

Well Name: ARNIE	Well Location: T30N / R13W / SEC 25 / SWNE / 36.786626 / -108.154156	County or Parish/State: SAN JUAN / NM
Well Number: 3	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078213	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004529688	Well Status: Gas Well Shut In	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2653611

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 01/21/2022	Time Sundry Submitted: 05:58
Date proposed operation will begin: 02/01/2022	

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedure, current & proposed wellbore schematics. The Pre-Disturbance Site Visit was held on 1/18/2022 with Bob Switzer/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

Arnie_3_P_A_NOI_20220121055745.pdf

Received by OCD: 3/4/2022 7:42:52 AM

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Conditions of Approval

Additional Reviews

General_Requirement_PxA_20220303180018.pdf
2653611_NOIA_3_3004529688_KR_03032022_20220303180005.pdf
30N13W25GKpc_Arnie_3_20220303153729.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: AMANDA WALKER

Signed on: JAN 21, 2022 05:58 AM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST.

City: HOUSTONState: TX

Phone: (346) 237-2177

Email address: mwalker@hilcorp.com

Field Representative

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: 03/03/2022

Signature: Kenneth Rennick



P&A Procedure

General Information			
Well Name	Arnie #3	Date:	1/19/22
API:	30-045-29688	AFE #	
Field:	San Juan	County	San Juan
Status:	Well is ACOI		
Subject:	Permanently P&A wellbore		
By:	M. Wissing		

Well Data

Surface Casing: 7" 23# J-55 at 500'

Production Casing: 4-1/2" J-55 10.5# at 2,042'

Production Tubing: 2-3/8" J-55 4.7# Falcon Polycore at 1,908'

Rod String: 3/4" rods w/ insert rod pump (1.5" x 1.25" x 12' RWBC)

Current Perforations: 11,843'-1,857'

Current PBTD: 1,998' (cement plug)

SICP = 6 psig

Notes: Historic notes of scale on the rod pump and polycore coating failures.

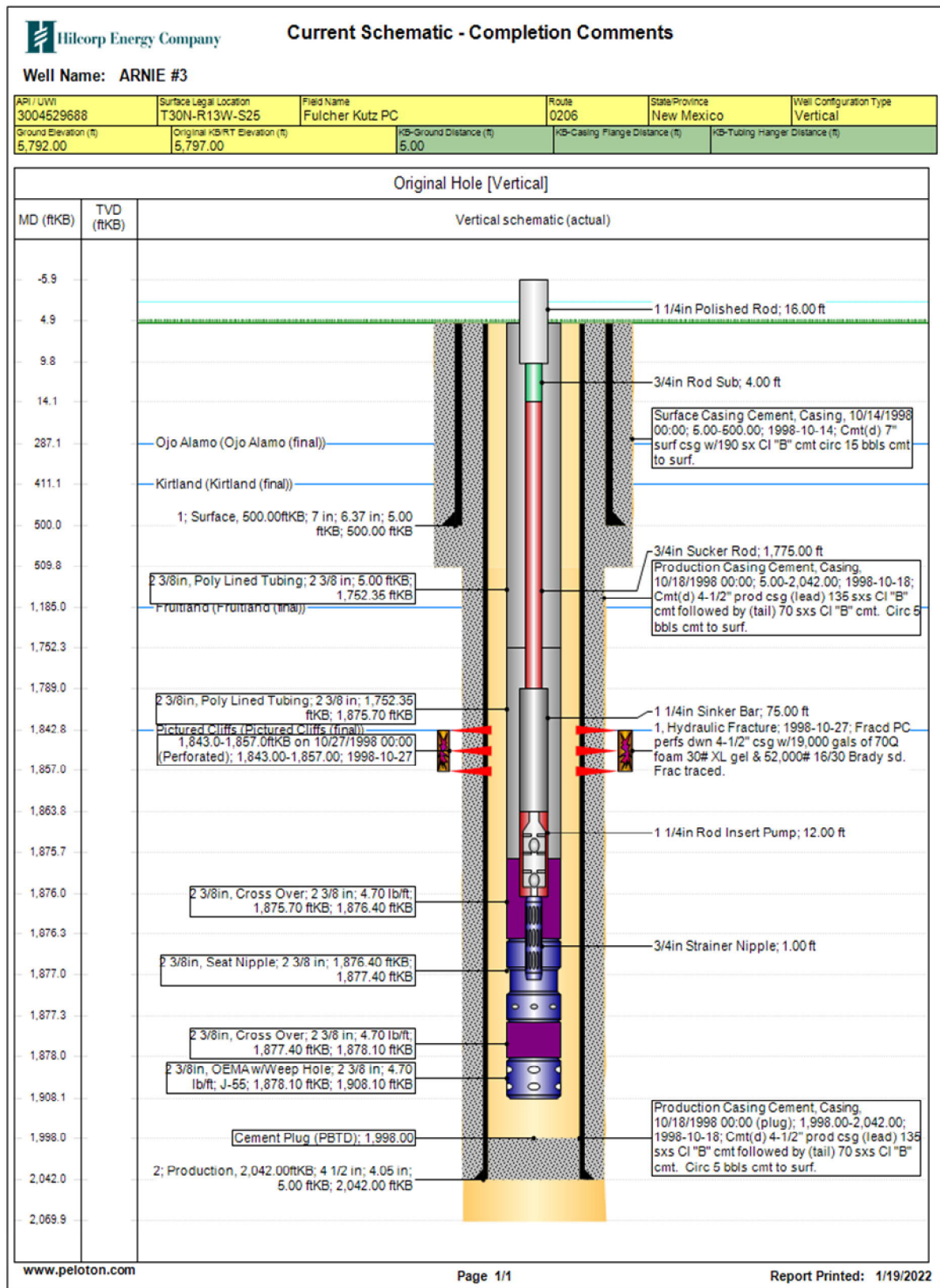
Hold PJSM prior to begin all operations. Properly document all operations via the JSA process. Ensure that all personnel onsite abide by HEC safety protocol, including PPE, housekeeping, and standard guidelines. Verify cathodic protection is off and wellhead instrumentation is properly disconnected from the wellhead. Comply with all NMOCD, BLM, and HEC safety and environmental regulations. Verify there is no H2S present prior to beginning operations. If any H2S is present, take the necessary actions to ensure that the location is safe prior to beginning operations. Observe and record pressures across all strings daily, prior to beginning operations.

