

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

Well Name: NV NAVAJO 21	Well Location: T29N / R14W / SEC 21 / NESE /	County or Parish/State: SAN JUAN / NM
Well Number: 4	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: SHIPROCK
Lease Number: 14206032199	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004531041	Well Status: Gas Well Shut In	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2683519

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 07/22/2022

Time Sundry Submitted: 11:22

Date proposed operation will begin: 08/05/2022

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 4/13/22 with Emmanuel Adeloje/BLM, Bertha Spencer/BIA and Larson Nez/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

P_A_NOI_NV_Navajo_21_4_20220722112044.pdf

PA_reclamation__NV_Navajo_21_4_04_13_2022__Optimized_20220722112044.pdf

Well Name: NV NAVAJO 21

Well Location: T29N / R14W / SEC 21 / NESE /

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Well Number: 4

Type of Well: CONVENTIONAL GAS WELL

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Lease Number: 14206032199

Unit or CA Name:

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US Well Number: 3004531041

Well Status: Gas Well Shut In

Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

General_Requirement_PxA_20220808180803.pdf

29N14W21_NV_NAVAJO_21_4_GEO_KGR_20220808180750.pdf

Authorized

2683519_NOIA_21_4_3004531041_KR_08082022_20220808181532.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: JUL 22, 2022 11:22 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: 08/08/2022

Signature: Kenneth Rennick



HILCORP ENERGY COMPANY
NV NAVAJO 21 #004
NOTICE OF INTENT TO PERMANENTLY ABANDON

API #:	3004531041
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JOB PROCEDURES

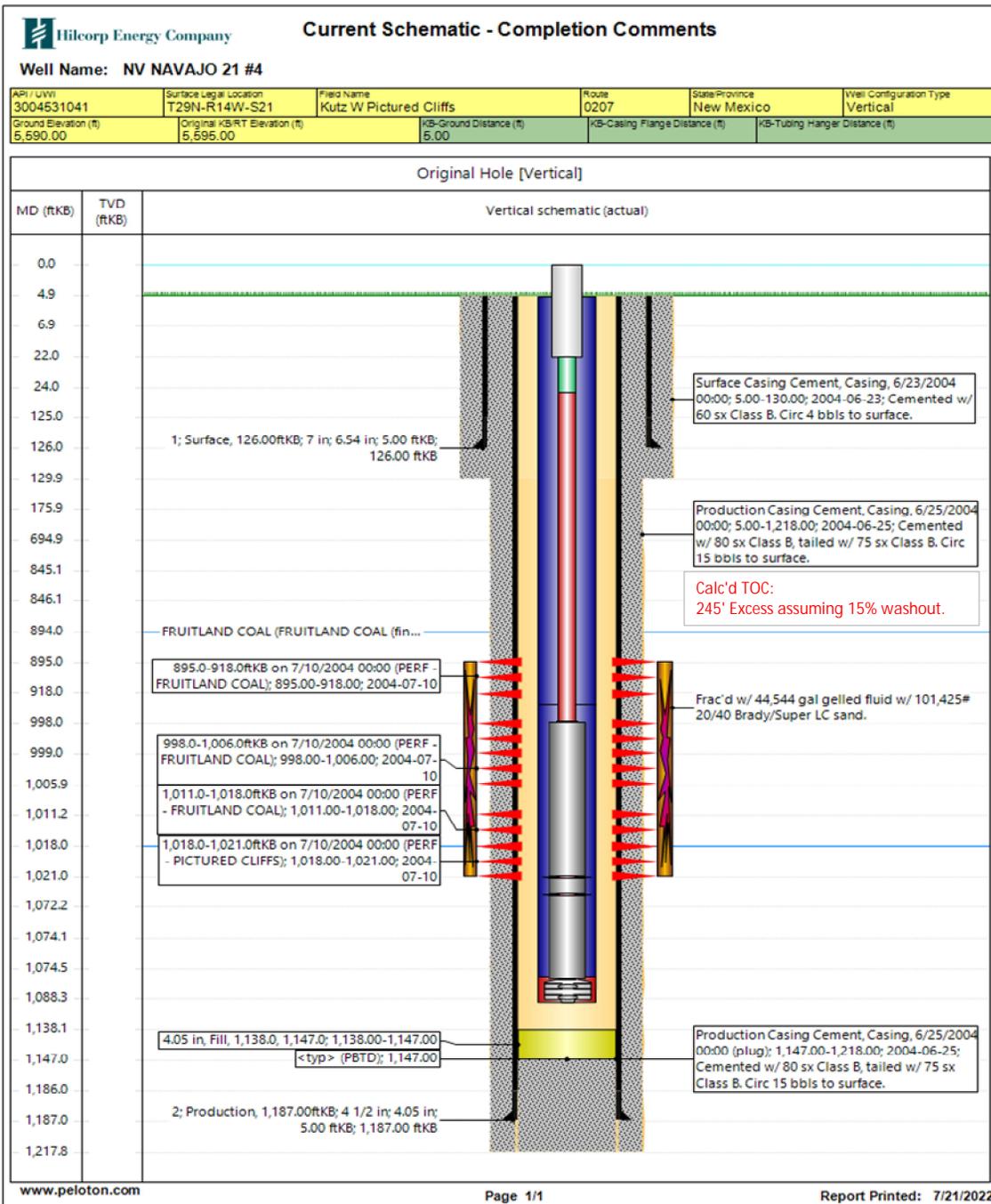
- NMOCD **Contact OCD and BLM (where applicable) 24 hrs prior to MIRU. Comply with all NMOCD, BLM (where applicable), and HEC**
- BLM **safety and environmental regulations.**

