

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

Well Name: TRIBAL C	Well Location: T26N / R3W / SEC 6 / SWSW /	County or Parish/State: RIO ARRIBA / NM
Well Number: 1	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC97	Unit or CA Name:	Unit or CA Number:
US Well Number: 3003906655	Well Status: Gas Well Shut In	Operator: HILCORP ENERGY COMPANY

**Notice of Intent**

Type of Submission: Notice of Intent

Type of Action Plug and Abandonment

Date Sundry Submitted: 05/06/2021

Time Sundry Submitted: 11:16

Date proposed operation will begin: 05/13/2021

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 4/14/2021 with Bob Swizter/BLM, Kurt Sandoval/BIA & Alfred Vigil/Jicarilla. The Re-Vegetation Plan is attached. A P&A ground marker plate will be used as requested by Jicarilla. A closed loop system will be used.

**Surface Disturbance**

Is any additional surface disturbance proposed?: No

**NOI Attachments**

**Procedure Description**

Tribal\_C\_1\_\_PA\_Workover\_Procedure\_Sundry\_\_2021\_05\_06\_\_20210506111457.pdf

Tribal\_C\_1\_Final\_Reclamation\_Plan\_20210506111457.pdf

Well Name: TRIBAL C

Well Location: T26N / R3W / SEC 6 / SWSW /

County or Parish/State: RIO ARRIBA / NM

Well Number: 1

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name: JICARILLA APACHE

Lease Number: JIC97

Unit or CA Name:

Unit or CA Number:

US Well Number: 3003906655

Well Status: Gas Well Shut In

Operator: HILCORP ENERGY COMPANY

**Conditions of Approval**

**Specialist Review**

- General\_Requirement\_P\_A\_20210713091710.doc
- BLM\_Conditions\_of\_Approval\_20210713091642.pdf
- Tribal\_C\_1\_20210713091620.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: MAY 06, 2021 11:15 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**