Remember to notify NMOCD and BLM 24 hours prior to starting operations on location. This procedure is contingent upon P&A sundry approval by BLM & NMOCD.

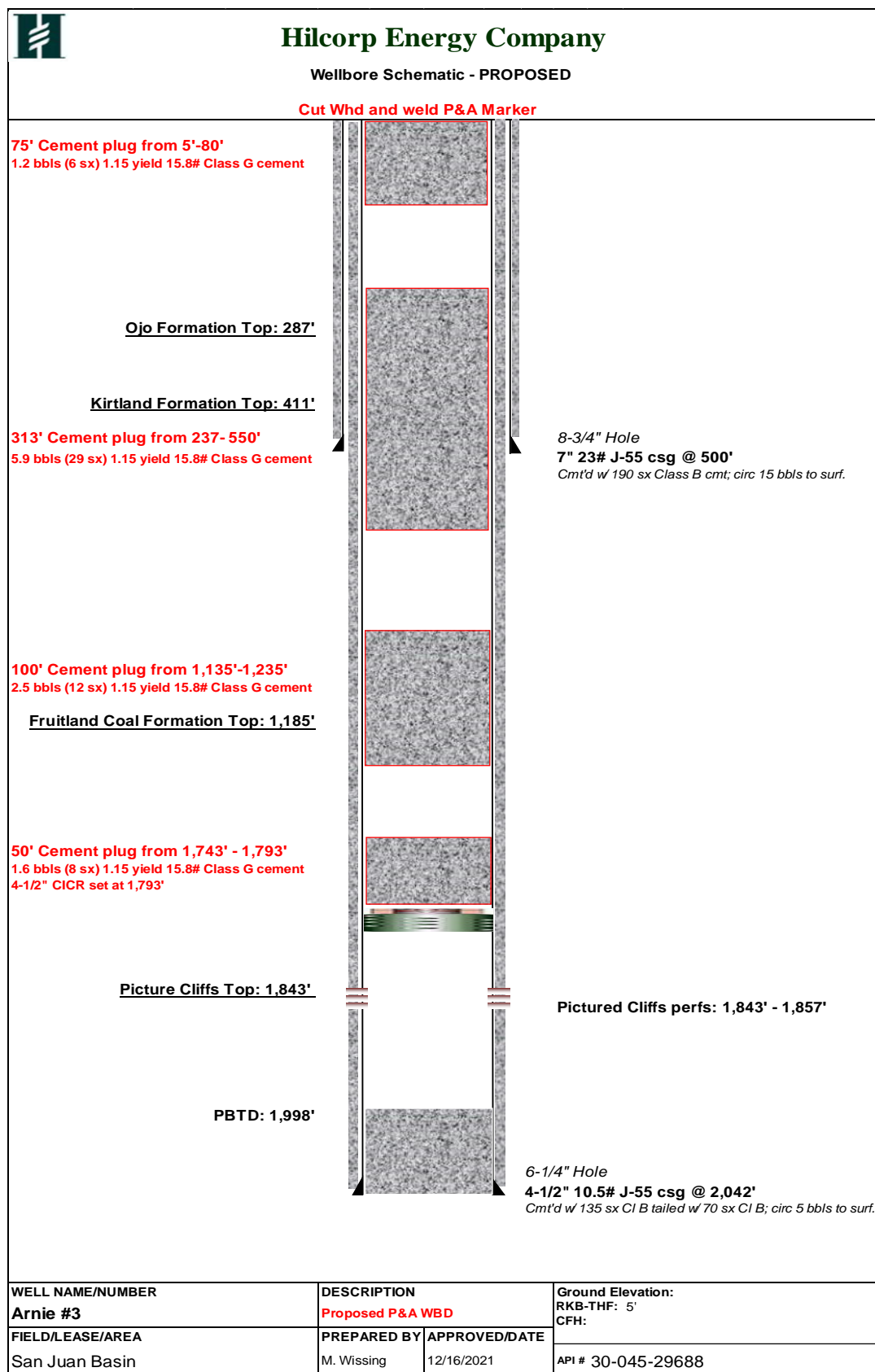
P&A Rig Procedure

1. MIRU P&A rig and equipment. Record pressures on all strings.
2. Unseat rod pump and POOH with rod string & rod pump. NU BOP & test. TOOH with production tbg.
3. RIH with 4.5" casing scraper to +/- 1,800'.
4. MU 4.5" CICR and RIH with 2-3/8" work string. Set CICR at 1,793'.
 - a. **Top PC perf at 1,843'.**
5. Load wellbore with KCl water and circulate wellbore clean. Pressure test the casing to 500 psi to verify wellbore integrity and plug set.
6. **Plug #1 (Pictured Cliffs Perf & Formation Top at 1,843')**: RU cementers and pump a 50' balanced cmt plug inside the 4-1/2" csg from 1,743' – 1,793', using 1.6 bbls (8 sx) of 15.8+ ppg Class G cmt.
7. TOOH with tbg to 1,235'.
8. **Plug #2 (Fruitland Coal Top at 1,185')**: RU cementers and pump a 100' balanced cmt plug inside the 4-1/2" csg from 1,135' – 1,235', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
9. TOOH with tbg to 550'.
10. **Plug #3 (Surface Csg at 500', Kirtland top at 411', Ojo top at 287')**: RU cementers and pump a 313' cmt balanced plug from 237' – 550' inside the 4-1/2" csg using 5.9 bbls (29 sx) of 15.8 ppg Class G cmt.
11. TOOH with tbg to 550'.
