

Well Name: HUERFANITO UNIT	Well Location: T27N / R9W / SEC 25 / NWNW / 36.55074 / -107.74532	County or Parish/State: SAN JUAN / NM
Well Number: 82M	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: I149IND8473	Unit or CA Name:	Unit or CA Number:
US Well Number: 300452897700S3	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2748263

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 08/28/2023

Time Sundry Submitted: 01:23

Date proposed operation will begin: 09/15/2023

Procedure Description: Hilcorp Energy Company requests permission to plug and abandon the subject well per the attached procedure, current and proposed wellbore schematics. The Pre-Disturbance site visit was held on 8/23/2023 with Laverna Jaquez/FIMO and Roger Herrera/BLM. The Reclamation Plan is attached. A closed loop system will be used. **Please add Laverna Jaquez as a BLM reviewer.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Huerfanito_82M_P_A_NOI_20230828132103.pdf

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Well Status: Producing Gas Well

Operator: HILCORP ENERGY
COMPANY

Conditions of Approval

Specialist Review

2748263_NOIA_82M_3004528977_KR_09072023_20230907091158.pdf

26N13W31_South_Bisti_31_H_1_Geo_KGR_20230907090930.pdf

General_Requirement_PxA_20230907090910.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: CHERYLENE WESTON

Signed on: AUG 28, 2023 01:21 PM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Tech - Sr

Street Address: 1111 TRAVIS STREET

City: HOUSTON

State: TX

Phone: (713) 289-2615

Email address: CWESTON@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: 09/07/2023

Signature: 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 2748263

Attachment to notice of Intention to Abandon

Well: Huerfanito Unit 82M

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 09/07/2023

Hilcorp Energy Company

Proposed P&A Procedure

Well: Huerfanito Unit #82M

API: 30-045-28977

Lease: I149IND8473

Date: 8/25/2023

Engr: M Wissing

Surface: BLM

Wellbore		Wt #	ID	Bottom (ft)	Bbl/ft	Drill Bit
SPUD	7/21/1993					
KB (ft)	13 ft					
Surface Casing	8-5/8"	24#	8.1	218'	0.06370	12-1/4"
Production Casing	4-1/2"	11.6#	4.00	6,743'	0.01553	7-7/8"
Csg x Open hole	7.875 X 4.5	-	-	-	0.04060	
Csg Annular	8.1 X 4.5	-	-	-	0.04410	
Tubing	2-3/8" (1995)	4.7#		95 jts		
PBTD	3,030 ft CICR					

Cement

Type	Type III	
Yield	1.37	Bbl/sx
Water	6.64	Gal/sx
Weight	14.8	PPG
pTotal Job Cmt	276	SX
Total Cmt Water	44	Bbl
Csg Vol Water	89.8	Bbl

Rig History:

- Drilled in 1993: Mesa Verde and Dakota formations were completed. Through packer testing, all MV perms were sqz'd and 2 of 3 DK zones were sqz'd. The upper DK zone was left open.
- Drilling: Found 4.5" csg leak at 200'. Free point & chemical cut csg out. Landed 4.5" Bowen csg patch at 200'.
- Recomplete in 1994 P&A'd the wellbore from Dakota to the Chacra formation. The Chacra was squeezed before completion for isolation. PBTD is a CICR at 3,030'.
- Minimal cement behind 4.5" csg above Chacra formation top to surface. DV tool at 1,770'.

Slickline: Possible FISH stuck in tbg seat nipple (bumper spring- possibly floating BS) at 2965' since 2020'.

Logs: 2 CBLs from 1994 recomplete work for Chacra formation

Lift Type: Plunger

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Proposed P&A Procedure

SITP: 90 psi; SICP: 95 psi; SIBP: 0 psi (4/20/21)

RIG P&A PROCEDURE:

P&A Cement: All cement plugs include 50 ft excess volumes. Due to SJ Basin cement resource limitations, Type III (6.64 gal/sx, 1.37 yld, 14.8#), Class G (5 gal/sx, 1.15 yld, 15.8#), or Type 2/5 (6.041 gal/sx, 1.27 yld, 15#) cement might be used at any point during the P&A project.

