

Well Name: TIGER	Well Location: T30N / R13W / SEC 35 / NWSE / 36.76611 / -108.171857	County or Parish/State: SAN JUAN / NM
Well Number: 1	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078213	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004529495	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2651228

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 01/05/2022

Time Sundry Submitted: 12:22

Date proposed operation will begin: 02/15/2022

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedures, current and proposed wellbore schematics. Surface ownership is private therefore a Pre-Disturbance Site Visit was not required. A closed loop system will be used.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Tiger_1_P_A_Procedure__for_NOI_20220105122130.pdf

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Conditions of Approval

Additional Reviews

- 2651228_NOIA_1_3004529495_KR_01122022_20220112144919.pdf
- General_Requirement_PxA_20220112144908.pdf
- 30N13W35JKpc_Tiger_1_20220112132754.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: KANDIS ROLAND

Signed on: JAN 05, 2022 12:21 PM

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

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: 01/12/2022

Signature: Kenneth Rennick

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

AFMSS 2 Sundry ID 2651228

Attachment to notice of Intention to Abandon

Well: Tiger 1

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 to cover the Pictured Cliffs formation top at 1534 feet.
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 1/12/2022

**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)

**BLM FLUID MINERALS
P&A Geologic Report**

Date Completed: 01/12/2022

Well No. Tiger #1 (API# 30-045-29495)	Location	1325	FSL	&	1635	FEL
Lease No. NMSF-078213	Sec. 35	T30N			R13W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth 1740'	PBTD 1681'	Formation Pictured Cliffs, Fruitland				
Elevation (GL) 5575'		Elevation (KB) 5580'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm					Surface/freshwater sands
Ojo Alamo Ss	Surface	110			Aquifer (possible freshwater)
Kirtland Shale	110			934	
Fruitland Fm			934	1543	Coal/Gas/Possible water
Pictured Cliffs Ss			1543	PBTD	Gas
Lewis Shale					
Chacara					Gas
Cliff House Ss					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale					
Gallup					O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:

P & A

- No CBL on file. CBL run planned as part of P&A procedure.
- Add a plug to cover the Pictured Cliffs formation top at 1534'.
- The plugs proposed in the P&A procedure, with recommended changes, will adequately protect any freshwater sands in this well bore.
- Fruitland perms 1508' – 1538'. Pictured Cliffs perms 1544' – 1556'.

Reference Well:

1) **Formation Tops**
Same

Prepared by: Chris Wenman



P&A Procedure

General Information			
Well Name	Tiger #1	Date:	1/5/2022
API:	30-045-29495	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 130'

Production Casing: 4-1/2" J-55 10.5# at 1,726'

Production Tubing: 2-3/8" J-55 4.7# at 1,577'

Rod String: 3/4" rods w/ Tubing rod pump (2-3/8"x1-3/4"x12'x16')

Current Perforations: 1,508' – 1,518', 1,522'-1,538', 1,544'-1,556'

Current PBTD: 1,680' (cement plug)

CBL Log: Unable to locate

SICP = 4 psig

Notes: Historic notes of hard fill at frac sand and coal. Scale in tbg/rods.

