

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

Well Name: O H RANDALL	Well Location: T26N / R11W / SEC 15 / SESE / 36.48329 / -107.98441	County or Parish/State: SAN JUAN / NM
Well Number: 6E	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM03153	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004524751	Well Status: Inactive	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2686671

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 08/11/2022

Time Sundry Submitted: 06:58

Date proposed operation will begin: 08/18/2022

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 4/12/22 with Emmanuel Adeloye/BLM, Bertha Spencer/BIA & Larsen Nez/Navajo Nation. 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

OH_RANDEL_6E_P_A_Procedure_for_NOI_20220811065641.pdf

O_H_RANDEL_6E_Reclamation_Plan_20220811065640.pdf

Well Name: O H RANDALL

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Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

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Unit or CA Name:

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US Well Number: 3004524751

Well Status: Inactive

Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

26N11W15PKg_O_H_Randel_006E_20220826142231.pdf

Authorized

General_Requirement_PxA_20220829084546.pdf

2686671_NOIA_6E_3004524751_KR_08292022_20220829084526.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: AUG 11, 2022 06:58 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: 08/29/2022

Signature: Kenneth Rennick



P&A Procedure

General Information			
Well Name	O H Randel 6E	Date:	8/10/2022
API:	30-045-24751	AFE #	
Field:	San Juan South	County	San Juan
Status:	Well is ACOI		
Subject:	Permanently P&A wellbore		
By:	M. Wissing		

Well Data

SPUD: 1/12/1981

Surface Casing: 8-5/8" 24# J-55 at 840'

Production Casing: 4-1/2" K-55 10.5# 8rd at 6,346' (DV tool at 4,527')

Production Tubing: 2-3/8" 4.7# J-55 8rd at 5,774' (5/2011) w/ tbg anchor

Rod String: insert rod pump + shear tool+ sinker bars + 3/4" guided & slick rods

Current Perforations: 5,388'-5,550'

Current PBTD: 6,186' (cmt plug + CICR)

SICP = 74 psig; SIBP: 0 psi (4/2022)

CBL: 2/1981: logged 4300'-PBTD.

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. All cement volumes and depths include a 50' volume of excess of cement.

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: O H Randel 6E

1. MIRU P&A rig and equipment. Record pressures on all strings daily.
 - a. *Monitor BH pressure during project.*
2. Blow down well, kill well as needed with water. TOOH with rod string and insert rod pump.
3. ND wellhead and NU 5k BOP. Pressure test BOP.
4. Release tbg hanger and tbg anchor at 5,772'. TOOH with 2-3/8" prod tbg at 5,775'.
 - a. *If using work string, no tbg scan need.*
5. MU 4-1/2" csg scraper and RIH, clear csg to 5,350'. POOH.
6. MU 4-1/2' CICR and RIH. Set CICR at 5,340'. Roll hole and circulate well clean.
7. Pressure test casing to 500 psi to verify integrity.
8. **Plug #1 (Gallup top at 5,236')**: RU cementers and pump a 204' balanced cmt plug inside the 4-1/2" csg from 5,136'-5,286', using 3.3 bbls (16 sx) of 15.8+ ppg Class G cmt.
9. **Plug #2 (Mancos Formation Top at 4,430')**: RU cementers and pump a 150' balanced cmt plug inside the 4-1/2" csg from 4,330'-4,480', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
10. TOOH with tbg string.
11. RU E-line and RIH with CBL tools. Log entire well and review results with BLM and NMOCD to plan all future cmt plugs.
12. RIH with tbg string.
13. **Plug #3 (Mesa Verde formation top at 3,250')**: RU cementers and pump a 150' balanced cmt plug inside the 4-1/2" csg from 3,150' - 3,300' using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
14. **Plug #4 (PC top at 1,742')**: RU cementers and pump a 150' cement plug inside the 4-1/2" csg from 1,642'-1,792', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
15. **Plug #5 (FRC top at 1,390')**: RU cementers and pump a 150' cement plug inside the 4-1/2" csg from 1,290-1,440', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.

