

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

Well Name: SAN JUAN 30-6 UNIT	Well Location: T30N / R7W / SEC 25 / NENE / 36.78853 / -107.51593	County or Parish/State: RIO ARRIBA / NM
Well Number: 78	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF079382	Unit or CA Name: SAN JUAN 30-6 UNIT --MV	Unit or CA Number: NMNM78420A
US Well Number: 3003907777	Well Status: Gas Well Shut In	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2664456

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 03/30/2022

Time Sundry Submitted: 07:30

Date proposed operation will begin: 04/13/2022

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 2/23/22 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

SJ_30_6_78_Final_Reclamation_Plan_20220330072958.pdf

San_Juan_30_6_Unit_78_PA_Procedure_for_NOI_20220330072958.pdf

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Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

General_Requirement_PxA_20220511091307.pdf

2664456_NOIA_78_3003907777_KR_05112022_20220511091249.pdf

30N07W25AKmv_San_Juan_30_6_Unit_78_20220510093212.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 30, 2022 07:30 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 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: 05/11/2022

Signature: Kenneth Rennick



P&A Procedure

General Information			
Well Name	San Juan 30-6 #78	Date:	3/29/2022
API:	30-039-07777	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" 25.4# SW at 173'
 Intermediate Casing: 7" J-55 23# at 5,072'
 Production Casing: 4-1/2" 10.5# K-55 at 5,943'
 Production Tubing: 2-3/8" J-55 4.7# at 5,803'
 Current Perforations: 5,167'-197', 5,520'-812'
 Current PBTD: 5,933' (Cement)
 CBL: 4-1/2" csg 1/9/2018
 SICP = 160 psig; SIBP: 0 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.

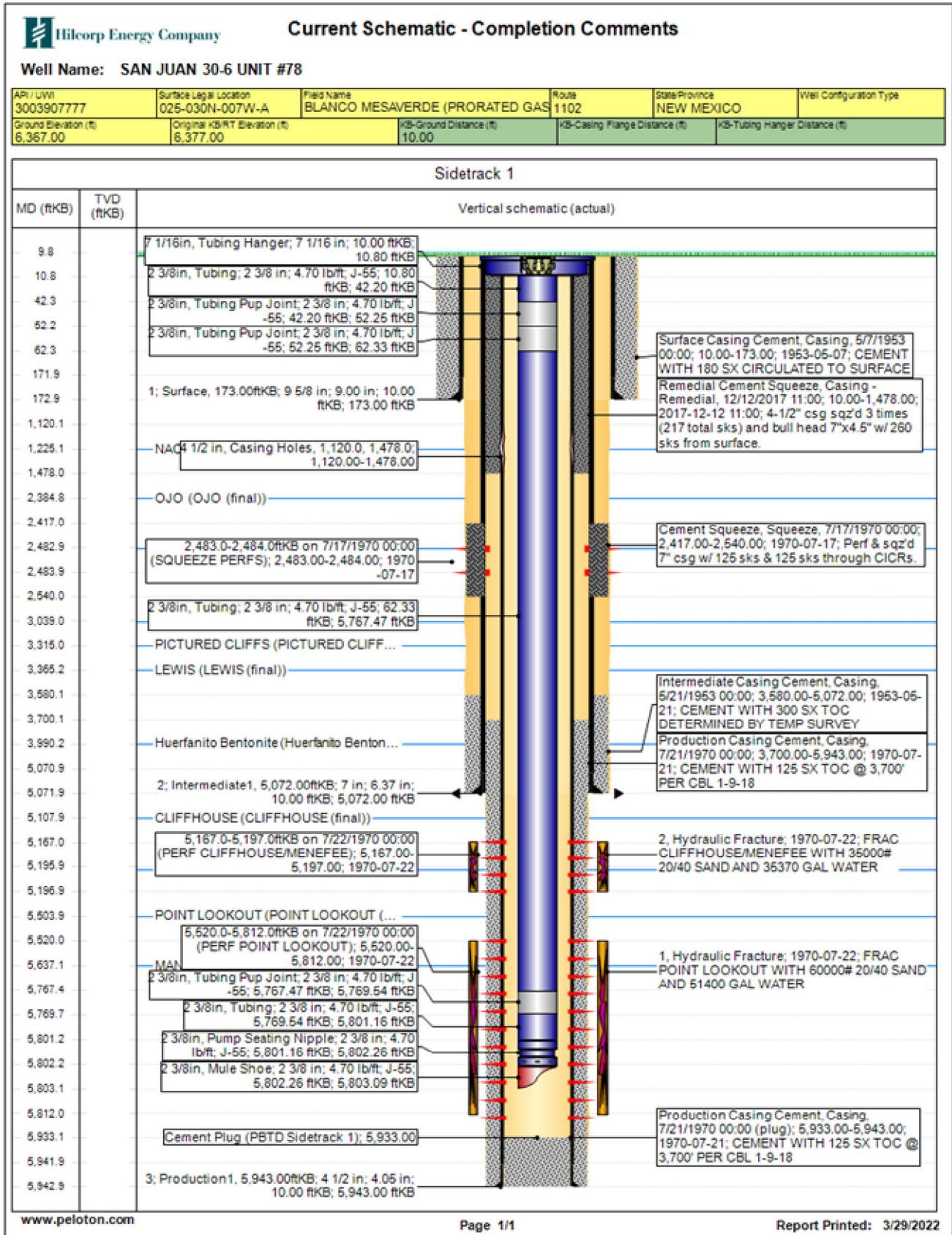
Remember to notify NMOCD & BLM 24 hours prior to starting operations on location. This procedure is contingent upon P&A sundry approval by the NMOCD & BLM.