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

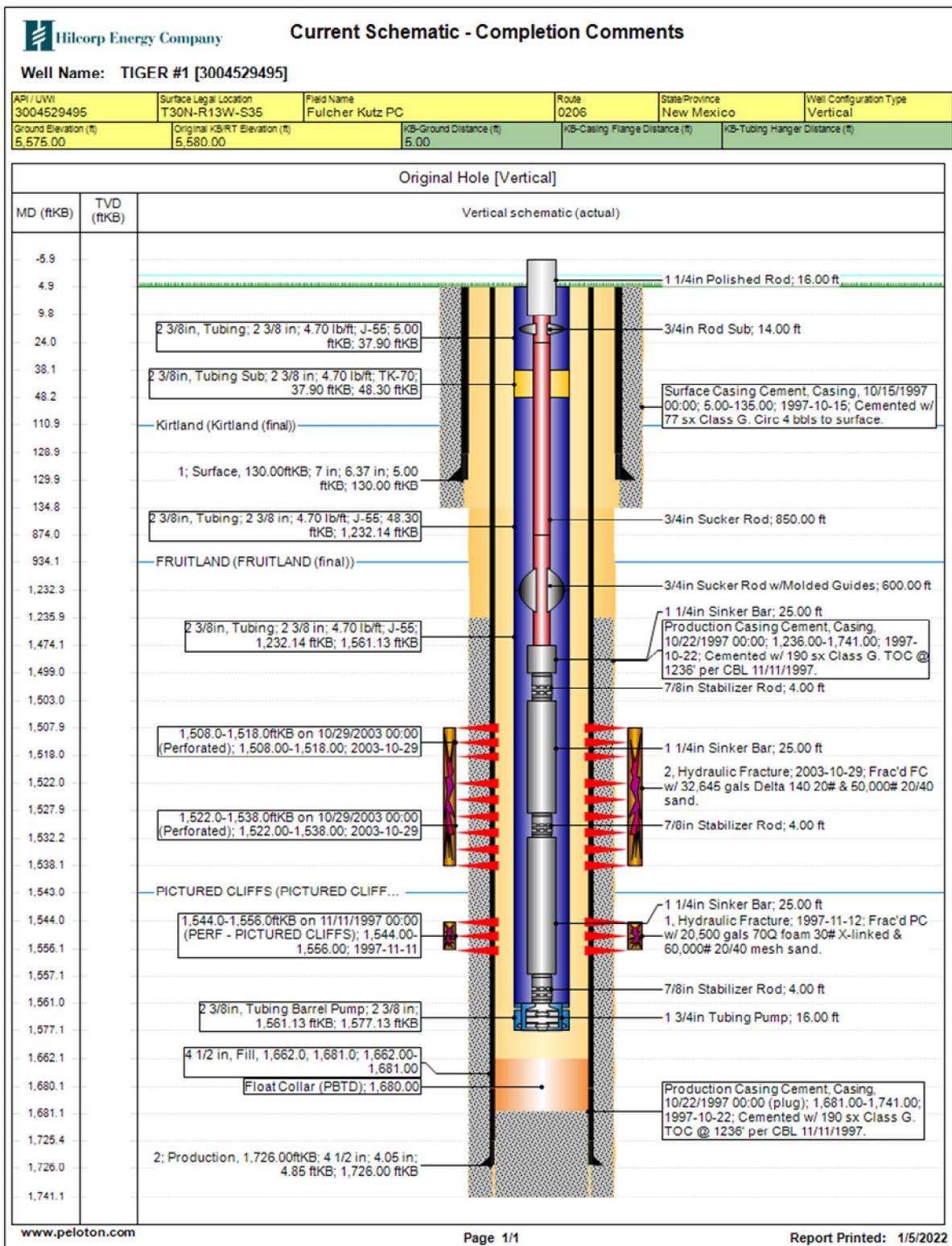
P&A Rig Procedure

1. MIRU P&A rig and equipment. Record pressures on all strings.
2. Unseat rod string and POOH with rod string. NU BOP & test. TOO H with production tbg and tbg pump.
3. RIH with 4.5" casing scraper to +/- 1,470'.
4. MU 4.5" CICR and RIH with 2-3/8" work string. Set CICR at 1,458'.
 - a. **Top Fruitland Coal perforation at 1,508'.**
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. **Cement Plug #1 (Fruitland Coal top perforation at 1,508')**: RU cementers and pump a 50' balanced cmt plug inside the 4-1/2" csg from 1,408' – 1,458', using 1.6 bbls (8 sx) of 15.8+ ppg Class G cmt.
7. TOO H with work string.
8. RU E-line and RIH with CBL logging tools. Log wellbore from 1,408' to surface. Review CBL results with NMOCD to verify future cement plugs.
 - a. Previous notes of a CBL have the TOC at 1,236'. Unable to find any records of this log.
9. MU 2' perforating gun w/ DP charges and RIH. Perforate 4-1/2" csg at 982'-984'. POOH.
10. MU 4-1/2" CICR and RIH. Set CICR at 934'. Establish injection rate into perforations.
11. **Cement Plug #2 (Fruitland Coal Formation Top at 934')**: RU cementers and pump an inside-outside 100' cement plug from 884' – 984', using 4.3 bbls (21 sx) of 15.8+ ppg Class G cmt.
12. TOO H with tbg.
13. RU Eline and RIH with circulating charges. Perforate the 4-1/2" csg at 180'. POOH.
14. Attempt to circulate wellbore up the 4-1/2" x 7" annulus until returns cleanup.
15. **Cement Plug #3 (Surface casing shoe at 130', Kirtland Formation top at 111')**: RU cementers and pump a 175' cmt plug from Surface – 180' inside the 4-1/2" csg and 7" x 4-1/2" annulus using 8.6 bbls (42 sx) of 15.8 ppg Class G cmt.

