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

Sundry Print Report

03/05/2024

Well Name: CANYON LARGO UNIT

Well Location: T25N / R7W / SEC 21 / NESW / 36.383301 / -107.581558

County or Parish/State: RIO ARRIBA / NM

Well Number: 174

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078879

Unit or CA Name: CANYON LARGO UNIT--PC

Unit or CA Number: NMNM78383A

US Well Number: 3003920537

Well Status: Producing Gas Well

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2776641

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 02/26/2024

Time Sundry Submitted: 09:42

Date proposed operation will begin: 03/26/2024

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 02/15/2024 with Roger Herrera / 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

2024_02_26___CANYON_LARGO_UNIT_174___P_A_NOI_20240226094147.pdf

Well Name: CANYON LARGO UNIT

Well Location: T25N / R7W / SEC 21 / NESW / 36.383301 / -107.581558

County or Parish/State: RIO ARRIBA / NM

Well Number: 174

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078879

Unit or CA Name: CANYON LARGO UNIT--PC

Unit or CA Number: NMNM78383A

US Well Number: 3003920537

Well Status: Producing Gas Well

Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

2776641_NOI_PnA_Canyon_Largo_Unit_174_3003920537_MHK_3.4.2024_20240304083020.pdf

General_Requirement_PxA_20240304083005.pdf

Canyon_Largo_Unit_No_174_Geo_Rpt_20240301145236.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: FEB 26, 2024 09:42 AM

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: 03/04/2024

Signature: Matthew Kade

HILCORP ENERGY COMPANY
CANYON LARGO UNIT 174
P&A NOI

API #:	3003920537

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. TIH w/ work string. Set a **2-7/8"** CIBP at +/- **2,200'** to isolate the **PC Perfs**.
5. Load the well as needed. Pressure test the casing above the plug set @ **2,200'** to **560 psig**.
6. RU Wireline. Run CBL. Record Top of Cement. All subsequent plugs below are subject to change pending CBL results.
7. TIH w/ tubing/work string to **+/- 2,200'**.
8. **PLUG #1: 23sx of Class G Cement (15.8 PPG, 1.15 yield); PC Perfs @ 2,250' | FRD Top @ 1,857' | KRD Top @ 1,741' | OJO Top @ 1,500':**
   Pump a 23 sack balanced cement plug inside the 2-7/8" casing (est. **TOC @ +/- 1,400'** & est. **BOC @ +/- 2,200'**).
   .
9. TIH & perforate squeeze holes @ +/- **904'**. RIH w/ **2-7/8"** CICR and set CICR @ +/- **854'**. TIH w/ work string & sting into CICR. Establish injection.
10. **PLUG #2: 41sx of Class G Cement (15.8 PPG, 1.15 yield); NAC Top @ 854':**
    Pump 36sx of cement in the 2-7/8" casing X 6-3/4" open hole annulus (est. TOC @ +/- **704'** & est. BOC @ +/- **904'**). Pump an additional 2sx of cement beneath the 2-7/8" CICR (est. TOC @ +/- **854'** & est. BOC @ +/- **904'**). Sting out of retainer, pump a 3 sack balanced cement plug on top of the CICR. (est. TOC @ +/- **754'** & est. BOC @ +/- **854'**). WOC for 4 hrs, tag WOC w/ work string. *Note cement plug lengths and volumes account for excess.
11. TIH & perforate squeeze holes @ +/- **185'**. Establish circulation.
12. **PLUG #3: 52sx of Class G Cement (15.8 PPG, 1.15 yield); Surf. Casing Shoe @ 135':**
    Pump 9sx of cement in the 2-7/8" casing X 6-3/4" open hole annulus (est. **TOC @ +/- 135'** & est. **BOC @ +/- 185'**). Continue pumping 37sx of cement in the 2-7/8" casing X 8-5/8" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 135'**). Pump a 6 sack balanced cement plug inside the 2-7/8" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 185'**). WOC for 4 hrs, tag WOC w/ work string.
13. 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
CANYON LARGO UNIT 174
P&A NOI