12. **Plug #4 (Surface')**: RU cementers and pump a 75' cmt balanced plug from Surface' – 80' inside the 4-1/2" csg using 1.2 bbls (6 sx) of 15.8 ppg Class G cmt.
13. WOC 4 hrs. Verify all pressures on all strings are at 0 psi.
14. ND BOP. Tag cmt and top off wellbore as needed. Cutoff wellhead at surface and weld P&A marker with API/ well name.
15. RDMO P&A rig.

CURRENT WELLBORE SCHEMATIC



PROPOSED WELLBORE SCHEMATIC



Hilcorp Energy
P&A Final Reclamation Plan
ARNIE #3
API: 30-045-29688
G – Sec.25-T030N-R013W
Lat: 36.786604, Long: -108.153507
Footage: 1765' FNL & 1765' FEL
San Juan County, NM

1. PRE-RECLAMATION SITE INSPECTION

- 1.1) A pre-reclamation site inspection was completed by Bob Switzer with the BLM and Chad Perkins construction Foreman for Hilcorp Energy on January 18, 2022.

2. LOCATION RECLAMATION PROCEDURE

- 2.1) The ARNIE #3 is twined with the Federal A #2 API: 30-045-09215.
2.2) Final reclamation will not be conducted until the Federal A #2 is plugged and abandoned.
2.3) Remove all production equipment, anchors, and flowlines associated with the ARNIE #3.
2.4) Enterprise Products will be responsible for pipeline removal.

3. ACCESS ROAD RECLAMATION PROCEDURE:

- 3.1) The lease access road will not be closed and reclaimed; it is lease access for the Federal A #2.

4. SEEDING PROCEDURE

- 4.1) N/A.