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

**BLM Point of Contact**

BLM POC Name: DAVE J MANKIEWICZ

BLM POC Title: AFM-Minerals

BLM POC Phone: 5055647761

BLM POC Email Address: DMANKIEW@BLM.GOV

Disposition: Approved

Disposition Date: 07/13/2021

Signature: Dave Mankiewicz



**HILCORP ENERGY COMPANY**  
**TRIBAL C 1**  
**P&A NOI**

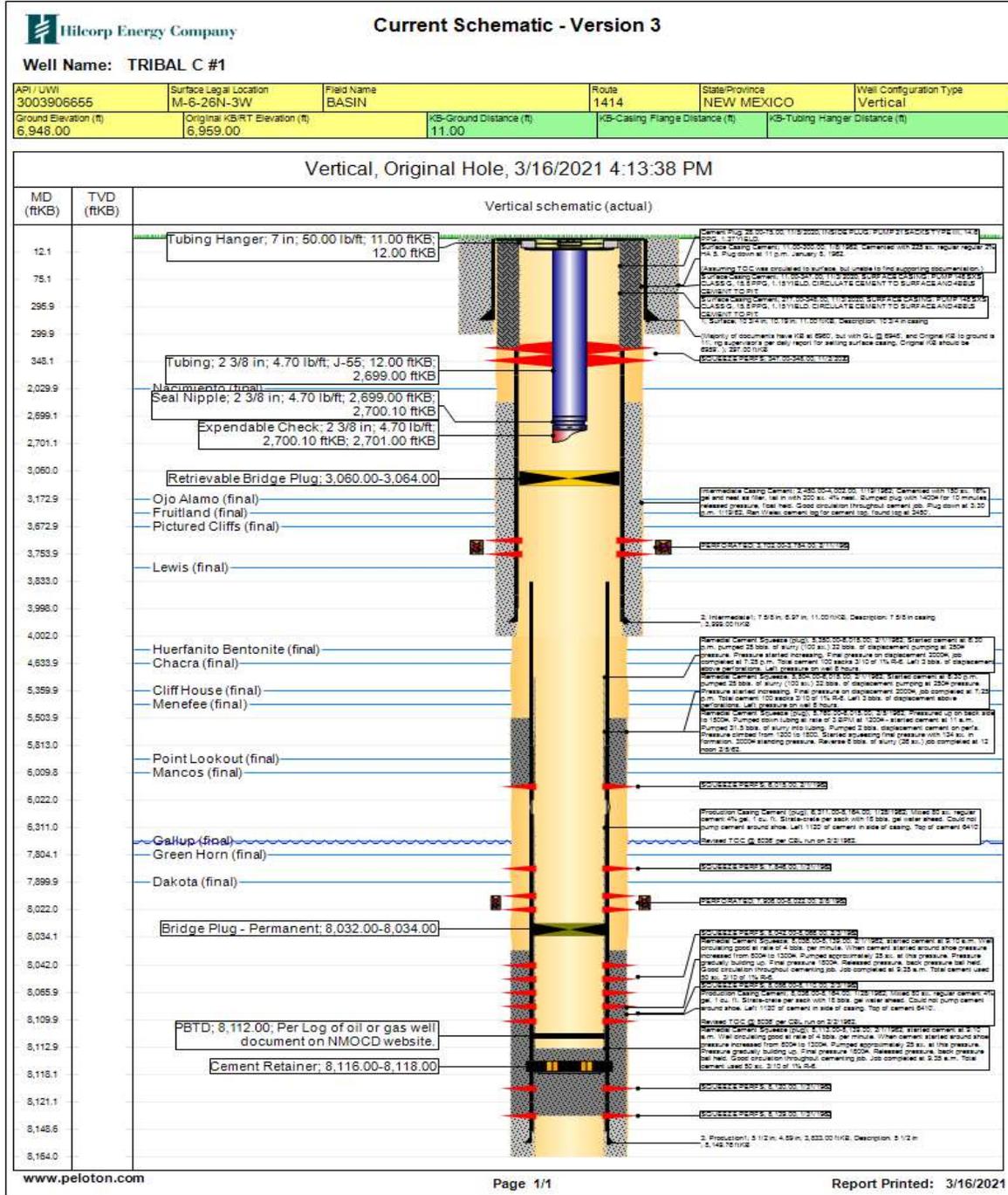
**JOB PROCEDURES**

1. Contact **NMOCD/BLM/JICARILLA 24 hours before** rigging up on well.
2. MIRU workover rig & associated equipment; test BOP.
3. TOOH w/ **2-3/8"** tubing set @ **2,701'**. RBIH w/ work string to remove RBP set @ **3060'**. Retrieve RBP & TOOH.
4. PU plug & TIH w/ tubing/work string to +/- **7,856'** & set plug.
5. **Plug #1: DAKOTA PERFORATIONS (7,706' - 7,856', 27 Sacks of Class G Cement Total):**  
Pump a +/- **150'** balanced cement plug (27 sacks of Class G cement with an estimated **TOC @ +/- 7,706'** and an estimated **BOC @ +/- 7,856'**). WOC & tag top before proceeding.
6. TOOH w/ tubing/work string to +/- 6,871'.
7. **Plug #2: GALLUP TOP (6721' - 6871', 27 Sacks of Class G Cement Total):**  
Pump a +/- **150'** balanced cement plug (27 sacks of Class G cement with an estimated **TOC @ +/- 6721'** and an estimated **BOC @ +/- 6871'**). WOC & tag top before proceeding.
8. TOOH w/ tubing/work string to +/- 6,060'.
9. **Plug #3: MANCOS TOP (5,910' - 6060', 27 Sacks of Class G Cement Total):**  
Pump a +/- **150'** balanced cement plug (27 sacks of Class G cement with an estimated **TOC @ +/- 5910'** and an estimated **BOC @ +/- 6060'**). WOC & tag top before proceeding.
10. TOOH w/ tubing/work string to +/- 5,410'.
11. **Plug #4: MESA VERDE TOP (5,260' - 5,410', 27 Sacks of Class G Cement Total):**  
Pump a +/- **150'** balanced cement plug (27 sacks of Class G cement with an estimated **TOC @ +/- 5260'** and an estimated **BOC @ +/- 5410'**). WOC & tag top before proceeding.
12. TOOH w/ tubing/work string. RU W/L, RIH & perf squeeze holes @ +/- **4049'**. RIH & set CICR @ +/- **3,813'**. TIH w/ tubing/work string to +/- **3,813'** sting into retainer.
