

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

Well Name: BALLARD	Well Location: T26N / R9W / SEC 15 / SWSE / 36.483582 / -107.773117	County or Parish/State: SAN JUAN / NM
Well Number: 9	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM03154	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004505824	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2717383

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 02/23/2023

Time Sundry Submitted: 09:21

Date proposed operation will begin: 04/01/2023

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 2/21/2023 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

Ballard_9_P_A_Procedure_20230223092052.pdf

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Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

Ballard_9_Geo_Rpt_20230316150828.pdf

Authorized

General_Requirement_PxA_20230321090243.pdf

2717383_NOIA_9_3004505824_KR_03212023_20230321090219.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: AMANDA WALKER

Signed on: FEB 23, 2023 09:21 AM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST.

City: HOUSTON State: TX

Phone: (346) 237-2177

Email address: mwalker@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: 03/21/2023

Signature: Kenneth Rennick

Hilcorp Energy Company

Proposed P&A Procedure

Well: Ballard #9

API: 30-045-05824

Date: 2/21/2023

Engr: M Wissing

Surface: BLM

Wellbore		Wt #	ID	Bottom (ft)	Bbl/ft	Drill Bit
SPUD	8/2/1954					
KB (ft)	10					
Surface Casing	8-5/8"	24 #	8.1	98'	0.06370	12-1/4"
Inter. Casing	5-1/2"	14#	5.01	1972	0.02437	7-7/8"
Int Csg x Open hole	7.875 x 5.5"				0.03090	
Production Casing	3-1/2"	7.7#, 9.2#	3.07	2104	0.00915	4-3/4"
Int Csg Annular	8.1 X 5.5	-	-	-	0.03440	
Tubing	none					
PBTD	2,098'					

Cement

Type	Class G	
Yield	1.15	bbl/sx
Water	5	gal/sx
Weight	15.8	PPG
Total Job Cmt	147	SX
Total Cmt Water	735	Gal
Csg Vol Water	17.6	Bbl

Lift Type: intermittent

SICP/ SIIP: 19 psi / 0 psi

Historic Braden Head Pressure: 0 psi (6/21)