16. **Plug #6 (Csg shoe at 840')**: RU cementers and pump a 65' cement plug inside the 4-1/2" csg from 825'-890', using 1 bbls (5 sx) of 15.8+ ppg Class G cmt.
 - a. *Based on CBL results, adjust plug as needed.*
17. RU E-line and MU circulating charges. RIH and perf 4-1/2" csg at +/- 800'.
18. Establish circulation with 8-5/8" x 4-1/2" csg annulus.
19. **Plug #7 (Ojo top at 675', Kirtland top at 785')**: RU cementers and pump a 225' cement plug inside the 4-1/2" csg and 4-1/2" x 8-5/5" annulus from 575'-800', using 13.7 bbls (67 sx) of 15.8+ ppg Class G cmt.
20. Monitor BH pressure after cmt plug is pumped. Adjust all future plugs based on BH pressure.
21. RU E-line and MU perf charges. Perf 4-1/2" csg at 50'.
22. **Plug #8 (Surface)**: RU cementers and circulate a 50' cmt plug inside 4-1/2" csg and 8-5/8" x 4-1/2" csg annulus from 0' – 50', using 3.1 bbls (15 sx) of 15.8+ ppg Class G cmt. Bring cmt to surface.
23. Verify all pressures on all strings are at 0 psi.
24. ND BOP. Tag cmt and top off wellbore as needed. Cutoff wellhead at surface and weld on P&A marker.
25. RDMO P&A rig.

