

Well Name: REID	Well Location: T28N / R9W / SEC 7 / NWSE / 36.673141 / -107.82605	County or Parish/State: SAN JUAN / NM
Well Number: 22R	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM01772A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004523136	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2730309

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 05/11/2023	Time Sundry Submitted: 08:36
Date proposed operation will begin: 05/11/2023	

**Procedure Description:** While in process of temporary abandoning the subject well a hole in casing was discovered. Hilcorp Energy Company requests permission to P&A the subject well per the attached procedures, current and proposed wellbore schematics while the rig is on location. The Pre-Disturbance Site Visit will be held after the well is P&A'd and a reclamation plan will be submitted for approval prior to reclamation activities.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Reid\_22R\_P\_A\_Procedure\_20230511083348.pdf

Accepted for record – NMOCD	
JRH	05/11/2023

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<b>US Well Number:</b> 3004523136	<b>Well Status:</b> Producing Gas Well	<b>Operator:</b> HILCORP ENERGY COMPANY

Conditions of Approval

Specialist Review

General\_Requirement\_PxA\_20230511090329.pdf  
28N09W07JKd\_Reid\_022R\_20230511090319.pdf  
2730309\_NOIA\_22R\_3004523136\_KR\_05112023\_20230511090312.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 11, 2023 08:34 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:** 05/11/2023  
**Signature:** Kenneth Rennick

**Hilcorp Energy Company****Proposed P&A Procedure****Well: Reid 22R**

API: 30-045-23136

Date: 5/11//2023

Engr: M Wissing

Surface: BLM

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Wellbore		Wt #	ID	Bottom (ft)	Bbl/ft	Drill Bit
SPUD	8/4/1978					
KB (ft)	12 ft					
Surface Casing	9-5/8"	36#	8.92	233'	0.07725	12-1/4"
Int. Casing	7"	23#	6.37	2,320'	0.03940	8-3/4"
Csg Annular	8.92" x 7"	-	-	-	0.02970	
				2,088'-		
Prod. Liner	4-1/2"	10.5#	4.05	6,593'	0.01593	6-1/4"
Csg x Open hole	6.25" x 4.5"	-	-	-	0.01830	
Tubing	none					
PBTD	6,593'					

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**Cement**


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Type	Type III	
Yield	1.37	Bbl/sx
Water	6.64	Gal/sx
Weight	14.8	PPG
Total Job Cmt	276	SX
Total Cmt Water	1832.64	Gal
Csg Vol Water	253.1	Bbl

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***Lift Type: Plunger******Historic Braden Head Pressure: 11 psi******Rig History: CBL and tbg swap in 2018.******Slickline: multiple slickline tools stuck in tbg string after being replaced in 2018******Logs: Temp survey for 7" csg and CBL ran on 4.5" csg in 2018***

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### Proposed P&A Procedure

**P&A Cement:** All cement plugs include 50 ft excess volumes. Due to SJ Basin cement resource limitations, either Class G (5.0 gal/sx, 1.15 yld, 15.8#) or Type 2/5 (6.041 gal/sx, 1.29 yld, 15#) cement might be used at any point during the P&A project.

#### RIG P&A PROCEDURE:

*\*P&A procedure follows a failed MIT during the Temporary Abandonment NOI. A 4.5" CIBP was set at 6,425' and then failed a pressure test. Ran a 4.5" packer and found the 4.5" csg to be leaking. The 7" csg passed a pressure test.*

