

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

Well Name: HUERFANO UNIT	Well Location: T26N / R10W / SEC 19 / SENW / 36.476181 / -107.939987	County or Parish/State: SAN JUAN / NM
Well Number: 260	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF077933	Unit or CA Name: HUERFANO UNIT--DK	Unit or CA Number: NMNM78395C
US Well Number: 3004521410	Well Status: Gas Well Shut In	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2643959

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 11/11/2021

Time Sundry Submitted: 08:39

Date proposed operation will begin: 11/14/2021

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedure, current and proposed wellbore schematics. The Pre-Disturbance Site Visit was held on 11/10/2021 with Bob Switzer/BLM. 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

Huerfano_Unit_260_P_A_Procedure_20211111083935.pdf

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Conditions of Approval

Additional Reviews

General_Requirement_PxA_20220106111352.pdf

2643959_NOIA_260_3004521410_KR_01062021_20220106111256.pdf

26N10W19FKd_Huerfano_Unit_260_20220106093453.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: AMANDA WALKER

Signed on: NOV 11, 2021 08:39 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

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: 01/06/2022

Signature: Kenneth Rennick

Plug and Abandonment - NOI

Huerfano Unit 260

API # 30-045-21410

Procedure:

Hold PJSM prior to beginning any and all operations. Properly document all operations via the JSA process. Ensure that all personnel onsite abide by HEC safety protocol, including PPE, housekeeping, and standard guidelines.

Verify cathodic protection is off and wellhead instrumentation is properly disconnected from the wellhead. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.

Verify there is no H₂S present prior to beginning operations. If any H₂S is present, take the necessary actions to ensure that the location is safe prior to beginning operations.

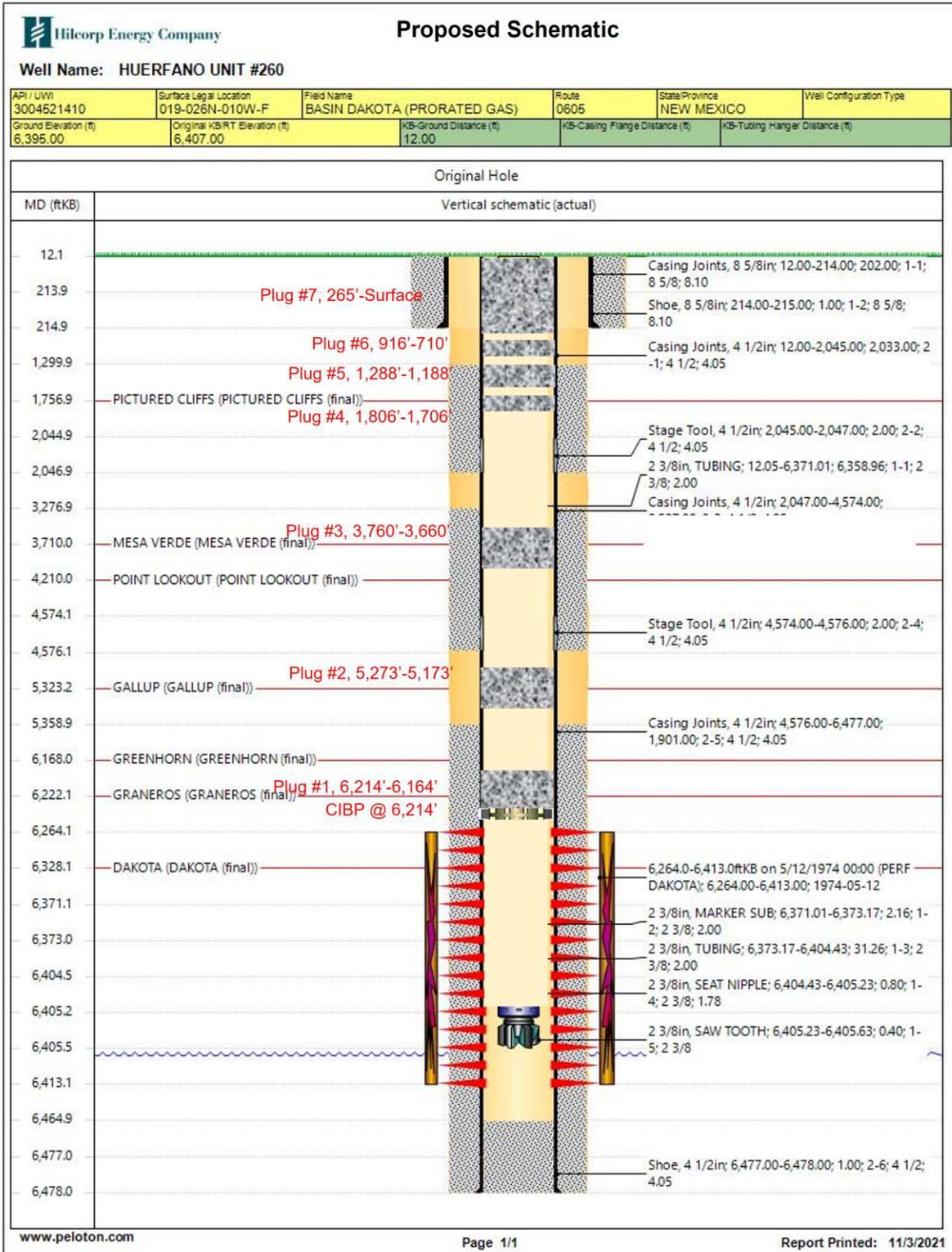
Observe and record pressures across all string daily, prior to beginning operations.

