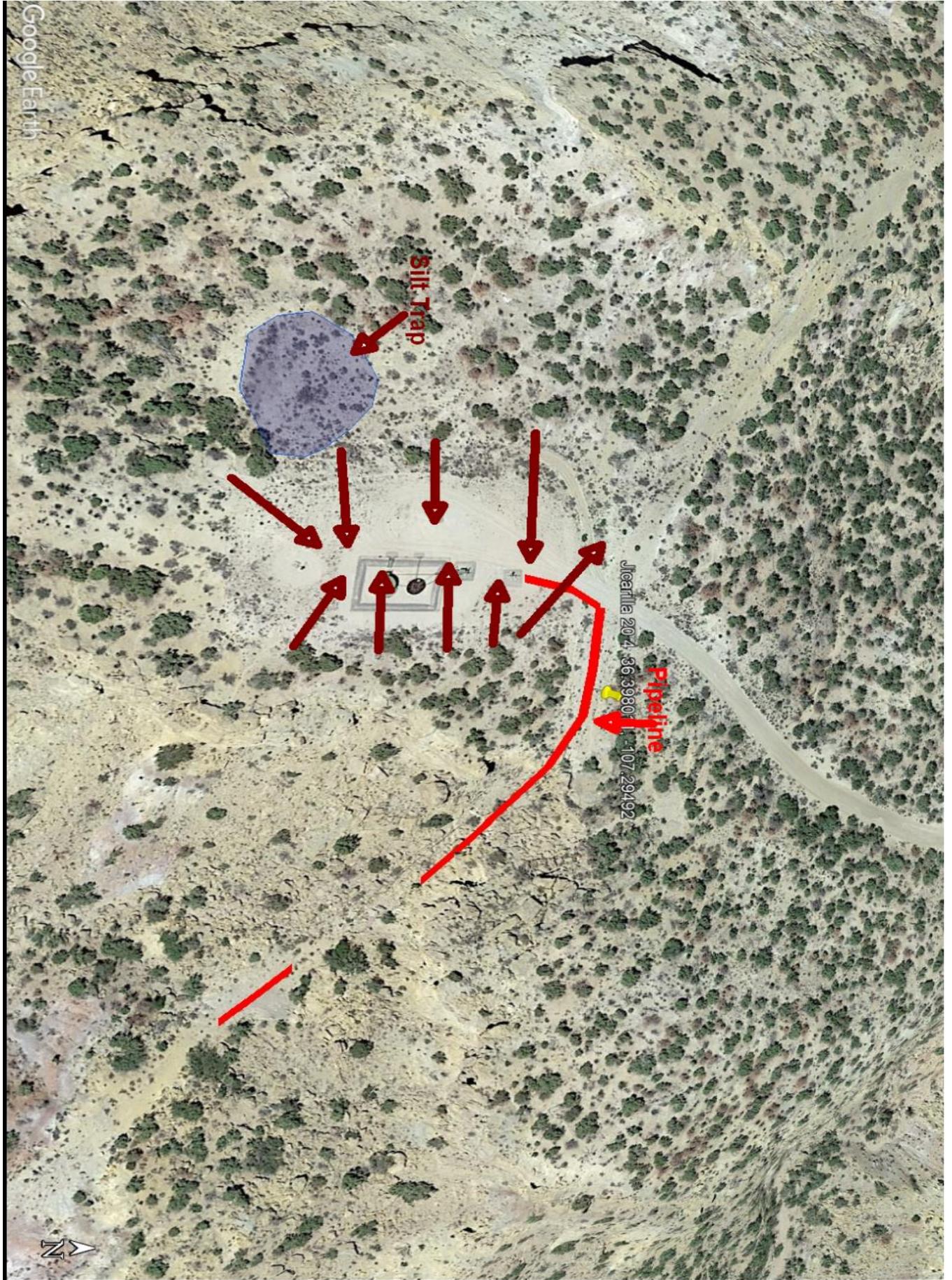
Hilcorp Energy

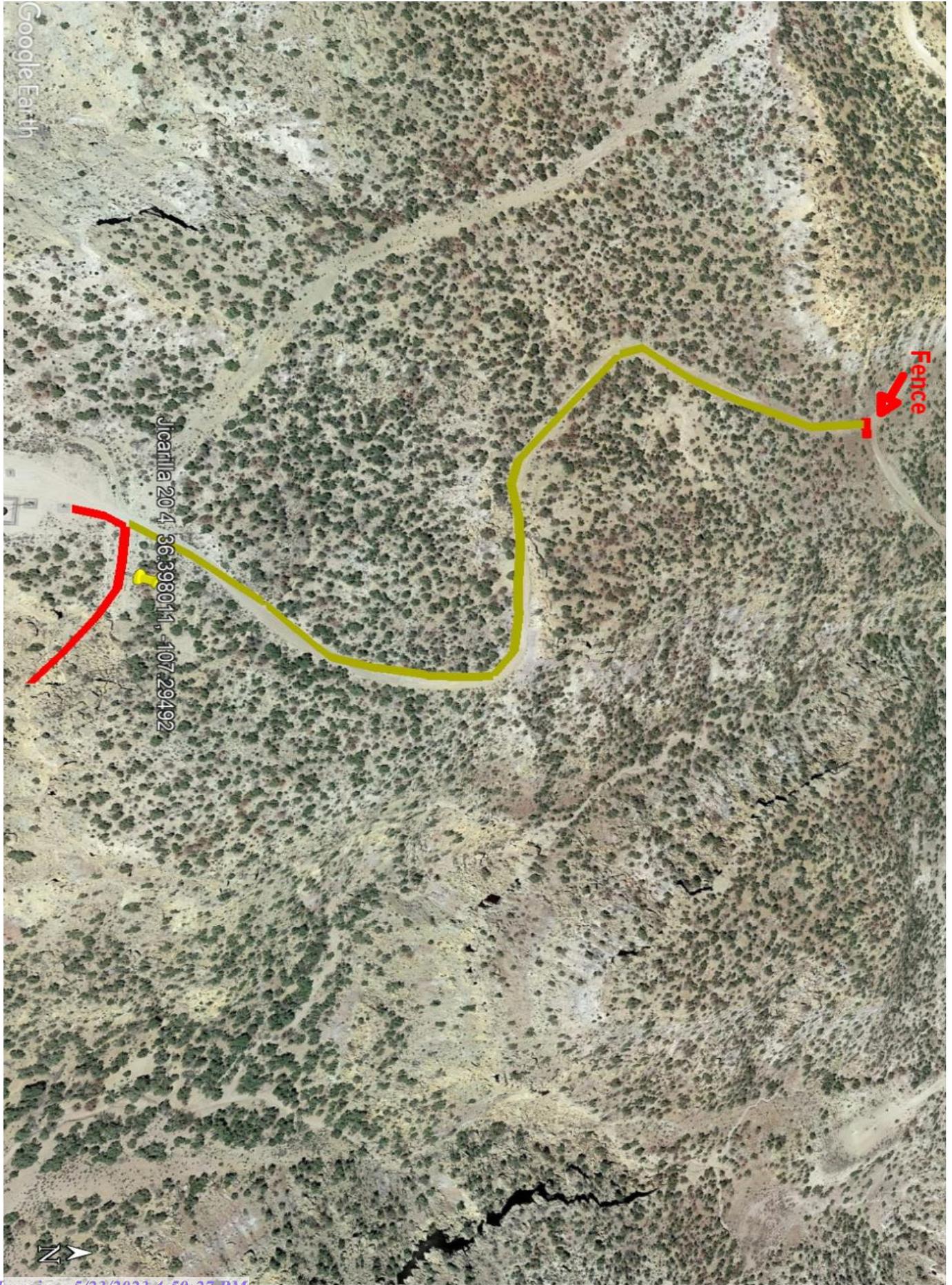
Jicarilla 20 4
36.397060, -107.294400
API-30-039-82253
Jicarilla Lease #64

