

Well Name: HUERFANO UNIT	Well Location: T26N / R9W / SEC 6 / SWSW / 36.512497 / -107.835129	County or Parish/State: SAN JUAN / NM
Well Number: 156E	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM03017	Unit or CA Name: HUERFANO UNIT--DK	Unit or CA Number: NMNM78395C
US Well Number: 3004526391	Operator: HILCORP ENERGY COMPANY	

Notice of Intent

Sundry ID: 2832296

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 01/16/2025	Time Sundry Submitted: 02:19
Date proposed operation will begin: 03/03/2025	

Procedure Description: Hilcorp Energy request permission to plug and abandon the subject well per the attached procedure, current and proposed wellbore diagrams. A Pre-Disturbance Site Visit was conducted on 12/03/2024 with Roger Herrera (BLM) 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

2025_01_16_HUERFANO_UNIT_156E_P_A_NOI_20250116141648.pdf

Well Name: HUERFANO UNIT	Well Location: T26N / R9W / SEC 6 / SWSW / 36.512497 / -107.835129	County or Parish/State: SAN JUAN / NM
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Conditions of Approval

Additional

General_Requirement_PxA_20250214105122.pdf
2832296_NOI_PnA_Huerfano_Unit_156E_3004526391_MHK_02.14.2025_20250214105110.pdf
Huerfano_Unit_156E_Geo_Rpt_20250214095731.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: JAN 16, 2025 02:17 PM
Name: HILCORP ENERGY COMPANY
Title: Regulatory Compliance Specialist
Street Address: 382 ROAD 3100
City: AZTEC **State:** 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: MATTHEW H KADE
BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647736
BLM POC Email Address: MKADE@BLM.GOV
Disposition: Approved
Disposition Date: 02/14/2025
Signature: Matthew Kade



HILCORP ENERGY COMPANY
HUERFANO UNIT 156E
P&A NOI

API #: 3004526391

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. POOH w/ tubing and lay down.
5. Set a **4-1/2" CIBP** or **CICR** at **+/- 6,721'** to isolate the **DK** Perfs.
6. Load the well as needed. Pressure test the casing above the plug to **560 psig**.
7. RU Wireline. Run CBL. Record Top of Cement. All subsequent plugs below are subject to change pending CBL results.
8. PU & TIH w/ work string to **+/- 6,721'**.
9. **PLUG #1: 10sx of Class G Cement (15.8 PPG, 1.15 yield); DK Top @ 6,822' | DK Perfs @ 6,731' | GRN Top @ 6,702':**
 Pump a 10 sack balanced cement plug inside the 4-1/2" casing (est. **TOC @ +/- 6,602'** & est. **BOC @ +/- 6,721'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
10. POOH w/ work string to **+/- 5,832'**.
11. **PLUG #2: 12sx of Class G Cement (15.8 PPG, 1.15 yield); GAL Top @ 5,782':**
 Pump a 12 sack balanced cement plug inside the 4-1/2" casing (est. **TOC @ +/- 5,682'** & est. **BOC @ +/- 5,832'**). *Note cement plug lengths & volumes account for excess.
12. POOH w/ work string to **+/- 5,207'**.
13. **PLUG #3: 19sx of Class G Cement (15.8 PPG, 1.15 yield); DV Tool #2 Top @ 5,157' | MCS Top @ 5,065':**
 Pump a 19 sack balanced cement plug inside the 4-1/2" casing (est. **TOC @ +/- 4,965'** & est. **BOC @ +/- 5,207'**). *Note cement plug lengths & volumes account for excess.
14. POOH w/ work string to **+/- 3,934'**.
15. **PLUG #4: 66sx of Class G Cement (15.8 PPG, 1.15 yield); MV Top @ 3,884' | CHC Top @ 3,188':**
 Pump a 66 sack balanced cement plug inside the 4-1/2" casing (est. **TOC @ +/- 3,088'** & est. **BOC @ +/- 3,934'**). *Note cement plug lengths & volumes account for excess.
16. POOH w/ work string to **+/- 2,549'**.
17. **PLUG #5: 48sx of Class G Cement (15.8 PPG, 1.15 yield); DV Tool #1 Top @ 2,499' | PC Top @ 2,307' | FRD Top @ 2,042':**
 Pump a 48 sack balanced cement plug inside the 4-1/2" casing (est. **TOC @ +/- 1,942'** & est. **BOC @ +/- 2,549'**). *Note cement plug lengths & volumes account for excess.
18. POOH w/ work string to **+/- 1,560'**.
19. **PLUG #6: 26sx of Class G Cement (15.8 PPG, 1.15 yield); KRD Top @ 1,510' | OJO Top @ 1,332':**
 Pump a 26 sack balanced cement plug inside the 4-1/2" casing (est. **TOC @ +/- 1,232'** & est. **BOC @ +/- 1,560'**). *Note cement plug lengths & volumes account for excess.
20. POOH w/ work string. TIH & perforate squeeze holes @ **+/- 275'**. Establish circulation.
21. **PLUG #7: 81sx of Class G Cement (15.8 PPG, 1.15 yield); Surf. Casing Shoe @ 225':**
 Pump 10sx of cement in the 4-1/2" casing X 7-7/8" open hole annulus (est. **TOC @ +/- 225'** & est. **BOC @ +/- 275'**). Continue pumping 49sx of cement in the 4-1/2" casing X 8-5/8" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 225'**). Pump an additional 22 sack balanced cement plug inside the 4-1/2" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 275'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
22. ND BOP, cut off Wellhead. 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 156E
P&A NOI

