

Well Name: DAVIDSON GAS COM F	Well Location: T28N / R10W / SEC 28 / SENW / 36.636215 / -107.904221	County or Parish/State: SAN JUAN / NM
Well Number: 1E	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF077383A	Unit or CA Name: DAVIDSON GAS COM F	Unit or CA Number: NMNM73558
US Well Number: 3004524113	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2664073

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 03/28/2022

Time Sundry Submitted: 09:13

Date proposed operation will begin: 04/04/2022

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 will be conducted on 4/7/2022 and the Re-Vegetation Plan will be submitted after. A closed loop system will be used.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

30045241130000_Davidson_Gas_Com_F_1E_P_A_NOI_20220328091038.pdf

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WELL

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Unit or CA Name: DAVIDSON GAS
COM F

Unit or CA Number:
NMNM73558

US Well Number: 3004524113

Well Status: Producing Gas Well

Operator: HILCORP ENERGY
COMPANY

Conditions of Approval

Additional Reviews

General_Requirement_PxA_20220328133207.pdf

2664073_NOIA_F_1E_3004524113_KR_03282022_20220328133153.pdf

28N10W28FKd_Davidson_Gas_Com_F_1E_20220328114304.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: MAR 28, 2022 09:13 AM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST.

City: HOUSTON

State: 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: 03/28/2022

Signature: Kenneth Rennick

Plug and Abandonment - NOI

Davidson Gas Com F 1E

API # - 3004524113

Procedure:

Hold PJSM prior to beginning any and 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 string daily, prior to beginning operations.

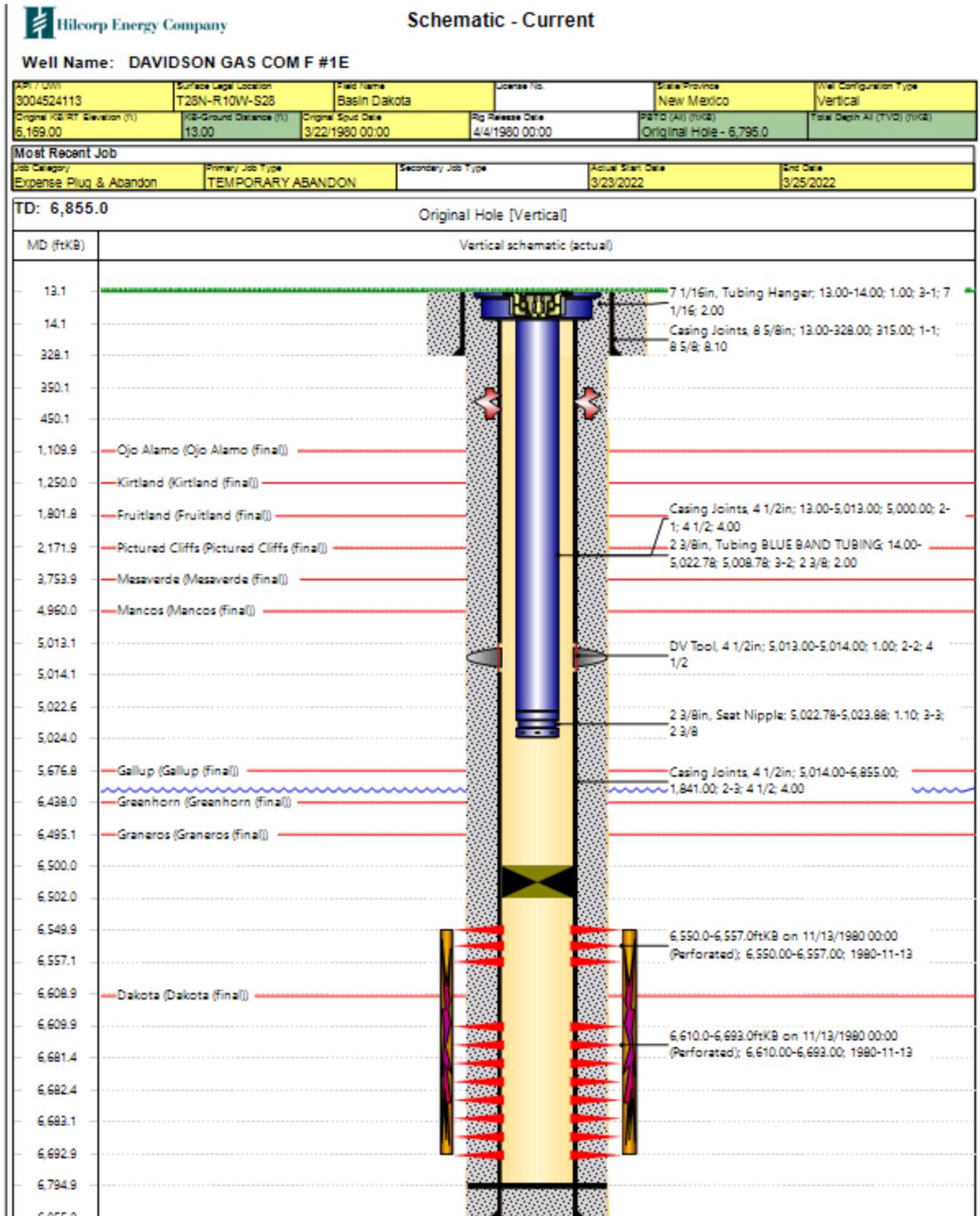
Remember to notify BLM/NMOCD 24 hours prior to starting operations on location.