Rig History: wellbore deepened with 3-1/2" csg in 1997

Slickline: none

CBL Logs: none

Hilcorp Energy Company

Proposed P&A Procedure

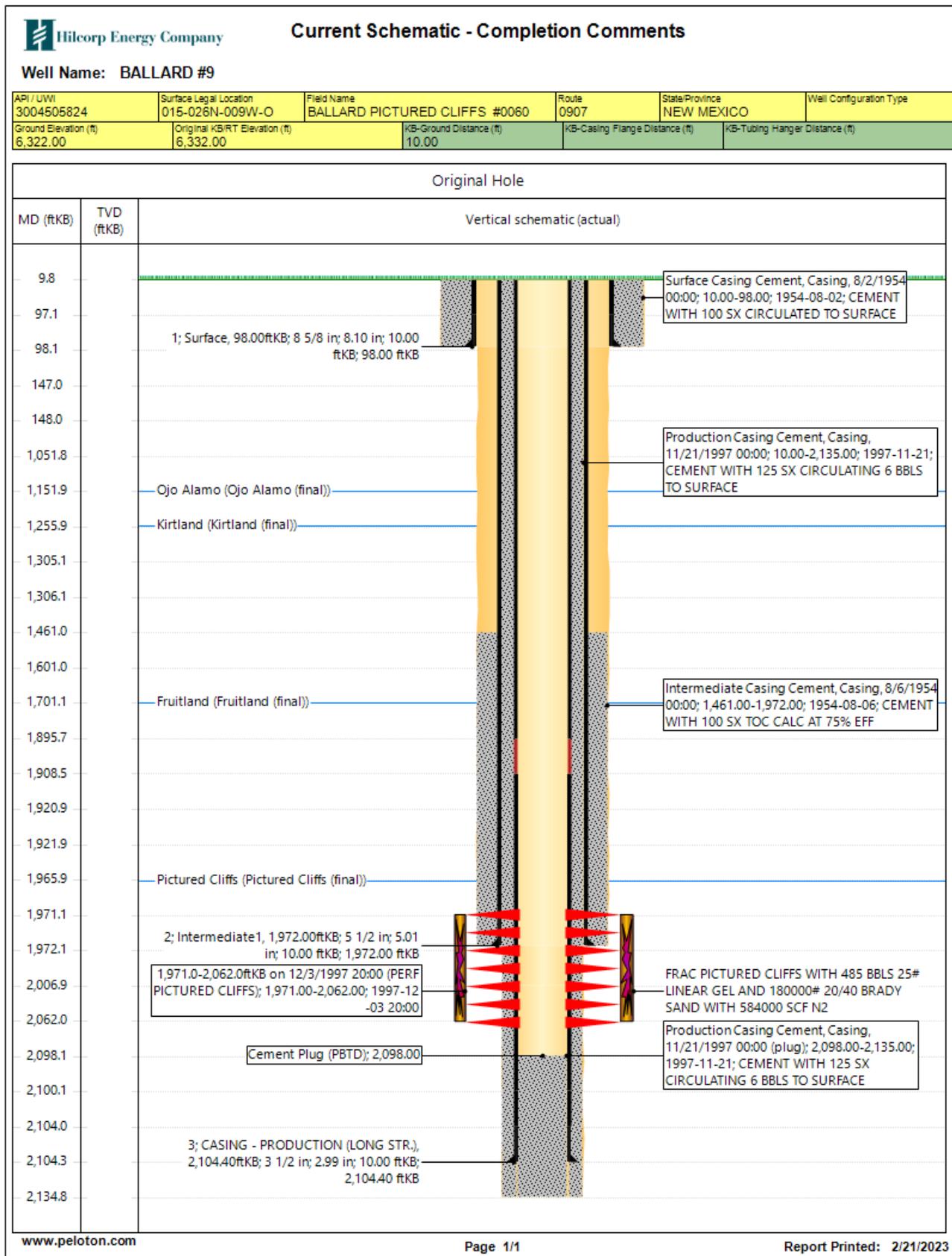
P&A Cement: All cement plugs include a 50 ft excess volume. Due to SJ Basin cement resource limitations, either Type III (6.64 gal/sx, 1.37 yld, 14.8#) or Type 2/5 (6.041 gal/sx, 1.27 yld, 15#) cement might be used at any point during the P&A project.

RIG P&A PROCEDURE:

- 1) Verify all wellhead valves are operatable and location is accessible for P&A rig.
- 2) RU slickline and attempt to clear the 3.5" csg string.
- 3) Move onto well location. Check well pressures on all casing strings and record (daily). Check well for H₂S and blow down well as necessary.
- 4) RD wellhead and RU BOPs. Function test BOP 1-1/4" pipe and blind rams.
- 5) RU E-line and MU 3.5" GR. RIH and clear csg down to 1,930'.
- 6) MU 3.5" CIBP and RIH. Set at **1,921'**.
- 7) Load casing with water and pressure test csg to 550 psi to verify integrity.
- 8) RIH with work string to CIBP.
- 9) **PLUG #1 (PC TOP @ 1,966'; PC top perf @ 1,971', FRC TOP @ 1,701')**
 - a. Pump a 320' cement balanced plug from 1,601' - 1,921' with 15 SXS, 3.1 BBLS of Class G, 1.15 yld, 15.8# cement inside the 3-1/2" csg.
- 10) TOOH with tbg.
- 11) MU perforating gun. RIH and perf through 3-1/2" & 5-1/2" csgs at **1,306'**.
- 12) RIH with 1-1/4" work string.
- 13) **PLUG #2 (OJO TOP @ 1,152', KIRTLAND TOP @ 1,256')**
 - a. Pump a 254' cement plug from 1,052' - 1,306' with 89 SXS, 18.3 BBLS of Class G, 1.15 yld, 15.8# cement inside the 3-1/2" csg and in OH of 5-1/2" csg.
 - b. Install a 3-1/2" CICR if able to locate the plug.
- 14) TOOH with tbg.
- 15) WOC and tag TOC if required.
- 16) RU E-line and perf 3-1/2" & 5-1/2" csgs at 148'. Attempt circulation rate with perfs to surface.
- 17) **PLUG #3 (CSG SHOE @ 98')**
 - a. Circulate a 138' cement plug from 10' - 148' with 31 SXS, 6.3 BBLS of Class G, 1.15 yld, 15.8# cement inside the 3-1/2" csg and 8-5/8" x 5-1/2" csg annulus.
- 18) N/D BOPE.
- 19) Cut off wellhead.
- 20) Check marker joint for correct well information and weld on P&A well marker.
- 21) Top off all casing strings and whd cellar with 12+/- sx of cement.
- 22) Release rig.