- 1) Verify rig access and that all wellhead valves are operable.
- 2) Verify slickline has cleared 2-3/8" tbg with gauge ring past EOT at 2,998'.
 - a. Pull any plunger and/or BHBS that could be in tbg. *Possible fish stuck in seat nipple.*
- 3) Move rig onto well location. Check well pressures on all casing strings and record (daily). Check well for H₂S and bleed down well or kill well as necessary.
- 4) RD wellhead and RU BOPs. Function test BOP 2-3/8" pipe and blind rams.
- 5) Release tbg hanger and TOOH with the production tbg.
- 6) MU 2-3/8" work string with 4-1/2" csg scraper and RIH. Get down to at least 2,975'. POOH.
- 7) MU 4-1/2" CIBP (3.62" running ID) and RIH. Set CICR at 2,966'.
- 8) Sting out and circulate wellbore clean.
- 9) Pressure test the casing to 550-600 psi for 10 minutes (no chart).
- 10) PLUG #1 (TOP PERF @ 3,016', Chacra TOP @ 2,943')
 - a. Sting into CICR and squeeze below with 10 sx, 2.4 BBLS of Type III, 1.37 yld, 14.8#
 - b. Sting out and pump a 100' cement balanced plug from 2,866'- 2,966' with 7 SXS, 1.7 BBLS of Type III, 1.37 yld, 14.8# cement inside the 4-1/2" csg.
 - i. *If unable to inject below CICR, place 150' cmt plug above the CICR.*
- 11) TOOH with setting tool.
- 12) WOC and tag TOC.
- 13) TOOH with tbg.
- 14) RU E-line and perf 4.5" csg at 2,070' (see collar on CBL) and confirm injection into perfs.
- 15) RIH with 4.5" CICR and set at 2,041'.
- 16) PLUG #2 (PC TOP @ 2,041')
 - a. Pump a 129' inside/outside cement plug from 1,941'- 2,070' with 37 SXS, 9 BBLS of Type III, 1.37 yld, 14.8# cement.
- 17) TOOH with tbg.
- 18) RU E-line and perf 4.5" csg at 1,842' (see collar on CBL) and confirm injection into perfs.
- 19) RIH with 4.5" CICR and set at 1,835'.
- 20) PLUG #3 (FRC TOP @ 1,835' and DV tool @ 1,770')
 - a. Pump a 172' inside/outside cement plug from 1,670'- 1,842' with 52 SXS, 12.7 BBLS of Type III, 1.37 yld, 14.8# cement.
- 21) TOOH with tbg.
- 22) RU E-line and perf 4.5" csg at 1,343' and confirm injection into perfs.
- 23) RIH with 4.5" CICR and set at 1,293'.
- 24) PLUG #4 (Kirtland TOP @ 1,293')

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Proposed P&A Procedure

- a. Pump a 150' inside/outside cement plug from 1,193' - 1,343' with 44 SXS, 10.7 BBLS of Type III, 1.37 yld, 14.8# cement.
- 25) TOOH with tbg.
- 26) RU E-line and perf 4.5" csg at 1,030' (see collar on CBL) and confirm injection into perfs.
- 27) RIH with 4.5" CICR and set at 985'.
- 28) PLUG #5 (Ojo TOP @ 985')
 - a. Pump a 145' inside/outside cement plug from 885' - 1,030' with 42 SXS, 10.2 BBLS of Type III, 1.37 yld, 14.8# cement.
- 29) TOOH with tbg.
- 30) RU E-line and perf 4.5" csg at 268'.
- 31) PLUG #6 (SURFACE & Csg shoe @ 218')
 - a. Circulate a 255' cement plug from Surface (13' KB) - 268' with 64 SXS, 15.6 BBLS of Type III, 1.37 yld, 14.8# cement inside the 4-1/2" csg and in 8-5/8" x 4.5" csg annulus.
- 32) N/D BOPE.
- 33) Cut off wellhead.
- 34) Check marker joint for correct well information and weld on P&A well marker.
- 35) Top off all casing strings and whd cellar with 15+/- sx of cement.
- 36) Release rig.

