

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

Well Name: CANYON LARGO UNIT	Well Location: T25N / R6W / SEC 1 / NENE / 36.433029 / -107.412003	County or Parish/State: RIO ARRIBA / NM
Well Number: 237	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078885	Unit or CA Name: CANYON LARGO UNIT MV"B"PA, CANYON LARGO UNIT-CH	Unit or CA Number: NMNM78383B, NMNM78383F
US Well Number: 3003920792	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2730133

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 05/10/2023

Time Sundry Submitted: 11:25

Date proposed operation will begin: 05/24/2023

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 4/4/2023 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

Canyon_Largo_Unit_237_P_A_NOI_20230510112500.pdf

Well Name: CANYON LARGO UNIT

Well Location: T25N / R6W / SEC 1 / NENE / 36.433029 / -107.412003

County or Parish/State: RIO ARRIBA / NM

Well Number: 237

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078885

Unit or CA Name: CANYON LARGO UNIT MV"B"PA, CANYON LARGO UNIT-CH

Unit or CA Number: NMNM78383B, NMNM78383F

US Well Number: 3003920792

Well Status: Producing Gas Well

Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

25N06W01AKmv_Canyon_Largo_Unit_237_20230517142623.pdf

Authorized

General_Requirement_PxA_20230517172518.pdf

2730133_NOIA_237_3003920792_KR_05172023_20230517172508.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: KANDIS ROLAND

Signed on: MAY 10, 2023 11:25 AM

Name: HILCORP ENERGY COMPANY

Title: Operation Regulatory Tech

Street Address: 382 Road 3100

City: Farmington State: NM

Phone: (505) 599-3400

Email address: kroland@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: 05/17/2023