Final Reclamation Plan

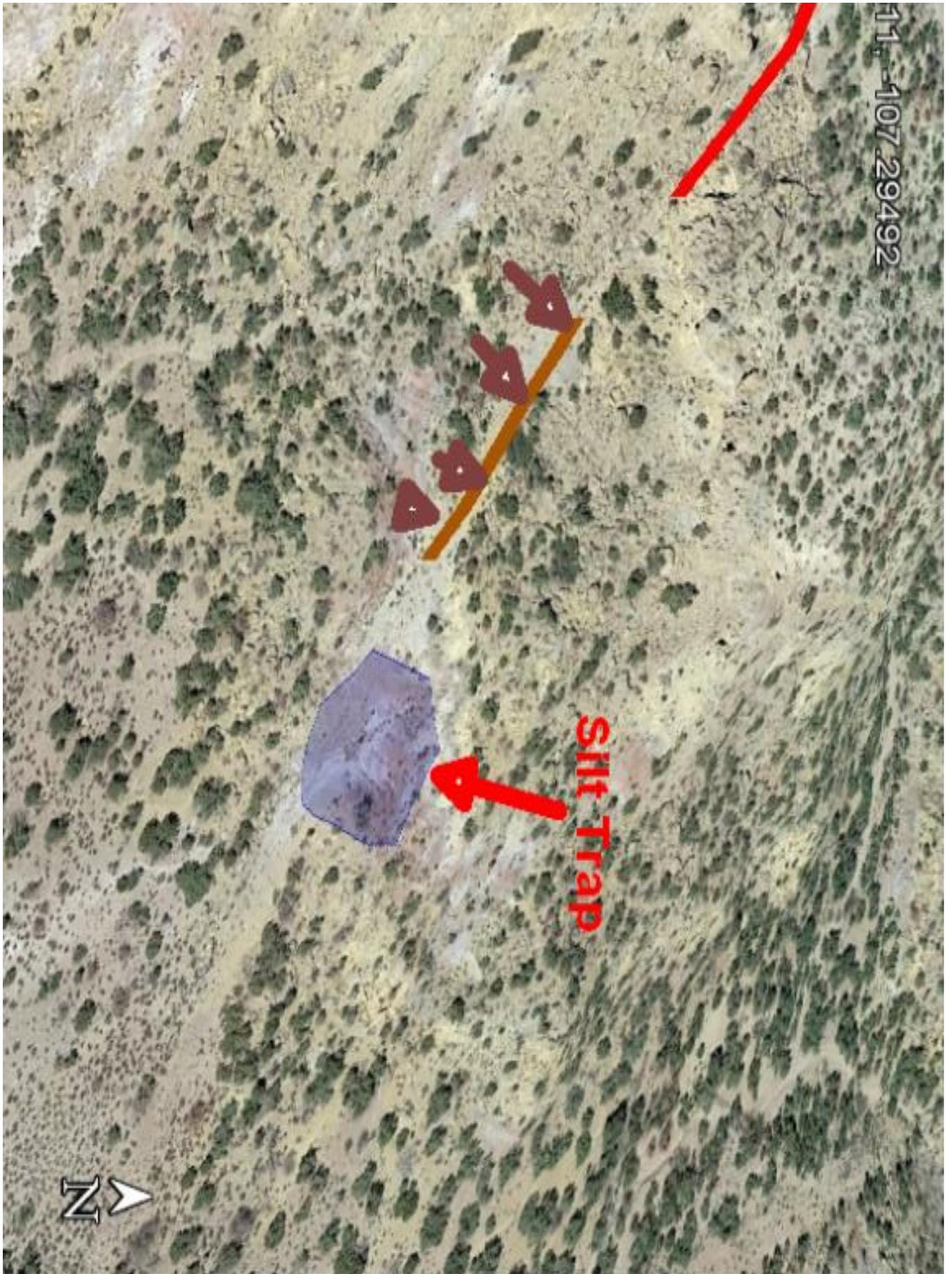
Onsite 4/26/2023 with Kurt Sandoval, Alfred Vigil, Jason Sandoval,
Orlando Muniz, Donna Montoya.