HUERFANO UNIT 156E - CURRENT WELLBORE SCHEMATIC

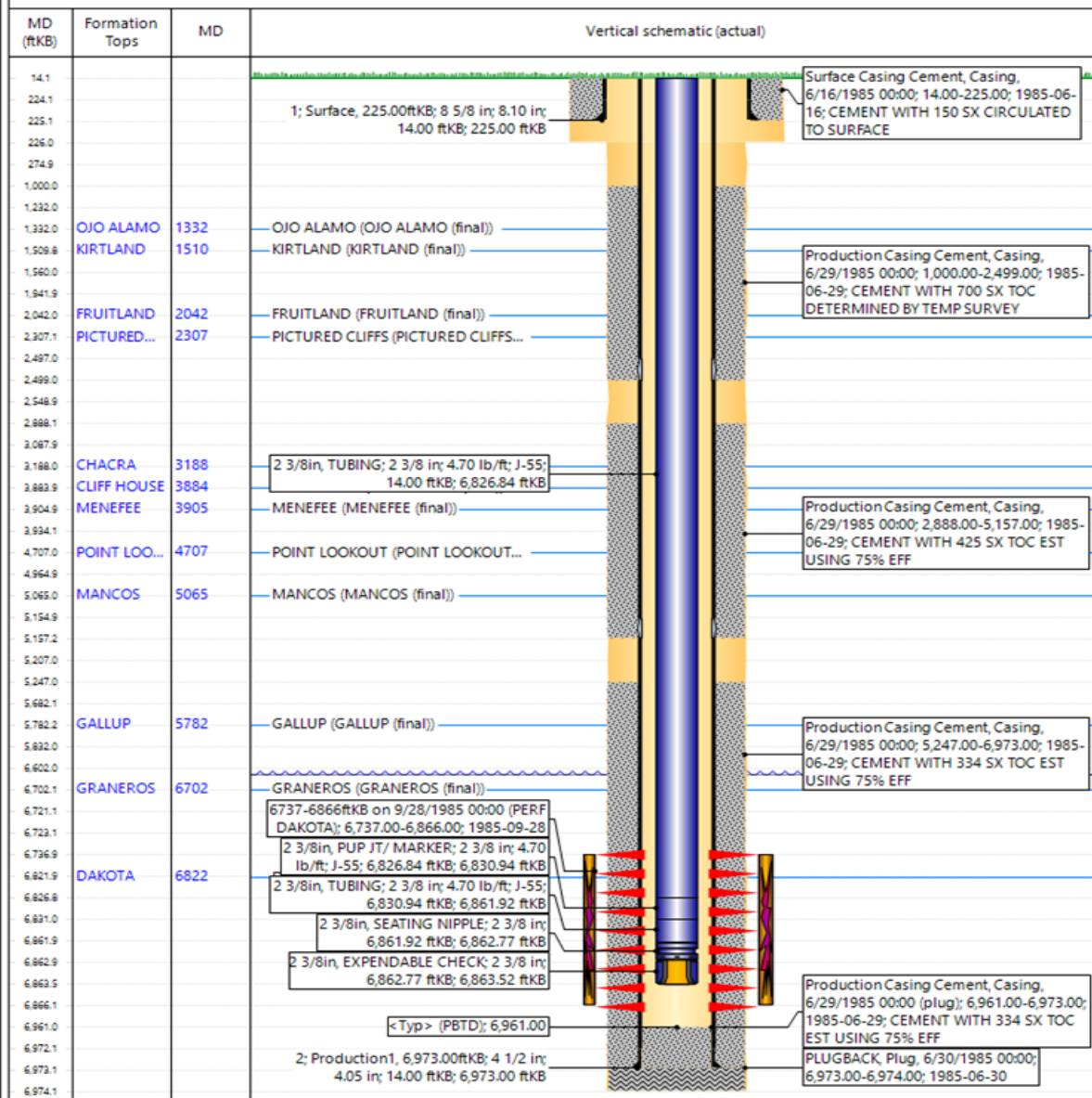


P&A WBD - Current Schematic

Well Name: HUERFANO UNIT #156E

API / UWI 3004526391	Surface Legal Location 006-026N-009W-M	Field Name BASIN DAKOTA (PRORATED GAS)	Route 0607	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,615.00	Original KB RT Elevation (ft) 6,629.00	Tubing Hanger Elevation (ft)	RTB to GL (ft) 14.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)

Original Hole [VERTICAL]



