

Well Name: WF NAVAJO 23	Well Location: T29N / R14W / SEC 23 / SENE /	County or Parish/State: SAN JUAN / NM
Well Number: 1	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: SHIPROCK
Lease Number: 14206032198	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004530317	Well Status: Gas Well Shut In	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2688260

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 08/19/2022	Time Sundry Submitted: 12:29
Date proposed operation will begin: 09/02/2022	

**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 2/23/22 with Bertha Spencer/BIA and Steve Price/Navajo Nation and Emmanuel Adeloye/BLM on 4/27/22. 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

- PA\_reclamation\_\_WF\_Navajo\_23\_\_1\_04\_27\_2022\_\_Optimized\_20220819122718.pdf
- P\_A\_NOI\_WF\_Navajo\_23\_1\_Optimized\_20220819122716.pdf

<b>Well Name:</b> WF NAVAJO 23	<b>Well Location:</b> T29N / R14W / SEC 23 / SENE /	<b>County or Parish/State:</b> SAN JUAN / NM
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<b>Lease Number:</b> 14206032198	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3004530317	<b>Well Status:</b> Gas Well Shut In	<b>Operator:</b> HILCORP ENERGY COMPANY

Conditions of Approval

Specialist Review

29N14W23\_WF\_NAVAJO\_23\_1\_GEO\_KGR\_20220822090025.pdf  
2688260\_NOIA\_23\_1\_3004530317\_KR\_08222022\_20220822090007.pdf  
General\_Requirement\_PxA\_20220822085954.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:** AUG 19, 2022 12:29 PM  
**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:** 08/22/2022  
**Signature:** Kenneth Rennick



**HILCORP ENERGY COMPANY**  
**WF NAVAJO 23 1**  
**NOTICE OF INTENT TO PERMANENTLY ABANDON**

<b>API #:</b>	3004530317
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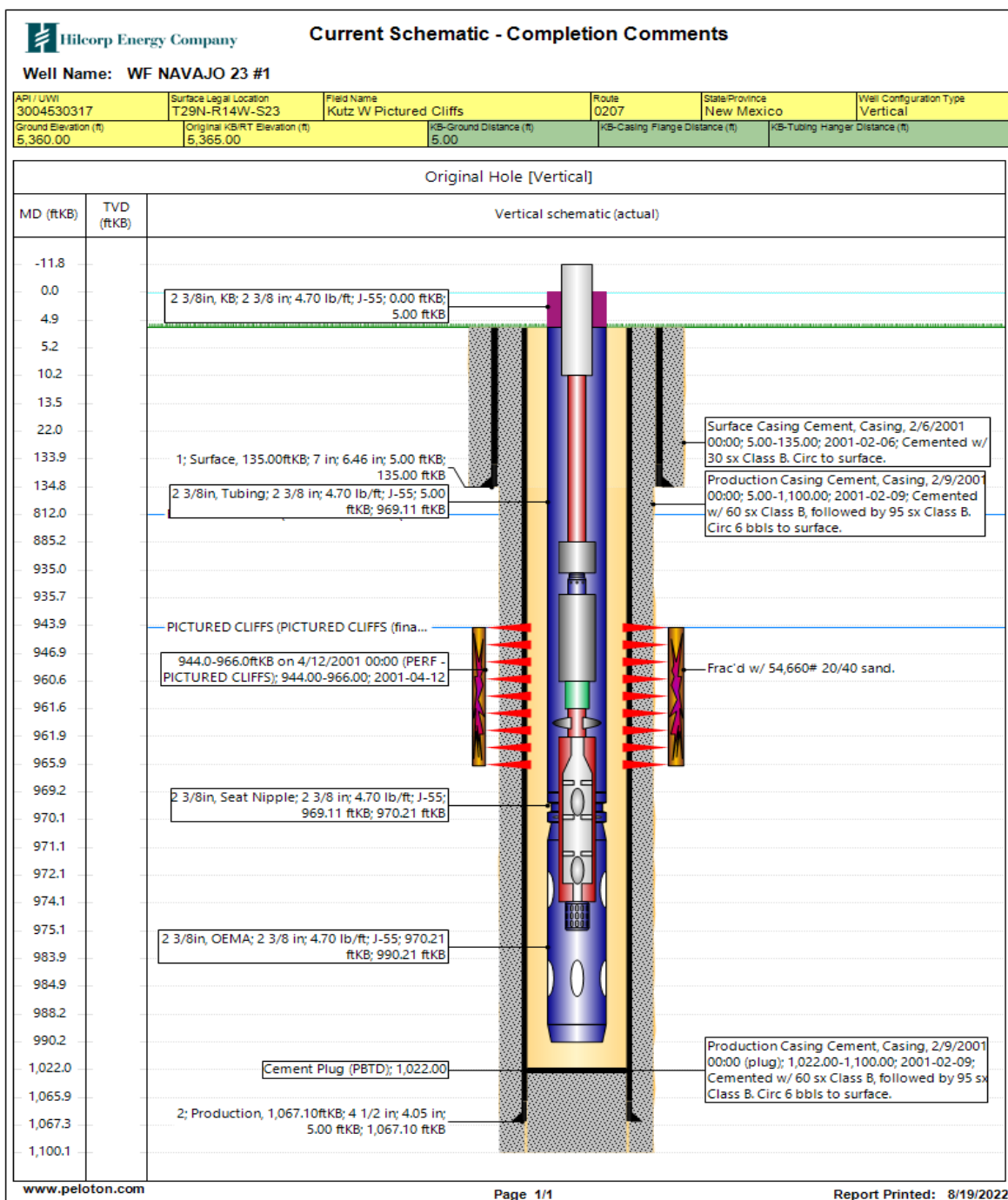
**JOB PROCEDURES**