13. **Plug #5: LINER TOP & 7-5/8" CASING SHOE (3,733' - 4049', 137 Sacks of Class G Cement Total):**  
Squeeze 120 sacks below cement retainer (71 sacks behind pipe (100% excess) & 49 sacks below retainer (249')), sting out and pump balance plug on top of retainer (15 sacks, 50' excess) (Estimated **TOC @ +/- 3,733'** and an estimated **BOC @ +/- 4049'**). WOC & tag top before proceeding.
14. TOOH w/ tubing/work string. RU W/L, RIH & set CICR @ +/- 3,623'. TIH w/ tubing/work string to +/- 3,623'.
15. **Plug #6: PICTURED CLIFFS PERFORATIONS, FRUITLAND, & OJO ALAMO TOPS (3,073' - 3,623', 212 Sacks of Class G Cement Total):**  
Pump a +/- **550'** balanced cement plug (212 sacks of Class G cement with an estimated **TOC @ +/- 3,073'** and an estimated **BOC @ +/- 3,623'**). WOC & tag top before proceeding.
16. R/U WL. Run CBL from ~3,000' to surface, and review results with NMOCD. TOOH w/ tubing/work string. RIH & perf squeeze holes @ +/- **2,080'**. RIH & set CICR @ +/- **2,030'**. TIH w/ tubing/work string to +/- **2,030'** & sting into retainer.
17. **Plug #7: NACIMENTO TOP (1930' - 2080', 80 Sacks of Class G Cement Total):**  
Squeeze 45 sacks below cement retainer (27 sacks behind pipe (100% excess) & 16 sacks below retainer (50')), sting out and pump balance plug on top of retainer (35 sacks, 50' excess) (Estimated **TOC @ +/- 1930'** and an estimated **BOC @ +/- 2080'**). WOC & tag top before proceeding.
18. TOOH w/ tubing/work string to +/- **347'**.
19. **Plug #8: SURFACE PLUG (0' - 347', 93 Sacks of Class G Cement Total):**  
Pump a +/- **347'** balanced cement plug (93 sacks of Class G cement with an estimated **TOC @ +/- 0'** and an estimated **BOC @ +/- 347'**).
20. TOOH w/ tubing/work string. WOC.
21. ND BOP, cut off casing below casing flange. Top off cement in surface casing annulus, if needed. Install a P&A marker with cement to comply with regulations. Rig down, move off location, cut off anchors, and restore location.