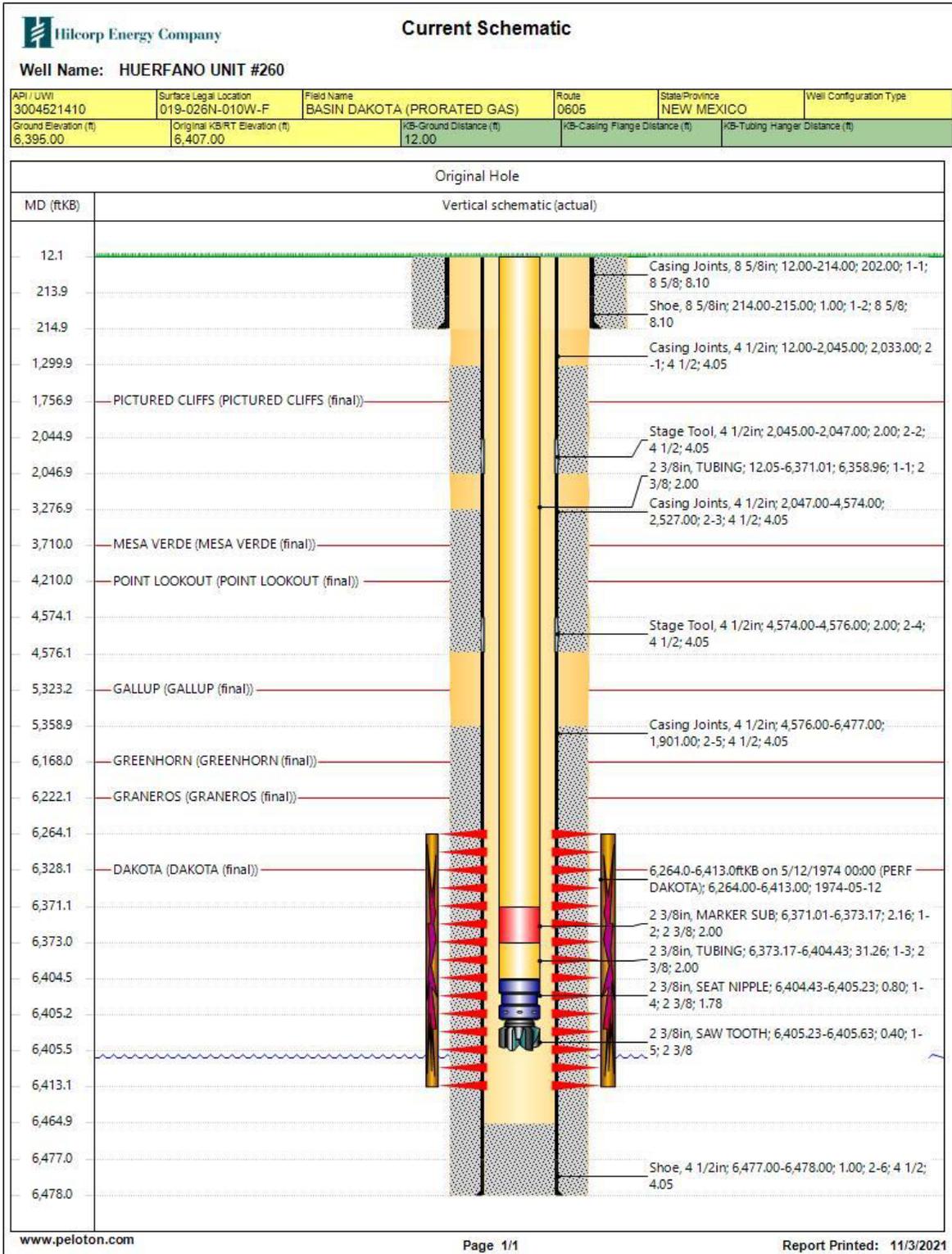
Remember to notify NMOCD 24 hours prior to starting operations on location.