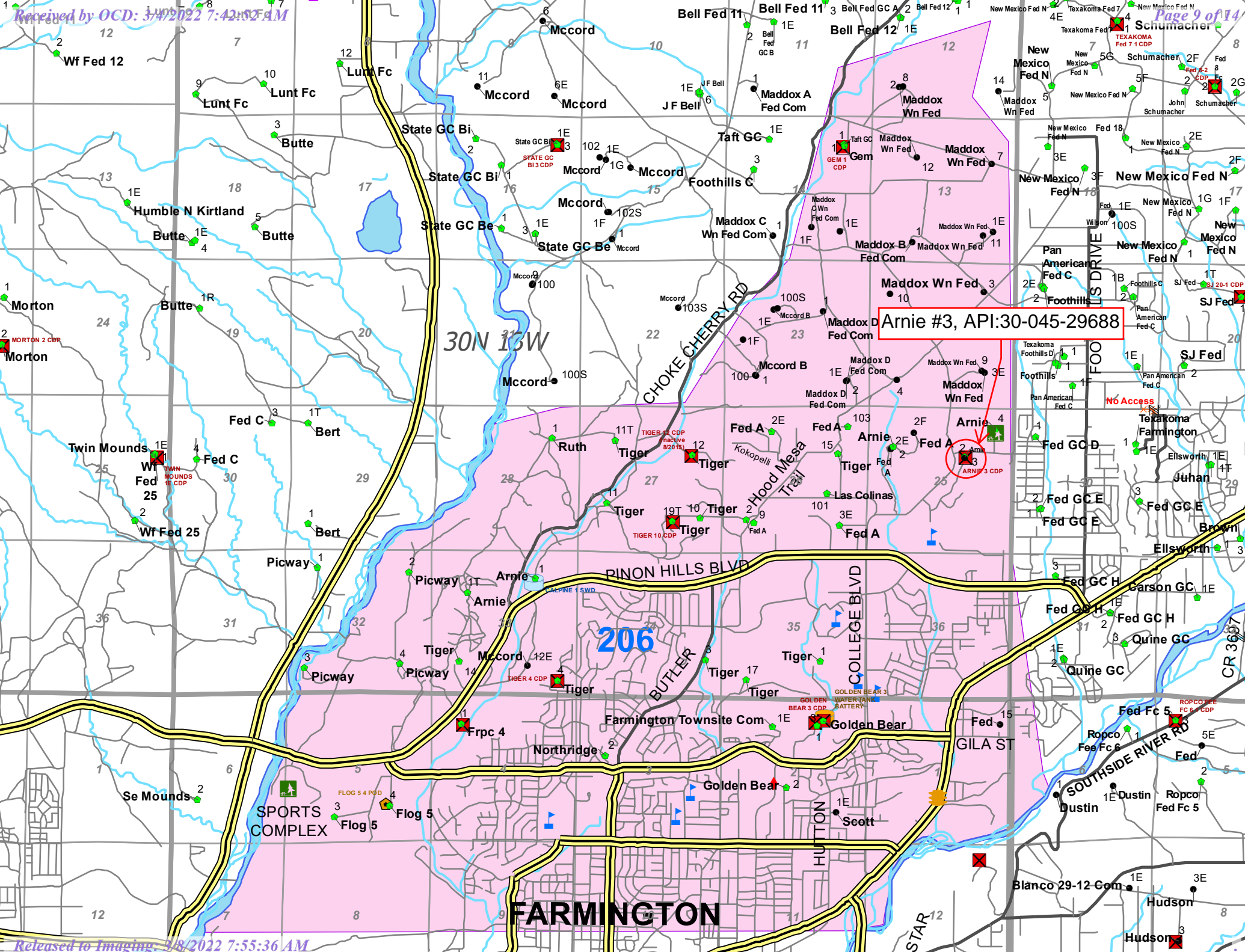
5. WEED MANAGEMENT

- 5.1) No action is required at this time for weed management, no noxious weeds were identified during the onsite.



Date: 1/20/2022
Scale: 1:1,128
0 0 0.01 0.02 0.02 0.03 mi
N

- Wells**
- Gas Well
- Hilcorp Boundaries**
- Asset Teams
 - Supervisor Areas, outline



**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), five copies, 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.

(October 2012 Revision)

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

AFMSS 2 Sundry ID 2653611

Attachment to notice of Intention to Abandon

Well: Arnie 3

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 3/3/2022

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 3/3/2022

Well No. Arnie #3 (API# 30-045-29688)		Location	1765	FNL	&	1765	FEL
Lease No. NMSF-078213		Sec. 25	T30N			R13W	
Operator Hilcorp Energy Company		County	San Juan		State	New Mexico	
Total Depth 2070'	PBTD 1988'	Formation Pictured Cliffs					
Elevation (GL) 5792'		Elevation (KB) 5797'					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm	Surface	287			Surface/freshwater sands
Ojo Alamo Ss	287	411			Freshwater aquifer
Kirtland Shale	411			1185	
Fruitland Fm			1185	1843	Coal/Gas/Possible water
Pictured Cliffs Ss			1843	PBTD	Gas
Lewis Shale					
Chacra					
Cliff House Ss					
Menefee Fm					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					

Remarks:

P & A

- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.
- Pictured Cliffs perms 1843' – 1857'.

Reference Well:

1) **Formation Tops**
Same

Prepared by: Chris Wenman

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 87055

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 87055
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	3/8/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	3/8/2022