# HILCORP ENERGY COMPANY TRIBAL C 1 P&A NOI

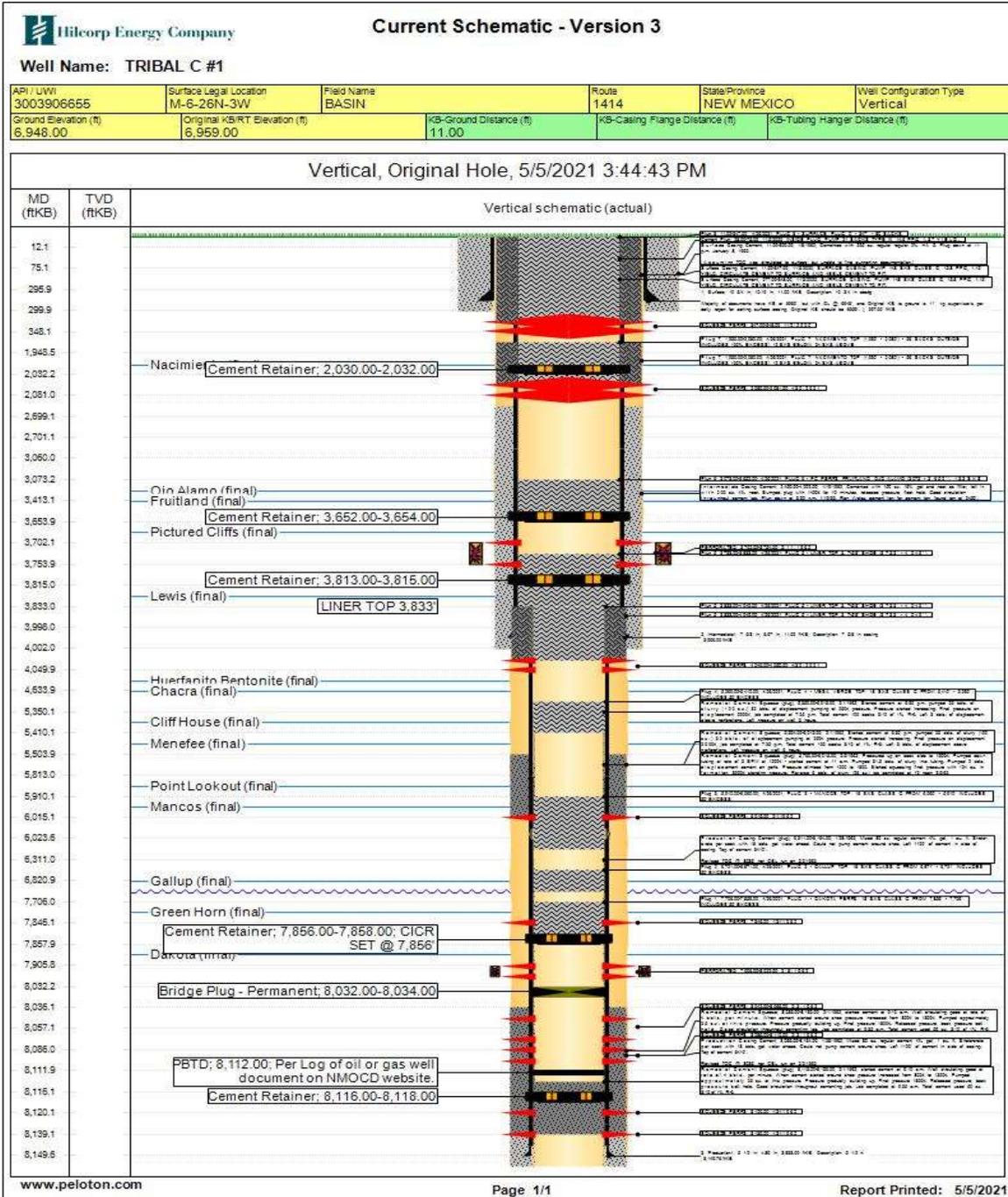
## TRIBAL C 1 - CURRENT WELLBORE SCHEMATIC





