

Well Name: NV NAVAJO 20	Well Location: T29N / R14W / SEC 20 / NESE / 36.7108734 / -108.3259586	County or Parish/State: SAN JUAN / NM
Well Number: 4	Type of Well: OTHER	Allottee or Tribe Name: SHIPROCK
Lease Number: 14206032200A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004531056	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2735396

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 06/12/2023	Time Sundry Submitted: 11:40
Date proposed operation will begin: 08/01/2023	

**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 6/6/2023 with Roger Herrera/BLM, Bertha Spencer/BIA, Belinda Chee/Navajo Nation, Johnnie Begay/Navajo Nation, and Valjean Uentillie/Navajo Nation. 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

NV\_Navajo\_20\_4\_P\_A\_NOI\_20230612114007.pdf

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County or Parish/State: SAN JUAN / NM

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Unit or CA Name:

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Well Status: Producing Gas Well

Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

PxA\_29N14W20IKkf\_NV\_Navajo\_20\_004\_20230621111632.pdf

Authorized

2735396\_NOIA\_4\_3004531056\_KR\_06212023\_20230621152014.pdf

General\_Requirement\_PxA\_20230621152003.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: AMANDA WALKER

Signed on: JUN 12, 2023 11:40 AM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST.

City: HOUSTON State: TX

Phone: (346) 237-2177

Email address: mwalker@hilcorp.com

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Approved

Disposition Date: 06/21/2023

Signature: Kenneth Rennick



**HILCORP ENERGY COMPANY**  
**NV NAVAJO 20 4**  
**NOTICE OF INTENT TO PERMANENTLY ABANDON**

API #:

3004531056

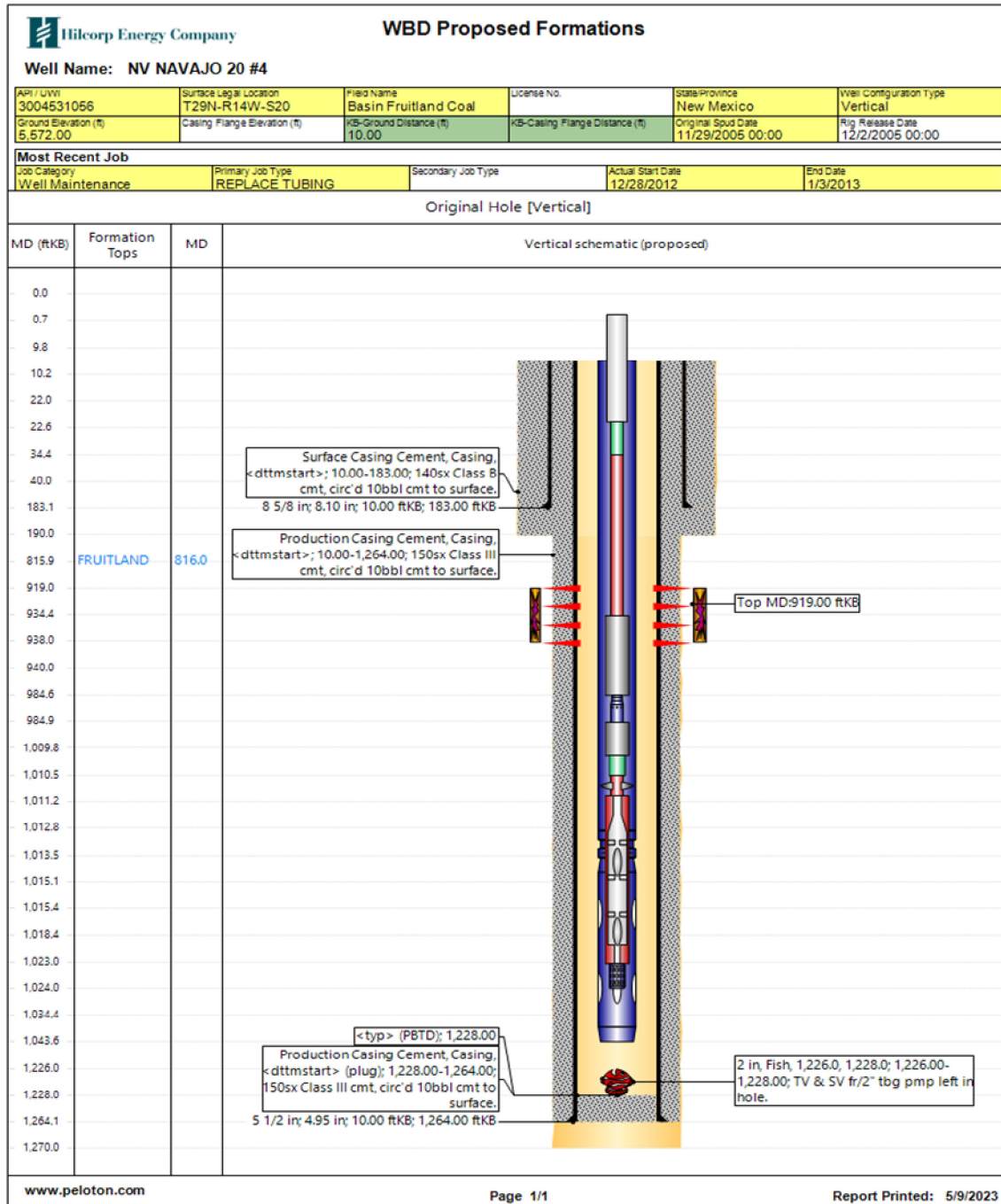
**JOB PROCEDURES**

- |                                     |            |  |
|-------------------------------------|------------|--|
| <input checked="" type="checkbox"/> | NMOCD      | <b>Contact OCD and BLM/Navajo 24 hrs prior to MIRU. Comply with all NMOCD, BLM &amp; Navajo, and HEC safety and environmental regulations.</b> |
| <input checked="" type="checkbox"/> | BLM/Navajo |  |
1. MIRU service rig and associated equipment, remove drive head, prep to pull rods. Record all casing pressures on well.
  2. Unseat insert pump, POOH w/ pump on rods, lay down.
  3. Load well, ND tree, NU BOPs and test.
  4. POOH w/ 2-3/8" production tbg, lay down.
  5. MU 5-1/2" 15.5# bit/scraper, clear csg to 880', POOH. RIH w/ 5-1/2" 15.5# CICR on pipe and set @ 869' (FRD Top Perf 919').
  6. Pressure test 5-1/2" & CICR to 560psi for 30min.
  7. **Plug #1 | 716' - 869' (FRD Top Perf 919' | FRD Top 816')** Mix and pump 15sx (3.7 bbl) Class III Select cmt above CICR @ 869'.
  8. **Plug #2 | Surface - 233' (Surface shoe: 183')** Circulate in 22sx (5.4 bbl) Class III Select cmt from 233' to surface to cover shoe.
  9. 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.
- Note** Class III "Select" cement: Neat, 1.37yld, 14.6ppg, 6.64gpsx mix wtr.