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Report Printed: 1/16/2025



HILCORP ENERGY COMPANY
HUERFANO UNIT 156E
P&A NOI

HUERFANO UNIT 156E - PROPOSED WELLBORE SCHEMATIC

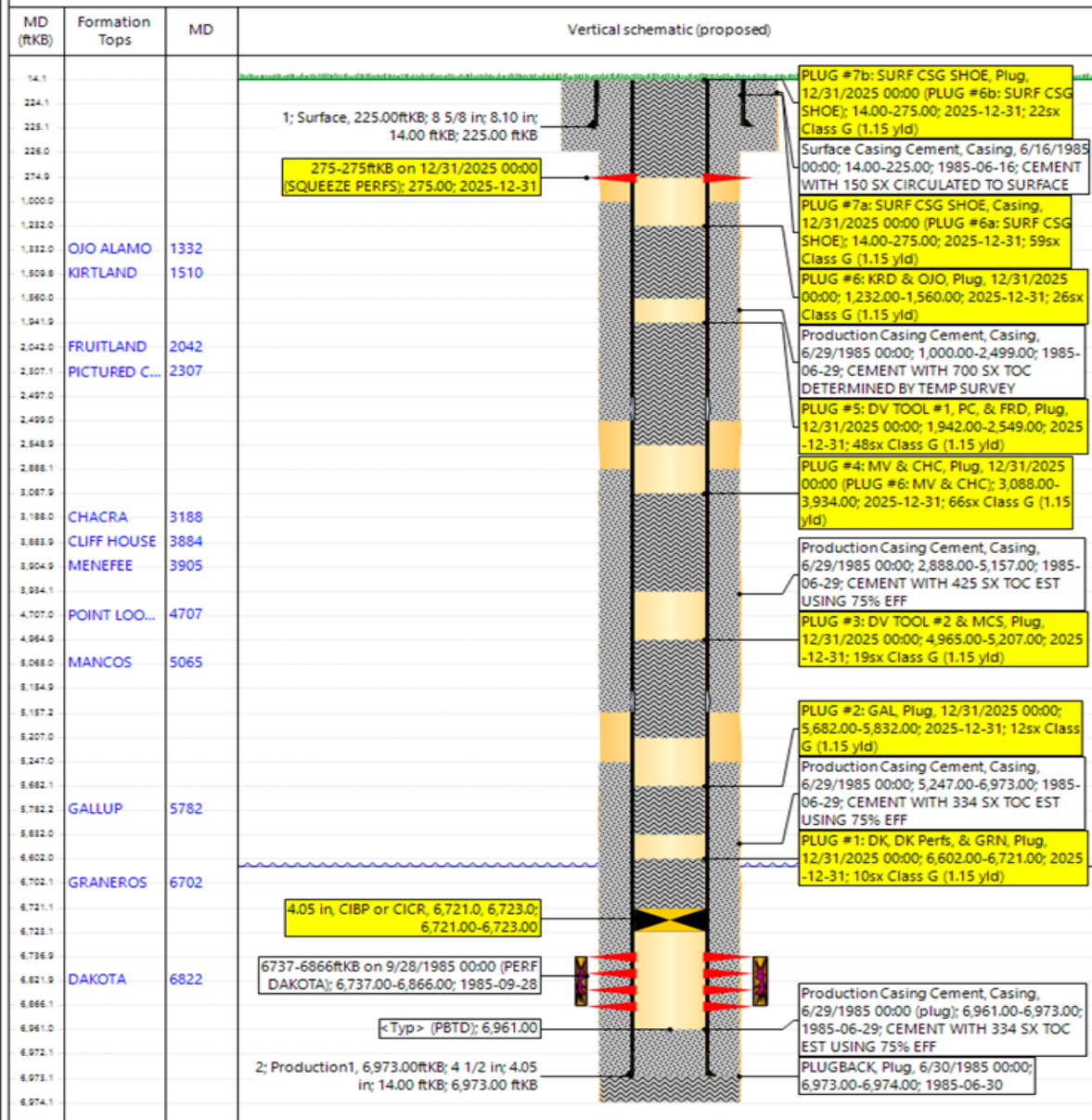


P&A WBD - Proposed Schematic

Well Name: HUERFANO UNIT #156E

API / UWI 3004526391	Surface Legal Location 006-026N-009W-M	Field Name BASIN DAKOTA (PRORATED GAS)	Route 0607	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,615.00	Original KB/RT Elevation (ft) 6,629.00	Tubing Hanger Elevation (ft)	KB to GL (ft) 14.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)

Original Hole [VERTICAL]



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Hilcorp Energy

Huerfano Unit 156E

36.51249, -107.83512

API-30-045-26391

SWSW T26N-09W SEC 6

Final Reclamation Plan

Onsite Completed on 12/03/2024 with Roger Herrera and Bryan Hall

1. Pick up and remove all trash, metal, cable, and any foreign debris within 100' of location.
2. Remove anchors.
3. Strip equipment off facility.
4. Remove piping and cables.
5. Remove cathodic and plug well.
6. Enterprise to remove meter run and piping 50' off location.
7. Re-purpose available gravel/rock on main road.
8. Feather in cut slope back to location on south side, round off NE corner near access road.
9. Reclaim road back to main road, adding water bars and silt traps as necessary to prevent erosion.
10. Remove culvert.
11. Build berm to block entrance at main road.
12. Rip bare soil, leaving rough terrain. Do not disturb established vegetation unless necessary.
13. Re-seed all disturbed areas. Drill where applicable at rate per acre defined by seed mix(3.5 acres), and broadcast seed and harrow, at double the rate, all other disturbed areas. BLM special seed mix will be used.