- 1) RU E-line and MU CBL tool string. RIH and log entire 7" csg from liner top to surface. Review CBL with BLM and NMOCDC to adjust cement plugs.
- 2) RIH with work string to **4.5" CIBP at 6,425'**.
- 3) **PLUG #1 (TOP Dakota Perf @ 6,471', DK TOP @ 6,521')**
  - a. Pump a 150' cement balanced plug from 6,275' - 6,425' with 10 SXS, 2.4 BBLS of Type III (1.37 yld, 14.8#) cmt inside the 4-1/2" csg.
- 4) TOOH with tbg to 5,618'.
- 5) **PLUG #2 (GALLUP TOP @ 5,568')**
  - a. Pump a 150' cement balanced plug from 5,468' - 5,618' with 10 SXS, 2.4 BBLS of Type III (1.37 yld, 14.8#) cmt inside the 4-1/2" csg.
- 6) TOOH with tbg.
- 7) RU E-line and MU perf guns. RIH and perf 4-1/2" csg at **4,775'**. Verify injection into perfs.
- 8) MU 4-1/2" CICR and RIH. Set CICR at **4,725'**.
- 9) **PLUG #3 (MANCOS TOP @ 4,725')**
  - a. Pump a 150' cement inside/outside plug from 4,625' - 4,775' with 25 SXS, 6.1 BBLS of Type III (1.37 yld, 14.8#) cmt for the 4-1/2" csg.
  - b. Sqz 18.3 sx and balance 6.6 sx.
- 10) TOOH with tbg.
- 11) RU E-line and MU perf guns. RIH and perf 4-1/2" csg at **3,677'**. Verify injection into perfs.
- 12) MU 4-1/2" CICR and RIH. Set CICR at **3,627'**.
- 13) **PLUG #4 (Mesa Verde TOP @ 3,627')**
  - a. Pump a 150' cement inside/outside plug from 3,527' - 3,677' with 25 SXS, 6.1 BBLS of Type III (1.37 yld, 14.8#) cmt for the 4-1/2" csg.
  - b. Sqz 18.3 sx and balance 6.6 sx.
- 14) TOOH with tbg.
- 15) RU E-line and perf csg at **3,097'**. Attempt injection rate into perfs.
- 16) RIH with 4-1/2" CICR and set at **3,047'**.
- 17) **PLUG #5 (CHACRA TOP @ 3,047')**
  - a. Pump a 150' cement inside/outside plug from 2,947' - 3,097' with 25 SXS, 6.1 BBLS of Type III (1.37 yld, 14.8#) cmt for the 4-1/2" csg.
  - b. Sqz 18.3 sx and balance 6.6 sx.
- 18) TOOH with tbg.

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### Proposed P&A Procedure

- 19) RU E-line and perf csg at **2,370'**. Attempt injection rate into perfs.
- 20) RIH with 4-1/2" CICR and set at **2,320'**.
- 21) **PLUG #6 (7" Casing Shoe @ 2,320')**
  - a. Pump a 150' cement inside/outside plug from 2,220' – 2,370' with 19 SXS, 4.7 BBLS of Type III (1.37 yld, 14.8#) cmt for the 4-1/2" csg.
  - b. Sqz 12 sx and balance 7 sx.
- 22) TOOH and LD CICR setting tool. RIH with work string to 2,138'.
- 23) **PLUG #7 (PC TOP @ 2,020', Liner top @ 2,088')**
  - a. Pump a 220' cement balanced plug from 1,920' - 2,138' with 32 SXS, 7.8 BBLS of Type III (1.37 yld, 14.8#) cmt inside both the 4-1/2" csg and 7" csg.
- 24) TOOH with tbg to 1,549'.
- 25) **PLUG #8 (FRC TOP @ 1,499')**
  - a. Pump a 150' cement balanced plug from 1,399' - 1,549' with 25 SXS, 6.1 BBLS of Type III (1.37 yld, 14.8#) cmt inside the 7" csg.
- 26) TOOH with tbg to 1,177'.
- 27) **PLUG #9 (OJO TOP @ 1,055', Kirtland TOP @ 1,127')**
  - a. Pump a 222' cement balanced plug from 955' - 1,177' with 36 SXS, 8.8 BBLS of Type III (1.37 yld, 14.8#) cmt inside the 7" csg.
- 28) TOOH with tbg.
- 29) RU E-line and perf csg at **283'**. Attempt circulation to surface through perfs.
- 30) **PLUG #10 (SURFACE csg shoe @ 233')**
  - a. Circulate a 271' cement plug from 12'-283' with 77 SXS, 18.8 BBLS of Type III (1.37 yld, 14.8#) cmt inside the 7" csg and 9-5/8" x 7" annulus.
- 31) N/D BOPE.
- 32) Cut off wellhead.
- 33) Check marker joint for correct well information and weld on P&A well marker.
- 34) Top off all casing strings and whd cellar with 12+/- sx of cement.
- 35) Release rig.