1. MIRU service rig and associated equipment, LOTO pumping unit and remove HH and bridle.
2. Release On/Off tool and TOOH w/ 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 pump set at 1094'.
5. PU 4-1/2" csg mill or scraper and TIH to 860'. TOOH and LD mill/scraper.
6. MU 4-1/2" mechanical plug (CIBP or CICR) and RIH. Set at +/- 845' 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, 695'- 845' (Fruitland Coal Perforations: 895' - 1018' & Pictured Cliffs Perforations: 1018' - 1021')** Mix and pump 18 SX of Class G cement and spot balanced plug to cover Mechanical Plug @ 845'. PU and reverse circulate tubing clean.
9. **Plug #2, Surface - 176' (Surface shoe: 126')** Mix and pump 20 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
NV NAVAJO 21 #004
NOTICE OF INTENT TO PERMANENTLY ABANDON

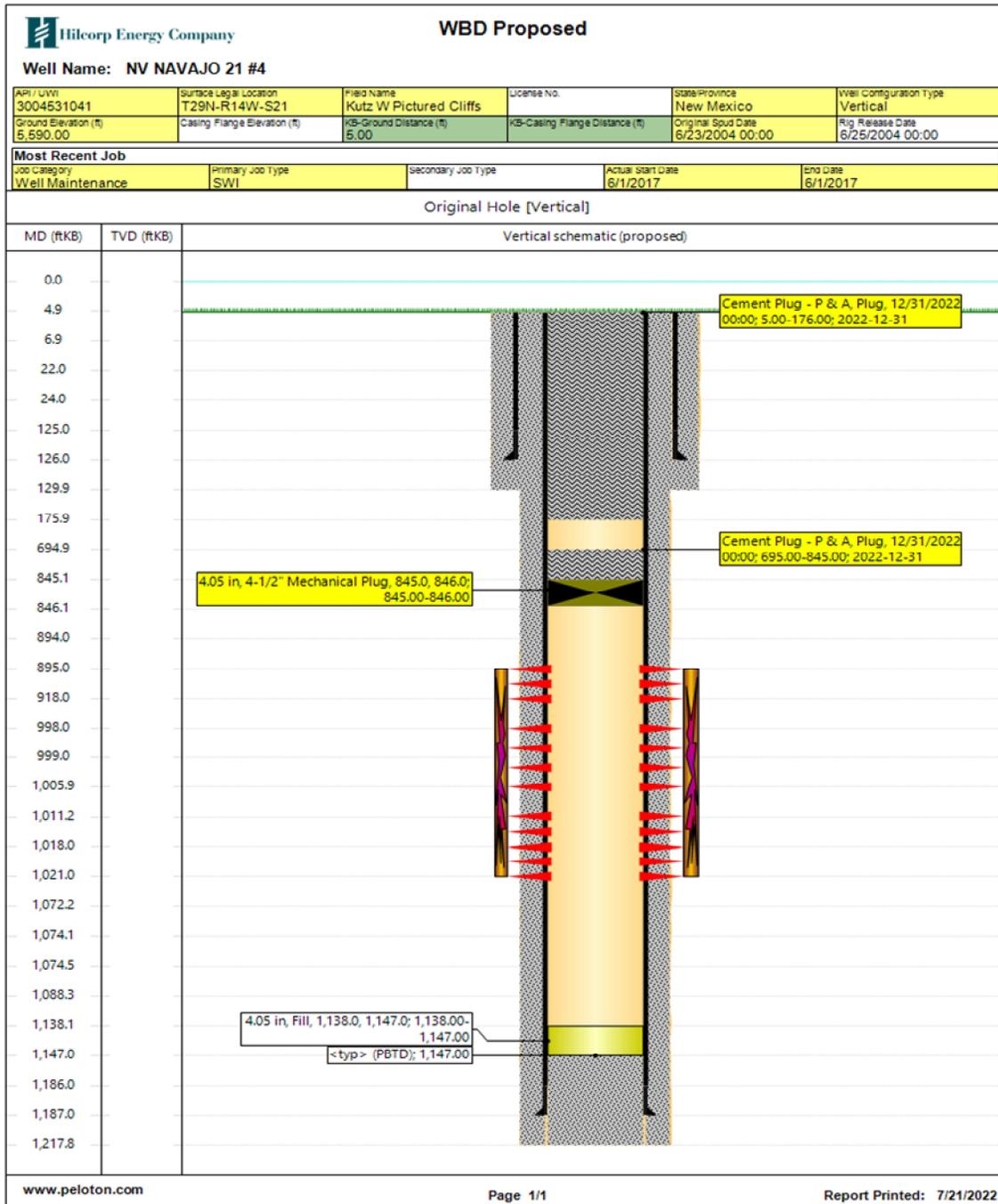
NV NAVAJO 21 #004 - CURRENT WELLBORE SCHEMATIC





