

Well Name: HUERFANO UNIT	Well Location: T26N / R9W / SEC 35 / NESW / 36.442659 / -107.763116	County or Parish/State: SAN JUAN / NM
Well Number: 307	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078103B	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004534635	Operator: HILCORP ENERGY COMPANY	

Notice of Intent

Sundry ID: 2819135

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 10/28/2024	Time Sundry Submitted: 01:18
Date proposed operation will begin: 12/02/2024	

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 10/23/2024 with Roger Herrera (BLM), Daniel Sloan (ENT) and Bryan Hall (HEC). 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

2024_10_07__HUERFANO_UNIT_307__P_A_NOI_20241028131808.pdf

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Conditions of Approval

Additional

Huerfano_Unit_No_307_Geo_Rpt_20241122145330.pdf

Authorized

General_Requirement_PxA_20241125083122.pdf

2819135_307_3004534635_NOIA_KR_11252024_20241125083050.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: TAMMY JONES

Signed on: OCT 28, 2024 01:18 PM

Name: HILCORP ENERGY COMPANY

Title: Regulatory Compliance Specialist

Street Address: 382 ROAD 3100

City: AZTECState: NM

Phone: (505) 324-5185

Email address: TAJONES@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: 11/25/2024

Signature: Kenneth Rennick



HILCORP ENERGY COMPANY
HUERFANO UNIT 307
P&A NOI

API #: 3004534635

JOB PROCEDURES

1. Contact NMOCD and BLM (where applicable) 24 hours prior to MIRU.
2. Hold pre-job safety meeting. Verify cathodic is off. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.
3. MIRU service rig and associated equipment; NU and test BOP.
4. Set a 4-1/2" CIBP or CICR at +/- 6,370' to isolate the DK Perfs.
5. Load the well as needed. Pressure test the casing above the plug to 560 psig.
6. *Note the following plug design is based on the CBL run on 2008-06-18.
7. PU & TIH w/ work string to +/- 6,370'.
8. **PLUG #1: 12sx of Class G Cement (15.8 PPG, 1.15 yield); DK Perfs @ 6,389' | DK Top @ 6,385' | GRN Top @ 6,358':**
 Pump a 12 sack balanced cement plug inside the 4-1/2" casing (est. TOC @ +/- 6,220' & est. BOC @ +/- 6,370'). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
9. Load the well as needed. Pressure test the casing above the plug to 560 psig.
10. POOH w/ work string to +/- 5,513'.
11. **PLUG #2: 12sx of Class G Cement (15.8 PPG, 1.15 yield); GAL Top @ 5,463':**
 Pump a 12 sack balanced cement plug inside the 4-1/2" casing (est. TOC @ +/- 5,363' & est. BOC @ +/- 5,513'). *Note cement plug lengths & volumes account for excess.
12. POOH w/ work string to +/- 4,848'.
13. **PLUG #3: 12sx of Class G Cement (15.8 PPG, 1.15 yield); MCS Top @ 4,798':**
 Pump a 12 sack balanced cement plug inside the 4-1/2" casing (est. TOC @ +/- 4,698' & est. BOC @ +/- 4,848'). *Note cement plug lengths & volumes account for excess.
14. POOH w/ work string to +/- 3,493'.
15. **PLUG #4: 58sx of Class G Cement (15.8 PPG, 1.15 yield); MV Top @ 3,443' | CHC Top @ 2,840':**
 Pump a 58 sack balanced cement plug inside the 4-1/2" casing (est. TOC @ +/- 2,740' & est. BOC @ +/- 3,493'). *Note cement plug lengths & volumes account for excess.
16. POOH w/ work string to +/- 2,020'.
17. **PLUG #5: 72sx of Class G Cement (15.8 PPG, 1.15 yield); PC Top @ 1,970' | FRD Top @ 1,685' | KRD Top @ 1,286' | OJO Top @ 1,183':**
 Pump a 72 sack balanced cement plug inside the 4-1/2" casing (est. TOC @ +/- 1,083' & est. BOC @ +/- 2,020'). *Note cement plug lengths & volumes account for excess.
18. POOH w/ work string to +/- 370'.
19. **PLUG #6: 83sx of Class G Cement (15.8 PPG, 1.15 yield); Surf. Casing Shoe @ 320' | NAC Top @ 264':**
 Pump a 29 sack balanced cement plug inside the 4-1/2" casing (est. TOC @ +/- 0' & est. BOC @ +/- 370'). *Note cement plug lengths & volumes account for excess. *NOTE - CBL run 2008-06-18 shows TOC @ ~250'; therefore Hilcorp is requesting to not perforate up inside the surface casing shoe, and instead RIH w/ 1" polyline in the 4-1/2" x 8-5/8" surface casing annulus to top off cement from 250' to surface (~54sx Class G cmt).
20. ND BOP, cut off casing below casing flange. Top off cement in surface casing annulus, if needed. Install a P&A marker with cement to comply with regulations. Rig down, move off location, cut off anchors, and restore location.



