

Well Name: APACHE FEDERAL	Well Location: T24N / R5W / SEC 18 / NWSE / 36.311367 / -107.400719	County or Parish/State: RIO ARRIBA / NM
Well Number: 10	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC69	Unit or CA Name:	Unit or CA Number:
US Well Number: 3003905477	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2728582

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 05/02/2023	Time Sundry Submitted: 06:08
Date proposed operation will begin: 05/16/2023	

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

Apache_Federal_10_P_A_NOI_20230502060659.pdf

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Conditions of Approval

Additional

24N05W18JJm_Apache_Federal_010_20230503111934.pdf

Authorized

General_Requirement_PxA_20230503131727.pdf

2728582_NOIA_10_3003905477_KR_05032023_20230503131711.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 02, 2023 06:07 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: 05/03/2023

Signature: Kenneth Rennick



HILCORP ENERGY COMPANY
Apache Fed #10
NOTICE OF INTENT TO PERMANENTLY ABANDON

API #:	3003905477
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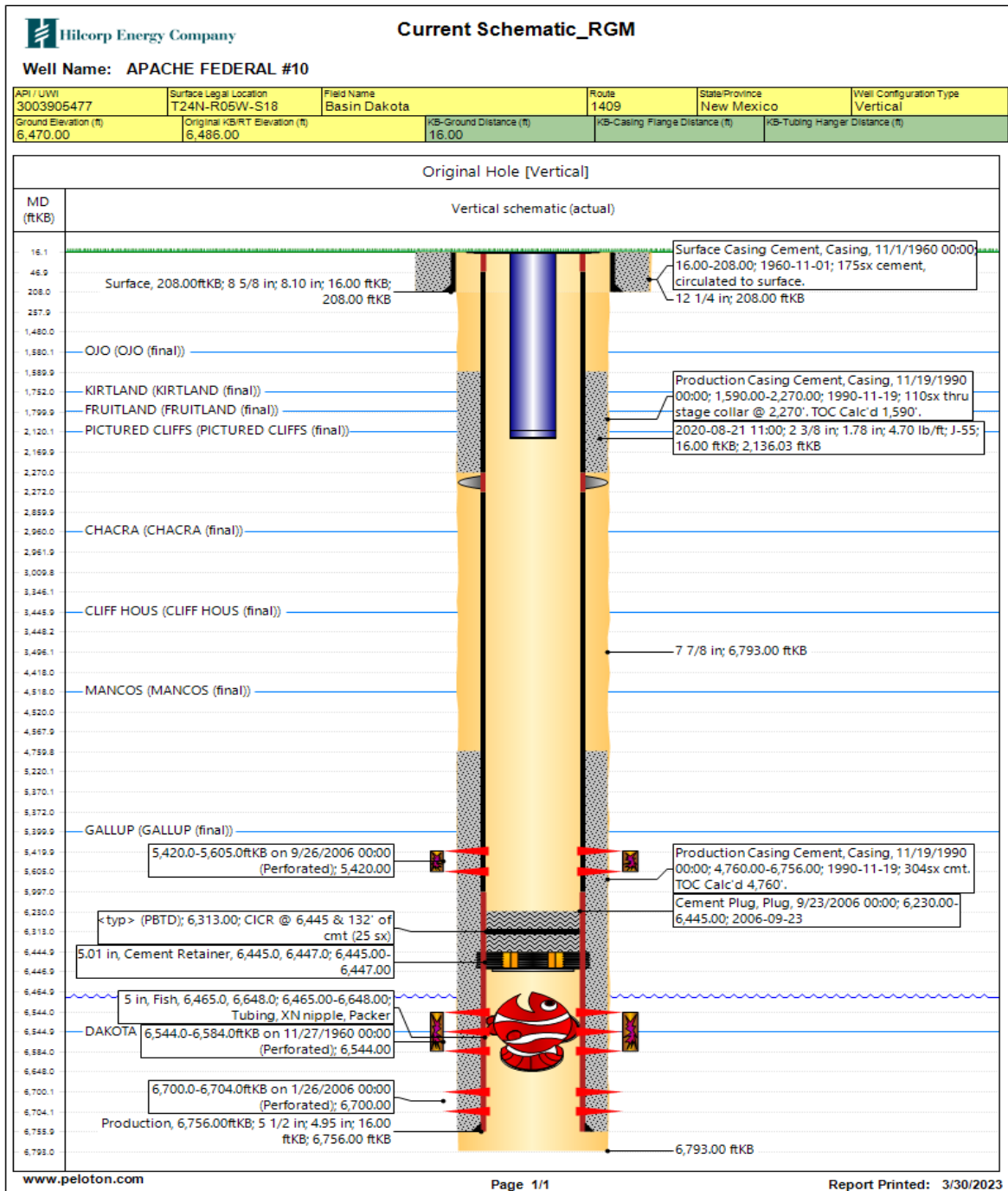
JOB PROCEDURES