HILCORP ENERGY COMPANY
NV NAVAJO 21 #004
NOTICE OF INTENT TO PERMANENTLY ABANDON

NV NAVAJO 21 #004 - PROPOSED P&A SCHEMATIC



Hilcorp Energy
P&A Final Reclamation Plan
NV Navajo 21 #4
API: 30-045-31041
I – Sec.21-T029N-R014W
Lat: 36.709763, Long: -108.307908
Footage: 1780' FSL & 770' FEL
San Juan County, NM

1. PRE-RECLAMATION SITE INSPECTION

1.1) A pre-reclamation site inspection was completed by Emmanuel Adeloje with the BLM, Bertha Spencer with BIA, Larson Nez with the Navajo Nation, and Chad Perkins construction Foreman for Hilcorp Energy on Wednesday April 13, 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 removed.
- 2.3) Strip water pipeline piping from the well facility to the mainline, blind flange or cap off at the mainline.
- 2.4) Strip the gas pipeline piping from the well facility to the mainline, blind flange or cap off at the mainline.
- 2.5) All nonnative aggregate will be scraped up and hauled off prior to re-contouring.
- 2.6) Re-contour into shallow swales to create a rolling terrain that matches natural topography drainage features to limit erosion.
- 2.7) A tear drop will be established around active pipeline riser and pit tank on east side of well pad for pipeline operations. The pipeline services the NV Navajo 21 #2, Nw Cha Cha Unit #11, NV Navajo 21 #2, and NV Navajo 21 #1 well and Water Transfer.
- 2.8) Rip compacted soil and walk down disturbed portion of well pad.
- 2.9) All trash and debris will be removed within 50' buffer outside of the location disturbance during reclamation.