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Proposed P&A Procedure

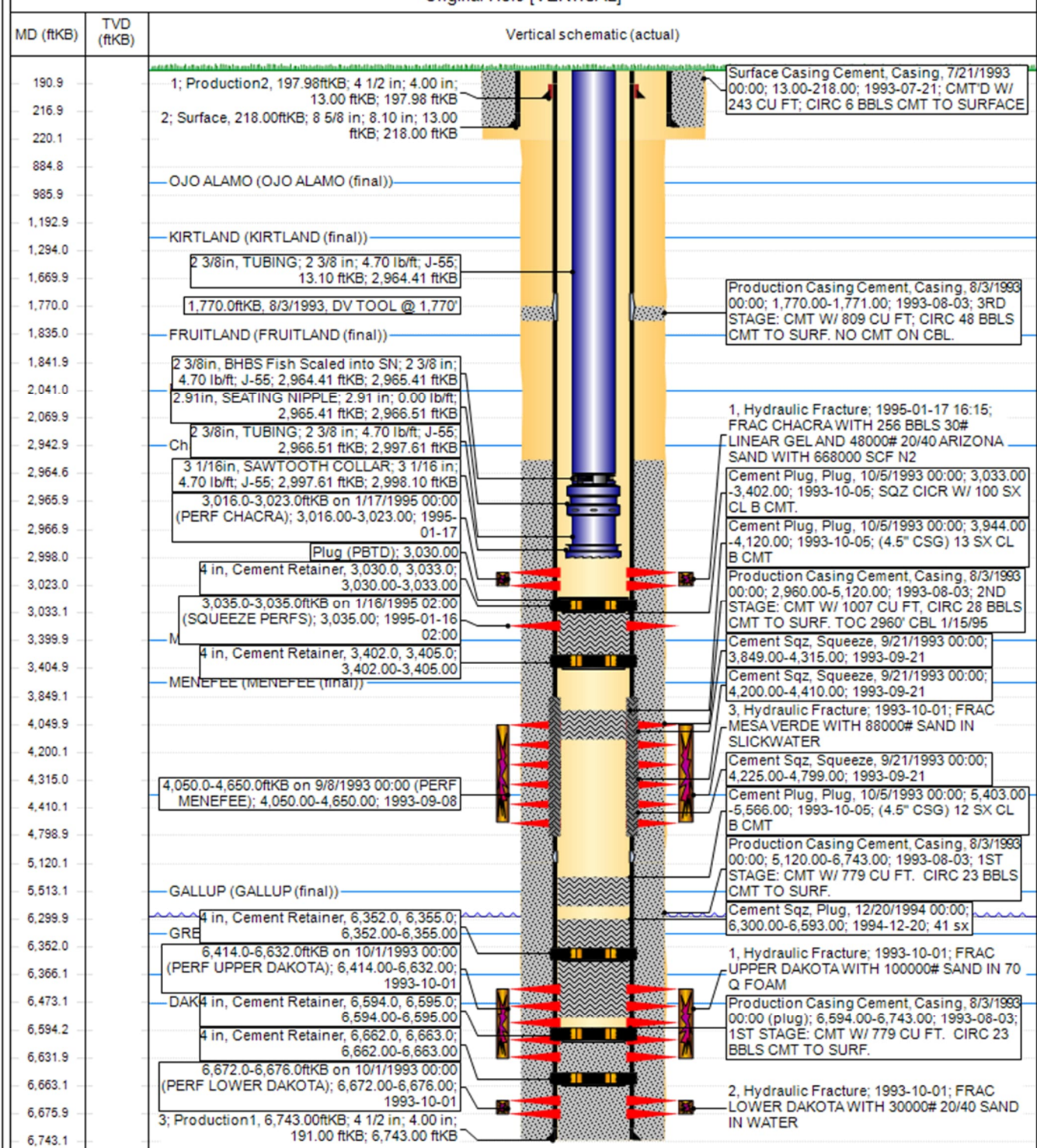


Current Schematic - Completion Comments

Well Name: HUERFANITO UNIT #82M

API / UWI 3004528977	Surface Legal Location 025-027N-009W-D	Field Name OTERO CHRA(GAS)	#0576	Route 0809	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,121.00	Original KBRT Elevation (ft) 6,134.00	RKB to GL (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		

Original Hole [VERTICAL]



