rised by CopPi 6/26/26/26/26 Bisticis 1 PM	State of New Mexico	Form C-96
Office District I – (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013
Intervention         Interventis and intervention <thintervention< th=""> <t< td=""><td>OIL CONSERVATION DIVISION 1220 South St. Francis Dr.</td><td>WELL API NO. 30-045-38345 5. Indicate Type of Lease</td></t<></thintervention<>	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.	WELL API NO. 30-045-38345 5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	STATE     FEE       6. State Oil & Gas Lease No.       State B-11479-60
(DO NOT USE THIS FORM FOR PROPOSAL	S AND REPORTS ON WELLS S TO DRILL OR TO DEEPEN OR PLUG BACK TO A ION FOR PERMIT" (FORM C-101) FOR SUCH	7. Lease Name or Unit Agreement Name State Gas Com A
·	s Well 🛛 Other	8. Well Number 1M
2. Name of Operator Hilcorp Energy Company		9. OGRID Number 372171
3. Address of Operator 382 Road 3100, Aztec, NM &	37410	10. Pool name or Wildcat Blanco Mesaverde / Basin Dakota
4. Well Location Unit Letter <u>K</u> : <u>1683</u> feet from	om the <u>South line and 2209</u> feet from the <u>West</u>	line
Section 36 Tow	nship 031N Range 012W NMPM	County SAN JUAN
1	1. Elevation (Show whether DR, RKB, RT, GR, et 5944' GL	<i>c.)</i>

NOTICE OF	INTENTION TO:	SUBSEQUEN	IT RE	PORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRILLING OPN	S.🗌	P AND A
PULL OR ALTER CASING [	MULTIPLE COMPL		CASING/CEMENT JOB		
DOWNHOLE COMMINGLE					
CLOSED-LOOP SYSTEM					
OTHER:			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 Company requests to revise the technical plans after it was discovered the Massive Cliffhouse formation in this area is wet and will not allow for air drilling in that section. Thus, the Intermediate casing will be lowered and set 100' into the Menefee formation. Cement will still be brought to surface. Production cement will overlap into intermediate casing by a minimum of 100'. Please see the revised technical plans attached.

Spud Date:		Rig Release Date:		
I hereby certif	y that the information above is true a	nd complete to the best of my k	nowledge and belief.	
SIGNATURE	Cherylene Weston	TITLE <u>Operations/Reg</u> u	ulatory Tech-Sr. DATE	06/26/2024
Type or print i For State Use	name <u>Cherylene Weston</u> Only	E-mail address: <u>cweston</u>	<u>@hilcorp.com</u> PHONE:	713-289-2615
	3Y: Approval (if any):	TITLE	DATE_	

State Gas Com A #1M



## Technical Drilling Plan (Rev. 1)

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

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

1. Location

Date:	June 25, 2024	Pool:	MV/DK
Well Name:	State Gas Com A #1M	Ground Elevation	5,840′
Surface Hole Location:	36.8530466° N, -108.0514282° W	County, State:	San Juan County, NM
Production Depth (ft.)	6,814' MD / 6,814' TVD	Production BHL:	36.8530466° N, -108.0514282° W

Note: All depths in 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	634′	Water (fresh/useable)
Kirtland	697′	None
Fruitland	1,793′	Gas, Water
Pictured Cliffs	2,295′	Gas
Lewis	2,397′	None
Huerfanito Bentonite	3,052′	None
Chacra	3,390′	None
Upper Cliff House	3,875′	Gas
Massive Cliff House	4,013′	Gas, Water
Menefee	4,066′	None
Pt. Lookout	4,630′	Gas
Mancos	4,850′	Gas
Upper Gallup	6,133′	Gas
Greenhorn	6,644′	Gas
Graneros	6,701′	Gas
Two Wells	6,749′	Gas
Paguate	6,762′	Gas
Upper Cubero	6,780′	Gas
Lower Cubero	6,795′	Gas
Encinal	6,814′	None

#### 3. Pressure Control Equipment

See attached BOP equipment and choke manifold schematics for a diagram of pressure control equipment.