- | | | |
|-------------------------------------|-----------|---|
| <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 safety and environmental regulations. |
| <input checked="" type="checkbox"/> | Jicarilla | |
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 tbgs set at 2,136'.
 4. MU 5-1/2" 15.5# GR (1jt 15.5# csg at surface), clear csg to 5,380', POOH. MU 5-1/2" 14# CICR and set @ 5,370' (GL Top Perf @ 5,400').
 5. Load well with inhibited brine & circulate clean. Pressure test csg to 560 psi, monitor for 30 minutes. POOH w/ WS. **Run CBL from 5,370' to surface.**
All of the following plug designs are subject to change pending CBL results. If PT fails, will tag TOCs until PT successful.
 6. RIH w/ WS to 5,370', tag CICR in place.
 7. **Plug #1 | 5,220' - 5,370' (CICR @ 5,370' | GL Top Perf: 5,420')** Pump 15sx (3.7bbl) Class III "Select" cement and spot a 150' inside plug over the CICR. POOH w/ WS.
 8. RU ELU, perf circ holes in 5-1/2" 14# csg @ 4,568'. RIH w/ CICR on pipe, set @ 4,518'.
Plug #2 | 4,418' - 4,568' (Mancos Top @ 4,518') Using CICR, pump total of 58sx (12.4bbl) Class III "Select" cement to place balanced plug over the Mancos Top. POOH w/ WS. *[48sx below CICR, 10sx above CICR]*
 9. RU ELU, perf circ holes in 5-1/2" 14# csg @ 3,496'. RIH w/ CICR on pipe, set @ 3,446'.
Plug #3 | 3,346' - 3,496' (Cliff House Top @ 3,446') Using CICR, pump total of 58sx (12.4bbl) Class III "Select" cement to place balanced plug over the Cliff House Top. POOH w/ WS. *[48sx below CICR, 10sx above CICR]*
 10. RU ELU, perf circ holes in 5-1/2" 14# csg @ 3,010'. RIH w/ CICR on pipe, set @ 2,960'.
Plug #4 | 2,860' - 3,010' (Chacra Top @ 2,960') Using CICR, pump total of 58sx (12.4bbl) Class III "Select" cement to place balanced plug over the Chacra Top. POOH w/ WS. *[48sx below CICR, 10sx above CICR]*
 11. **Plug #5 | 1,480' - 2,170' (PC Top 2,120', FRD Top 1,800', KRD Top 1,752', OJO Top 1,580')** Pump 64sx (15.6 bbl) Class III "Select" cement and spot a 640' inside plug over the Pictured Cliffs Top. POOH w/ WS.
 12. RU ELU, perf circ holes in 5-1/2" 14# csg @ 258'. Establish circulation up 8-5/8" annulus.
Plug #6 | 16' - 258' (Surface Shoe @ 208') Pump 59sx (14.4 bbl) Class III "Select" cement and circulate in a 242' balanced plug to cover the surface shoe from 258' to surface.
 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
Apache Fed #10
NOTICE OF INTENT TO PERMANENTLY ABANDON