**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) and 43 CFR 3172.12(a)(10). 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** 2/14/2025

Well No.	Huerfano Unit	# 156E	Surf. Loc.	960	FSL	830	FWL
		Lot 7	Sec.	6	T26N		R9W
Lease No.	NMNM03017						
Agrmt No	NMNM78395C						
Operator	Hilcorp Energy Co.			County	San Juan	State	New Mexico
TVD	6974	PBTD	6961	Formation	Basin Dakota		
Elevation	GL		6615	Elevation	Est. KB	6629	(Estimated)

Geologic Formations	Est. tops	Subsea Elev.	Remarks
Nacimiento Fm.	Surface		Surface /fresh water sands
Ojo Alamo Ss	1315	5314	Fresh water aquifer
Kirtland Fm.	1510	5119	
Fruitland Fm.	1945	4684	Coal/gas/possible water
Pictured Cliffs	2290	4339	Possible gas/water
Lewis Shale (Main)	2470	4159	Source rock
Stage Tool	2499	4130	
Huerfanito Bentonite	2735	3894	Reference bed
Chacra (upper)	3188	3441	Possible gas/water
Lewis Shale Stringer	3290	3339	Source rock
Chacra (lower)	3410	3219	Possible gas/water
Lewis Shale Stringer	3490	3139	Source rock
Cliff House Ss	3800	2829	Possible gas/water
Menefee Fm.	3900	2729	Coal/water/possible gas
Point Lookout Fm.	4707	1922	Possible gas/water
Mancos Shale	5065	1564	Source rock
Stage Tool	5157	1472	
El Vado Ss	5480	1149	Possible gas/water
Gallup	5782	847	Oil & gas
Mancos Stringer	6170	459	Source rock
Juana Lopez	6310	319	
Mancos Stringer	6410	219	
Brdge Crk/Grnhn	6650	-21	
Graneros Shale	6702	-73	
Dakota Ss	6822	-193	Possible gas/water

Remarks:Reference Well:

-Vertical wellbore, all formation depths are TVD from KB at the wellhead.

-Add a plug from 5380' to 5530' to account for the BLM geologist's pick for the El Vado sandstone. This plug may be combined with Plug 3.

-Move the Plug 5 TOC to 1845' to account for the BLM geologist's pick for the Fruitland.

-Move the Plug 6 TOC to 1215' to account for the BLM geologist's pick for the Ojo Alamo.

Same

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

February 14, 2025

Notice of Intent - Plug and Abandonment

Operator: Hilcorp Energy Company
Lease: NMSF03017
Agreement: NMNM78395C
Well(s): Huerfano Unit 156E, API # 30-045-26391
Location: SWSW Sec 6 T26N R9W (San Juan County, NM)
Sundry Notice ID#: 2832296

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 made:**
 - a. Add a plug to cover BLM geologist's pick for the El Vado sandstone formation top pick @ 5480'. Plug should at a minimum cover 5380' to 5530', estimated minimum 12 sx. Plug may be combined with Plug 2 (Gallup) and/or Plug 3 (Mancos/DV #2).
 - b. Adjust Plug 5 (DV #1/Picture Cliffs/Fruitland) to cover BLM geologist's Fruitland Coal formation top pick @ 1945'. Plug 5 should cover at a minimum 1845' - 2549', estimated minimum 55 sx. If plug is tagged, the tag must be at 1895' or higher.
 - c. Adjust Plug 6 (Kirtland/Ojo Alamo) to cover BLM geologist's Kirtland and Ojo Alamo formation top picks @ 1510' and 1315', respectively. Plug 5 should cover at a minimum 1215' – 1560', estimated minimum 27 sx. If plug is tagged, the tag must be at 1265' or higher.
3. **Notification:** Farmington Field Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.
4. **Deadline of Completion of Operations:** Complete the plugging operation before February 14, 2026. If unable to meet the deadline, notify the Bureau of Land Management's Farmington Field Office prior to the deadline via Sundry Notice (Form 3160-5) Notice of Intent detailing the reason for the delay and the date the well is to be plugged.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements. Any estimated minimum sacks provided in procedure modification include necessary excesses.

Office Hours: 7:45 a.m. to 4:30 p.m.

Matthew Kade (mkade@blm.gov/505-564-7736) / Kenny Rennick (krennick@blm.gov/505-564-7742)

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 432237

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 432237
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	NMOCD agrees with BLM tops except for (NMOCD MV =3884 and PC= 2307) Notify NMOCD 24 hours prior to moving - monitor string pressures daily report on subsequent -submit all logs prior to subsequent.	3/6/2025