**HILCORP ENERGY COMPANY**  
**NV NAVAJO 20 4**  
**NOTICE OF INTENT TO PERMANENTLY ABANDON**

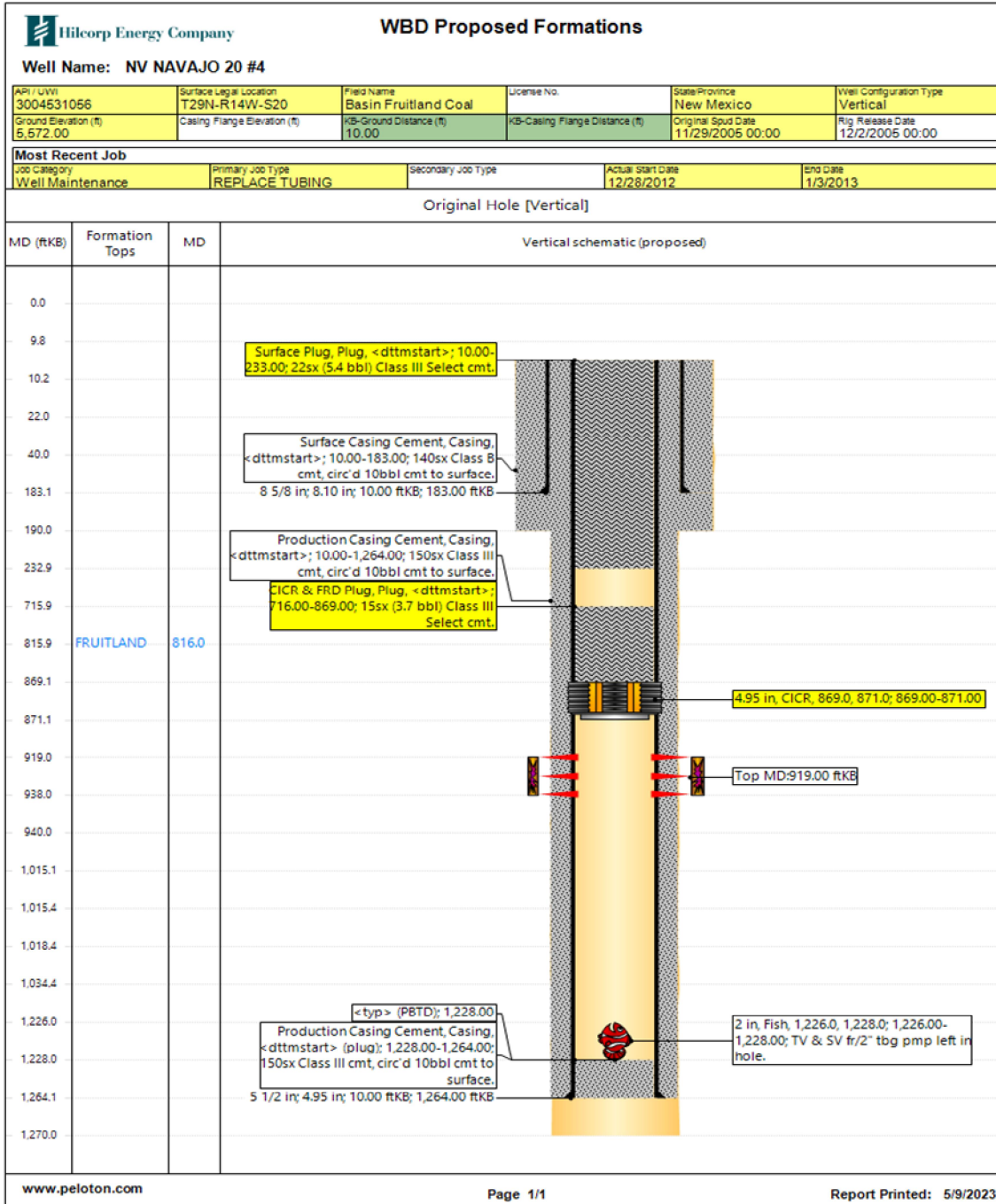
**NV NAVAJO 20 4 - CURRENT WELLBORE SCHEMATIC**





**HILCORP ENERGY COMPANY**  
**NV NAVAJO 20 4**  
**NOTICE OF INTENT TO PERMANENTLY ABANDON**

**NV NAVAJO 20 4 - PROPOSED P&A SCHEMATIC**



Hilcorp Energy  
P&A Final Reclamation Plan  
**NV Navajo 20 #4**  
API: 30-045-31056  
Sec.20-T029N-R014W-Unit I  
Lat: 36.710309, Long: -108.325616  
Footage: 1975' FSL & 670' FEL  
San Juan County, NM

**1. PRE-RECLAMATION SITE INSPECTION**

1.1) A pre-reclamation site inspection was completed by Hilcorp Energy and representatives from multiple government agencies on Tuesday June 6, 2023:

- Roger Herrera with the BLM
- Bertha Spencer with the BIA
- Belinda Chee with the Navajo Nation
- Johnnie Begay with the Navajo Nation
- Valjean Uentillie with the Navajo Nation
- Chad Perkins with Hilcorp Energy