- |                                     |       |  |
|-------------------------------------|-------|--|
| <input checked="" type="checkbox"/> | NMOCD | <b>Contact OCD and BLM (where applicable) 24 hrs prior to MIRU. Comply with all NMOCD, BLM (where applicable), and HEC safety and environmental regulations.</b> |
| <input checked="" type="checkbox"/> | BLM   |  |
1. MIRU service rig and associated equipment, LOTO pumping unit and remove HH and bridle.
  2. TOOH w/ pump on rods, lay down rods.
  3. Load well, ND tree, NU BOPs and test.
  4. TOOH w/ 2-3/8" 4.7# EUE J55 tbg and tubing set at 990'.
  5. PU 4-1/2" csg mill or scraper and TIH to 910'. TOOH and LD mill/scraper.
  6. MU 4-1/2" mechanical plug (CIBP or CICR) and RIH. Set at **+/- 894'** to isolate the Fruitland Coal & Pictured Cliffs perforations.
  7. Pressure test the csg and mechanical plug to 600 psi. Monitor pressures for 30 minutes.
  8. **Plug #1, 712'- 894' (Pictured Cliffs Perforations: 944' - 966')** Mix and pump 15 SX of Class G cement and spot balanced plug to cover Plug @ 894' & Fruitland Coal top @ 812'. PU and reverse circulate tubing clean.
  9. **Plug #2, Surface - 185' (Surface shoe: 135')** Mix and pump 15 SX of Class G cement and spot a balanced plug to cover the casing shoe. Pump until good cement returns 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**  
**WF NAVAJO 23 1**  
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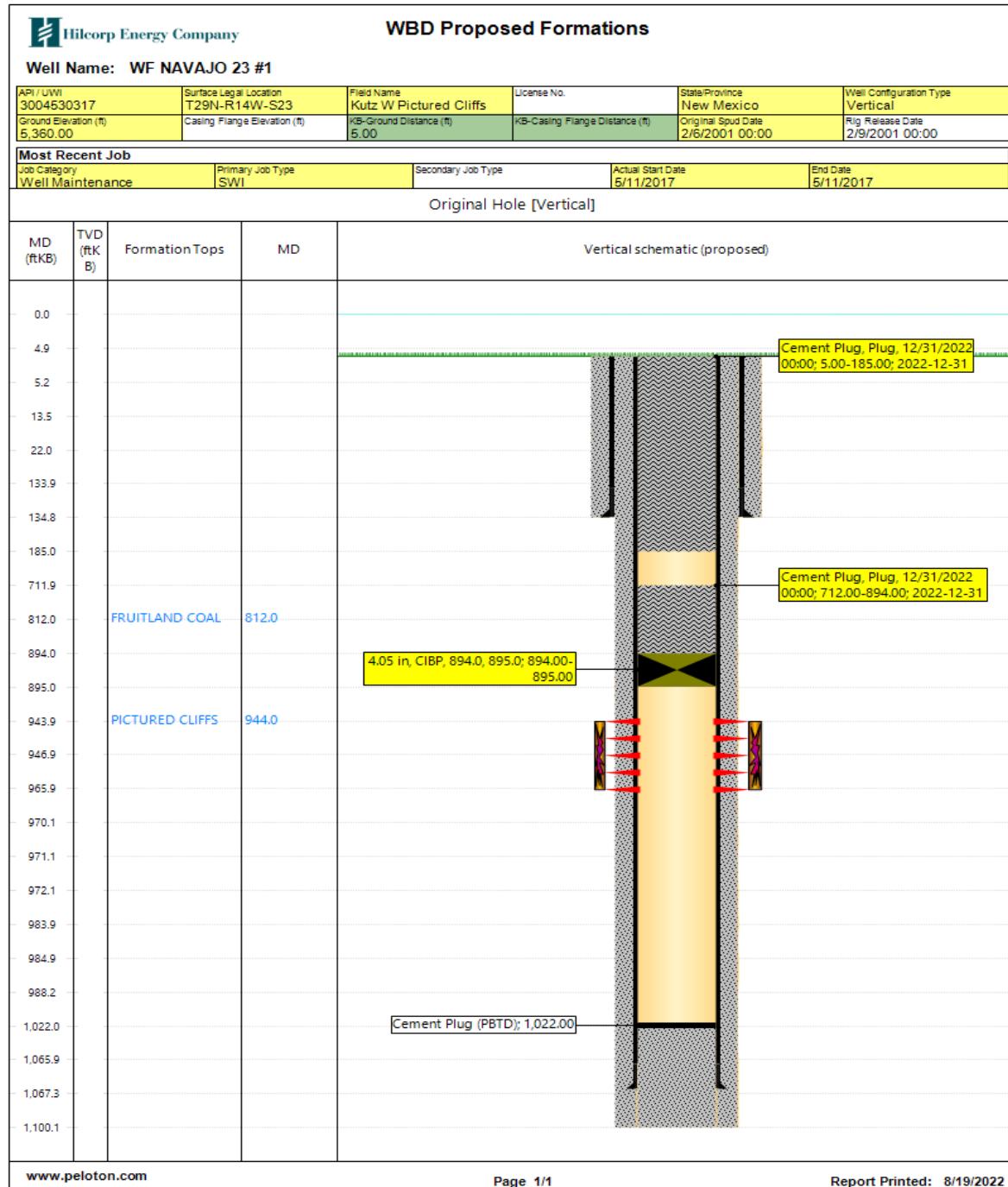
**WF NAVAJO 23 1 - CURRENT WELLBORE SCHEMATIC**