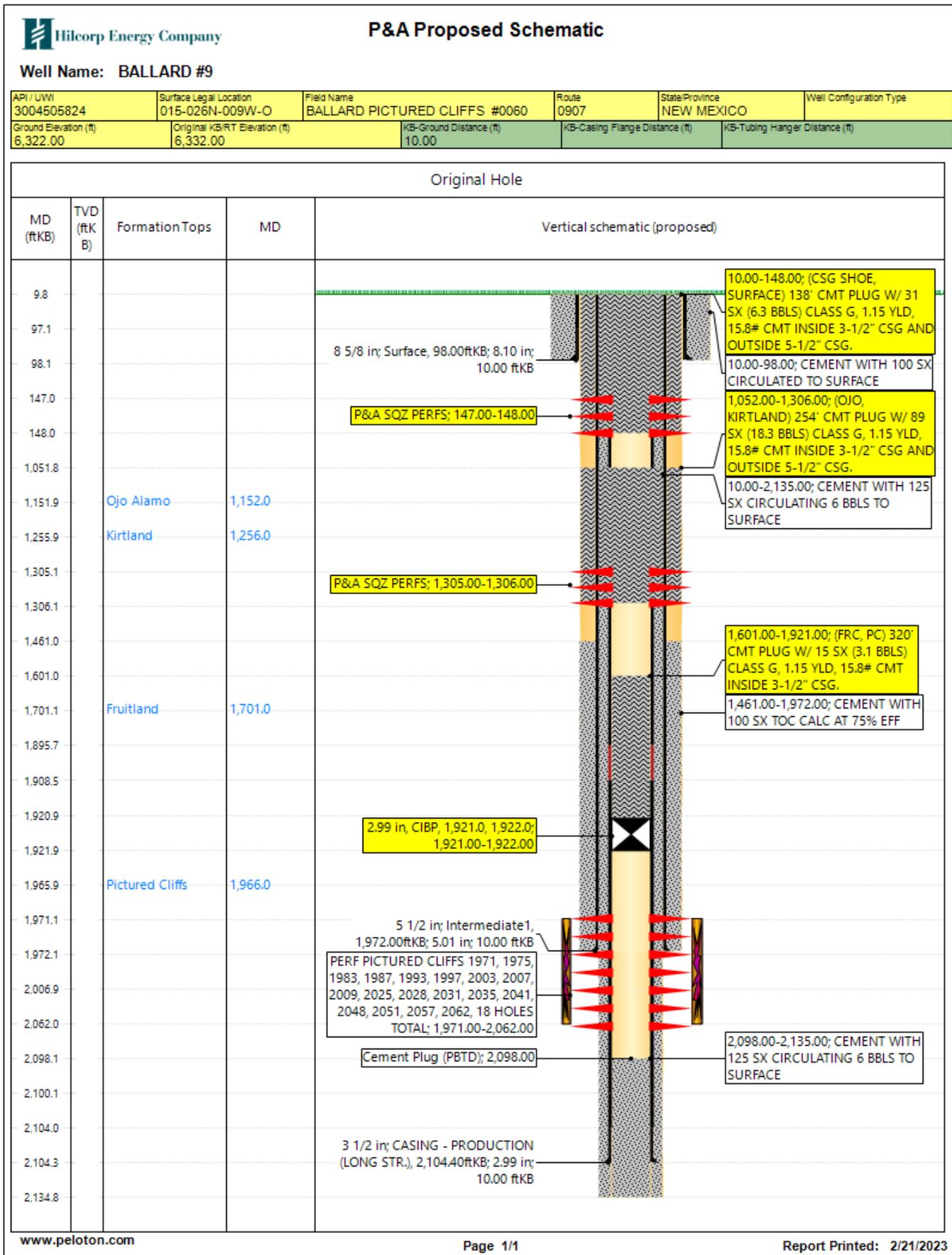
Hilcorp Energy Company

Proposed P&A Procedure



Hilcorp Energy Company

Proposed P&A Procedure



Hilcorp Energy
P&A Final Reclamation Plan
Ballard 9
API: 30-045-05824
T26N-R9W-Sec. 15-Unit O
LAT: 36.48358 LONG: -107.77312 NAD 27
Footage: 990' FSL & 1800' FEL
San Juan County, NM

1. PRE- RECLAMATION SITE INSPECTION

A pre-reclamation site inspection was completed with Roger Herrera from the BLM and Eufracio Trujillo, Hilcorp Energy SJ South Construction Foreman on February 21, 2023.

2. LOCATION RECLAMATION PROCEDURE

1. Reclamation work will begin in summer.
2. Removal of all equipment, anchors, flowlines, cathodic, and pipelines.
3. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
4. Check on BGT permit status.
5. Close out BGT on location when results permit if needed.
6. Remove line drip and test. Dispose of properly.
7. Rip compacted soil and walk down disturbed portion of well pad.
8. Pull Northern edge towards Southern edges.
9. install diversion ditch along edge of pad to leave in road.
10. Add silt traps if needed.
11. Remove all gravel from berms, pads, and meter run and use on lease road where needed.
12. Enterprise meter run will be removed out of their ROW. Remove riser if possible.

3. ACCESS ROAD RECLAMATION PROCEDURE

1. The well access road will be left in due to access for well past this pad.

4. SEEDING PROCEDURE

1. A Sagebrush seed mix will be used for all reclaimed and disturbed areas of the well pad and lease road.
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.