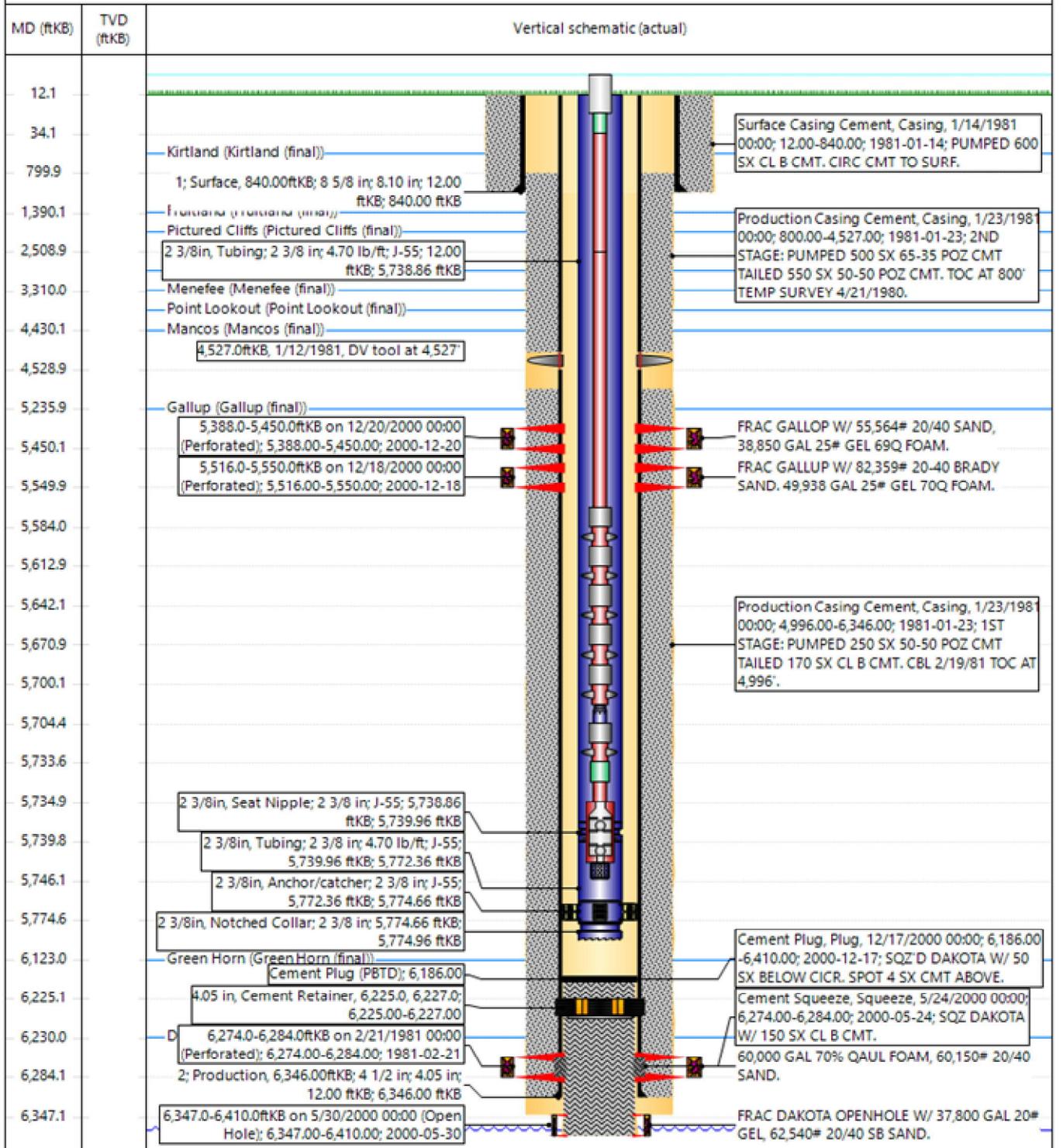


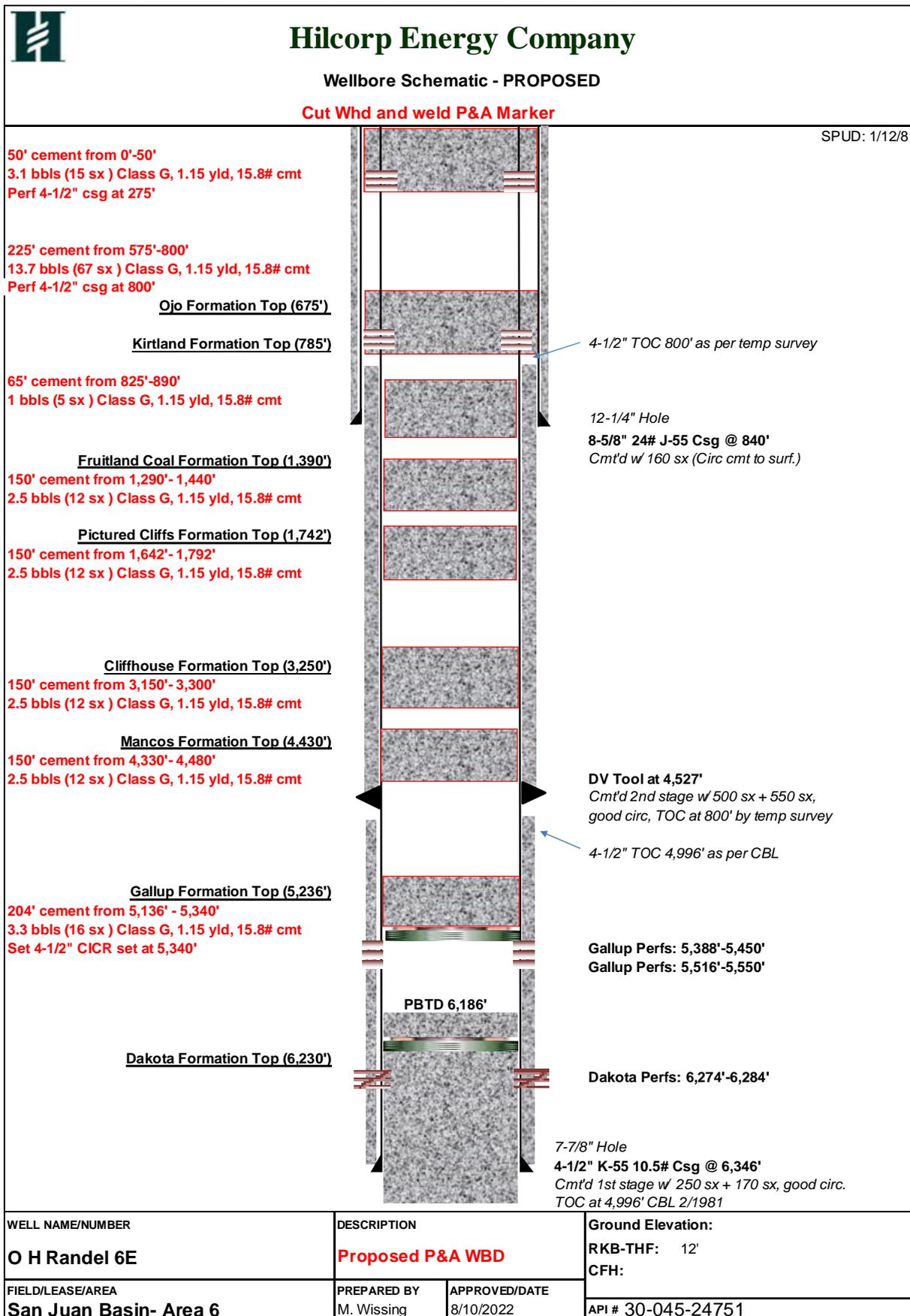
Current Schematic - Completion Comments

Well Name: O H RANDEL #6E

API / UWI 3004524751	Surface Legal Location T26N-R11W-S15	Field Name Basin Dakota	Route 0605	State/Province New Mexico	Well Configuration Type Vertical
Ground Elevation (ft) 6,383.00	Original KB/RT Elevation (ft) 6,395.00	KB-Ground Distance (ft) 12.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole [Vertical]





