

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

Well Name: ANGEL PEAK	Well Location: T28N / R11W / SEC 10 / SWSE / 36.671997 / -107.987534	County or Parish/State: SAN JUAN / NM
Well Number: 23E	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF071867	Unit or CA Name: ANGEL PEAK	Unit or CA Number: NMNM73756
US Well Number: 3004524516	Well Status: Gas Well Shut In	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2685387

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 08/03/2022

Time Sundry Submitted: 07:23

Date proposed operation will begin: 08/17/2022

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 5/10/2022 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

Angel_Peak_23E_P_A_Procedure_for_NOI_20220803072230.pdf

Angel_peak_23E_Reclamation_Plan_20220803072229.pdf

Well Name: ANGEL PEAK

Well Location: T28N / R11W / SEC 10 / SWSE / 36.671997 / -107.987534

County or Parish/State: SAN JUAN / NM

Well Number: 23E

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF071867

Unit or CA Name: ANGEL PEAK

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US Well Number: 3004524516

Well Status: Gas Well Shut In

Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

28N11W10OKd_Angel_Peak_23E_20220810140309.pdf

Authorized

General_Requirement_PxA_20220810141448.pdf

2685387_NOIA_23E_3004524516_KR_08102022_20220810141433.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 03, 2022 07:23 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: 08/10/2022

Signature: Kenneth Rennick



P&A Procedure

General Information			
Well Name	Angel Peak 23E	Date:	8/2/2022
API:	30-045-24516	AFE #	
Field:	San Juan South	County	San Juan
Status:	Well is ACOI		
Subject:	Permanently P&A wellbore		
By:	M. Wissing		

Well Data

SPUD: 12/8/1980

Surface Casing: 8-5/8" 24# H-40 at 266'

Production Casing: 4-1/2" J-55 10.5# 8rd at 6,354'

Production Tubing: 2-3/8" 4.7# J-55 8rd at 6,139' (3/1999)

Current Perforations: 6,055'-6,203'

Current PBTD: 6,310' (cmt plug)

SICP = 243 psig; SIBP: 243 psi (4/2022)

Notes: Swab last on well 4/2019 tagged at 6,173' with 1.75' GR. Last WL was in 2013. Historic bullhead cement down well's 8-5/8" x 4-1/2" csg annulus to handle water inflow during drilling operations in 1980.

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: Angel Peak 23E

1. RU Slickline and clear tbg to SN, pull any downhole plunger equipment if present.
2. MIRU P&A rig and equipment. Record pressures on all strings daily.
 - a. Monitor BH pressure during project.
3. Blow down well, kill well as needed with water. ND wellhead and NU 5k BOP. Pressure test BOP.
4. TOOH with 2-3/8" prod tbg at 6,139'.
 - a. If using work string, no tbg scan need.
5. MU 4/12" csg scraper and RIH, clear csg to 6,025'. POOH.
6. MU 4-1/2' CICR and RIH. Set CICR at 6,010'. Roll hole and circulate well clean. TOOH with tbg.
7. RU E-line and RIH with CBL tools. Log entire well and review results with BLM and NMOCD to plan all future cmt plugs.
8. RIH with 2-3/8" work string to 6,010'.
9. Pressure test casing to 500 psi to verify integrity.
10. **Plug #1 (Dakota top perf at 6,055')**: RU cementers and pump a 150' balanced cmt plug inside the 4-1/2" csg from 5,860'-6,010', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
11. **Plug #2 (Gallup top at 5,192')**: RU cementers and pump a 150' balanced cmt plug inside the 4-1/2" csg from 5,092'-5,242', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
12. **Plug #3 (Mancos Formation Top at 4,475')**: RU cementers and pump a 150' balanced cmt plug inside the 4-1/2" csg from 4,375'-4,525', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
13. **Plug #4 (Mesa Verde formation top at 3,136')**: RU cementers and pump a 150' balanced cmt plug inside the 4-1/2" csg from 3,036' - 3,186' using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
14. **Plug #5 (PC top at 1,618')**: RU cementers and pump a 150' cement plug inside the 4-1/2" csg from 1,518'-1,668', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
15. **Plug #6 (FRC top at 1,223')**: RU cementers and pump a 150' cement plug inside the 4-1/2" csg from 1,123'-1,273', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.