CANYON LARGO UNIT 174 - CURRENT WELLBORE SCHEMATIC

Hilcorp Energy Company

WBD - Current P&A

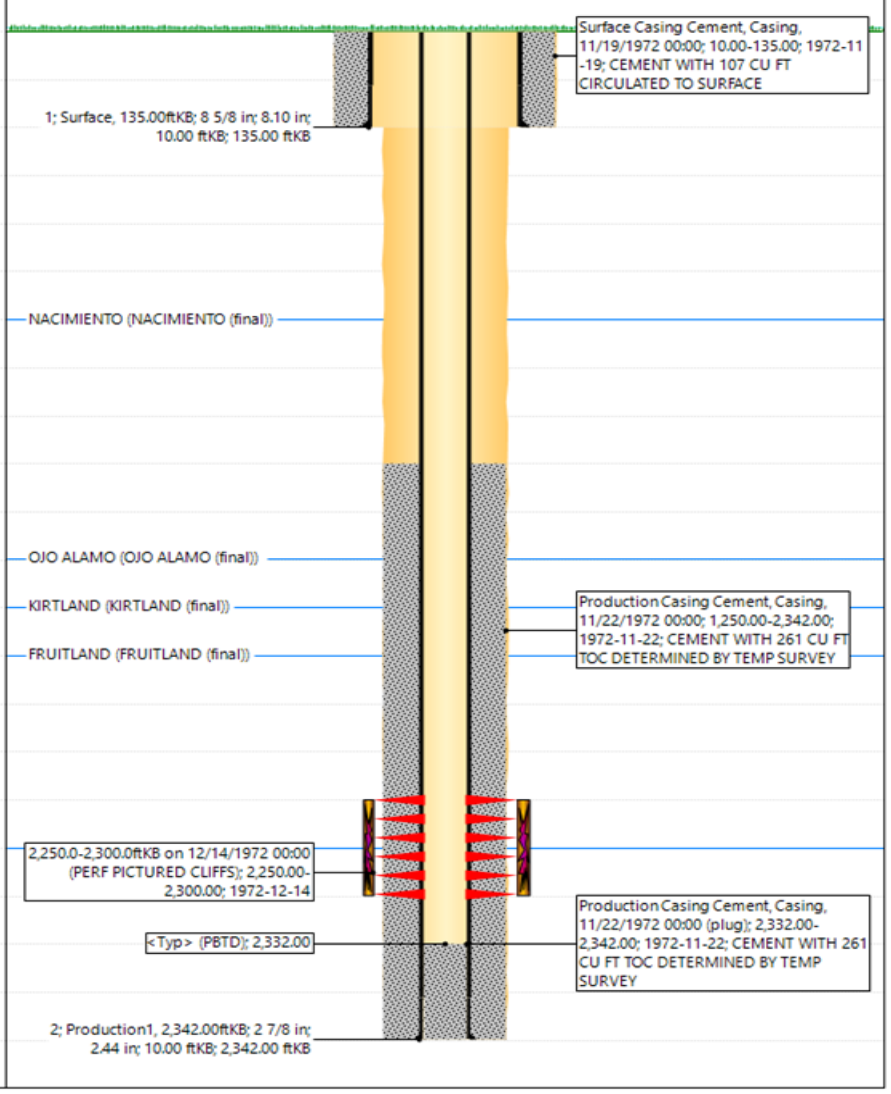
Well Name: CANYON LARGO UNIT #174

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3003920537	021-025N-007W-K	BALLARD PICTURED CLIFFS (GAS)	0910	NEW MEXICO	

Ground Elevation (ft)	Original KB/RT Elevation (ft)	RKB to GL (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,556.00	6,566.00	10.00		