Signature: Kenneth Rennick



HILCORP ENERGY COMPANY
Canyon Largo Com 237
NOTICE OF INTENT TO PERMANENTLY ABANDON

API #:	3003920792
---------------	------------

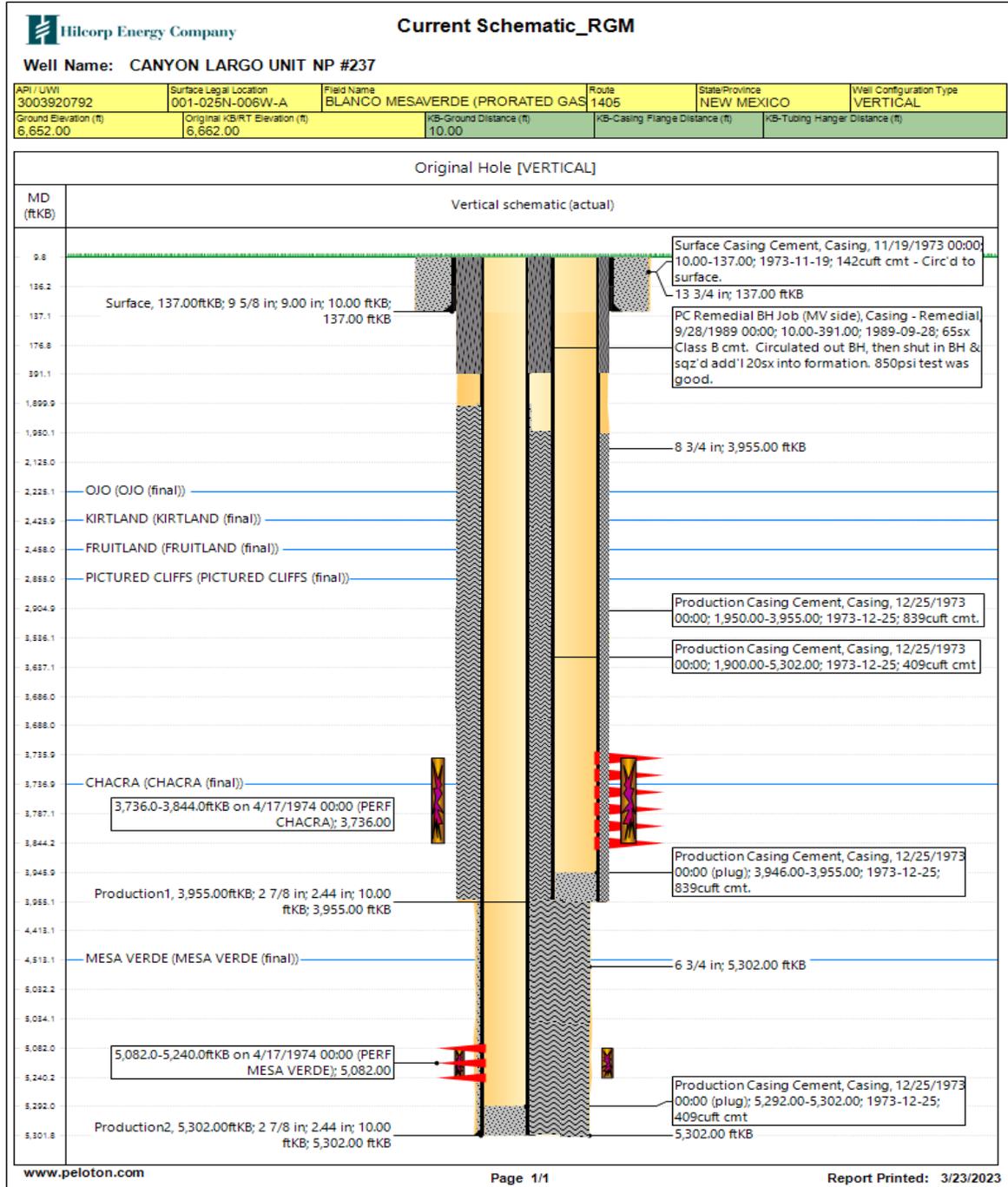
JOB PROCEDURES

- | | | |
|-------------------------------------|-------|--|
| <input checked="" type="checkbox"/> | NMOCD | Contact OCD and BLM (where applicable) 24 hrs prior to MIRU. Comply with all NMOCD, BLM (where applicable), and HEC |
| <input checked="" type="checkbox"/> | BLM | safety and environmental regulations. |
1. MIRU service rig and associated equipment, record all pressures on wellbore.
 2. Rig up to LS side (MV Completion). Load well, ND tree, NU BOPs and test.
 3. POOH w/ 1-1/4" 2.33# IJ tbg & pkr set at 5,242'
 4. MU 2-7/8" 6.5# GR, clear csg to 5,032', POOH. MU 2-7/8" 6.5# CIBP and set @ 5,032' (MV top perf @ 5,082').
 5. Load well with inhibited brine & circulate clean. Pressure test the csg to 560 psi. Monitor for 30 minutes. **Run CBL from 5,032' to surface.**
All of the following plug designs are subject to change pending CBL results.
 6. RIH w/ 1-1/4" work string to CIBP @ 5,032', tag in place.
 7. **Plug #1a | 4,413' - 5,032' (CIBP @ 5,032' | MV Top Perf: 5,082')** Pump 15sx (3.7bbl) Class III "Select" cement and spot a 619' inside plug over the CIBP.
 8. **Plug #2a | 3,637' - 3,787' (Chacra Top @ 3,737')** Pump 4sx (1.0bbl) Class III "Select" cement and spot a 150' inside plug to cover the Chacra Top.
