

Well Name: SAN JUAN 30-5 UNIT	Well Location: T30N / R5W / SEC 9 / SWSW / 36.8219 / -107.36848	County or Parish/State: RIO ARRIBA / NM
Well Number: 49	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078997	Unit or CA Name: SAN JUAN 30-5 UNIT--DK, SAN JUAN 30-5 UNIT--MV	Unit or CA Number: NMNM78419A, NMNM78419B
US Well Number: 3003921830	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2661694

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 03/11/2022	Time Sundry Submitted: 02:51
Date proposed operation will begin: 03/25/2022	

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedures, current and proposed wellbore schematics. A closed loop system will be used. A pre-disturbance site visit was not conducted as surface is FEE.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

San_Juan_30_5_Unit_49_PA_Procedure_for_NOI_20220311145126.pdf

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Conditions of Approval

Additional

2661694_NOIA_49_3003921830_KR_05092022_20220509140910.pdf
General_Requirement_PxA_20220509140826.pdf
30N05W09MKd_San_Juan_30_5_Unit_49_20220509132931.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: MAR 11, 2022 02:51 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 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: 05/09/2022
Signature: Kenneth Rennick	



P&A Procedure

General Information			
Well Name	San Juan 30-5 #49	Date:	3/11/2022
API:	30-039-21830	AFE #	
Field:	San Juan	County	Rio Arriba
Status:	Well is ACOI		
Subject:	Permanently P&A wellbore		
By:	M. Wissing		

Well Data

Surface Casing: 9-5/8" 36# K-55 at 370'

Production Casing: 7" K-55 20# at 3,585'

Production Liner: 4-1/2" K-55 11.6# at 7,766'

Production Tubing: 2-3/8" J-55 4.7# at 7,633' ('L' sliding sleeve at 5,555')

Production Packer: 4-1/2' R-3 at 5,923'

Current Perforations: 3,898'-5,032', 5,223'-5,896', 7,682'-7,704'

Current PBTD: 7,754' (Cement)

CBL: 4-1/2" csg 7/9/1997

SICP = 137 psig; SIBP: 4 psi

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.

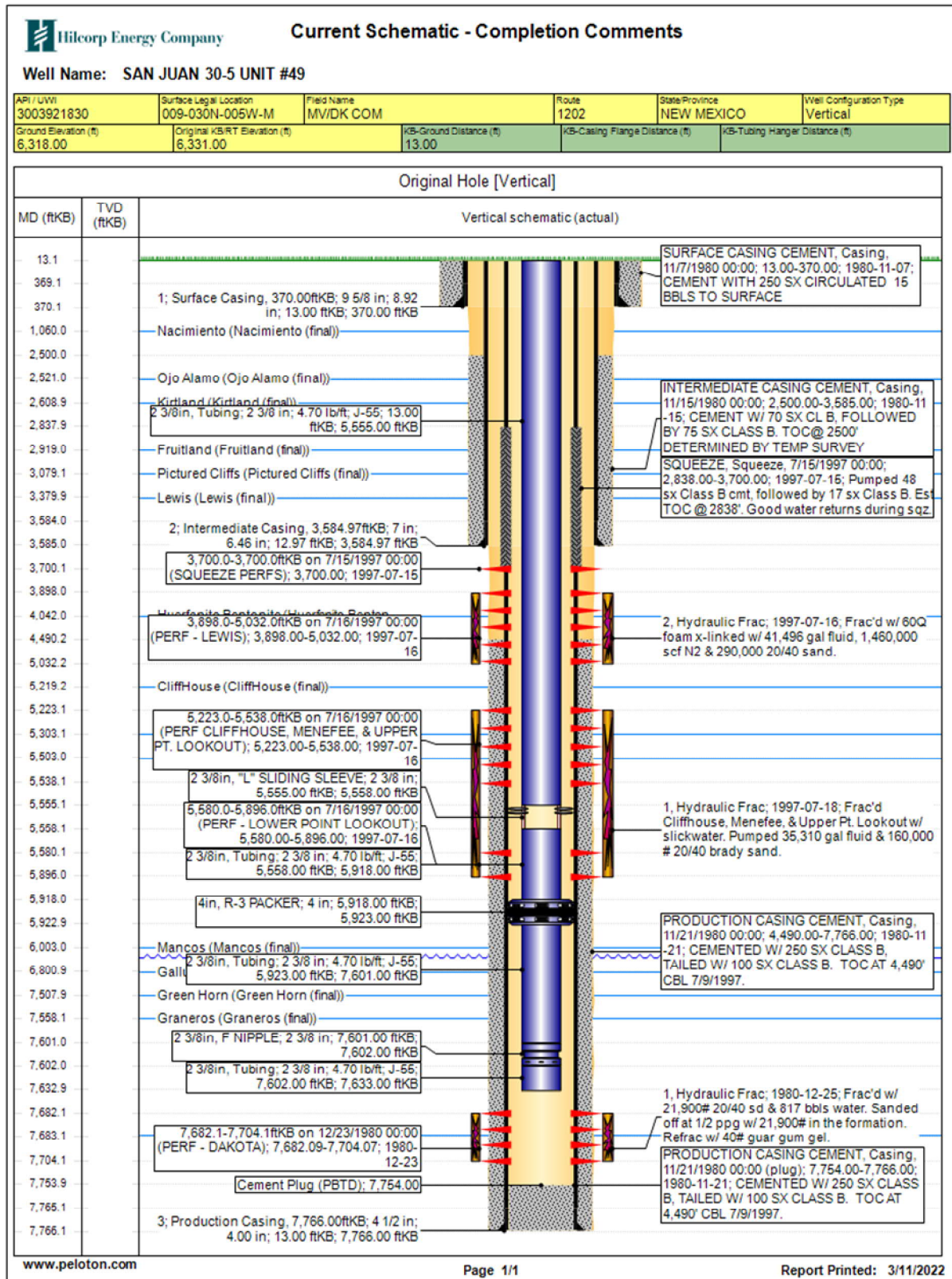
Remember to notify NMOCD & BLM 24 hours prior to starting operations on location. This procedure is contingent upon P&A sundry approval by the NMOCD & BLM.