Original Hole

MD (ftKB)	Formation Tops	MD
9.8		
133.9		
134.8		
165.0		
704.1		
753.9		
854.0	NACIMIENTO	854.0
856.0		
903.9		
1,250.0		
1,399.9		
1,500.0	OJO ALAMO	1,500.0
1,741.1	KIRTLAND	1,741.0
1,857.0	FRUITLAND	1,857.0
2,200.1		
2,202.1		
2,250.0		
2,251.0	PICTURED...	2,251.0
2,299.9		
2,332.0		
2,340.9		
2,341.9		



www.peloton.com Page 1/1 Report Printed: 2/20/2024

HILCORP ENERGY COMPANY
CANYON LARGO UNIT 174
P&A NOI

CANYON LARGO UNIT 174 - PROPOSED WELLBORE SCHEMATIC

Hilcorp Energy Company

WBD - Proposed P&A

Well Name: CANYON LARGO UNIT #174

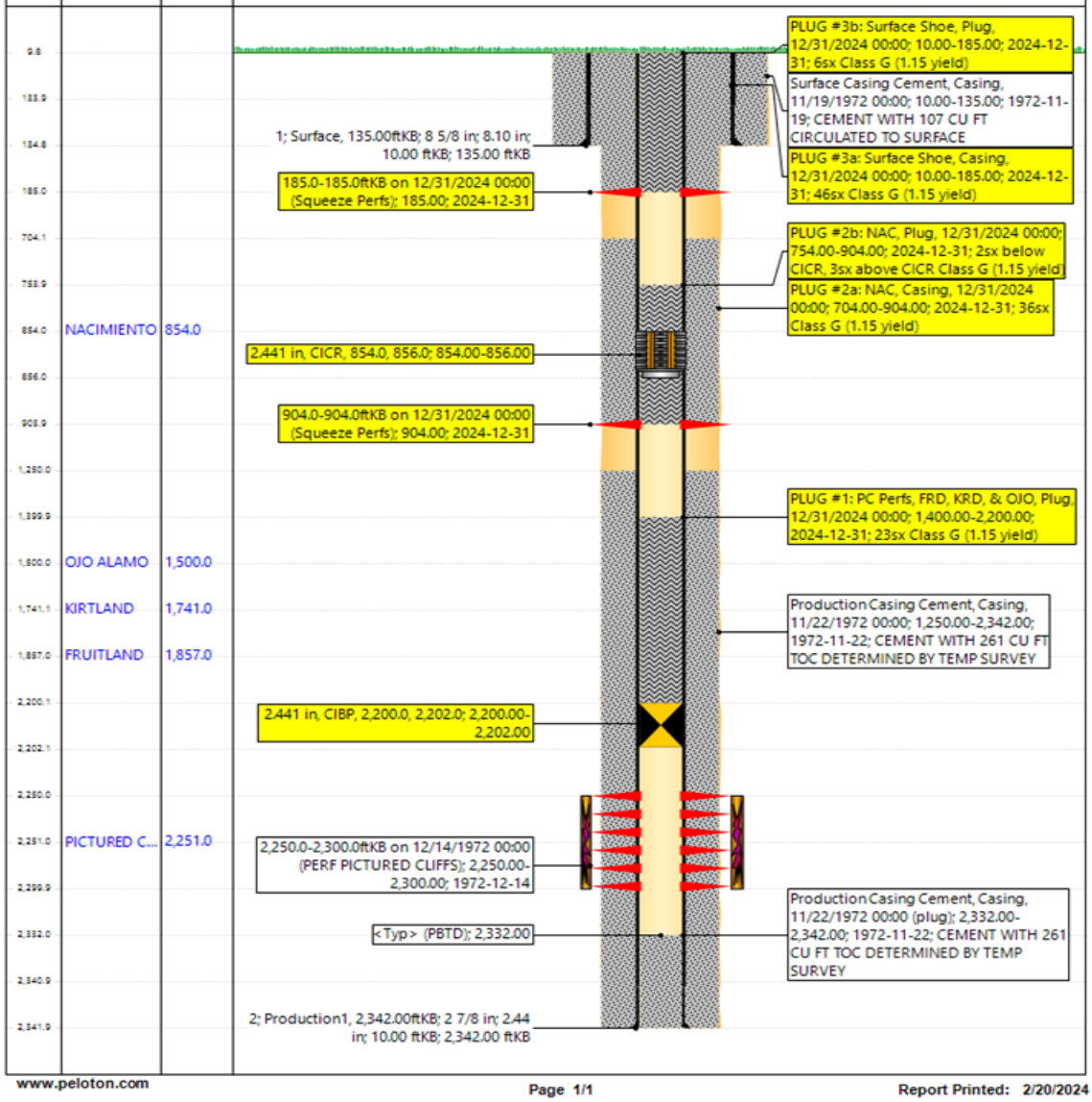
API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3003920537	021-025N-007W-K	BALLARD PICTURED CLIFFS (GAS)	0910	NEW MEXICO	