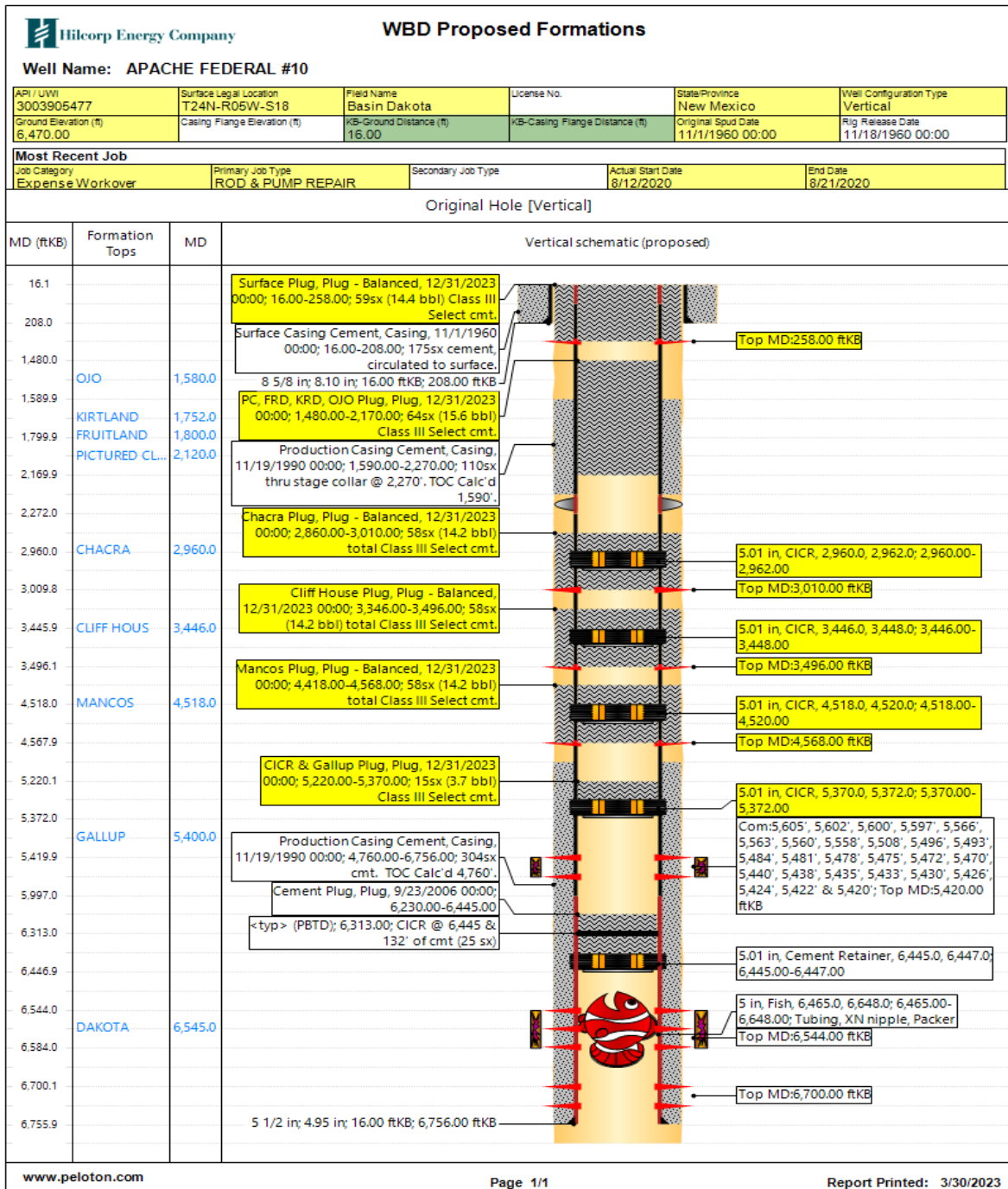
Apache Fed #10 - CURRENT WELLBORE SCHEMATIC