 9. **Plug #3a | 2,125' - 2,905' (PC Top 2,855', FRD Top 2,458', KR D Top 2,426', OJO Top 2,225')** Pump 19sx (4.6bbl) Class III "Select" cement and spot a 780' inside plug over all tops.
 10. **Plug #4a | 10' - 177' (Surface Shoe @ 137')** Pump 4sx (1.0bbl) Class III "Select" cement and spot a 167' inside plug over the surface shoe.
 11. Rig up to SS side (Chacra CH Completion). Load well, ND tree, NU BOPs and test.
 12. MU 2-7/8" 6.5# GR, clear csg to 3,686', POOH. MU 2-7/8" 6.5# CIBP and set @ 3,686' (CH top perf @ 3,736').
 13. Load well with inhibited brine & circulate clean. Pressure test the csg to 560 psi. Monitor for 30 minutes. **Run CBL from 3,686' to surface.**
All of the following plug designs are subject to change pending CBL results.
 14. RIH w/ 1-1/4" work string to CIBP @ 3,736', tag in place.
 15. **Plug #1b | 3,536' - 3,686' (CIBP @ 3,686' | CH Top Perf: 3,736')** Pump 4sx (1.0bbl) Class III "Select" cement and spot a 150' inside plug over the CIBP.
 16. **Plug #2b | 2,125' - 2,905' (PC Top 2,855', FRD Top 2,458', KR D Top 2,426', OJO Top 2,225')** Pump 19sx (4.6bbl) Class III "Select" cement and spot a 780' inside plug over all tops.
 17. **Plug #3b | 10' - 177' (Surface Shoe @ 137')** Pump 4sx (1.0bbl) Class III "Select" cement and spot a 167' inside plug over the surface shoe.
 18. LD tubing. ND BOP and cut off wellhead below surface casing flange as per NMOCD. Top off cement at surface as needed. Weld new P&A maker.