Ground Elevation (ft)	Original KB/RT Elevation (ft)	RKB to GL (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,556.00	6,566.00	10.00		

Original Hole

MD (ftKB)	Formation Tops	MD
9.8		
133.9		
134.8		
185.0		
704.1		
753.9		
854.0	NACIMIENTO	854.0
856.0		
903.9		
1,250.0		
1,399.9		
1,500.0	OJO ALAMO	1,500.0
1,741.1	KIRTLAND	1,741.0
1,857.0	FRUITLAND	1,857.0
2,200.1		
2,202.1		
2,250.0		
2,251.0	PICTURED C...	2,251.0
2,299.9		
2,332.0		
2,340.9		
2,341.9		

Vertical schematic (proposed)



www.peloton.com

Page 1/1

Report Printed: 2/20/2024

Hilcorp Energy

Canyon Largo Unit 174

36.3833, -107.58156

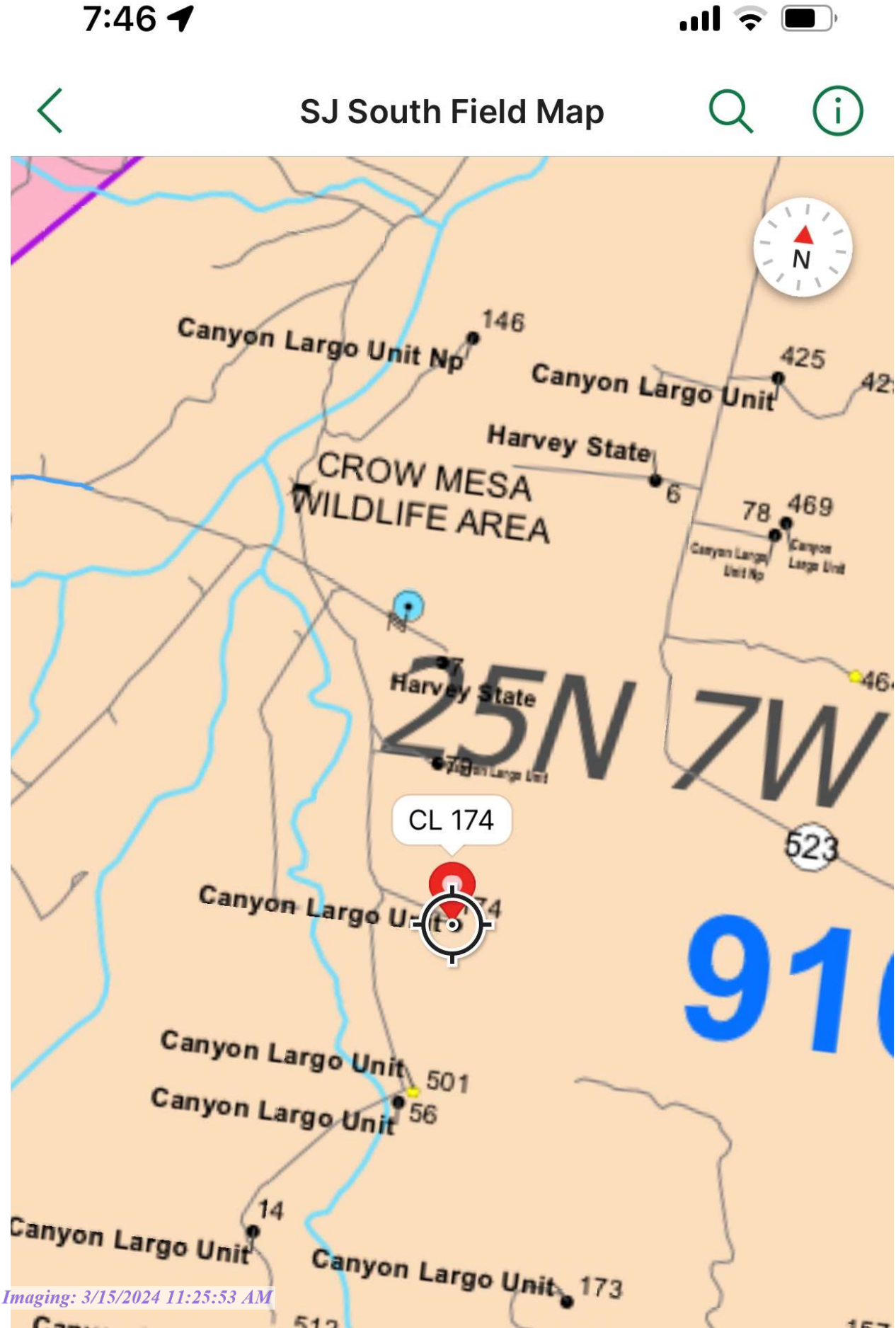
API-30-039-20537

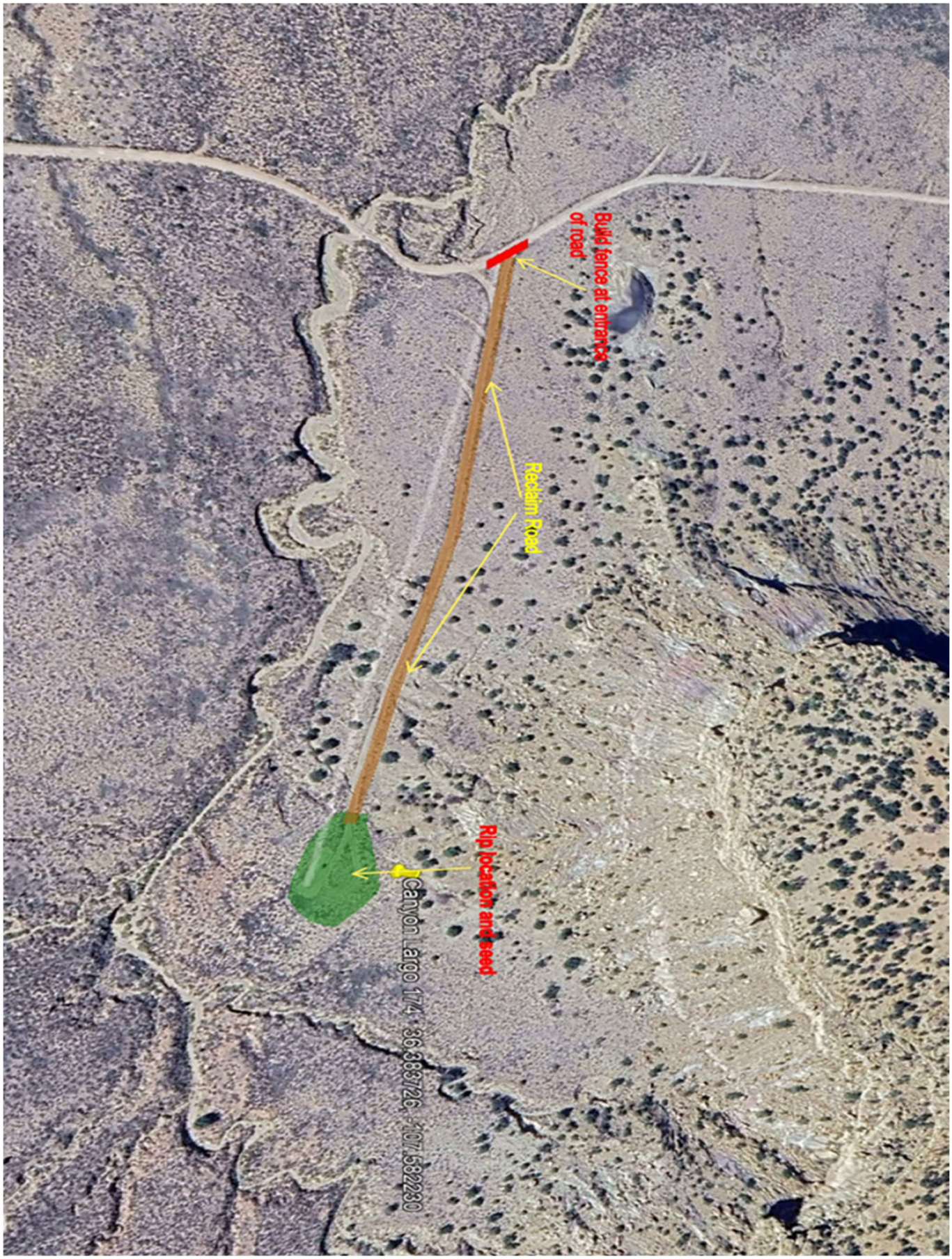
25N-07W SEC 21

Final Reclamation Plan

Onsite Completed on 2/15/2024 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. Remove piping and cables.
4. Enterprise to remove meter run and piping 50’ off location, and at dog leg.
5. Reclaim road. Pull edges of road back into road.
6. Build 3 strand Fence, with t-posts and t-Post Braces at the start of the road.
7. Rip all bare, and compacted soil, leaving rough terrain.
8. Re-seed all disturbed areas. Drill where applicable at rate per acre defined by seed mix(4 acres), and broadcast seed and harrow, at double the rate, all other disturbed areas. BLM Special seed mix will be used.


7:46