**2. LOCATION RECLAMATION PROCEDURE**

- 2.1) Final reclamation work will be completed after the well is Plugged.
- 2.2) Remove all production equipment, anchors, and flowlines.
- 2.3) The produced water and gas pipelines will be abandoned in place. The pipelines run approximately ~1.25 miles from the well pad to the mainline. The pipelines will be capped ~4' below grade and 50' off the well pad disturbance. The pipelines will also be capped at mainline ~4 below grade. The mainline pipeline will be blind flanged or capped off from the abandoned pipelines.
- 2.4) All nonnative aggregate will be scraped up and buried in toe of the cut prior to re-contouring.
- 2.5) Push fill into cut slope 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) Rip compacted soil and walk down disturbed portion of well pad.
- 2.7) 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 main lease access road is approximately ~1 mile long.
- 3.2) All culverts along lease access road will be removed prior to re-contouring.
- 3.3) Rip and re-contour ~1 mile of lease access road with shallow swells, berms, and or silt traps as needed to match natural topography drainage features.
- 3.4) All trash and debris will be removed within 50' buffer outside of the road disturbance during reclamation.

**4. SEEDING PROCEDURE**

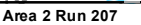
- 4.1) A Pinon/Juniper seed mix will be used for all reclaimed and disturbed areas of the location and lease road.

- 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.







## Hilcorp ArcGIS Web Map

The produced water and gas pipelines will be abandoned in place. The pipelines run approximately ~1.25 miles from the well pad to the mainline. The pipelines will be capped ~4' below grade and 50' off the well pad disturbance. The pipelines will also be capped at mainline ~4' below grade. The mainline pipeline will be blind flanged or capped off from the abandoned pipelines.