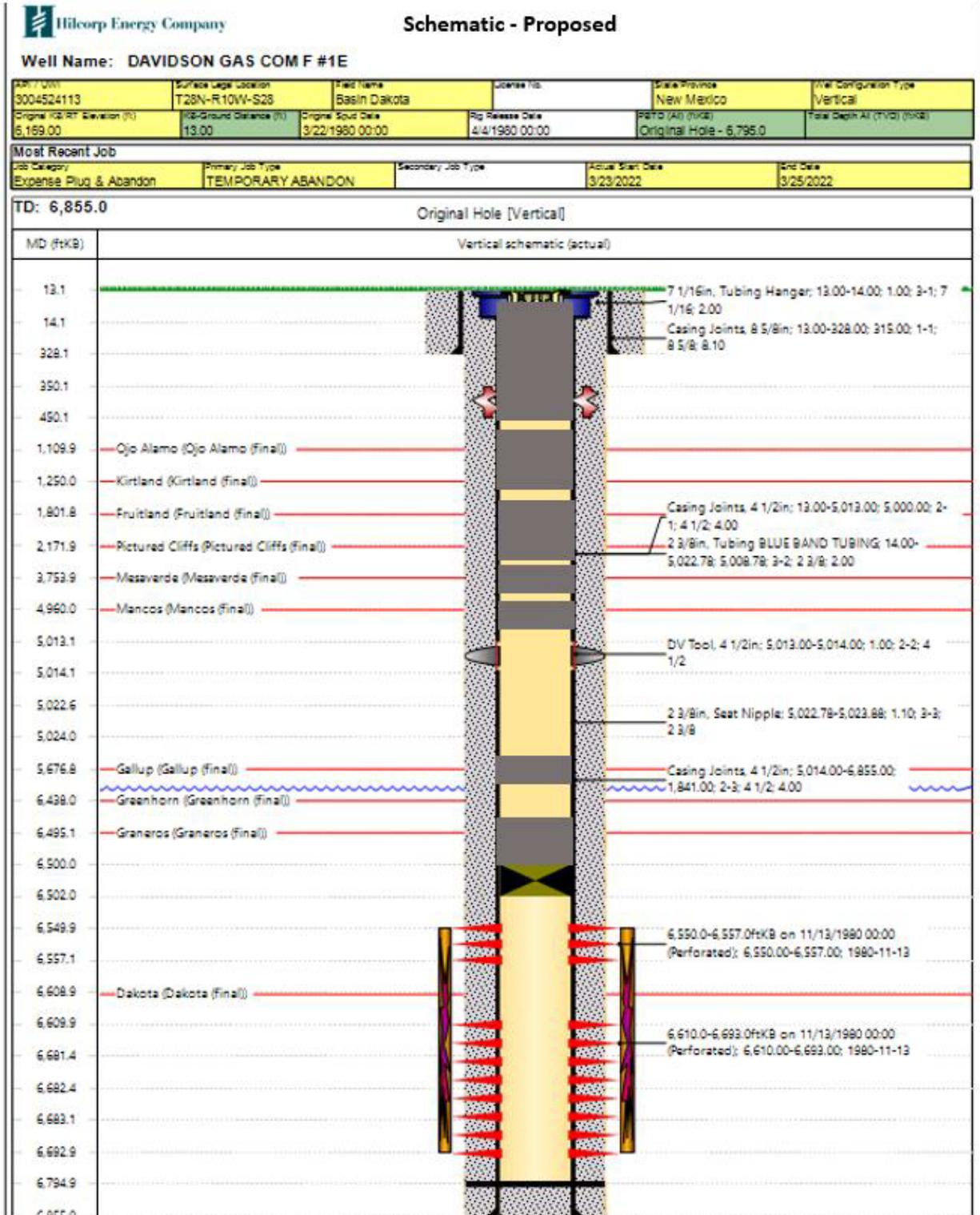
NOTE: This procedure is contingent upon sundry approval by BLM/NMOCD. All cement volumes use 100% excess outside pipe and 50' excess inside (unless otherwise stated). All cement will be Class G, mixed at 15.8 ppg w/ a 1.15 cf/sx yield. The stabilizing wellbore fluid will be an 8.3 ppg fluid, sufficient to balance all exposed formation pressures.

