eised by OCD i 5/27/2025 5:02:33 PM Office <u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013 WELL API NO.	
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505	30-045-38422         5. Indicate Type of Lease         STATE       FEE         G. State Oil & Gas Lease No.	
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE "APPLICA" PROPOSALS.) 1. Type of Well: Oil Well  G	ES AND REPORTS ON WELLS LS TO DRILL OR TO DEEPEN OR PLUG BACK TO A FION FOR PERMIT" (FORM C-101) FOR SUCH as Well I Other	7. Lease Name or Unit Agreement Name         HAMPTON         8. Well Number 4P	
2. Name of Operator Hilcorp Energy Company		9. OGRID Number 372171	
3. Address of Operator 382 Road 3100, Aztec, NM	87410	10. Pool name or Wildcat Blanco Mesaverde / Basin Dakota	
4. Well Location         Unit Letter <u>F: 2418 feet feet feet feet feet feet feet fee</u>	rom the <u>North</u> line and <u>1848</u> feet from the <u>We</u> wnship 030N Range 011W NMPM 11. Elevation (Show whether DR, RKB, RT, GR, etc 6043' GL	st_line County SAN JUAN c.)	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTIO	TO: SUBSEQUENT	REPORT OF:
PERFORM REMEDIAL WORK D PLUG AN	ABANDON 🗌 REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON 🗌 CHANGE	PLANS 🛛 COMMENCE DRILLING OPNS.	PANDA 🗌
PULL OR ALTER CASING DULTIPL	COMPL CASING/CEMENT JOB	]
DOWNHOLE COMMINGLE		
CLOSED-LOOP SYSTEM		
OTHER: SIDETRAC	OTHER:	]

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Hilcorp Energy requests permission to revise the Drilling Technical Plan. On 12/19/2024, the Drilling Engineer updated the 2025 drill wells' intermediate casing set point and associated cement volumes. The updated version for this well was inadvertently not placed into the APD folder, and the APD was filed with the previous version.

Spud Date:	Rig Release Date:	
I hereby certify that the information above is true and a	complete to the best of my knowledge and belief.	
SIGNATURE Cherylene Weston	TITLE Operations/Regulatory Tech-Sr.	DATE5/27/2025
Type or print name       Cherylene Weston         For State Use Only	E-mail address: <u>cweston@hilcorp.com</u> P	HONE: <u>713-289-2615</u>
APPROVED BY: Conditions of Approval (if any)	TITLE	_DATE

Hampton 4P



## Technical Drilling Plan (Rev. 3)

Hilcorp Energy Company proposes to drill and complete the referenced well targeting the Mesa Verde and Dakota formations.

Note: This technical drilling plan will be adjusted based upon actual conditions.

1. Location

Date:	December 19, 2024	Pool:	Mesa Verde / Dakota
Well Name:	Hampton 4P	Ground Elevation (ft. MSL):	6,031′
Surface Hole Location:	36.812355° N, 107.945275° W	Total Depth (ft. TMD/TVD)	7,263′ / 7,263′
Bottom Hole Location:	36.812355° N, 107.945275° W	County, State:	San Juan County, NM

Note: All geographic coordinates on the drilling tech plan and the directional drilling plan refer to NAD 27 geodetic coordinate system. All depths on the drilling tech plan and the directional drilling plan are referenced from an estimated RKB datum of 17' above ground level.

#### 2. Geological Markers

Anticipated formation tops with comments of any possible water, gas or oil shows are indicated below:

Formation	Depth (ft. TVD)	Remarks
Ojo Alamo	1,121'	Water (fresh/useable)
Kirtland	1,225'	None
Fruitland Coal	2,148'	Gas, Water
Pictured Cliffs	2,518'	Gas
Lewis Shale	2,653'	None
Huerfanito Bentonite	3,276'	None
Chacra	3,555'	Gas
Mesa Verde / Cliff House	4,101'	Gas / Water
Menefee	4,337'	Gas
Point Lookout	4,832'	Gas
Mancos	5,213'	Gas
Upper Gallup	6,066'	Gas
Niobrara	6,338'	None
Juana Lopez	6,475'	Gas
Greenhorn	6,817'	Gas
Graneros	6,874'	Gas
Two Wells	6,929'	Gas
Paugate	7,009'	Gas
Cubero	7,054'	Gas
Encinal	7,118'	Gas

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- 3. Pressure Control Equipment
  - A. BOP Equipment

See Appendix A for BOP equipment and choke manifold diagram.