HILCORP ENERGY COMPANY
HUERFANO UNIT 307
P&A NOI

HUERFANO UNIT 307 - CURRENT WELLBORE SCHEMATIC

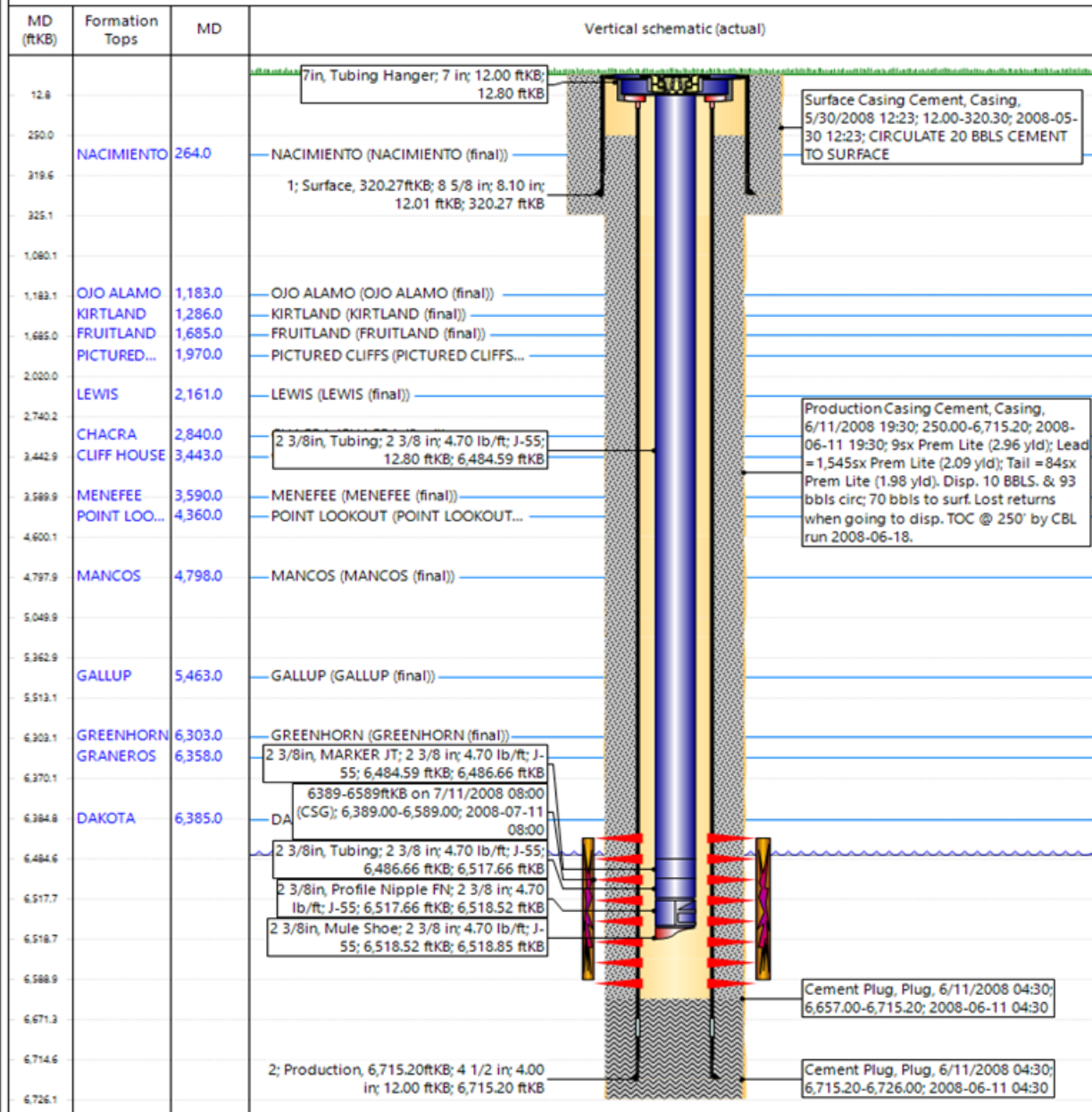


P&A WBD - Current Schematic

Well Name: HUERFANO UNIT #307

API / UWI 3004534635	Surface Legal Location 035-026N-009W-K	Field Name BASIN DAKOTA	Route 0610	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,456.00	Original KB/RT Elevation (ft) 6,468.00	Tubing Hanger Elevation (ft)	RTKB to GL (ft) 12.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)

Original Hole [VERTICAL]