Hilcorp Energy
P&A Final Reclamation Plan
O H RANDEL 6E
API: 30-045-24751
T26N-R11W-Sec. 15-Unit P
LAT: 36.483411 LONG: -107.9844 NAD 27
Footage: 940' FSL & 790' FEL
San Juan County, NM

1. PRE- RECLAMATION SITE INSPECTION

A pre-reclamation site inspection was completed with Bertha Spencer and Larsen Nez of the Navajo Nation, Emmanuel Adeloyle from the BLM and Eufrazio Trujillo, Hilcorp Energy SJ South Construction Foreman on April 12, 2022.

2. LOCATION RECLAMATION PROCEDURE

1. Reclamation work will take place when P&A of location collocated on pad.
2. Removal of all equipment, anchors, flowlines, cathodic, and pipelines.
3. Sample and close out BGT when test results permit closure.
4. Remove and sample line drip.
5. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
6. Rip compacted soil and walk down disturbed portion of well pad.
7. Rip and seed location.
8. Remove all stained gravel and test if needed. Haul impacted soils to land farm.
9. Remove all gravel from berms, pads, and meter run.
10. Haul out gravel to ranchers.
11. Hilcorp Energy meter run will be removed out of their ROW. Barricade and blind riser if needed.
12. Enterprise will remove small section of pipeline off location and blind riser on opposite end.

3. ACCESS ROAD RECLAMATION PROCEDURE

1. The well access road will not be reclaimed until other well is P&A.

4. SEEDING PROCEDURE

1. A Sagebrush seed mix will be used for all reclaimed and disturbed areas of the well pad and lease road.
2. Drill seed will be done where applicable, and all other disturbed areas will be broadcast seeded and harrowed. Broadcast seeding will be applied at a double the rate of seed.
3. Timing of the seeding will be when the ground is not frozen or saturated.

5. WEED MANAGEMENT

1. No noxious weeds were identified during this onsite.

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

Date Completed: 08/26/2022

Well No. O H Randel #006E (API# 30-045-24751)	Location	940	FSL	&	790	FEL
Lease No. NMNM03153	Sec. 15	T26N			R11W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth 6347'	PBTD 6186'	Formation Gallup (Dakota @ original TD)				
Elevation (GL) 6383'		Elevation (KB) 6395'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento			Surface	675	Surface/possible freshwater sands
Ojo Alamo Ss			675	785	Aquifer (possible freshwater)
Kirtland Shale			785	1390	Possible gas
Fruitland			1390	1742	Coal/Gas/Water
Pictured Cliffs Ss			1742	2020	Probable Gas
Lewis Shale			2020	2546	
Chacra			2546	3250	Possible Gas
Cliff House Ss			3250	3310	Water/possible gas
Menefee			3310	4126	Coal/Ss/Water/probable gas
Point Lookout Ss			4126	4430	Probable water/possible O&G
Mancos Shale			4430	5262	Probable O&G
Gallup			5262	6123	Probable O&G
Greenhorn			6123	6180	
Graneros Shale			6180	PBTD	Possible O&G
Dakota Ss					O&G/water
Morrison					

Remarks:

P & A

- BLM pick for the Gallup formation top varies from Operator. No plug change necessary for the Gallup based on proposed plug length.
- Add a plug to cover the Chacra formation top at 2546'.
- The plugs proposed in the P&A procedure, with recommended changes, will adequately protect any freshwater sands in this well bore.
- Gallup perfs 5388' – 5550'.

Reference Wells:

1) **Formation Tops**
Same

Prepared by: Chris Wenman

**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 2686671

Attachment to notice of Intention to Abandon

Well: O H Randall 6E

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 Chacra formation top at 2546'.
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 8/29/2022

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 138714

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 138714
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	8/29/2022
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	8/29/2022