- BOP equipment will be nippled up on top of the wellhead after surface casing is set and cemented.
- Pressure control configurations will be designed to meet the minimum 3M standards.
- All equipment will have 3M pressure rating at a minimum.
- A rotating head will be installed on top of the annular as seen in the attached diagram.
- B. BOP Pressure Testing
  - For all BOP pressure testing, a test unit with a chart recorder and a BOP test plug will be utilized.
  - All tests and inspections will be recorded and logged with time and results.
  - A full BOP pressure test will be conducted when initially installed for the first well on the pad or if a seal subject to test pressure is broken, following related repairs, and at a minimum in 30-day intervals.
  - A BOPE shell pressure test only will be conducted for subsequent wells on the pad when seals subject to pressure have not been broken, repaired, and fall within the 30-day interval of the first full test.
  - The New Mexico Oil & Gas Conservation Division and the BLM will be notified 24 hours in advance of pressure testing BOPE.
  - The BOPE will be tested to 250 psi (Low) for 5 minutes and 3,000 psi (High) for 10 minutes.
- C. BOP Function Testing
  - Annular preventors will be functionally tested at least once per week.
  - Pipe and blind rams will be function tested each trip.
- D. Casing Pressure Testing
  - For all casing pressure testing, a test unit with a chart recorder will be utilized.
  - Surface casing will be pressure tested to 600 psi for 30 minutes.
  - Intermediate casing will be pressure tested to 1,500 psi for 30 minutes.

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- 4. Casing Program
  - A. Proposed Casing Program:

Proposed Casing Design							
Casing String	Hole Size	Casing (size/weight/grade)	Top Depth (MD/TVD)	Shoe Depth (MD/TVD)	Collapse	Burst	Tensile
Surface	12-1/4″	9-5/8"-32.3#-H40 (or equiv.)-LTC/BTC	0′	250'/250'	1,370 psi	2,270 psi	254 klbs
Intermediate	8-3/4″	7"-23#-J55 (or equiv.)- LTC/BTC	0′	4,437′/4,437′	3,270 psi	4,360 psi	366 klbs
Production	6-1/4″	4-1/2"-11.6#-J55 (or equiv.)-LTC/BTC	0′	7,218′/7,218′	4,960 psi	5,350 psi	184 klbs

Proposed Casing Design Safety Factors							
Casing String	Burst Design SF         Collapse Design SF         Joint Tensile Design SF         Connection Tensile Design SF						
Surface	19.4	14.9	52.4	36.5			
Intermediate	2.0	1.9	4.2	5.0			
Production	1.4	1.6	2.6	3.2			

- B. Casing Design Parameters & Calculations:
- Designed for full wellbore evacuation.
  - Mud Weights used for calculations:
    - o Surface = 9.0 ppg
    - o Intermediate = 9.5 ppg
    - Production = 10.0 ppg
- Minimum Acceptable Safety Factors:
  - o Burst: 1.15
  - o Collapse: 1.15
  - o Tensile: 1.50
- **Casing Safety Factor Calculations:**

Casing Burst Rating(psi)

Casing Burst Safety Factor =  $\frac{1}{Maximum Mud Weight (ppg) \times TVD(ft) \times 0.052}$ 

Casing Collapse Safety Factor = Hydrostatic of Mud Weight in Annulus(psi) -  $\left[TVD \text{ of Casing Shoe } (ft) \times 0.10 \frac{psi}{ft}\right]$ 

Tensile Rating of Casing String (lbs)

 $Tensile Safety Factor = \frac{1}{Measured Depth of Casing(ft) \times Casing Weight \frac{lb}{ft} \times DrillingFluid Bouyancy Factor}$ 

Production Casing Notes:

- Production casing will be run from surface to TD. •
- The 6-1/4" hole will be drilled to the top of the Encinal formation and TD will be determined onsite by the mud ٠ logger.