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HILCORP ENERGY COMPANY
HUERFANO UNIT 307
P&A NOI

HUERFANO UNIT 307 - PROPOSED WELLBORE SCHEMATIC

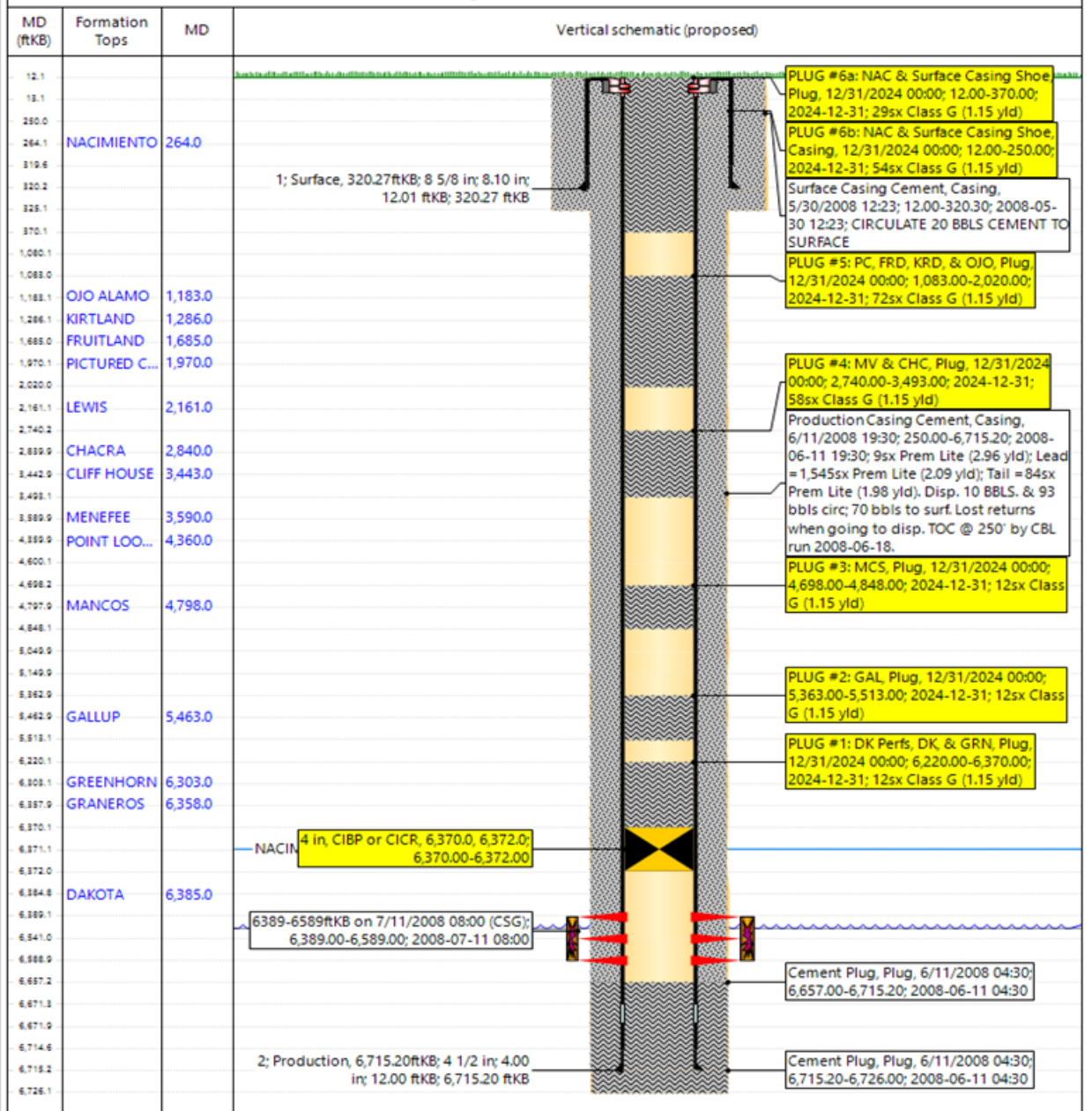


P&A WBD - Proposed Schematic

Well Name: HUERFANO UNIT #307

API / UWI 3004534635	Surface Legal Location 035-026N-009VV-K	Field Name BASIN DAKOTA	Route 0610	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,456.00	Original KBRT Elevation (ft) 6,468.00	Tubing Hanger Elevation (ft)	RKB to GL (ft) 12.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)

Original Hole [VERTICAL]



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Hilcorp Energy
P&A Final Reclamation Plan
Huerfano Unit 307
API: 30-045-34635
T26N-R9W-Sec. 35-Unit K
LAT: 36.442649 LONG: -107.762502 NAD 27
1900' FSL & 1320' FWL
San Juan County, NM

1. PRE- RECLAMATION SITE INSPECTION

A pre-reclamation site inspection was completed with Roger Herrera (BLM), Daniel Sloan (Enterprise), and Bryan Hall Hilcorp Energy SJ South Construction Foreman on October 23, 2024.