P&A Rig Procedure: San Juan 30-6 Unit #78

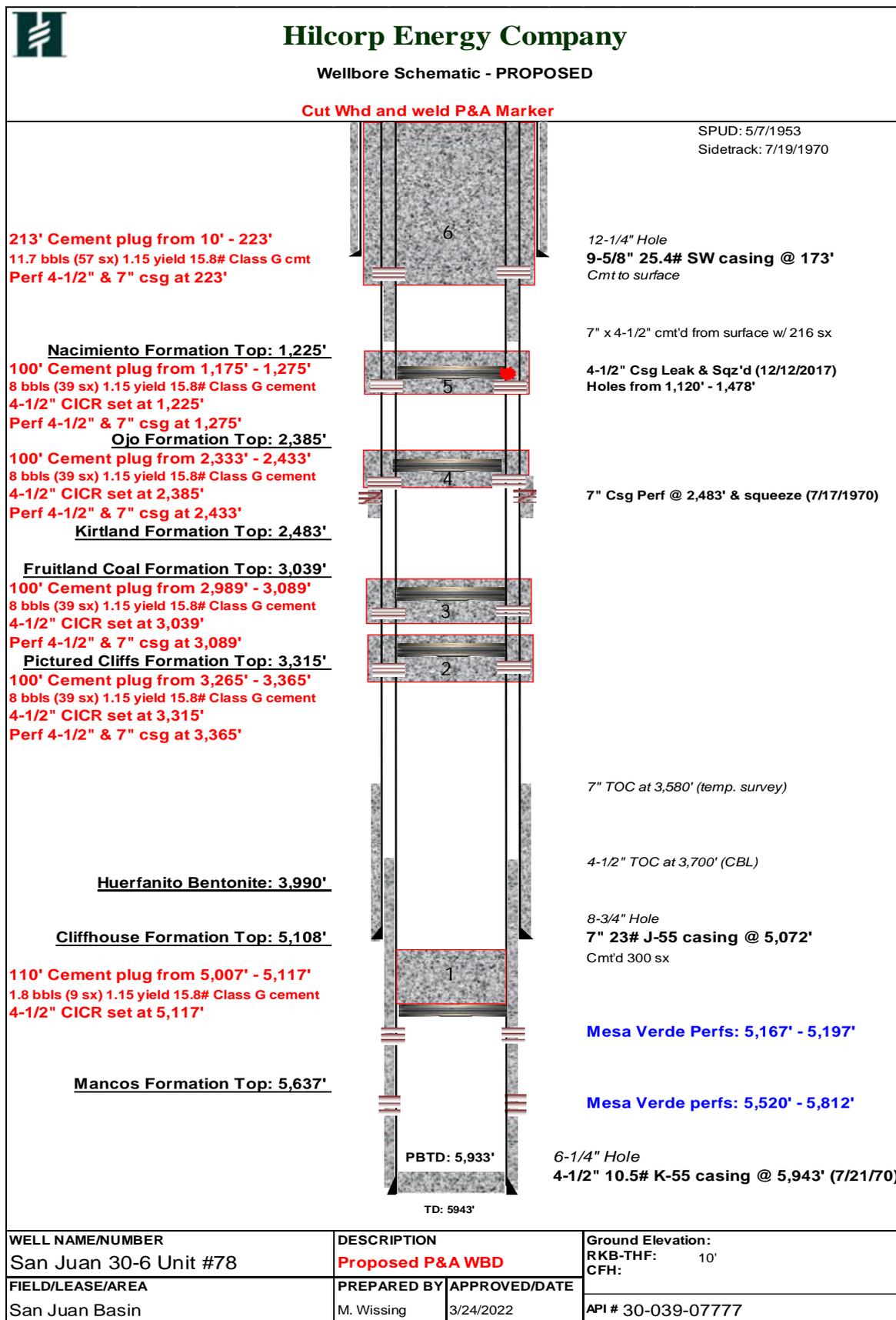
1. MIRU P&A rig and equipment. Record pressures on all strings.
2. NU BOP & test. Release tbg hanger and TOO H with 2-3/8" production tbg.
3. MU and RIH with 4.5" casing scraper to +/- 5,125'.
4. MU 4.5" CICR and RIH with 2-3/8" work string. Set CICR at 5,117'.
 - a. **Top Mesa Verde perf at 5,167'**;
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 (Top Mesa Verde perf at 5,167', Cliff House top at 5,108')**: RU cementers and pump a 110' balanced cmt plug inside the 4-1/2" csg from 5,057'-5,167', using 1.6 bbls (8 sx) of 15.8+ ppg Class G cmt.
7. RU E-line and MU DP charges. RIH and perf 4-1/2" csg & 7" csg at 3,365'.
8. **Plug #2 (PC top at 3,315')**: Verify injection rate into perforations. RU cementers and pump a 100' inside/outside cement plug in the 4-1/2" csg & outside 7" csg from 3,265' – 3,365', using 8 bbls (39 sx) of 15.8+ ppg Class G cmt.
 - a. If cement plug is pumped in early part of the day, set 4-1/2" CICR at 3,315'.
 - b. If cement plug is pumped at the end of the day, no CICR will be used and WOC overnight.
9. RU E-line and MU DP charges. RIH and perf 4-1/2" csg & 7" csg at 3,039'.
10. **Plug #3 (FRC top at 3,039')**: Verify injection rate into perforations. RU cementers and pump a 100' inside/outside cement plug in the 4-1/2" csg & outside 7" csg from 2,989' – 3,089', using 8 bbls (39 sx) of 15.8+ ppg Class G cmt.
 - a. If cement plug is pumped in early part of the day, set 4-1/2" CICR at 3,039'.
 - b. If cement plug is pumped at the end of the day, no CICR will be used and WOC overnight.
11. RU E-line and MU DP charges. RIH and perf 4-1/2" csg & 7" csg at 2,433'. (Previous 7" squeeze in 1970 into Kirtland top at 2,483')