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#### 5. Proposed Centralizer Program:

Proposed Centralizer Program				
Casing String	Centralizers & Placement			
Surface Casing	1 centralizer per joint on bottom 3 joints.			
	1 centralizer per joint in shoe track.			
Intermediate Casing	1 centralizer every 3 <sup>rd</sup> joint from float collar to base of Ojo Alamo.			
Intermediate casing	1 centralizer per joint from base of Ojo Alamo to the top of the Ojo Alamo.			
	1 centralizer every 3 <sup>rd</sup> joint from top of Ojo Alamo to surface.			
Production Casing	1 centralizer per joint in shoe track.			
	1 centralizer every other joint for bottom 1,000' of casing.			

### 6. Proposed Cement Program:

Proposed Cement Design								
Interval	Depth	Lead/Tail	Volume	Sacks	Excess	Slurry	Density	Planned
	(ft. MD)		(ft³)		(%)		(ppg)	TOC
Surface	250′	Lead	157 ft <sup>3</sup>	114	100%	Class G Cement Yield: 1.38 ft <sup>3</sup> /sk	14.6	Surface
		Slurry Additive	s: CaCl (1%), Ce	llo Flake (0.	25 lb/sk), CD-	2 (0.2%)		
		bood	975 ft <sup>3</sup>	171	50%	ASTM Type IL	05	Surfaco
		Leau	075 H	1/1	50%	Yield: 5.12 ft <sup>3</sup> /sk	9.0	Juillace
Intermediate	1 127'	Slurry Additive (0.25 lb/sk), LV	s: FL-24 (0.5%), V-5E (50.0%), R-	FL-66 (0.5% 3 (0.4%), S-	6), IntegraGua 8 Silica Flour	rd GW-86 (0.2%), IntegraSeal PHENO (2.0 (35.0%), XCem-311 (0.3%)	) lb/sk), Integra	Seal POLI
Interneulate	4,437	Тан	112 f+3	16	E00/	ASTM Type IL	11 5	2 027/
		I dli	11311	40	30%	Yield: 2.46 ft <sup>3</sup> /sk	11.5	3,931
		Slurry Additive IntegraSeal PO	s: AEXT-1012 (6 LI (0.25 lb/sk), ł	0.0%), BA-9 (CI (3.0%), F	90 (8.0 lb/sk), R-3 (0.55%), S-	FL-66 (0.5%), GW-86 (0.3%), IntegraSeal F 8 Silica Flour (25.0%), XCem-311 (0.3%)	PHENO (2.0 lb/s	ik),
		Load	702 f+3	152	<b>ン</b> ೯0/	ASTM Type IL	05	Surface
		Leau	10311	105	2370	Yield: 5.12 ft <sup>3</sup> /sk	9.0	Suitace
Slurry Additives: FL-24 (0.5%), FL-66 (0.5%), IntegraGuard GW-86 (0.2%), IntegraSeal PHENO (2.0 lb/sk), IntegraSeal POLI						Seal POLI		
Production	7,218′	(0.25 lb/sk), LV	V-5E (50.0%), R-	·3 (0.4%), S·	8 Silica Flour	(35.0%), XCem-311 (0.3%)		
		Tail	64 ft <sup>3</sup>	26	25%	ASTM Type IL	11.5	6.718′
		- Tun	0111		2070	Yield: 2.46 ft <sup>3</sup> /sk	1110	6,, 10
		Slurry Additives: AEXT-1012 (60.0%), BA-90 (8.0 lb/sk), FL-66 (0.5%), GW-86 (0.3%), IntegraSeal PHENO (2.0 lb/sk),						
integradeal Polit (0.20 lb/sk), kci (0.0%), k-3 (0.0%), s-6 sinca Piolit (20.0%), k-etit-511 (0.3%)								

### Cement Program Notes:

- The cement slurry additives may be adjusted to accommodate required pump and compressive test times.
- Actual cement volumes will be determined and may be adjusted onsite based on well conditions.
- For the intermediate hole section, a 2-stage or 3-stage cement job may be performed if hole conditions dictate. If needed, the stage tool(s) will be placed appropriately.
- Cement will be circulated to surface on surface and intermediate casing sections to protect water bearing zones.
- A minimum of 8 hours of wait on cement time will be observed on each hole section to allow adequate time for cement to achieve a minimum of 500 psi of compressive strength. The BOP will not be nippled down, the wellhead will not be installed, the casing will not be tested and the prior casing shoe will not be drilled out until adequate wait on cement time has been observed (8 hours or time to reach 500 psi compressive strength).