HILCORP ENERGY COMPANY
Canyon Largo Com 237
NOTICE OF INTENT TO PERMANENTLY ABANDON

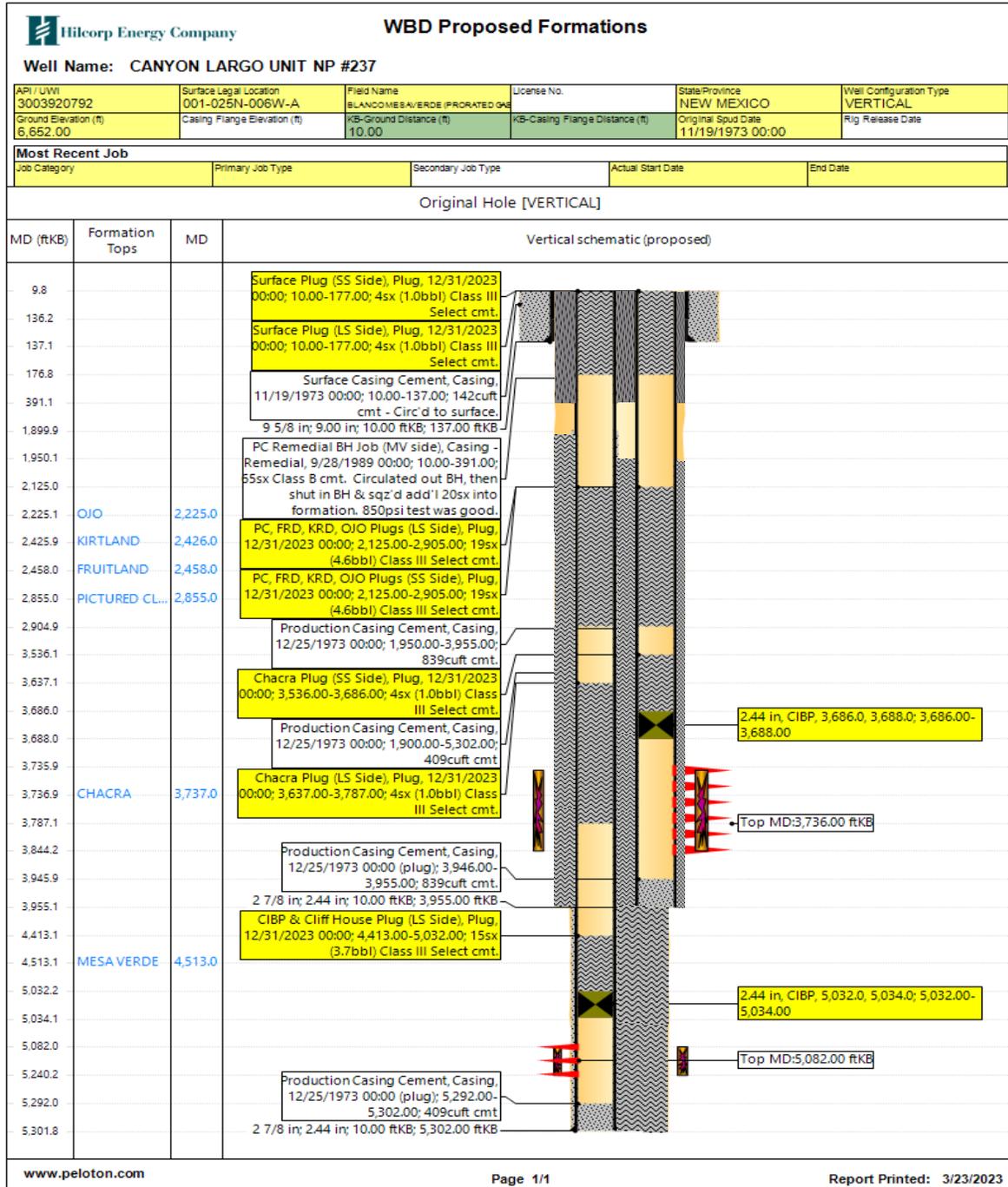
Canyon Largo Com 237 - CURRENT WELLBORE SCHEMATIC