P&A Rig Procedure

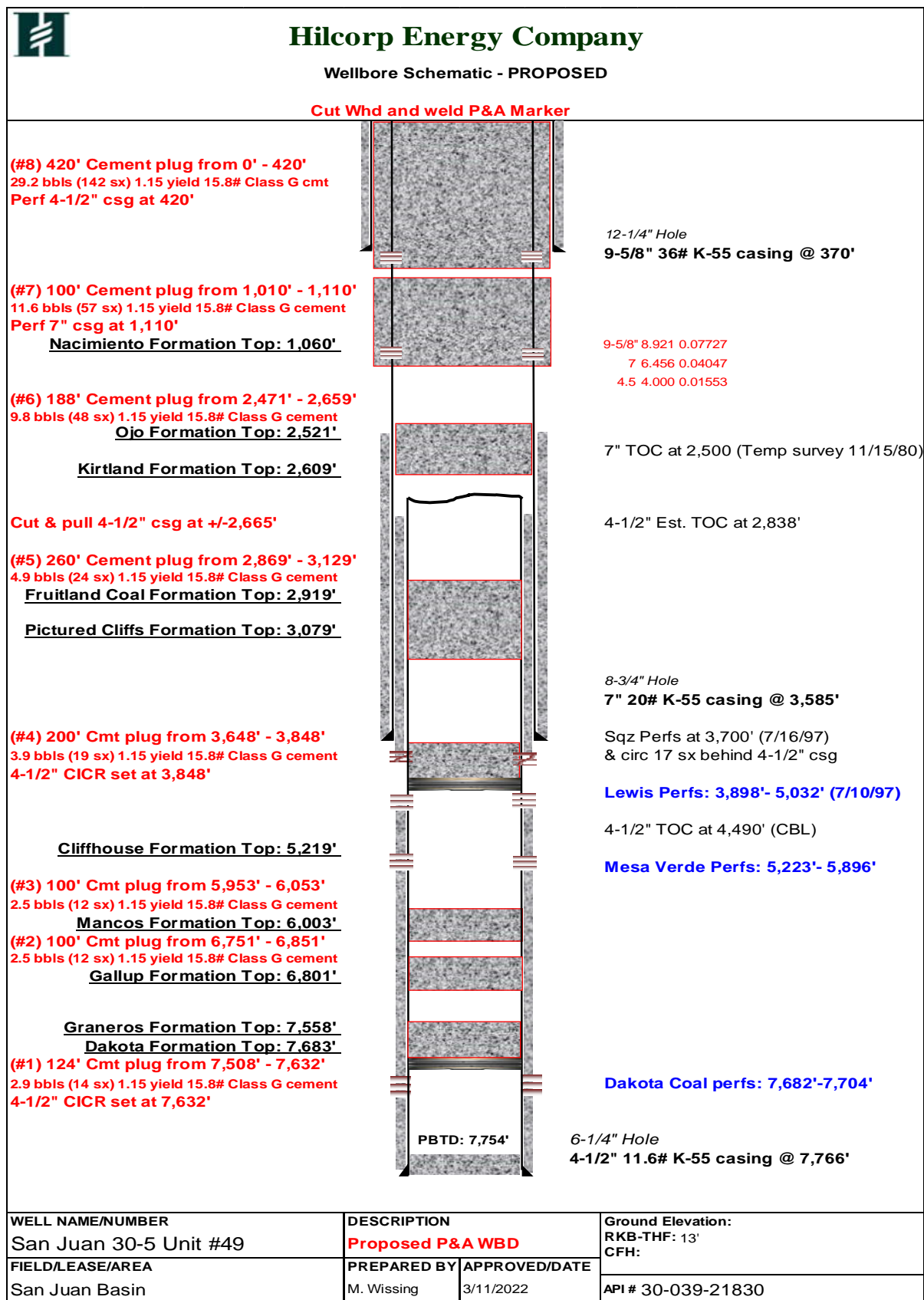
1. MIRU P&A rig and equipment. Record pressures on all strings.
2. NU BOP & test. Release tbg hanger, release R-3 packer, and TOOH with production tbg.
3. MU 4-1/2" csg scraper and RIH. Work to 7,650' and TOOH.
4. MU 4-1/2" CICR and RIH with 2-3/8" work string. Set CICR at 7,632'.
 - a. **Top Dakota perf at 7,682'.**
5. **Plug #1 (Dakota top perf at 7,682', Dakota top at 7,683', Graneros top at 7,558')**: RU cementers and pump a 124' balanced cmt plug inside the 4-1/2" csg from 7,508'-7,632', using 2.9 bbls (14 sx) of 15.8+ ppg Class G cmt.
6. WOC and tag cement.
7. **Plug #2 (Gallup top at 6,801')**: RU cementers and pump a 100' balanced cmt plug inside the 4-1/2" csg from 6,751'-6,851', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
8. WOC and tag cement.
9. **Plug #3 (Mancos top at 6,003')**: RU cementers and pump a 100' balanced cmt plug inside the 4-1/2" csg from 5,953'-6,053', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
10. WOC and tag cement.
11. MU 4.5" CICR and RIH with 2-3/8" work string. Set CICR at 3,848'.
12. Load wellbore with KCl water and circulate wellbore clean. Pressure test the casing to 500 psi to verify wellbore integrity and plug set.
 - a. If PT fails (**historic squeeze perforations at 3,700'**) re-test after plug #4.
13. **Plug #4 (Lewis top perforation at 3,898')**: RU cementers and pump a 200' balanced cmt plug inside the 4-1/2" csg from 3,648'-3,848', using 3.9 bbls (19 sx) of 15.8+ ppg Class G cmt.
14. TOOH with tbg string.
15. RU E-line and CBL tools. Log 4-1/2' csg well from 3,600' up to TOC. LD tools. Confirm TOC with NMOCD and BLM. Review, plan, & adjust all remaining P&A rig work.
16. RIH with work string to 2,659'.
17. **Plug #5 (Fruitland top at 2,919', PC top at 3,079')**: RU cementers and pump a 260' balanced cmt plug inside the 4-1/2" csg from 2,869'-3,129',