Date: 6/8/2023

Scale: 1:18,056 mi  
0.0 0.1 0.2 0.3 0.4

## Wells

## Hilcorp Wells Surface Location

- Gas Well
- Oil Well
- SWD

## Pipelines

- Hilcorp Operated Pipeline

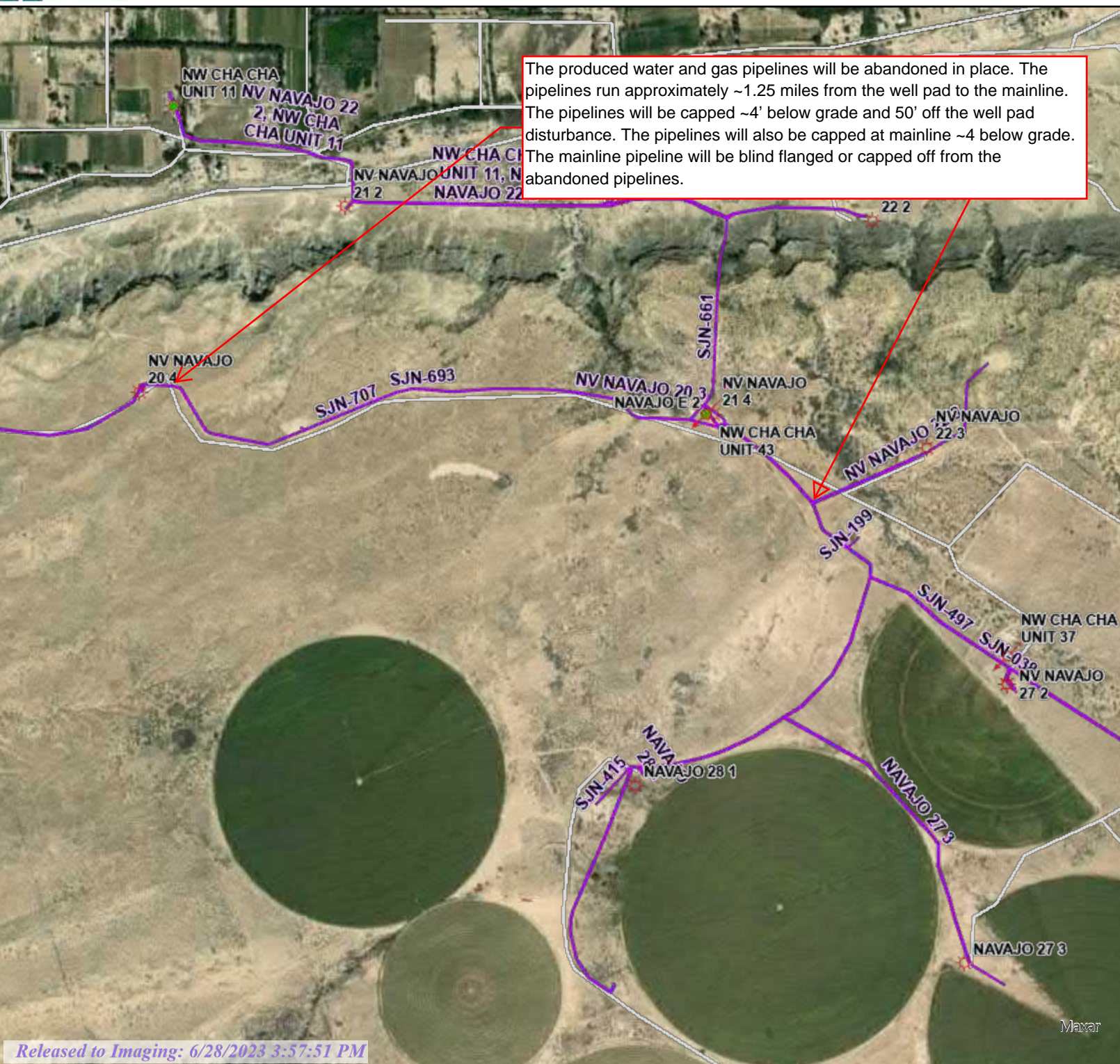
## Hilcorp Boundaries

- Asset Teams
- Supervisor Areas, outline

## Roads and Highways

## SJB Roads

- Road



Maxar




# Navajo 20 #4


Reclamation Map

Push fill into cut slope 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.

## Legend

 36.693987, -108.283391

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

 36.7103

Google Earth

Released to Imaging: 6/28/2023 3:57:51 PM




100 ft



# Navajo 20 #4

Access Road Map

## Legend

 36.693987, -108.283391

Rip and re-contour ~1 mile of lease access road with shallow swells, berms, and or silt traps as needed to match natural topography drainage features.

 36.710309, -108.325616

Google Earth

Released to Imaging: 6/28/2023 3:57:51 PM



1000 ft



**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), 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 2735396

Attachment to notice of Intention to Abandon

Well: NV Navajo 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. The following modifications to your plugging program are to be made:
  - a. Bring the top of Plug #1 (Kirtland) up to 518', or add a plug, to cover BLM Fruitland pick @ 618'.
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 06/21/2023



## BLM FFO Fluid Minerals P&A Geologic Report

AFMSS ID: 2735396

Date Completed: 6/21/2023

Well No.	NV Navajo 20 #004	SHL	1975	FSL	670	FEL
API No.	3004531056			Sec. 20	T29N	R14W
Lease No.	14206032200A	BHL	Same			
Operator	Hilcorp Energy Company					
Elev. (KB)	5582	County	San Juan		State	NM
Total Depth	1270	PBTD	1228	Formation	Fruitland Coal	

Formation Top	TVD (ft KB)	Remarks
San Jose Fm.		
Nacimiento Fm.		
Ojo Alamo Ss		
Kirtland Fm.	Surface	Probable gas/water
Fruitland Fm.	618	Coal/gas/water
Pictured Cliffs Ss	941	Probable gas/water
Lewis Shale		
Chacra (upper)		
Cliff House Ss		
Menefee Fm.		
Point Lookout Fm.		
Mancos Shale		
Gallup		
Greenhorn Ls		
Graneros Shale		
Dakota Ss		
Morrison Fm.		

Remarks:

Reference Well:

- Fruitland Coal perms 919' - 938'.  - Fish @ 1226'.  - Bring the top of Plug #1 (Kirtland) up to 518', or add a plug, to cover BLM Fruitland pick @ 618'.	<b>1) Formation Tops</b> Same
--	----------------------------------

Prepared by: Chris Wenman

**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 232134

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 232134
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Accepted for record - NMOCD JRH 6/28/23. BLM approved P&A 6/21/23	6/28/2023