HILCORP ENERGY COMPANY
Apache Fed #10
NOTICE OF INTENT TO PERMANENTLY ABANDON

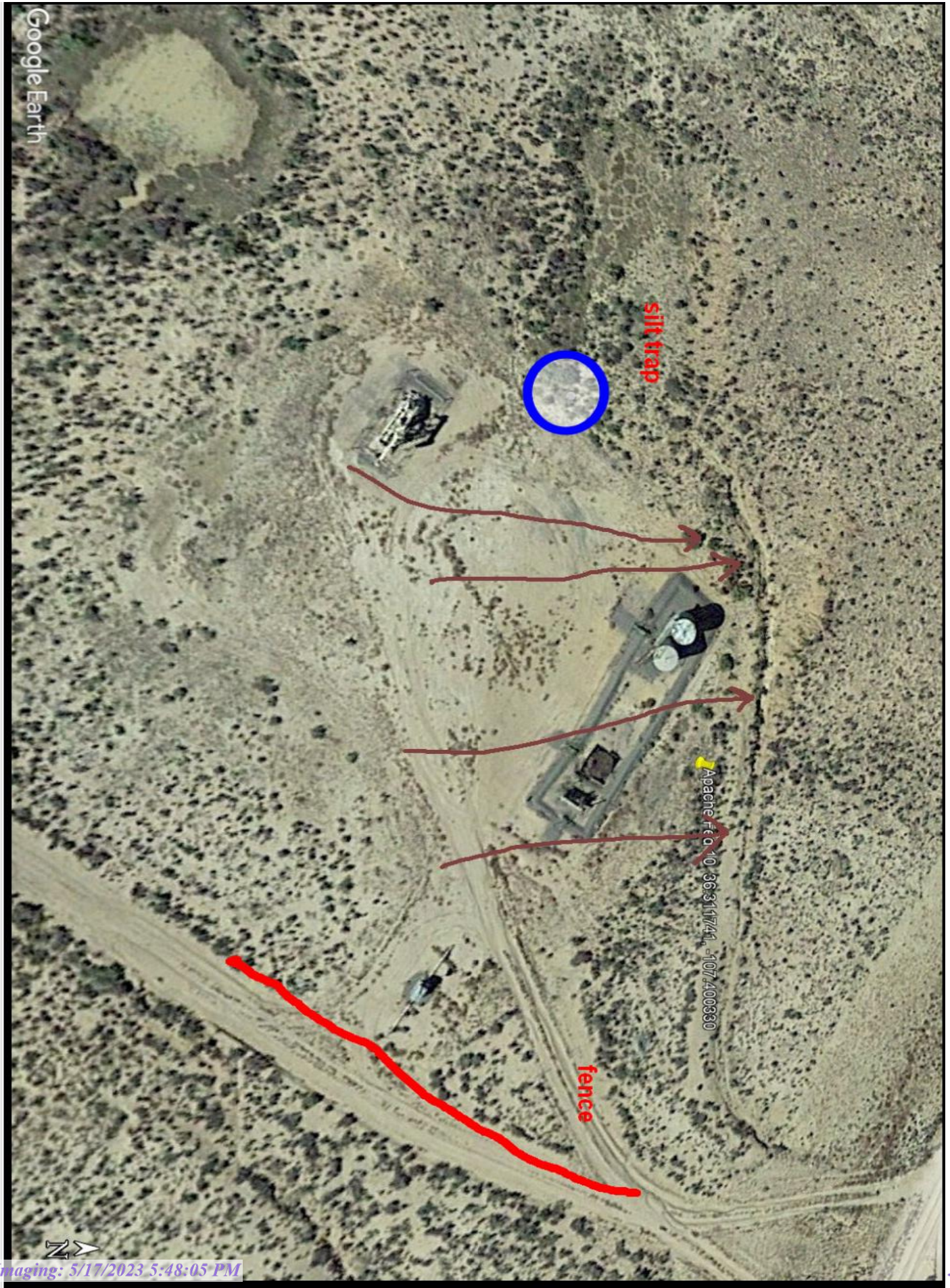
Apache Fed #10 - PROPOSED P&A SCHEMATIC

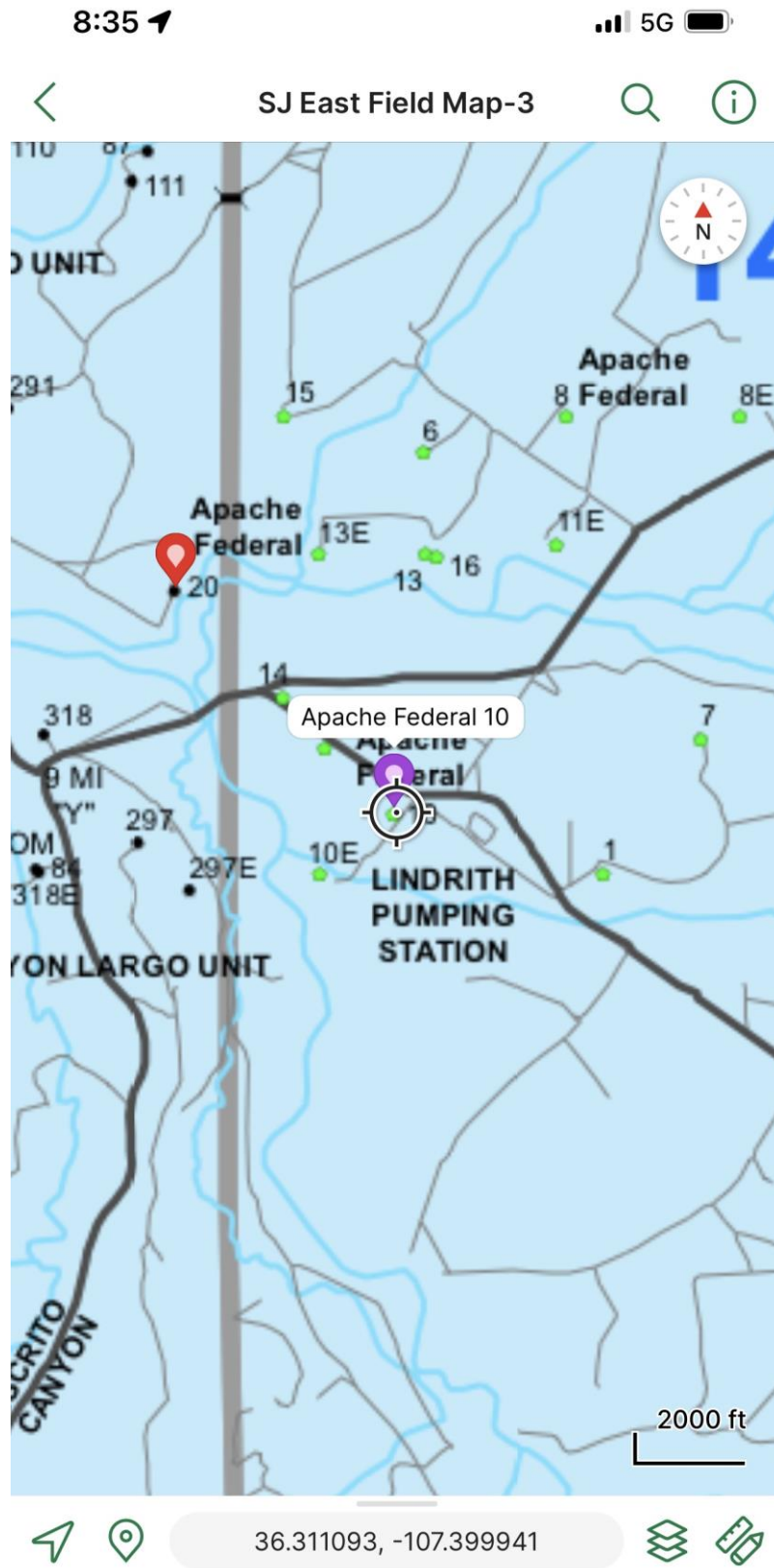


Hilcorp Energy
Apache Federal 10
36.311293, -107.400101
API-30-039-05477
Jicarilla Lease #69
Final Reclamation Plan

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 tanks and pit.
4. Enterprise to remove meter run and piping back to dog leg.
5. Remove gravel. Haul and spread on main road.
6. Strip topsoil. Re-contour pad to re-create natural terrain. Push material towards the Northwest side of location up to cut slope.
7. Build silt trap on west side of location.
8. Set surface wellhead marker plate.
9. Reclaim road back to the main road.
10. Fence location using woven wire and t-posts
11. Rip compacted soil.
12. 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. South 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: 5/3/2023

Well No. Apache Federal #010 (API# 30-039-05477)	Location	2111	FSL	&	2236	FEL
Lease No. JIC69	Sec. 18	T24N			R05W	
Operator Hilcorp Energy Company	County	Rio Arriba		State	New Mexico	
Total Depth 6793'	PBTD 6230'	Formation Morrison (TD), Gallup (producing)				
Elevation (GL)		Elevation (KB) 6486'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose			Surface		Surface/possible freshwater sands
Nacimiento				1580	Possible freshwater sands
Ojo Alamo Ss			1580	1752	Aquifer (possible freshwater)
Kirtland Shale			1752	1903	Possible gas
Fruitland			1903	2120	Coal/Gas/Water
Pictured Cliffs Ss			2120	2234	Probable Gas
Lewis Shale			2234	2960	
Chacra			2960	3644	Possible Gas
Cliff House Ss			3644	3715	Water/possible gas
Menefee			3715	4309	Coal/Ss/Water/possible gas
Point Lookout Ss			4309	4518	
Mancos Shale			4518	5396	O&G
Gallup			5396	PBTD	O&G
Greenhorn			6330		
Graneros Shale			6405		O&G
Dakota Ss			6439		O&G/water
Morrison			6754		

Remarks:

P & A

- Sundry ID: 2728582
- BLM picks for the Fruitland, Cliff House, Menefee and Dakota vary from operator.
- Adjust Plug #3 (Cliff House), or add a plug, to cover BLM formation top pick at 3644'.
- Gallup perfs 5420' – 5605'.

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 2728582

Attachment to notice of Intention to Abandon

Well: Apache Federal 10

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 #3 (Cliff House), or add a plug, to cover BLM formation top pick at 3644'.
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 5/3/2023

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

COMMENTS

Action 213563

COMMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 213563
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
john.harrison	Accepted for record - NMOCD JRH 5/17/23 BLM approved P&A 5/2/23	5/17/2023

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
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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 213563

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 213563
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	None	5/17/2023