- using 4.9 bbls (24 sx) of 15.8+ ppg Class G cmt.
- a. Spot cement plug #5 after cutting 4-1/2" csg if needed.
18. TOOH with tbg.
 19. RU E-line and MU 4-1/2" split shot or jet cutting tool. RIH and cut 4-1/2" casing at +/- 2,665' (depending on the TOC behind 4-1/2" csg). POOH.
 20. Establish circulation at csg cut and circulate wellbore clean behind 4-1/2" csg.
 21. ND BOP and wellhead. RU casing pulling equipment, release 4-1/2" csg hgr, and TOOH with 4-1/2" csg.
 22. RU E-line and CBL tools. Log 7" csg from 2,660'- surface. LD tools. Confirm TOC with NMOCD and BLM. Review, plan, & adjust all remaining P&A rig work.
 23. RIH with tbg string to 2,659'.
 24. **Plug #6 (Kirtland top at 2,609', Ojo Top at 2,521')**: RU cementers and pump a 188' balanced cement plug from 2,471'-2,659', using 9.8 bbls (48 sx) of 15.8+ ppg Class G cmt. Add 2% CaCl₂ if needed.
 25. TOOH with tbg.
 26. RU E-line and MU 7" circulating charges. RIH and perforate 7" csg at 1,110'. POOH.
 27. **Plug #7 (Nacimiento top at 1,060')**: RU cementers and pump a 100' inside/outside cement plug in the 7" csg from 1,010'-1,110', using 11.6 bbls (57 sx) of 15.8+ ppg Class G cmt. Add 2% CaCl₂ if needed.
 - a. If cement plug is pumped in early part of the day, set 7" CICR at 1,060'.
 - b. If cement plug is pumped at end of day, no CICR will be used. WOC overnight.
 28. TOOH with tbg.
 29. RU E-line and MU circulating charges. RIH, tag TOC with perf gun if required. PU and perforate 7" csg at 420'. POOH.
 30. **Plug #9 (Surface & Surface casing shoe at 370')**: Establish circulation through 9-5/8" x 7" csg annulus. RU cementers and circulate a 420' cmt plug from Surface – 420' inside the 7" csg & 9-5/8" x 7" annulus using 29.2 bbls (142 sx) of 15.8 ppg Class G cmt.
 31. Verify all pressures on all strings are at 0 psi.
 32. Tag cmt and top off wellbore as needed with cmt. Cutoff wellhead at surface and weld on P&A marker. RDMO P&A rig.

CURRENT WELLBORE SCHEMATIC



PROPOSED WELLBORE SCHEMATIC



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

AFMSS 2 Sundry ID 2661694

Attachment to notice of Intention to Abandon

Well: San Juan 30-5 Unit 49

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 Cliff House top at 5219'.
 - b) Plug #6 may need to be adjusted to an inside/outside plug depending on CBL results.
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 5/9/2022

**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.

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 05/09/2022

Well No. San Juan 30-5 Unit #49 (API# 30-039-21830)	Location	810	FSL	&	800	FWL
Lease No. NMNM-78419A, NMNM-78419B	Sec. 09	T30N			R05W	
Operator Hilcorp Energy Company	County	Rio Arriba		State	New Mexico	
Total Depth 7780'	PBTD 7754'	Formation Dakota				
Elevation (GL) 6318'		Elevation (KB) 6331'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm	Surface	1060			Surface/possible freshwater sands
Nacimiento Fm	1060	2521			Possible fresh/usable water sands
Ojo Alamo Ss	2521	2609			Aquifer (possible freshwater)
Kirtland Shale	2609	2919			
Fruitland Fm	2919	3079			Coal/Gas/Water
Pictured Cliffs Ss	3079	3380			Gas
Lewis Shale	3380				Gas
Chacra		5219			Gas
Cliff House Ss	5219	5399			Water/gas
Menefee Fm	5399	5503			Coal/Ss/Water/gas
Point Lookout Ss	5503	6003			Probable water/gas
Mancos Shale	6003	6801			O&G
Gallup	6801	7508			O&G/Water
Greenhorn	7508	7558			
Graneros Shale	7558	7683			
Dakota Ss	7683	PBTD			O&G/Water
Morrison Formation					

Remarks:

P & A

- Well logs for subject well do not cover entire wellbore. Operator tops are acceptable.

- Add a plug to cover the Cliff House top at 5219'.

- Plug #6 may need to be adjusted to an inside/outside plug depending on CBL results.

- The plugs proposed in the P&A procedure, with recommended changes, will adequately protect any freshwater sands in this well bore.

- Lewis perms 3898' – 5032'.

- Mesaverde perms 5223' – 5896'.

- Dakota perms 7682' – 7704'.

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

COMMENTS

Action 105512

COMMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 105512
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
kpickford	Partial CBL on file	5/12/2022

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 105512

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 105512
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	5/12/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	5/12/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	5/12/2022