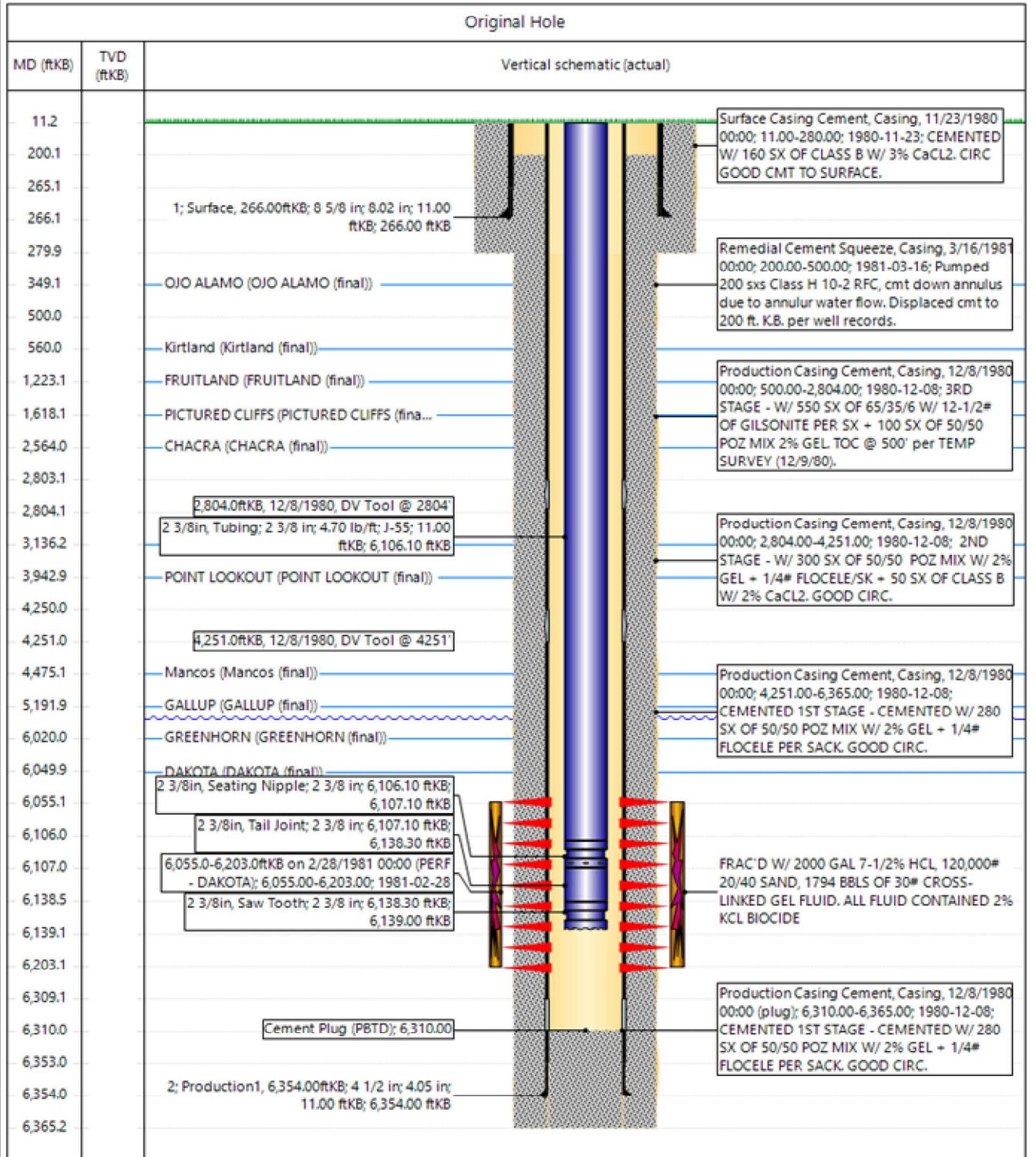
16. **Plug #7 (Kirtland top at 560')**: RU cementers and pump a 150' cement plug inside the 4-1/2" csg from 460'-610', using 2.5 bbls (12 sx) of 15.8+ ppg Class G cmt.
17. Monitor BH pressure after cmt plug is pumped. Adjust all future plugs based on BH pressure.
18. RU E-line and MU perf charges. Perf 4-1/2" csg at 400'.
 - a. *Based on CBL results, adjust plug as needed.*
19. Set 4-1/2' CICR (if needed) for Ojo cmt plug at 350'.
20. **Plug #8 (Ojo top at 349')**: RU cementers and pump a 100' cement plug inside and outside of 4-1/2" csg from 300'-400', using 9.8 bbls (48 sx) of 15.8+ ppg Class G cmt.
21. RU E-line and MU perf charges. Perf 4-1/2" csg at 275'.
 - a. *Based on CBL results, adjust plug as needed.*
22. **Plug #9 (Surface casing shoe at 266')**: RU cementers and circulate a 275' cmt plug inside 4-1/2" csg and 8-5/8" x 4-1/2" csg annulus from 0' – 275', using 16.8 bbls (82 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.