NOTE: This procedure is contingent upon P&A sundry approval by NMOCD. All cement volumes use 100% excess outside pipe and 50' excess inside (unless otherwise stated). All cement will be Class G, mixed at 15.8 ppg w/ a 1.15 cf/sx yield. The stabilizing wellbore fluid will be an 8.3 ppg fluid, sufficient to balance all exposed formation pressures.

1. This project will use a steel tank to handle waste fluids circulated from the well and cement wash up.
2. Test anchors if not using a base beam. Comply with all NMOCD, BLM, and HEC safety regulations. MIRU and conduct safety meeting for all personnel on location.
3. Record casing, tubing, and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary. Ensure well is dead or on a vacuum.
4. ND wellhead and NU BOP. Function test BOP. RU Floor and POOH with sucker rods and pump, laying down equipment.
5. POOH with production tubing and scan pipe to use for plugging, stand back good pipe.
6. **Plug #1, 6,214' – 6,164' (Dakota perforations: 6,264'-6,413')** RUWL and set CIBP at 6,214', cap with 50' of class G cement. POOH with WL.
7. **RIH w/ CBL tools on WL, log from 6,100' to surface.**
8. RIH on 2-3/8 tubing and verify top of cement on CIBP at 6,164', circulate plug mud to 5,270'. Pressure test casing to 500 psi.

9. **Plug #2, 5,273'-5,173' (Gallup Top: 5,323')** Mix & pump 12 sxs of Class G cement and spot a balanced plug to cover the Gallup top. PU and reverse circulate tubing clean.
10. Circulate plug mud to 3,650'
11. **Plug #3, 3,760' – 3,660' (Mesa Verde/Cliff House top at 3,710')** Mix & pump 12 sxs of Class G cement and spot a balanced plug to cover Mesa Verde/Cliff House top.
12. Circulate plug mud to 1,800'
13. **Plug #4, 1,806'-1,706' (Pictured Cliffs Top: 1,756')** Mix & pump 12 sxs of Class G cement and spot a balanced plug to cover PC top.
14. Circulate plug mud to 1,285'
15. **Plug #5, 1,288'-1,188' (Fruitland Top: 1,238')** Mix & pump 12 sxs of Class G cement and spot a balanced plug to cover FRC top.
16. Circulate plug mud to 915'
17. **Plug #6, 916' - 710' (Kirtland Top: 866'; Ojo Alamo Top: 760')** Mix & pump 24 sxs of Class G cement and spot a balanced plug to cover Kirtland/Ojo top.
18. POOH and lay down remaining pipe to leave 265'. RUWL and perforate 4-1/2" casing at 265' (50' below surface shoe). RIH to 265'.
19. **Plug #7, 265' - Surface (Surface Shoe: 215')** Mix and pump 145 sx class G cement and attempt to establish communication to bradenhead. If able, circulate to bradenhead and fill 4-1/2" casing to surface with cement. If no inj rate, circulate cement to surface on 4-1/2" casing and POOH with pipe.
20. ND BOP and cut off wellhead below surface casing flange per regulation. Top off w/cement if needed. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location.