- 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 a minimum of 3M pressure rating and will be rated for 7,000' (TVD).
- A rotating head will be installed on top of the annular as seen in the attached diagram.

#### State Gas Com A #1M



BOP Testing: The BOPE will be tested to 250 psi (Low) for 5 minutes and 3,000 psi (High) for 10 minutes. Pressure test surface casing to 600 psi for 30 minutes and intermediate casing to 1,500 psi for 30 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. BOP equipment will be tested upon installation, every 30 days, and after any repairs are made to the BOP equipment. Annular preventors will be functionally tested at least once per week. Pipe and blind rams will be function tested each trip. The NMOCD and the BLM will be notified 24 hours in advance of testing BOPE. All tests and inspections will be recorded and logged with time and results. A full BOP test will be conducted if a seal subject to test pressure is broken, following related repairs, and at a minimum of 30-day intervals.

### 4. Casing & Cement Program

A. Proposed Casing Program:

Proposed Casing Design								
Casing String	Hole Size	Casing Size	Weight/Grade		Weight/Grade		Top Depth (MD/TVD)	
Surface	12-1/4″	9-5/8″	32.3# H40 (or e	equiv.) STC	0′	200′ / 200′		
Intermediate	8-3/4″	7″	23# J55 (or equ	iiv.) LTC	0′	4,166′ / 4,166′		
Production Casing	6-1/4″	4-1/2″	-1/2" 11.6# J55 (or equiv.) LTC		0′	6,814′ / 6,814′		
		Proposed Cas	ing Design Safe	ty Factors				
Casing String	Casino	Description	Burst	Collapse	Joint Tensile	Connection		
casing string	Casing	Description	Design SF	Design SF	Design SF	Tensile Design SF		
Surface	9-5/8″ 32	9-5/8" 32.3# H40 STC		18.6	56.5	39.3		
Intermediate	7″ 23# J5	7" 23# J55 LTC		1.6	3.8	3.3		
Production	4-1/2" 1	1.6# J55 LTC	1.4	1.5	2.3	2.0		

Notes:

- The 6-1/4" hole will be drilled to the top of the Encinal formation and TD will be called onsite by mud loggers.
- B. Proposed Centralizer Program:

Proposed Centralizer Program			
Interval	Centralizers & Placement		
Surface	1 centralizer per joint on bottom 3 joints.		
	1 centralizer 10' above the shoe with lock collar.		
	1 centralizer every other joint on bottom 10 joints.		
	1 centralizer every 4 <sup>th</sup> joint to Ojo Alamo base.		
Intermediate	1 Turbolizer at base of Ojo Alamo.		
Internetiate	1 centralizer every joint to Ojo Alamo top.		
	1 Turbolizer placed midway through Ojo Alamo.		
	1 centralizer every 4 <sup>th</sup> joint from top of Ojo Alamo to surface shoe.		
	1 centralizer inside the surface casing.		
Droduction (Air Drillod)	1 centralizer 10' above the shoe with a lock collar.		
Production (Air Drilled)	1 centralizer every other joint on bottom 10 joints.		