**HILCORP ENERGY COMPANY**  
**WF NAVAJO 23 1**  
**NOTICE OF INTENT TO PERMANENTLY ABANDON**

**WF NAVAJO 23 1 - PROPOSED P&A SCHEMATIC**



Hilcorp Energy  
P&A Final Reclamation Plan  
**WF Navajo 23 #1**  
API: 30-045-30317  
H- Sec.23-T029N-R014W  
Lat: 36.715166, Long: -108.272795  
Footage: 1570' FNL & 845' FEL  
San Juan County, NM

**1. PRE-RECLAMATION SITE INSPECTION**

- 1.1) A pre-reclamation site inspection was completed by Bertha Spencer with BIA, Steve Prince with the Navajo Nation, and Chad Perkins construction Foreman for Hilcorp Energy on Wednesday February 23, 2022.
- 1.2) A pre-reclamation site inspection was completed by Emmanuel Adeleye with the BLM and Chad Perkins construction Foreman for Hilcorp Energy on Wednesday April 27, 2022.

**2. LOCATION RECLAMATION PROCEDURE**

- 2.1) Final reclamation work will be completed after the well is Plugged.
- 2.2) All production equipment, rig anchors, and flowlines will be stripped and removed.
- 2.3) Strip approximately 90' of water and gas pipeline piping between the wellsite and the mainline. The water and gas pipelines will be blinded or capped off at the pipeline mainline.
- 2.4) All nonnative aggregate will be scraped up and buried in the toe of the cut prior to re-contouring.
- 2.5) Push fill slope up and re-contour with shallow swales and or silt traps for major drainage to create a rolling terrain that matches natural topography drainage features to limit erosion.
- 2.6) A tear drop will be established around active pipeline riser on east side of well pad for pipeline operations.
- 2.7) Rip compacted soil and walk down disturbed portion of well pad.
- 2.8) All trash and debris will be removed within 50' buffer outside of the location disturbance during reclamation.

**3. ACCESS ROAD RECLAMATION PROCEDURE:**

- 3.1) The lease access road is approximately ~.5 miles long will not be reclaimed at this time as it is access to an active pipeline ROW and pipeline riser.
- 3.2) All trash and debris will be removed within 50' buffer outside of the road disturbance during reclamation.

**4. SEEDING PROCEDURE**

- 4.1) A Pinon/Juniper seed mix will be used for all reclaimed and disturbed areas of the location and lease road.
- 4.2) Drill seeding 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.
- 4.3) Timing of the seeding will take place when the ground is not frozen or saturated.

**5. WEED MANAGEMENT**

- 5.1) No action is required at this time for weed management, no noxious weeds were identified during the onsite.








# WF Navajo 23 #1

## Legend

 36.724125, -108.272141

A tear drop will be established around active pipeline riser on east side of well pad for pipeline operations.

All nonnative aggregate will be scraped up and buried in the toe of the cut prior to re-contouring.

Push fill slope up and re-contour with shallow swales and or silt traps for major drainage to create a rolling terrain that matches natural topography drainage features to limit erosion.





Date: 6/14/2022  
Scale: 1:1,128  
0 0.01 0.02 0.02 0.03 mi  
N

Wells  
Hilcorp Wells Surface Location

Gas Well

Pipelines

Hilcorp Operated Pipeline

Hilcorp Boundaries

Asset Teams

Supervisor Areas, outline

Roads and Highways

SJB Roads

Road

Strip approximately 90' of water and gas pipeline piping between the wellsite and the mainline. The water and gas pipelines will be blinded or capped off at the pipeline mainline.

WF NAVAJO 23 1

WF NAVAJO 23 1




Maxar, Microsoft



# WF Navajo 23 #1

## Legend

 36.724125, -108.272141

Lease access road is approximately ~.5 miles long will not be reclaimed at this time as it is access to an active pipeline ROW and pipeline riser.

Active pipeline riser.

 36.715166, -108.272795

Google Earth

Released to Imaging: 8/24/2022 2:40:16 PM

1000 ft





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

AFMSS 2 Sundry ID 2688260

Attachment to notice of Intention to Abandon

Well: WF Navajo 23 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. 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 8/22/2022



**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<sub>2</sub>S.

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)

# BLM FLUID MINERALS P&A Geologic Report

**Date Completed:** 08/22/2022

Well No. WF Navajo 23 1 (API# 30-045-30317)	Location:	SENE			
Lease No. 14206032198	Sec. 23	T29N			R14W
Operator Hilcorp Energy Company	County	San Juan	State		New Mexico
Total Depth 1100'	PBTD 1022'	Formation	Pictured Cliffs		
Elevation (GR) 5360'		Elevation (KB) 5365'			

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/freshwater sands
Nacimiento Fm					Possible freshwater sands
Ojo Alamo Ss					Aquifer (possible freshwater)
Kirtland Shale					
Fruitland Fm			812		Coal/Gas/Possible water
Pictured Cliffs Ss			944		Gas
Lewis Shale					
Chacra					Gas
Cliff House					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos					Water/Possible gas
Gallup					O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:

P & A

Reference Well:

- Pictured Cliffs perforations 944 – 966'.

**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 136214

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 136214
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

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