SJ South Field Map
N
Canyon Largo Unit Np
146
Canyon Largo Unit
425
Harvey State
6
CROW MESA
WILDLIFE AREA
78
469
Harvey State
25N 7W
CL 174
523
Canyon Largo Unit
501
Canyon Largo Unit
56
14
Canyon Largo Unit
Canyon Largo Unit
173


Build fence at entrance of road
Reclaim Road
Rip location and seed
Canyon Largo 174 - 36.383726, -107.582230

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 H_2S.

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 3/1/2024

Well No.	Canyon Largo Unit		# 174	Surf. Loc.	1700	FSL	1750	FWL
				Lot 1	Sec	21	T25N	R7W
Lease No.	NMSF078879							
Agrmt No	NMNM78383A							
Operator	Hilcorp Energy Co.			County	Rio Arriba		State	New Mexico
TVD	2342	PBTD	2332	Formation	Ballard Pictured Cliffs			
Elevation	GL	6556		Elevation	Est. KB	6568	(Estimated)	

Geologic Formations	Est. tops	Subsea Elev.	Remarks
San Jose Fm.	Surface		
Nacimiento Fm.	430	6138	Surface /fresh water sands
Ojo Alamo Ss	1360	5208	Fresh water aquifer
Kirtland Fm.	1741	4827	
Fruitland Fm.	1857	4711	Coal/gas/possible water
Pictured Cliffs	2251	4317	Possible gas/water

Remarks:

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

-Adjust the top of Plug 1 to 1260’ to account for the BLM geologist’s Ojo Alamo top.

-Place the CICR for Plug 2 at 430', with the squeeze holes at 480' and adjust the TOC appropriately to account for the BLM geologist's Nacimiento top.

Reference Well:

Same

Prepared by: Walter Gage

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

AFMSS 2 Sundry ID 2776641

Attachment to Notice of Intent for Plug and Abandonment

Operator: Hilcorp Energy Company
Well: Canyon Largo Unit 174 (API#30-039-20537)

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. The following modifications to your plugging program are made:

   a. Adjust Plug #1 to cover BLM Ojo Alamo formation top pick @ 1360'. Cement should be brought to a minimum of 50' above Ojo Alamo formation top (1310' – 2200').

   b. Adjust Plug #2 to cover BLM Nacimiento formation top pick @ 430'. Perforate @ 480', CICR set @ 430', and cement brought to minimum 380'.

3. **NOTIFICATION:** Farmington 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 March 5, 2025. If unable to meet 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. Estimated minimum sacks provided here include the necessary excesses.

Office Hours: 7:45 a.m. to 4:30 p.m. / M. Kade (mkade@blm.gov / 505-564-7736)

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 320130

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 320130
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Adjust plug 2 NMOCD pick for Nacimiento is 430 - Notify NMOCD 24 hours prior to moving on - Monitor string pressures daily report findings on subsequent	3/14/2024