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## Proposed P&A Procedure

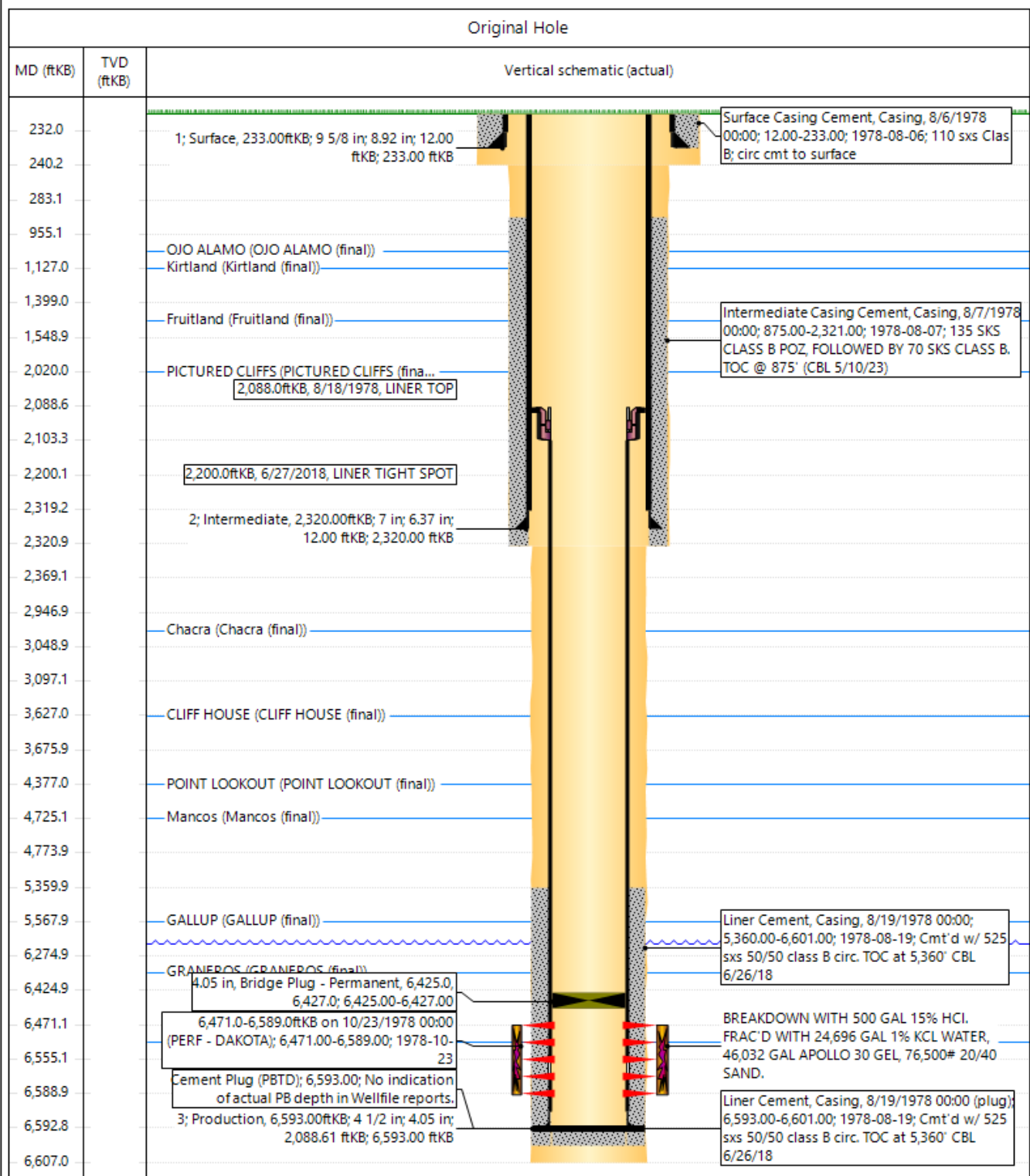


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### Current Schematic - Completion Comments

Well Name: REID #22R

API / UWI 3004623136	Surface Legal Location 007-028N-009W-J	Field Name BASIN DAKOTA (PRORATED GAS)	Route 0807	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,813.00	Original KB/RT Elevation (ft) 5,825.00	KB-Ground Distance (ft) 12.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	