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Hilcorp Energy Company

Proposed P&A Procedure



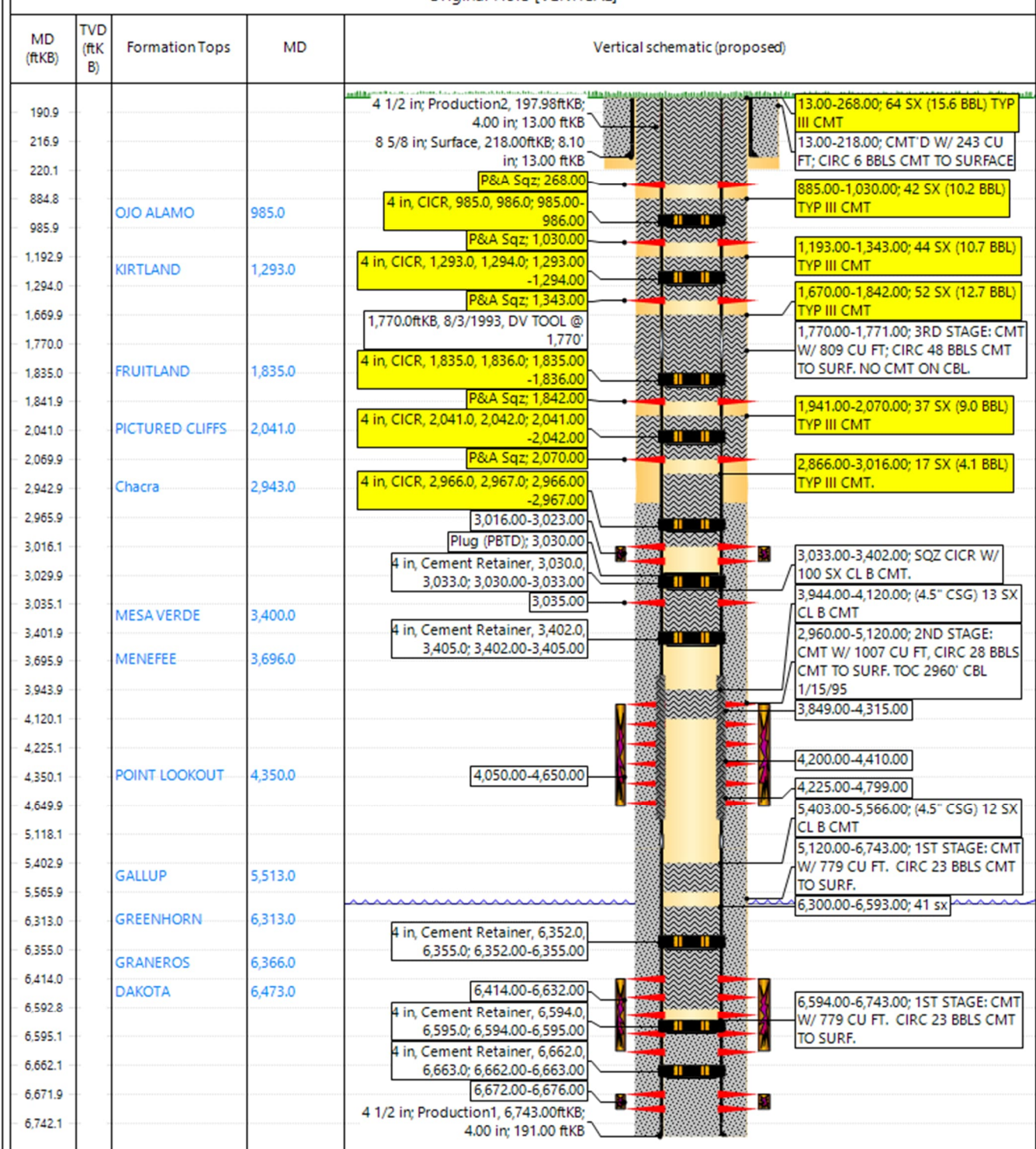
Hilcorp Energy Company

P&A Proposed Schematic

Well Name: HUERFANITO UNIT #82M

API / UWI 3004628977	Surface Legal Location 025-027N-009W-D	Field Name OTERO CHRA(GAS)	#0576	Route 0809	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,121.00	Original KBRT Elevation (ft) 6,134.00	RKB to GL (ft) 13.00		KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole [VERTICAL]



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Report Printed: 8/25/2023

Hilcorp Energy
P&A Final Reclamation Plan
Huerfanito Unit 82M
API: 30-045-28977, Lease: I149IND8473
T27N-R9W-Sec. 25-Unit D
LAT: 36.55073 LONG: -107.74531 NAD 27
Footage: 870' FNL & 850' FWL
San Juan County, NM

1. PRE- RECLAMATION SITE INSPECTION

A pre-reclamation site inspection was completed with Roger Herrera from the BLM, Laverna Jaquez from FIMO and Dale Crawford, Hilcorp Energy SJ South Construction Foreman on August 23, 2023.

2. LOCATION RECLAMATION PROCEDURE

1. Reclamation work will begin in Fall.
2. Removal of all equipment, anchors, flowlines, and pipelines.
3. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
4. BGT will be pulled and samples will be taken to the lab for results.
5. BGT pit will be backfilled once we have clean samples and permission to close.
6. Cathodic is still active on co-located wells. Leave a mound around equipment to be used on reclamation of Huerfanito Unit 93 in the future.
7. Rip compacted soil and walk down disturbed portion of well pad.
8. Pull Eastern edge fill slope to Western edge cut slope.