1. Pick up and remove all trash, metal, cable, and any foreign debris within 200' of location.
2. Remove anchors.
3. Strip equipment off facility. Test under pit and tank.
4. Hilcorp to remove meter run and piping back to edge of cliff, bottom of cliff 25', 25' both sides of wash crossing, and 25' from valve manifold. Will remove both pipes in ROW 25' from cliff edge. Build silt trap as indicated at the bottom of the mesa to reduce erosion. Place rolling water diversions as needed.
5. Reclaim location, pushing fill from edge of disturbance back to center on both sides of location to re-form ridge. Leave rough rolling terrain to minimize erosion.
6. Clean silt trap.
7. Set surface wellhead marker plate.
8. Reclaim road back to the main road. Install rolling water diversions as needed.
9. Install woven field wire fence at main road.
10. Rip compacted soil.
11. Re-seed all disturbed areas. Drill where applicable at rate per acre defined by seed mix, and broadcast seed and harrow, at double the rate, all other disturbed areas. Mesa Mix seed mix will be used.













United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

Jicarilla Agency

P.O. Box 167

Dulce, New Mexico 87528

IN REPLY REFER TO:

Branch of Real Estate Services

November 15, 2019

Memorandum

To: Robert Switzer, Environmental Protection Specialist
Bureau of Land Management, Farmington Field Office

From: Kurt Sandoval, Realty Officer
Bureau of Indian Affairs, Jicarilla Agency

Subject: BIA Concurrence concerning Well Pad Monument Makers

Let this serve as concurrence for the agreed upon preferred method to be used when constructing well pad monument markers on Jicarilla Apache Tribal Lands. We will eliminate the 6 ft. dry hole marker and use a permanent metal plate that will be installed at ground level, effective September 2019. The marker will contain the following information:

- Well Pad Lease Number
- Well Pad Location Name and Number
- Well Pad Legal Description, specifically Section, Township and Range
- Well Pad API Number
- Well Pad Plug Date
- Well Pad Operator Name

You may contact our office if you have any questions or concerns at (575) 759-3936. Thank you.


Realty Officer

cc: Jicarilla Oil and Gas Administration

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

Date Completed: 5/15/2023

Well No. Jicarilla 20 #004 (API# 30-039-82253)	Location	1754	FSL	&	2090	FWL
Lease No. JIC64	Sec. 18	T25N			R04W	
Operator Hilcorp Energy Company	County	Rio Arriba		State	New Mexico	
Total Depth 8100'	PBTD 7757'	Formation Dakota, Gallup				
Elevation (GL)		Elevation (KB) 7236'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento			Surface	2994	Surface/possible freshwater sands
Ojo Alamo Ss			2994	3142	Aquifer (possible freshwater)
Kirtland Shale			3142	3210	Possible gas
Fruitland			3210	3530	Coal/Gas/Water
Pictured Cliffs Ss			3530	3634	Probable Gas
Lewis Shale			3634	4400	
Chacra (lower)			4400	5170	Probable Gas
Cliff House Ss			5170	5385	Gas
Menefee			5385	5760	Gas
Point Lookout Ss			5760	6082	Gas
Mancos Shale			6082	6865	O&G
Gallup			6865	7551	O&G
Greenhorn			7551	7710	
Graneros Shale			7710	7869	O&G
Dakota Ss			7869	PBTD	O&G
Morrison					

Remarks:

P & A

- Sundry ID: 2729475
- BLM picks for the Dakota, Graneros, and Greenhorn formation tops vary from Operator. No plug changes.
- Gallup perfs 6908' – 7210'.
- Dakota perfs (squeezed) 7872' – 7935'.

Reference Well:

1) **Formation Tops**
Same

Prepared by: *Chris Wenman*

**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.

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

AFMSS 2 Sundry ID 2729475

Attachment to notice of Intention to Abandon

Well: Jicarilla 20 4

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 5/15/2023

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 217519

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 217519
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Accepted or record - NMOCD JRH 5/23/23. BLM approved P&A 5/15/23	5/23/2023