12. **Plug #4 (Kirtland top at 2,483' & Ojo top at 2,385')**: Verify injection rate into perforations. RU cementers and pump a 100' inside/outside cement plug in the 4-1/2" csg & outside 7" csg from 2,333' – 2,433', using 8 bbls (39 sx) of 15.8+ ppg Class G cmt.
 - a. If cement plug is pumped in early part of the day, set 4-1/2" CICR at 2,385'.
 - b. If cement plug is pumped at the end of the day, no CICR will be used and WOC overnight.
13. RU E-line and MU DP charges. RIH and perf 4-1/2" csg & 7" csg at 1,275'.
14. **Plug #4 (Nacimiento top at 1,225')**: Verify injection rate into perforations. RU cementers and pump a 100' inside/outside cement plug in the 4-1/2" csg & outside 7" csg from 1,175' – 1,275', using 8 bbls (39 sx) of 15.8+ ppg Class G cmt.
 - a. If cement plug is pumped in early part of the day, set 4-1/2" CICR at 1,225'.
 - b. If cement plug is pumped at the end of the day, no CICR will be used and WOC overnight.
15. TOOH with tbg string.
16. RU E-line and MU DP charges. RIH and perf 4-1/2" & 7" csg at 223'. POOH.
17. **Plug #5 (Surface & Surface casing shoe at 173')**: Establish circulation between 4-1/2" csg & 9-5/8" x 7" annulus. RU cementers and circulate a 213' cement plug from Surface – 223' inside the 4-1/2" csg & 9-5/8" x 7" annulus using 11.7 bbls (57 sx) of 15.8 ppg Class G cmt.
18. Verify all pressures on all strings are at 0 psi.
19. ND BOP. Tag cmt and top off wellbore as needed. Cutoff wellhead at surface and weld on P&A marker.
20. RDMO P&A rig.