**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 2717383

Attachment to notice of Intention to Abandon

Well: Ballard 9

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. Adjust Plug 1 to 2023' to 1473' to account for the BLM formation tops.
 - b. Adjust Plug 2 to 1323' to 1063' to account for the BLM formation tops.
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 03/21/2022

BLM - FFO - Geologic Report

Date Completed 3/16/2023

Well No. Ballard 9 Surf. Loc. 990 FSL 1800 FEL
 Sec. 15 T26N R9W

Lease No. NMNM 03154
 Operator Hilcorp County San Juan State New Mexico
 TD 2135 PBDT 2135 Formation Pictured Cliffs
 Elevation GL 6322 Elevation Est. KB 6332

Geologic Formations Est. tops Subsea Elev. Remarks

Nacimiento Fm.	Surface	5891	Surface /fresh water sands
Ojo Alamo Ss	1163	5169	Aquifer (fresh water)
Kirtland Fm.	1273	5059	
Fruitland Fm.	1573	4759	Coal/gas/possible water
Pictured Cliffs	1973	4359	Possible water
Lewis Shale	2063	4269	

Remarks:

-Adjust Plug 1 to 2023' to 1473' to account for the BLM formation tops.
 -Adjust Plug 2 to 1323' to 1063' to account for the BLM formation tops.

Reference Well:

Morningstar Operating LLC
 Ballard 9
 1500' FSL, 800' FEL
 Sec 15, T26N, R9W
 GL= 6285, KB= 6299

Prepared by: Walter Gage

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 199959

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 199959
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	3/24/2023
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	3/24/2023
kpickford	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	3/24/2023