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- 7. Drilling Fluids Program
  - A. Proposed Drilling Fluids Program:

Proposed Drilling Fluids Program						
Interval	Fluid Type Density Fluid Loss Maximum Chlorides Depth					
		(ppg)	(mL/30 min)	(ppm)	(ft. MD)	
Surface	Water/Gel	8.4 – 9.2	NC	1,000	0' – 250'	
Intermediate	LSND / Gel	8.4 – 9.2	6-16	5,000	250' – 4,437'	
Production	LSND / Gel / Air	8.4 – 9.2	6-16	5,000	4,437′ – 7,218′	

#### Drilling Fluids Notes:

- Lost circulation material may be added to the mud systems to manage fluid losses as hole conditions dictate.
- Depending on the area and losses encountered, the production section may be drilled on air instead of fluid.
- The well will be drilled utilizing a closed-loop circulating system. Drill cuttings for all hole sections will be transported to an approved disposal site.
- Estimated total volume of drill cuttings for disposal: 453 bbls (2,545 ft<sup>3</sup>).
- 8. Estimated Pressures & Drilling Hazards
  - A. Estimated Pressures
  - Fruitland Coal: 400 psi
  - Pictured Cliffs: 460 psi
  - Mesa Verde: 900 psi
  - Dakota: 1,400 psi
  - No abnormal temperatures or drilling hazards are anticipated.
  - The Mesa Verde and Dakota formations will be completed and comingled if both formations are completed.
  - B. Water Flows
  - Water flows are possible in the intermediate section. Water flows will be mitigated with increased mud weight.
  - C. Lost Circulation
  - Lost circulation is possible in the intermediate and production sections. Losses will be mitigated by utilizing LCM in the mud system.
  - D. Hydrogen Sulfide
  - No hydrogen sulfide is expected to be encountered based on nearby well production.

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- No pilot hole is planned for this wellbore.
- 10. Testing, Logging, Coring
  - A. Mud Logging
  - Mud loggers will collect formation samples every 60' from intermediate casing shoe to TD of the well.
  - B. MWD
  - Measurement while drilling tools will be utilized from the surface casing shoe to TD of the production hole to measure and record inclination.
  - C. LWD
  - There are no plans for logging while drilling.
  - D. Open Hole Logging
  - There are no plans to open hole log the well.
  - E. Coring & Formation Testing
  - There are no plans for coring or formation testing.
  - F. Cased Hole Logging
  - The 7" intermediate casing will be cemented to surface to protect water bearing zones. If cement is not circulated to surface on the intermediate cement job, a cement bod log will be run to verify top of cement.
- 11. Directional Drilling Plan
  - The well is planned as a vertical wellbore. Surveys will be monitored to ensure vertical wellpath.



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- 12. Completion
  - A. Pressure Testing
  - A pressure test of the 4-1/2" production casing will be conducted to the maximum anticipated frac pressure for 30 minutes.
  - B. Stimulation
  - The well will be stimulated with sand and water. The number of stages and amount of proppant used will be adjusted based on actual reservoir thickness and real-time pumping conditions during the stimulation.

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# Appendix A

11" 3M BOP & 3M Choke Manifold Configuration





1	Rotating Head	12	Manual Isolation Valve
2	Fill-Up Line	13	Needle Valve & Pressure Gauge
3	Flow Line	14	Spacer Spool (if needed)
4	3M Annular Preventer	15	Manual Choke
5	3M Pipe Rams	16	Hydraulicly Operated Choke
6	Manual Isolation Valve	17	Manual Isolation Valve
7	Check Valve	18	Manual Isolation Valve
8	Manual Isolation Valve	19	Manual Isolation Valve
9	Manual Isolation Valve	20	Valve Block & Pressure Gauge
10	High Closing Ratio Valve	21	Manual Isolation Valve
11	3M Blind Rams	22	Manual Isolation Valve

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	467729
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS
Created By Condition

Created By	Condition	Condition Date
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	5/30/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	5/30/2025

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