2. LOCATION RECLAMATION PROCEDURE

1. Removal of all equipment, separator, meter run, anchors, flowlines, fence, BGT and tank.
2. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
3. Bury gravel.
4. P&A cathodic well and remove rectifier.
5. Blend NW side of pad in with pad.
6. Blend in SW edge of pad.
7. Rip and seed pad.
8. Enterprise to remove meter run and piping 50' off location and disconnect at the dogleg and remove pipe across the road.

3. ACCESS ROAD RECLAMATION PROCEDURE

1. Reclaim road and add water bars as necessary, build berm at main road to block access.
2. Remove culverts in access road.
3. Remove power pole along access road.
4. Remove gate and cattle guard and rebuild fence.
5. Rip and seed road.

4. SEEDING PROCEDURE

1. BLM Special seed mix 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.

Huerfano Unit 307 36.443275 -107.763072

Feather in berms

Rip and seed pad



Build Berm at main road







Remove cattle guard and gate
replace with fence.



Add water bars as necessary



Huerfano Unit 307 36.443275 -107.763072



**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.

BLM - FFO - Geologic Report**Date Completed** 11/22/2024

Well: Huerfano Unit No 307

Lease: NMSF078103B	Surf. Loc. 1900	FSL 1320	FWL
	Sec. 35	T26N	R9W

Operator Hilcorp Energy Company	County San Juan	State New Mexico
TVD 6080 PBSD 6080	Formation Blanco Mesa Verde, Basin Dakota	
Elevation GL 6456	Elevation Est. KB 6468	

Geologic Formation	Est. tops	Subsea Elev.	Remarks
Nacimiento Fm.	Surface		Surface /fresh water sands
Ojo Alamo Ss	1027	5441	Aquifer (fresh water)
Kirtland Fm.	1232	5236	
Fruitland Fm.	1602	4866	Coal/gas/possible water
Pictured Cliffs	1922	4546	Possible water
Lewis Shale (main)	2032	4436	
Huerfanito Bentonite	2314	4154	Reference bed
Chacra (Upper)	2787	3681	Possible water or dry
Lewis Sh stringer	3062	3406	
Chacra (lower)	3282	3186	Possible gas, water
Lewis Sh stringer	3462	3006	
Cliff House	3522	2946	Possible gas, water
Menefee Fm.	3572	2896	Coal/ss/water/possible gas
Point Lookout Fm.	4267	2201	Possible gas, water
Mancos Shale	4652	1816	Petroleum source rock
El Vado Ss	5472	996	O&G
Gallup	5547	921	O&G
Mancos Stringer	5852	616	
Juana Lopez	5932	536	
Mancos Stringer	6042	426	
Greenhorn	6267	201	
Graneros	6342	126	
Dakota	6437	31	O&G

Remarks:

- Vertical wellbore - all fm. tops are TVD.

-Modify the Plug 1 TOC to 6242' to account for the BLM geologist's pick for the Graneros.

-Modify the Plug 2 TOC to 5447' and the BOC to 5597'to account for the BLM geologist's pick for the Gallup.

-Modify the Plug 3 TOC to 4542' and the BOC to 4702'to account for the BLM geologist's pick for the Mancos.

-Divide Plug 4 into two plugs to account for the BLM geologist's picks for the Cliff House and upper Chacra. Cover the Cliff House from 3572' to 3422'. Cover the upper Chacra from 2837' to 2687'.

-Modify the Plug 5 TOC to 927' to account for the BLM geologist's pick for the Ojo Alamo.

Reference Well:

Hilcorp Energy Company
Huerfano Unit No. 308
665' FNL, 1320' FWL
3B-T25N-R9W
GL=6494', KB= 6506'

Prepared by: Walter Gage



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
<http://www.blm.gov/nm>



CONDITIONS OF APPROVAL

November 25, 2024

Notice of Intent – Plug and Abandonment

Operator: Hilcorp Energy Company
Lease: NMSF0781036Bs
Well(s): Huerfano Unit 307, US Well # 30-045-34635
Location: NESW Sec 35 T26N R9W (San Juan County, NM)
Sundry Notice ID #: 2819135

The Notice of Intent to Plug and Abandon is accepted with the following Conditions of Approval (COA):

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. See attached Geology Report. An updated plugging procedure
3. **Notification:** 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 11/25/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 407578

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 407578
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	NMOCD agrees with BLM call on formation tops - Notify NMOCD 24 hours prior to moving on - Monitor string pressures daily report on subsequent - CBL from 2008 in log file -	12/4/2024