# HILCORP ENERGY COMPANY TRIBAL C 1 P&A NOI

## TRIBAL C 1 - PROPOSED WELLBORE SCHEMATIC



## Hilcorp Energy

Tribal C 1

36.510244, -107.189516

API-30-039-06655

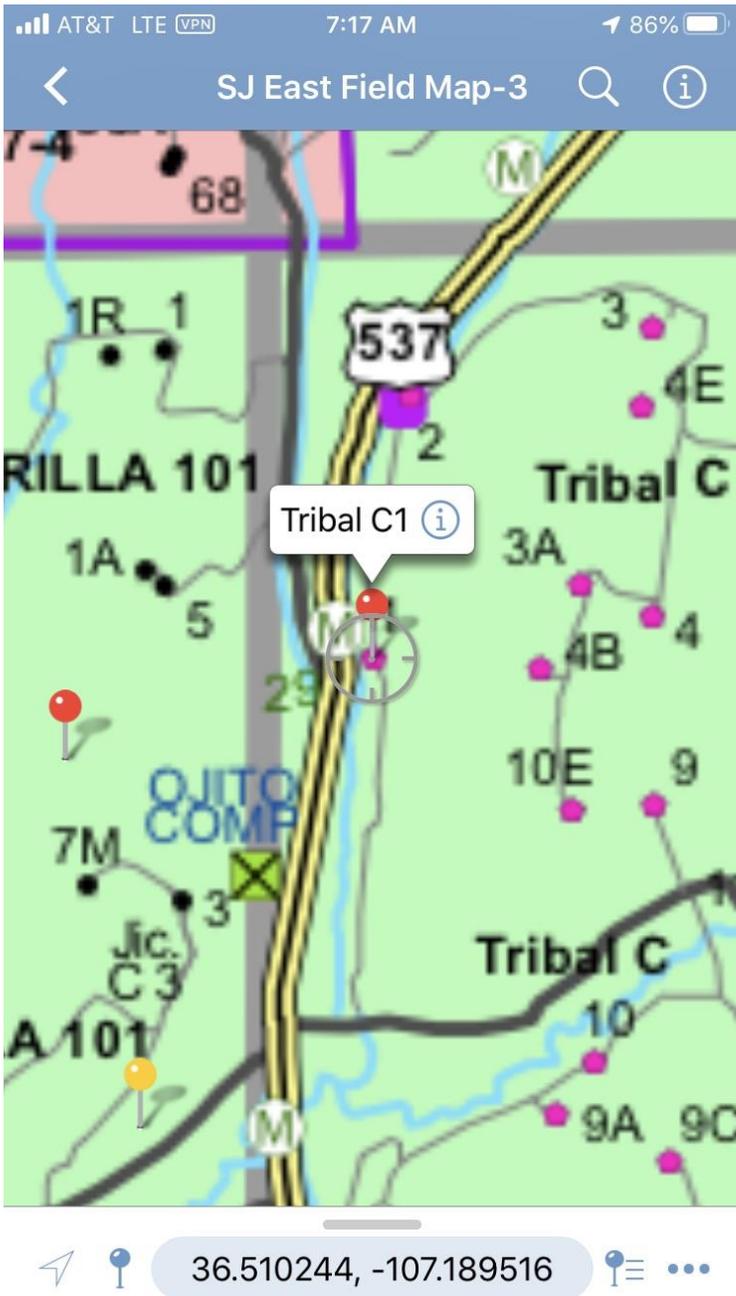
Jicarilla Lease #97

### Final Reclamation Plan

1. Pick up and remove all trash, metal, cable, and any foreign debris within 200' of location. Remove pipe rack and cable on Northeast side of location.
2. Remove anchors.
3. Strip equipment off of facility, and plug Cathodic well
4. Harvest to remove meter run and piping back to dog leg.
5. Build silt trap on the northeast side of location.
6. Re-contour pad to re-create natural terrain. Push material towards the East/North east side of location.
7. Set surface wellhead marker plate.
8. Reclaim road halfway (715') to Logos' well, by pulling material back onto road, ripping, diking and seeding.
9. Rip compacted soil.
10. Re-seed all disturbed areas. Drill where applicable at rate per acre defined by seed mix, and broadcast seed and harrow, at double the rate, all other disturbed areas. Mesa Mix seed mix will be used.









# United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

Jicarilla Agency

P.O. Box 167

Dulce, New Mexico 87528

IN REPLY REFER TO:

Branch of Real Estate Services

November 15, 2019

Memorandum

To: Robert Switzer, Environmental Protection Specialist  
Bureau of Land Management, Farmington Field Office

From: Kurt Sandoval, Realty Officer  
Bureau of Indian Affairs, Jicarilla Agency

Subject: BIA Concurrence concerning Well Pad Monument Makers

Let this serve as concurrence for the agreed upon preferred method to be used when constructing well pad monument markers on Jicarilla Apache Tribal Lands. We will eliminate the 6 ft. dry hole marker and use a permanent metal plate that will be installed at ground level, effective September 2019. The marker will contain the following information:

- Well Pad Lease Number
- Well Pad Location Name and Number
- Well Pad Legal Description, specifically Section, Township and Range
- Well Pad API Number
- Well Pad Plug Date
- Well Pad Operator Name

You may contact our office if you have any questions or concerns at (575) 759-3936. Thank you.

  
Realty Officer

cc: Jicarilla Oil and Gas Administration

## BLM Conditions of Approval

The following surface rehabilitation Conditions of Approval must be complied with as applicable, before this well can be approved for final abandonment ( 43CFR 3162.3-4). **Surface rehabilitation work shall be completed within one (1) year of the actual plugging date. Notification for completion of this work can be submitted with a Sundry Notice (3160-5).**

1. All fences, production equipment, purchaser's equipment, concrete slab, deadman (anchors), flowlines, risers, debris and trash must be removed from the location.
2. Production pits will be closed according to the Unlined Surface Impoundment Closure Guidelines, as approved in the Environmental Assessment of December 1993. Any oil stained soils may be remediated on-site according to these guidelines or disposed of in an approved disposal facility.
3. The well pad will be shaped to the natural terrain and left as rough as possible. All compacted areas and areas devoid of vegetation shall be ripped to a minimum of 12" before seeding.
4. Access roads will be shaped to conform to the natural terrain and left as rough as possible to detour vehicular travel. Access will be ripped to a minimum of 12" in depth and waterbarred prior to seeding. All erosion problems created by the development must be corrected prior to acceptance of release. Water bars should be spaced as follows:

(%) Slope	Spacing Interval (ft.)
Less than 20	200
2-5	150
6-9	100
10-15	50
Greater than 15	30

**All water bars should divert to the downhill side of the road.**

5. All disturbed areas will be seeded with the prescribed certified seed mix (reseeding may be required).
6. Notify the Surface Managing Agency (SMA) seven (7) days prior to seeding so that they may be present for that option.
7. The period of liability under the bond of record will not be terminated until the lease is inspected and the surface rehabilitation approved.