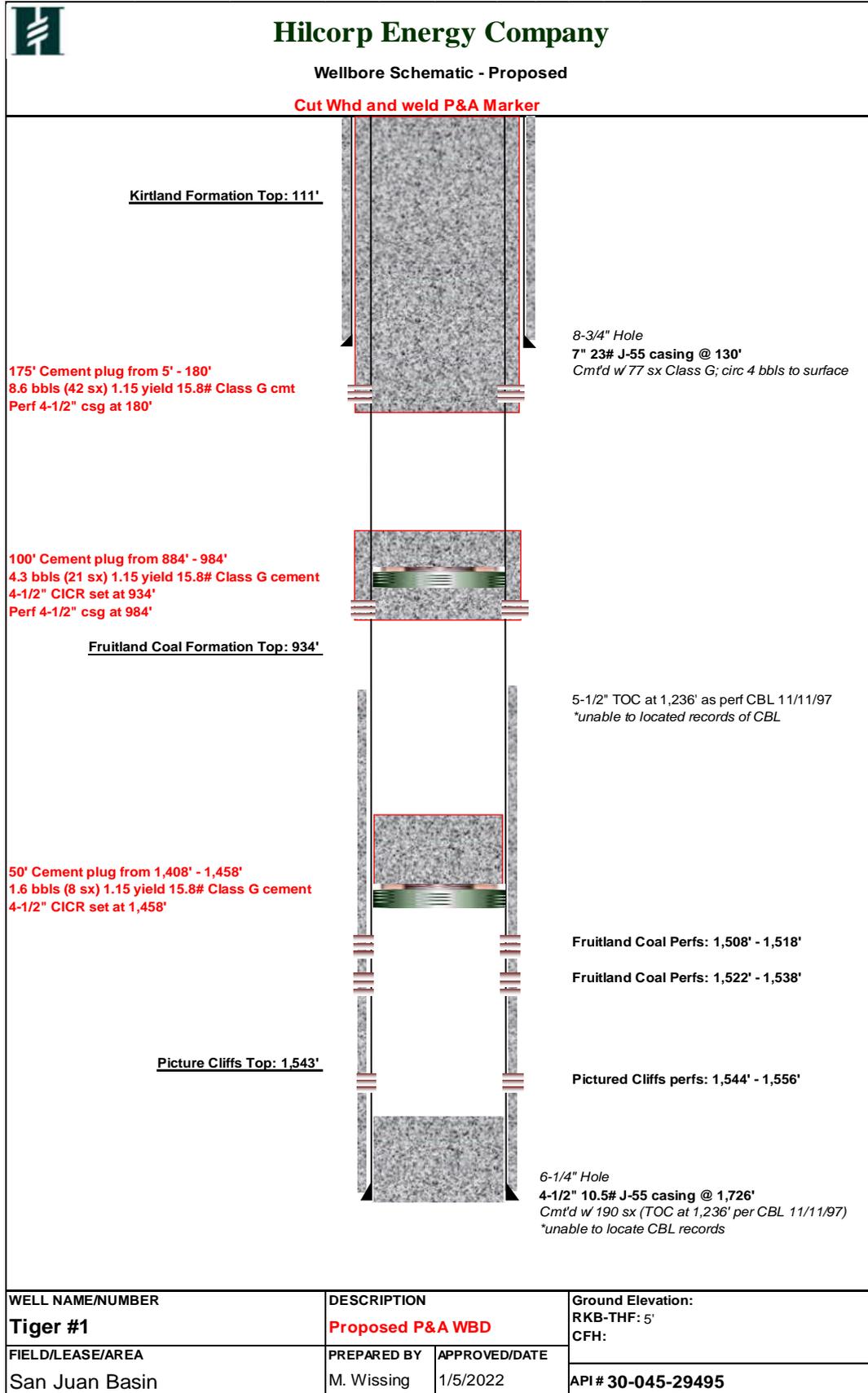
P&A Procedure Continued...

16. WOC 4 hrs. Verify all pressures on all strings.
17. ND BOP. Tag cmt and top off wellbore as needed. Cutoff wellhead at surface and weld P&A marker.
18. RDMO P&A rig

CURRENT WELLBORE SCHEMATIC



PROPOSED P&A WELLBORE SCHEMATIC



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 72127

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 72127
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	1/21/2022
kpickford	CBL required	1/21/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report	1/21/2022