During TA operations, casing damage was found between surface casing shoe and top of Ojo Alamo. Hilcorp has elected to move to P&A. Procedure below.

1. This project will use a steel tank to handle waste fluids circulated from the well and cement wash up.
2. Test anchors if not using a base beam. Comply with all NMOCD, BLM, and HEC safety regulations. MIRU and conduct safety meeting for all personnel on location.
3. Record casing, tubing, and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary. Ensure well is dead or on a vacuum.
4. ND wellhead and NU BOP, Unseat tubing hanger and POOH laying down pipe.
5. RUWL and make GR run to top perf at 6550'.
6. Run CBL from top of CIBP at 6500' to surface. **NOTE PRESSURE TESTING WAS COMPLETED DURING TA TO ISOLATE DAMAGED CASING, CASING TESTED ABOVE OJO ALAMO TOP UNTIL HOLES WERE ISOLATED JUST BELOW SURFACE SHOE. CEMENT WILL BE SPOTTED AND WE WILL NOT WOC AND TAG BELOW OJO ALAMO.**
7. **Plug #1**, RIH with tubing and circulate 50' of cement on existing CIBP.

8. **Plug #2, 5727' - 5627' (Gallup Top: 5677')**
9. Circulate plug mud to 5727'.
10. Spot 1.6 bbl of cement (100')
11. Circulate plug mud to 5010'
12. **Plug #3, 5010' - 4910' (Mancos Top: 4960')**
13. Spot 1.6 bbl of cement (100')
14. Circulate plug mud to 3804'
15. **Plug #4, 3804' - 3704' (Mesaverde: 3754')**
16. Spot 1.6 bbl of cement (100')
17. Circulate plug mud to 2222'.
18. **Plug #5, 2222'-1752' (Pictured Cliffs: 2172', Fruitland Coal: 1802')**
19. Circulate 7.5 bbl of cement (470')
20. Circulate plug mud to 1300'.
21. **Plug #6, 1300' - 1060' (Kirtland: 1250', Ojo Alamo: 1110')**
22. Circulate 3.85 bbl of cement (240').
23. Circulate plug mud to 500'.
24. Establish circulation to bradenhead with fresh water through damaged casing.
25. POOH with tubing, PU CICR, set at 290'
26. **Plug #7, 500' - Surface (Surface Shoe: 328')**
27. Circulate cement below CICR to surface. (minimum 36 bbl.)
28. Sting out of retainer and circulate cement to surface (4.6 bbl.)
29. ND BOP and cut off wellhead below surface casing flange per regulation. Top off w/cement if needed. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location.





**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 2664073

Attachment to notice of Intention to Abandon

Well: Davidson Gas Com F 1E

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) Adjust Plug #3 (Mancos) to cover BLM formation top pick at 4810'.
 - b) Add a plug to cover the Chacra formation top at 2725'.
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 3/28/2022

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 03/28/2022

Well No. Davidson Gas Com F #1E (API# 30-045-24113)	Location	1520	FNL	&	1520	FWL
Lease No. NMSF-077383A	Sec. 28	T28N			R10W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth 6855'	PBTD 6764'	Formation Dakota				
Elevation (GL) 6156'		Elevation (KB) 6169'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm			Surface	1110	Surface/possible freshwater sands
Ojo Alamo Ss			1110	1250	Aquifer (possible freshwater)
Kirtland Shale			1250	1832	
Fruitland Fm			1832	2172	Coal/Gas/Possible water
Pictured Cliffs Ss			2172	2268	Gas
Lewis Shale			2268	2725	
Chacra			2725	3754	Possible Gas
Cliff House Ss			3754	3846	Water/Possible gas
Menefee Fm			3846	4510	Coal/Ss/Water/Possible O&G
Point Lookout Ss			4510	4810	Probable water/Possible O&G
Mancos Shale			4810	5677	
Gallup			5677	6438	O&G/Water
Greenhorn			6438	6495	
Graneros Shale			6495	6550	
Dakota Ss			6550	PBTD	O&G/Water
Morrison Formation					

Remarks:

P & A

- BLM picks for the Fruitland and Mancos formation tops vary from Operator submission.
- Adjust Plug #3 (Mancos) to cover BLM formation top pick at 4810'.
- Add a plug to cover the Chacra formation top at 2725'.
- The plugs proposed in the P&A procedure, with changes recommended above, will adequately protect any freshwater sands in this well bore.
- CIBP set at 6500'.
- Graneros/Dakota perms 6550' – 6557' and 6610' – 6693'.

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 93592

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 93592
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	3/28/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	3/28/2022