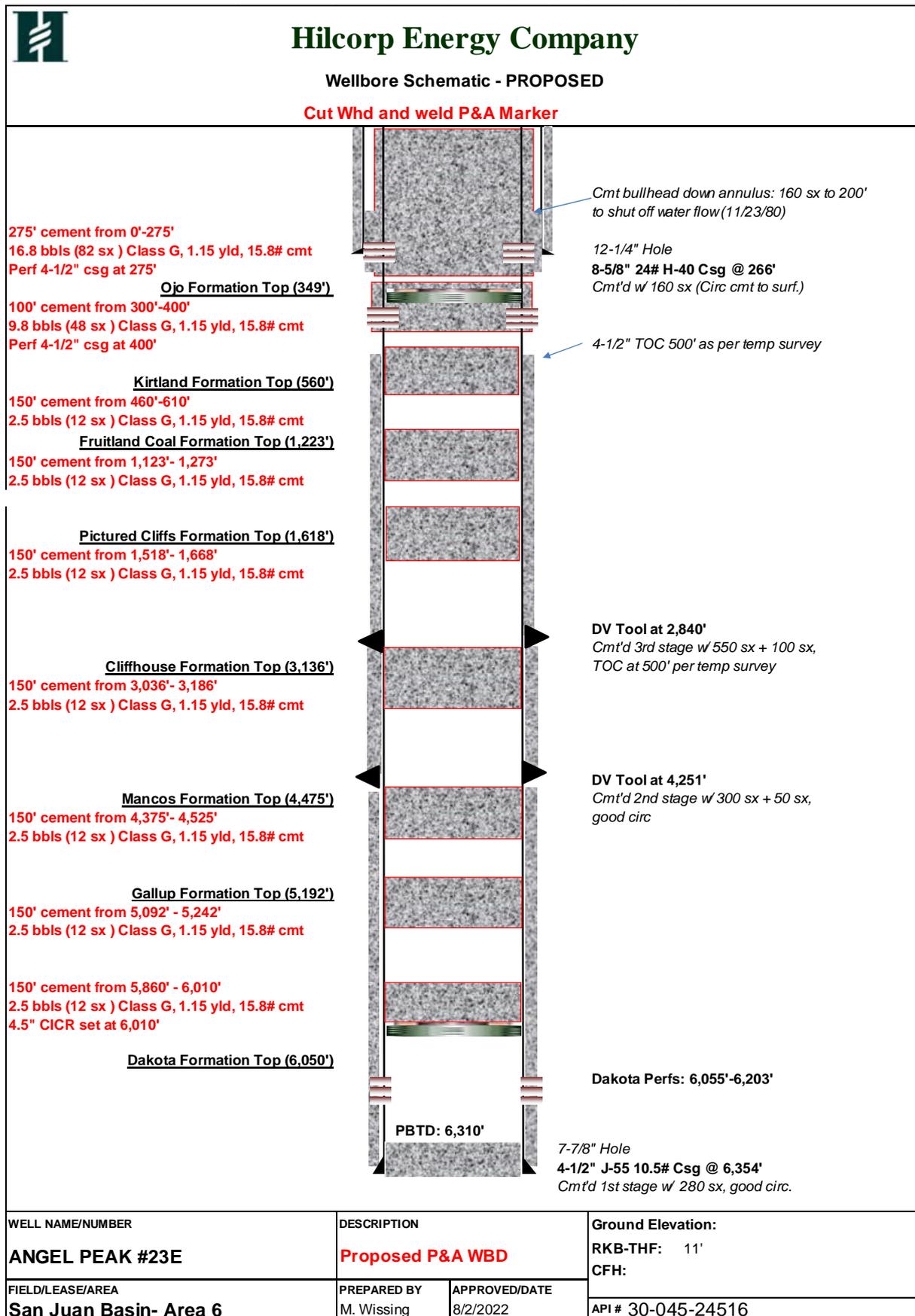


Current Schematic - Completion Comments

Well Name: ANGEL PEAK #23E

API / UWI 3004524516	Surface Legal Location 010-028N-011W-O	Field Name BASIN DAKOTA (PRORATED G #0068	Route 0601	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,511.00	Original KB-RT Elevation (ft) 5,522.00	KB-Ground Distance (ft) 11.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	





Hilcorp Energy
P&A Final Reclamation Plan
Angel Peak 23E
API: 30-045-24516
T28N-R10W-Sec. 10-Unit O
LAT: 36.672 LONG: -107.98755 NAD 27
Footage: 955' FSL & 1725' FEL
San Juan County, NM

1. PRE- RECLAMATION SITE INSPECTION

A pre-reclamation site inspection was completed with Roger Herrera from the BLM and Eufracio Trujillo, Hilcorp Energy SJ South Construction Foreman on May 10, 2022.

2. LOCATION RECLAMATION PROCEDURE

1. Reclamation work will begin in summer.
2. Removal of all equipment, anchors, flowlines, cathodic, and pipelines.
3. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
4. Close out BGT on location when results permit.
5. Rip compacted soil and walk down disturbed portion of well pad.
6. Push southwestern corner of location into cut on northeastern side.
7. Put in road on bottom of the toe of reclaim push into northeast side.
8. Reseed location after ripping entire pad.
9. Remove all gravel from berms, pads, and meter run and use on lease road where needed.
10. Hilcorp Energy meter run will be removed out of their ROW. Remove riser if possible or barricade in place.
11. Hilcorp Energy to remove pipeline if possible.

3. ACCESS ROAD RECLAMATION PROCEDURE

1. The well access road will be blocked at the southern edge off main lease road with a berm and ditch.

4. SEEDING PROCEDURE

1. A Badlands 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: 08/10/2022

Well No. Angel Peak #23E (API# 30-045-24516)	Location	955	FSL	&	1725	FEL