9. Add silt traps as needed.
10. Remove all gravel from berms, pads, and meter run and use on main road.
11. Harvest meter run and riser to be removed.

3. ACCESS ROAD RECLAMATION PROCEDURE

1. Co-located so access begins at entrance to pad.

4. SEEDING PROCEDURE

1. A BLM Standard Sagebrush seed mix will be used for all reclaimed and disturbed areas.
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.

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 9/7/2023

Well No. Huerfanito Unit 82M (API 30-045-28977)	Location	NWNW			
Lease No. I149IND8473	Sec. 25	T27N			R9W
Operator Hilcorp Energy Company	County	San Juan	State		New Mexico
Total Depth 6743'		Formation	Otero Chacra		
Elevation (GL) 6121'		Elevation (KB)	6134'		

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			985		Aquifer (possible freshwater)
Kirtland Shale			1293		
Fruitland Fm			1835		Coal/Gas/Possible water
Pictured Cliffs Ss			2041		Gas
Lewis Shale					
Chacra			2943		Gas
Cliff House Ss			3400		Water/Possible gas
Menefee Fm			3696		Coal/Ss/Water/Possible O&G
Point Lookout Ss			4350		Probable water/Possible O&G
Mancos Shale					
Gallup			5513		O&G/Water
Greenhorn			6313		
Graneros Shale			6366		
Dakota Ss			6473		O&G/Water

Remarks:

P & A

Reference Well:

-

Prepared by: Kenneth Rennick

**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.

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 263144

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 263144
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	If fish in the hole contact NMOCD prior to setting CICR at 2966 - Notify NMOCD 24 hours prior to moving rig on.	9/11/2023