HILCORP ENERGY COMPANY
Canyon Largo Com 237
NOTICE OF INTENT TO PERMANENTLY ABANDON

Canyon Largo Com 237 - PROPOSED P&A SCHEMATIC



Hilcorp Energy

Canyon Largo Unit 237

36.43301, -107.412

API-30-039-20792

27N-05W SEC 35

Final Reclamation Plan

Onsite Completed on 4/4/2032 with Roger Herrera

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. Enterprise to remove meter runs and piping back to dog leg.
6. Push fill from the west side of location back to cut slope on the east side, re-creating natural terrain.
7. Rip compacted soil, leaving rough terrain.
8. Re-seed all disturbed areas. Drill where applicable at rate per acre defined by seed mix(1.5 acres), and broadcast seed and harrow, at double the rate, all other disturbed areas. Pinion/Juniper seed mix will be used.

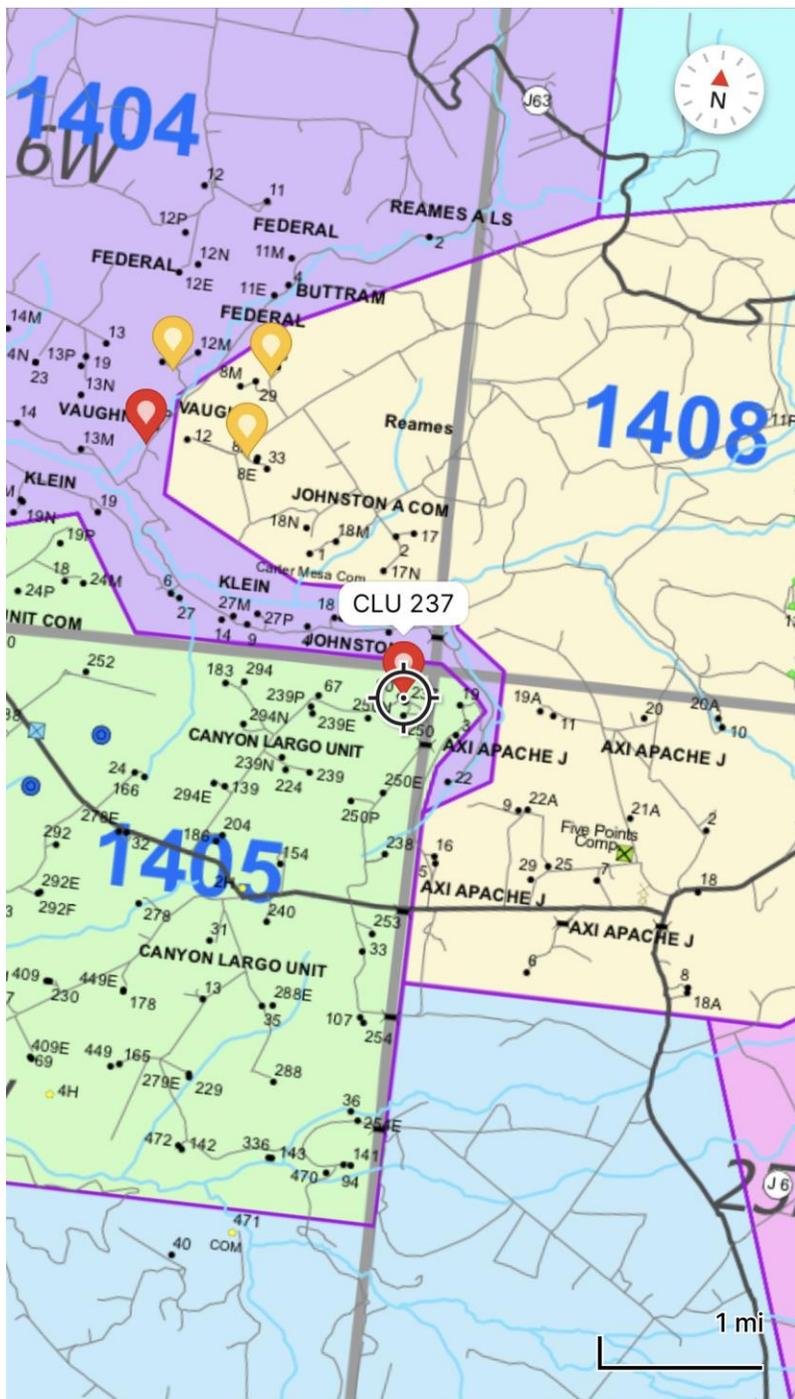


3:04

5G



SJ East Field Map-3



36.433104, -107.412262



BLM FLUID MINERALS P&A Geologic Report

Date Completed: 5/17/2023

Well No. Canyon Largo Unit #237 (API# 30-039-20792)	Location	1050	FNL	&	800	FEL
Lease No. NMSF078885	Sec. 01	T25N			R06W	
Operator Hilcorp Energy Company	County	Rio Arriba		State	New Mexico	
Total Depth 5302'	PBTD 5292'/3946'	Formation Chacra/Mesaverde				
AFMSS Sundry ID 2730133		Elevation (KB) 6657'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose			Surface	828	Surface/possible freshwater sands
Nacimiento			828	2255	Possible usable water sands
Ojo Alamo Ss			2255	2426	Aquifer (fresh to usable water)
Kirtland Shale			2426	2570	Possible gas
Fruitland			2570	2855	Coal/Gas/Water
Pictured Cliffs Ss			2855	2968	Probable Gas
Lewis Shale			2968	3737	
Chacra (lower)			3737	4513	Possible Gas
Cliff House Ss			4513	4597	Water/possible gas
Menefee			4597	5028	Coal/Ss/Water/possible gas
Point Lookout Ss			5028	PBTD	
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:

P & A

- BLM picks for the Nacimiento and Fruitland formation tops vary from Operator.
- Add a plug on both sides to cover BLM pick for the Nacimiento formation top (828').
- Chacra perfs 3736' – 3844'.
- Mesaverde (Point Lookout) perfs 5082' – 5240'.

Reference Well:

1) **Formation Tops**
Same

Prepared by: Chris Wenman

**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.

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

AFMSS 2 Sundry ID 2730133

Attachment to notice of Intention to Abandon

Well: Canyon Largo Unit 237

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 to be made:
 - a. Add a plug on both sides to cover BLM pick for the Nacimiento formation top (828').
3. 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 05/17/2023

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 218888

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 218888
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Accepted for record - NMOCD JRH 5/24/23. BLM approved P&A 5/17/23	5/24/2023