CURRENT WELLBORE SCHEMATIC



PROPOSED WELLBORE SCHEMATIC



Hilcorp Energy

San Juan 30-6 Unit 78

36.78853, -107.51593

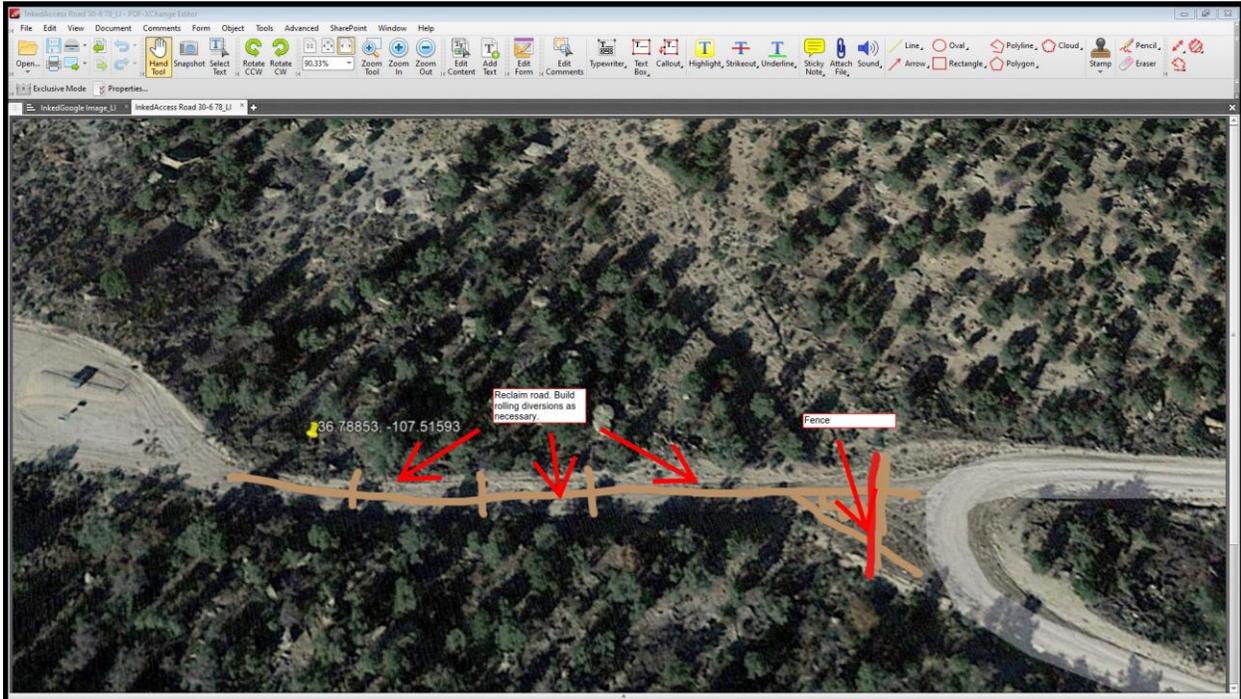
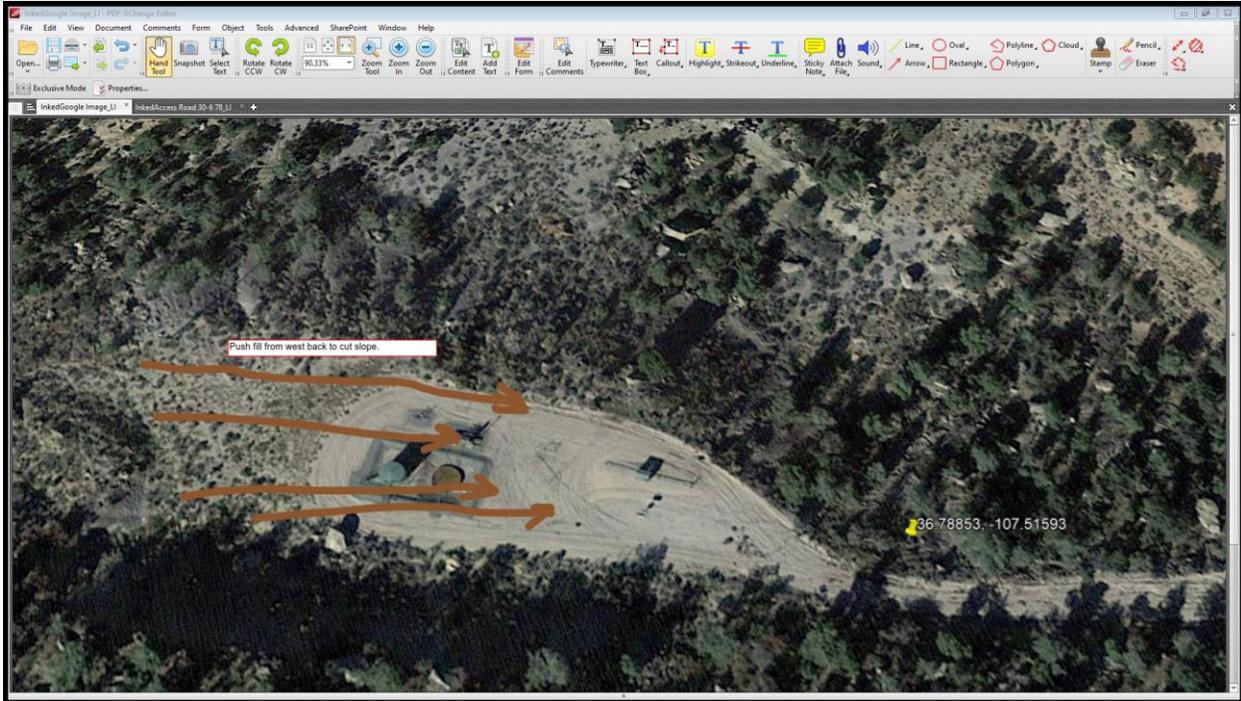
API-30-039-07777