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# Hilcorp Energy Company

## Proposed P&A Procedure

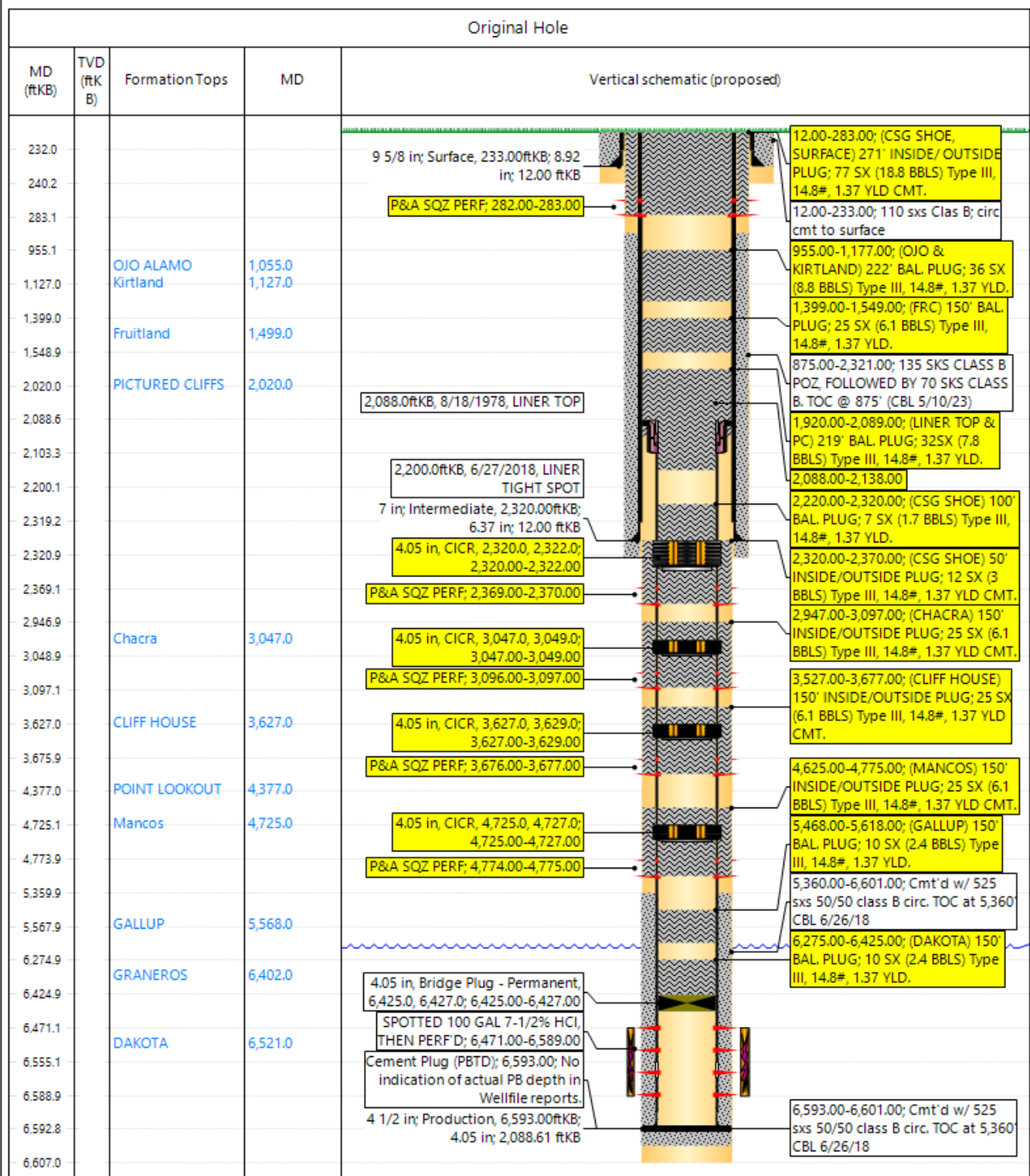


Hilcorp Energy Company

### P&A Proposed Schematic

Well Name: REID #22R

API / UWI 3004523136	Surface Legal Location 007-028N-009W-J	Field Name BASIN DAKOTA (PRORATED GAS)	Route 0807	State/Province NEW MEXICO	Well Configuration Type
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**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<sub>2</sub>S.

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 FLUID MINERALS P&A Geologic Report

**Date Completed:** 5/10/2023

Well No. Reid #022R (API# 30-045-23136)	Location	1480	FSL	&	1630	FEL
Lease No. NMNM01772A	Sec. 7	T28N			R09W	
Operator Hilcorp Energy Company	County	San Juan			State	New Mexico
Total Depth 6607'	PBTD 6593'	Formation Dakota				
Elevation (GL)		Elevation (KB) 5825'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento			Surface	1055	Surface/possible freshwater sands
Ojo Alamo Ss			1055	1127	Aquifer (possible freshwater)
Kirtland Shale			1127	1499	Possible gas
Fruitland			1499	2020	Coal/Gas/Water
Pictured Cliffs Ss			2020	2100	Probable Gas
Lewis Shale			2100	3047	
Chacra (lower)			3047	3627	Probable Gas
Cliff House Ss			3627	3760	Gas
Menefee			3760	4377	Gas
Point Lookout Ss			4377	4725	Gas
Mancos Shale			4725	5568	O&G
Gallup			5568	6340	O&G
Greenhorn			6340	6402	
Graneros Shale			6402	6521	O&G
Dakota Ss			6521	PBTD	O&G
Morrison					

Remarks:

P & A

- BLM pick for the Gallup formation top varies from Operator.
- Dakota perfs 6471' – 6589'.

Reference Well:

1) **Formation Tops (Dakota – Chacra)**  
Same

2) **Formation Tops (Lewis – Surface)**

Hilcorp Energy Company  
Reid #014  
30-045-07570  
Sec. 7, T28N, R09W  
5838' KB elev.

Prepared by: Chris Wenman

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

AFMSS 2 Sundry ID 2730309

Attachment to notice of Intention to Abandon

Well: Reid 22R

**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 5/11/2023

**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 215888

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 215888
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	None	5/11/2023