Hilcorp Energy
P&A Final Reclamation Plan
Huerfano Unit 260
API: 30-045-21410
T26N-R10W-Sec. 19-Unit F
LAT: 36.47618 LONG: -107.93998 NAD 27
Footage: 1700' FNL & 1725' FWL
San Juan County, NM

1. PRE- RECLAMATION SITE INSPECTION

A pre-reclamation site inspection was completed with Bob Switzer from the BLM and Eufracio Trujillo, Hilcorp Energy SJ South Construction Foreman on November 10, 2021.

2. LOCATION RECLAMATION PROCEDURE

1. Reclamation work will begin in fall time period.
2. Removal of all equipment, anchors, flowlines, cathodic, and Enterprise operated pipeline.
3. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
4. Rip compacted soil and walk down disturbed portion of well pad.
5. Location will be pushed to grade of existing hillside. Recontouring is required.
6. Remove all gravel from berms, pads, and meter run and bury in toe of cut.
7. Enterprise will remove pipeline from meter run to dog leg.

3. ACCESS ROAD RECLAMATION PROCEDURE

1. The well access road will be blocked at the entrance with a berm.
2. Reclaim road by ripping and broadcast seeding. Pull in sides as good as possible.
3. Insert small diversion for erosion control down road to help with runoff.

4. SEEDING PROCEDURE

1. A Pinion/Juniper seed mix mixed with some sage will be used for all reclaimed and disturbed areas of the well pad and lease road.
2. Drill seed 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.
3. Timing of the seeding will be when the ground is not frozen or saturated.

5. WEED MANAGEMENT

1. No noxious weeds were identified during this onsite.

**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.

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

Attachment to notice of
Intention to Abandon

Re: Permanent Abandonment
Well: Huerfano Unit 260

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.
3. The following modifications to your plugging program are to be made:
 - a) Add a plug to cover the Mancos formation top at 4468 feet.
 - b) Add a plug to cover the Chacra formation top at 2590 feet.
 - c) Adjust plug #4 Fruitland to cover the BLM formation top pick at 1385 feet.

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 1/6/2022

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 01/06/2022

Well No. Huerfano Unit #260 (API# 30-045-21410)	Location	1700	FNL	&	1725	FWL
Lease No. NMSF-077933	Sec. 19	T26N			R10W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth 6478'	PBTD 6465'	Formation Graneros/Dakota				
Elevation (GL) 6395'		Elevation (KB) 6407'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/freshwater sands
Nacimiento Fm			Surface	760	Possible freshwater sands
Ojo Alamo Ss			760	866	Aquifer (possible freshwater)
Kirtland Shale			866	1385	
Fruitland Fm			1385	1757	Coal/Gas/Possible water
Pictured Cliffs Ss			1757	1842	Gas
Lewis Shale			1842	2590	
Chacra			2590	3710	Gas
Cliff House Ss			3710	3792	Water/Possible gas
Menefee Fm			3792	4210	Coal/Ss/Water/Possible O&G
Point Lookout Ss			4210	4468	Probable water/Possible O&G
Mancos Shale			4468	5323	
Gallup			5323	6168	O&G/Water
Greenhorn			6168	6222	
Graneros Shale			6222	6300	
Dakota Ss			6300	PBTD	O&G/Water

Remarks:

P & A

- BLM picks for the Dakota, Chacra, and Fruitland formation tops vary from Operator picks.

- No CBL on file.

- Add a plug to cover the Mancos formation top at 4468'.

- Add a plug to cover the Chacra formation top at 2590'.

- Adjust Plug #4 (Fruitland) to cover BLM formation top pick at 1385'.

- The plugs proposed in the P&A procedure, with changes recommended above, will adequately protect any freshwater sands in this well bore.

- Graneros/Dakota perms 6264' – 6413'.

Reference Well:

1) **Formation Tops**
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 70858

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 70858
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	1/13/2022
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	1/13/2022