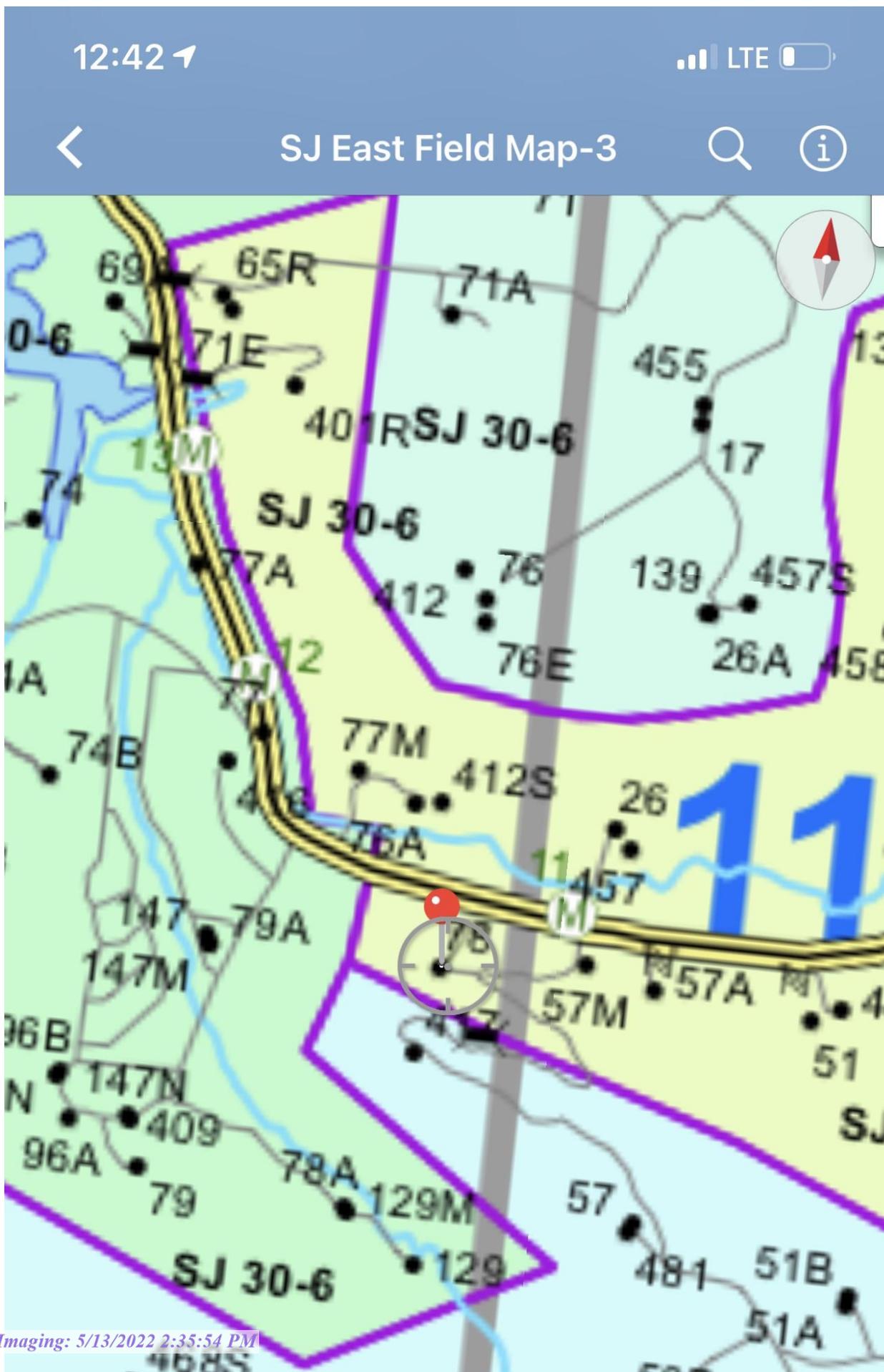
30N-07W SEC 25

Final Reclamation Plan

Onsite Completed on 2/23/2022 with Roger Herrera

1. Pick up and remove all trash, metal, cable, and any foreign debris within 100' of location.
2. Remove anchors.
3. Strip equipment off of facility.
4. Remove piping and cables.
5. P&A cathodic well. Remove power to disconnect.
6. Harvest to remove meter run and piping back to dog leg.
7. Bury gravel in fill slope.
8. Push fill from west of location back to cut slope, re-creating natural terrain.
9. Reclaim access road. Fence access road at the main road using T-Post and woven wire, 3 strand fence with braces on each end. T-Post shall be a maximum of 10' apart.
10. Rip compacted soil, leaving rough terrain.
11. 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. Pinion/Juniper seed mix will be used.





**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.

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

AFMSS 2 Sundry ID 2664456

Attachment to notice of Intention to Abandon

Well: San Juan 30-6 Unit 78

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 lower Mesaverde/upper Mancos perms at 5520'.
 - b) Bring the bottom of Plug #4 (Kirtland and Ojo) down to 2533' to cover the entire Ojo Alamo and top of the Kirtland.
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 5/11/2022

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 05/10/2022

Well No. San Juan 30-6 Unit #78 (API# 30-039-07777)	Location	790	FNL	&	990	FEL