**Other SMA's may vary slightly in their restoration requirements. It is your responsibility, as the operator, to obtain surface restoration requirements for other SMA's. The BLM will need to be provided with a copy of another SMA requirement. Any problems concerning stipulations received for another SMA should be brought to the BLM Farmington Field Office.**

**On private land, the BLM should be provided with a letter from the fee owner stating that the surface restoration is satisfactory.**

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

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Tribal C #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. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
  - a) Set Plug #6 (3073 - 3723) ft. to cover PC, Fruitland, Kirtland, and Ojo Alamo tops. BLM picks top of Pictured Cliffs at 3673 ft. BLM picks top of Ojo Alamo at 3173 ft.

Operator will run a CBL to verify cement top. Submit the electronic copy of the log for verification to the following addresses: [jwsavage@blm.gov](mailto:jwsavage@blm.gov) [Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us)

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.

**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. (densimeter/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 (CBL) is required to be run if one had not been previously run.
  - 4.7 If cement was circulated to surface during the primary cement job or subsequent cement job and a CBL has not been run, the wellhead must remain connected to the casing string for pressure monitoring before the P&A marker is installed.

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), 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.

## BLM FLUID MINERALS Geologic Report

**Date Completed:** 6/14/2021

Well No. Tribal C #1 (API# 30-039-06655)	Location	790	FSL	&	1190	FWL
Lease No. Jicarilla Contract 97	Sec. 6	T26N			R03W	
Operator Hilcorp Energy Company	County	Rio Arriba	State	New Mexico		
Total Depth 8164'	PBTD 8113'	Formation Dakota (PBTD)				
Elevation (GL) 6948'	Elevation (KB) 6959'					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	2030	Surface/Fresh water sands
Nacimiento Fm			2030	3173	Fresh water sands
Ojo Alamo Ss			3173	3412	Aquifer (fresh water)
Kirtland Shale			3412	3517	Possible usable water near surface
Fruitland Fm			3517	3673	Coal/Gas/Possible water
Pictured Cliffs Ss			3673	3870	Gas
Lewis Shale			3870	4632	
Chacra			4632	5360	
Cliff House (La Ventana) Ss			5360	5500	Water/Possible gas
Menefee Fm			5500	5866	Coal/Ss/Water/Possible O&G
Point Lookout Ss			5866	6009	Probable water/Possible O&G
Mancos Shale			6009	6821	
Gallup			6821	7804	O&G/probable water
Greenhorn			7804	7869	
Graneros Shale			7869	7900	
Dakota Ss			7900	PBTD	Gas/potential oil/water
Morrison					Water/possible gas

Remarks:

P & A

- BLM formation top pick for the Pictured Cliffs varies from Operator pick.
- Plug #6 (Pictured Cliffs perforations, Fruitland and Ojo Alamo tops) bottom should be brought down to cover BLM Pictured Cliffs formation top pick @ 3673'.
- A Chacra plug is not required as this well is off the productive gas trend.
- Log analysis of Reference Well #2 indicates the San Jose, Nacimiento, and Ojo Alamo sands may contain fresh water (< 5000 ppm TD). Placement of cement plugs as indicated on the P&A procedure, with recommended adjustments from this report, will protect fresh water sands in this well bore.

Reference Well:

1) **Formation Tops**  
Same

2) **Water Analysis**  
ConocoPhillips Co.  
Apache #3  
900' FNL, 990' FWL  
Sec. 19, T26N, R03W  
GL 7007' KB 7019'

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**

COMMENTS

Action 37181

**COMMENTS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 37181
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**COMMENTS**

Created By	Comment	Comment Date
kpickford	KP GEO Review 7/22/2021	7/23/2021

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

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 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

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 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 37181

**CONDITIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 37181
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	7/23/2021
kpickford	Adhere to BLM COAs on BLM Geologic Report	7/23/2021