3. ACCESS ROAD RECLAMATION PROCEDURE:

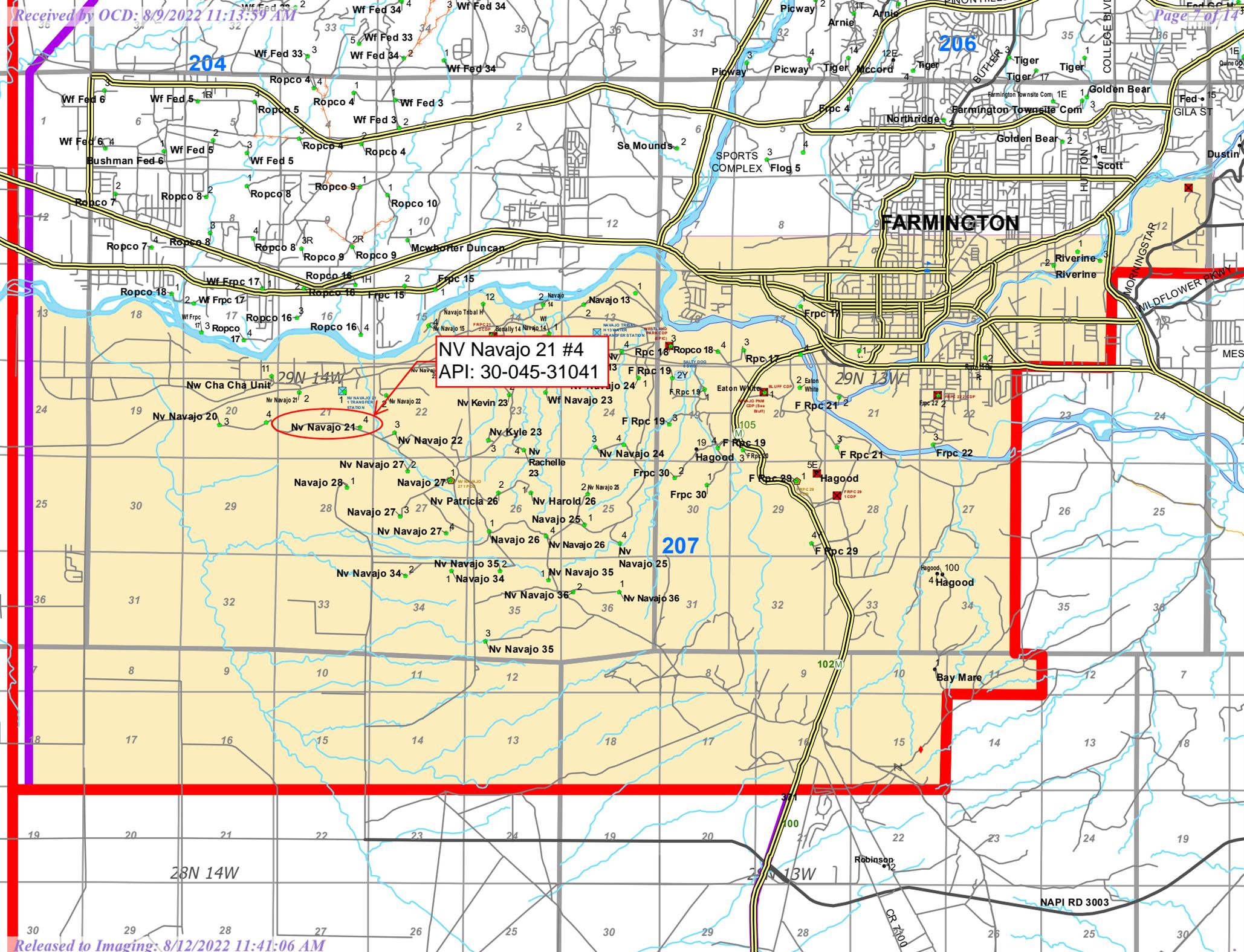
- 3.1) There is no lease road access to close, the well pad sits right next to a main lease road that is access to the NV Navajo 21 #4.
- 3.2) All trash and debris will be removed within 50' buffer outside of the road disturbance during reclamation.

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.



NV Navajo 21 #4
 API: 30-045-31041

Nv Navajo 21

All nonnative aggregate will be scraped up and hauled off prior to re-contouring.

36.709763, -108.307908

Re-contour into shallow swales to create a rolling terrain that matches natural topography drainage features to limit erosion.

A tear drop will be established around pipeline riser and pit tank for pipeline operations.



A tear drop will be established around pipeline riser and pit tank on east side of well pad for pipeline operations. The pipeline services the NV Navajo 21 #2, Nw Cha Cha Unit #11, NV Navajo 21 #2, and NV Navajo 21 #1 well and Water Transfer.