Lease No. NMSF-079382	Sec. 25	T30N			R07W	
Operator Hilcorp Energy Company	County	Rio Arriba		State	New Mexico	
Total Depth 5943'	PBTD 5933'	Formation Mesaverde				
Elevation (GL) 6367'		Elevation (KB) 6377'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	1225	Surface/possible freshwater sands
Nacimiento Fm			1225	2385	Possible fresh/usable water
Ojo Alamo Ss			2385	2483	Aquifer (possible freshwater)
Kirtland Shale			2483	3039	
Fruitland Fm			3039	3315	Coal/Gas/Water
Pictured Cliffs Ss			3315	3365	Probable Gas
Lewis Shale			3365	4340	
Chacra			4340	5108	
Cliff House Ss			5108	5196	Water/gas
Menefee Fm			5196	5504	Coal/Ss/Water/gas
Point Lookout Ss			5504	5637	Probable water/gas
Mancos Shale			5637	PBTD	Gas
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison Formation					

Remarks:

P & A

- Add a plug to cover the lower Mesaverde/upper Mancos perms at 5520'.
- Bring the bottom of Plug #4 (Kirtland and Ojo) down to 2533' to cover the entire Ojo Alamo and top of the Kirtland.
- The plugs proposed in the P&A procedure, with recommended changes, will adequately protect any freshwater sands in this well bore.
- Mesaverde perms 5167' – 5197' and 5520' – 5812' (lower perms in both Mesaverde and Mancos).

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 105945

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 105945
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	5/13/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	5/13/2022