Lease No. NMSF071867	Sec. 10	T28N			R11W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth 6365'	PBTD 6310'	Formation Dakota				
Elevation (GL) 5511'		Elevation (KB) 5522'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento			Surface	349	Surface/possible freshwater sands
Ojo Alamo Ss			349	560	Aquifer (possible freshwater)
Kirtland Shale			560	1295	Possible gas
Fruitland			1295	1618	Coal/Gas/Water
Pictured Cliffs Ss			1618	1765	Probable Gas
Lewis Shale			1765	2595	
Chacra			2595	3136	Possible Gas
Cliff House Ss			3136	3238	Water/possible gas
Menefee			3238	3943	Coal/Ss/Water/probable gas
Point Lookout Ss			3943	4290	Probable water/possible O&G
Mancos Shale			4290	5192	Probable O&G
Gallup			5192	5950	Probable O&G
Greenhorn			5950	6015	
Graneros Shale			6015	6050	Probable O&G
Dakota Ss			6050	PBTD	O&G/water
Morrison					

Remarks:

P & A

- BLM picks for the Mancos and Fruitland formation tops vary from Operator.
- Adjust Plug #3 (Mancos) to cover BLM formation top pick at 4290'.
- Add a plug to cover the Chacra formation top at 2595'.
- Adjust Plug #6 (Fruitland) to cover BLM formation top pick at 1295'.
- The plugs proposed in the P&A procedure, with recommended changes, will adequately protect any freshwater sands in this well bore.
- Dakota perms 6055' – 6203'.

Reference Well:

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 2685387

Attachment to notice of Intention to Abandon

Well: Angel Peak 23E

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 4290'.
 - b) Add a plug to cover the Chacra formation top at 2595'.
 - c) Adjust Plug #6 (Fruitland) to cover BLM formation top pick at 1295'.
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 8/10/2022

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 132967

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 132967
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	8/12/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report	8/12/2022