Date: 4/26/2022
 Scale: 1:1,128 mi
 0 0.01 0.02 0.02 0.03

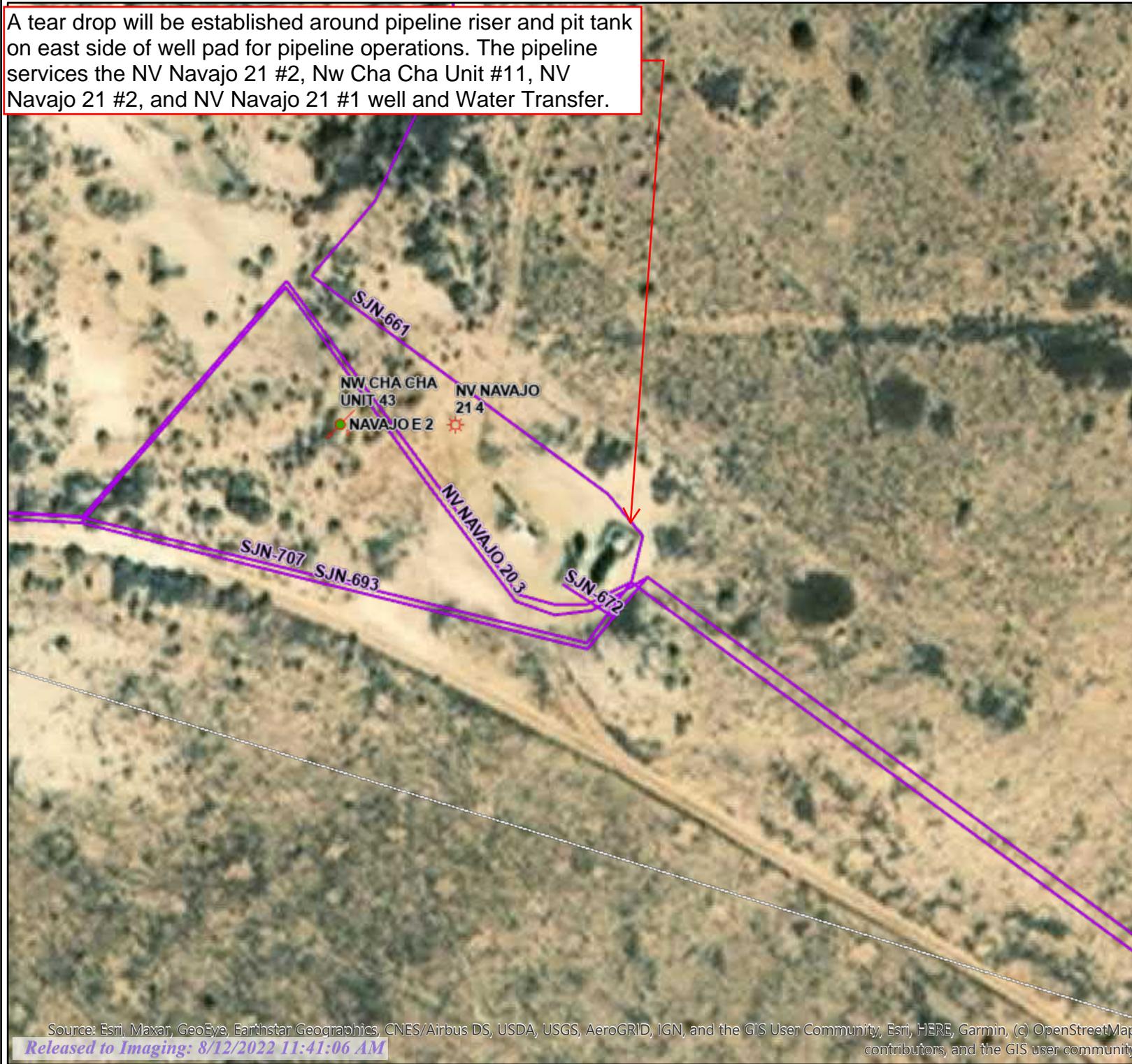
Wells
 Hilcorp Wells Surface Location

- Gas Well
- Oil Well
- SWD

Pipelines
 Hilcorp Operated Pipeline

Hilcorp Boundaries
 Asset Teams
 Supervisor Areas, outline

Roads and Highways
 SJB Roads
 Road



**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), 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: 08/08/2022

Well No. NV Navajo 21 4 (API# 30-045-31041)	Location:	NESE			
Lease No. 14206032199	Sec. 21	T29N			R14W
Operator Hilcorp Energy Company	County	San Juan	State		New Mexico
Total Depth 1218'	PBTD 1138'	Formation	Pictured Cliffs & Fruitland Coal		
Elevation (GR) 5590'		Elevation (KB)	5595		

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			894		Coal/Gas/Possible water
Pictured Cliffs Ss			1018		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:

- Fruitland Coal perforations 895 – 1018'. Pictured Cliffs perforations 1018 - 1021'

Prepared by: Kenneth Rennick

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

AFMSS 2 Sundry ID 2683519

Attachment to notice of Intention to Abandon

Well: NV Navajo 21 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 8/8/2022

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 132403

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171 <hr/> Action Number: 132403 <hr/> Action Type: [C-103] NOI Plug & Abandon (C-103F)
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CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	8/12/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	8/12/2022