State Gas Com A #1M



## C. Proposed Cement Program:

	Proposed Cement Design						
Interval	Depth (ft. MD)	Lead/Tail	Volume (ft <sup>3</sup> )	5		Density	Planned TOC
Surface	200′	Lead	Type III Cement           125 ft³         90         0.25% FL-52, 0.25 pps celloflake           1.25 ft³/sk – 5.75 gal/sk		15.2 ppg	Surface	
Intermediate	4,166'	Lead	869 ft <sup>3</sup>	408	Premium Lite 3% CaCl, 0.25 pps celloflake, 5 ppm LCM-1, 0.4% FL-52, 8% bentonite, 0.4% SMS 2.13 ft <sup>3</sup> /sk – 11.29 gal/sk	12.1 ppg	Surface
		Tail	120 ft <sup>3</sup>	70	Type III Cement 1% CaCl, 0.25 pps celloflake, 0.2% FL-52 1.38ft <sup>3</sup> /sk – 6.64 gal/sk	14.6 ppg	3,667′
Production	6,814′	Lead	517 ft <sup>3</sup>	$359 \begin{array}{r} 1.301778 = 0.04 \text{ gal/3k} \\ 50/50 \text{ POZ: Class G cement} \\ + 0.25 \text{ lb/sx D029 Cellophane Flakes} \\ + 3\% \text{ D020 Bentonite} \\ + 1.0 \text{ lb/sx D024 Gilsonite Extender} \\ + 0.25\% \text{ D167 Fluid Loss} \\ + 0.25\% \text{ D065 Dispersant} \\ + 0.1\% \text{ D800 Retarder} \\ + 0.1\% \text{ D046 Antifoamer} \\ + 3.5 \text{ lb/sx Phenoseal} \\ 1.44\text{ft}^3/\text{sk} - 6.47 \text{ gal/sk} \end{array}$		13.0 ppg	3,667′

Notes:

- The cement slurry additives may be adjusted to accommodate required pump and compressive test times.
- For the intermediate hole section, a 2-stage cement job may be performed if hole conditions dictate. If needed, the stage tool will be placed at an approximate depth near the top of the Fruitland Coal (2,619' TVD)
- 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).
- 5. Drilling Fluids Program

## A. Proposed Drilling Fluids Program:

Interval	Fluid Type	Density	Fluid Loss	Max Chlorides	Depth
		(ppg)	(mL/30 min)	(mg/L)	(ft. MD)

#### State Gas Com A #1M



Surface	Water/Gel	8.4 – 9.2	NC	1,000	0′ – 200′
Intermediate	LSND / Gel System	8.4 – 9.2	6-16	1,000	200′ – 4,166′
Production	Air/mist/N2	1.0	NC	N/A	4,166′ – 6,814′

#### Notes:

- The following equipment will be operational while gas/mist drilling:
  - An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
  - The blooie line will be equipped with an automatic igniter or pilot light.
  - o Deduster equipment will be utilized.
  - The rotating head will be properly lubricated and maintained.
  - A float valve will be utilized above the bit.
  - o Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.
- Lost circulation material may be added to the mud systems to manage fluid losses as hole conditions dictate.
- The well will be drilled utilizing a closed-loop circulating system. Drill cuttings will be transported to an approved disposal site.
- Estimated total volume of drill cuttings for disposal: 424 bbls (2,382 ft<sup>3</sup>).
- 6. Estimated Pressures & Drilling Hazards
  - A. Estimated Pressures
  - The Mesa Verde and/or Dakota formations will be completed and commingled if both formations are completed.
  - No abnormal temperatures or hazards are anticipated.
  - Anticipated pore pressures are as follows:
    - o Fruitland Coal 400 psi
    - o Pictured Cliffs 850 psi
    - o Mesa Verde 650 psi
    - o Dakota 2200 psi
  - 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 coal section. Losses will be mitigated by adding LCM to the mud system.
  - Sufficient LCM will be added to the mud system to maintain well control if lost circulation is encountered.
  - D. Hydrogen Sulfide
  - No hydrogen sulfide is expected to be encountered based on nearby well production.



- 7. Testing, Logging, Coring
  - A. Mud Logging
  - Mud loggers will collect formation samples every 30' from the Intermediate casing shoe to the TD of production hole section.
  - B. MWD
  - Measurement while drilling tools will be utilized from the surface casing shoe to the TD of the production section to measure and record inclination.
  - C. LWD
  - No logging while drilling tools will be utilized.
  - D. Open Hole Logging
  - There are no planned open hole logs post drilling.
  - E. Coring
  - There is no coring or formation testing planned.
  - 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 temperature survey or a cement bod log will be run to verify top of cement.
- 8. Directional Drilling Plan
  - This well is planned as vertical. Surveys will be monitored to ensure wellbore path.

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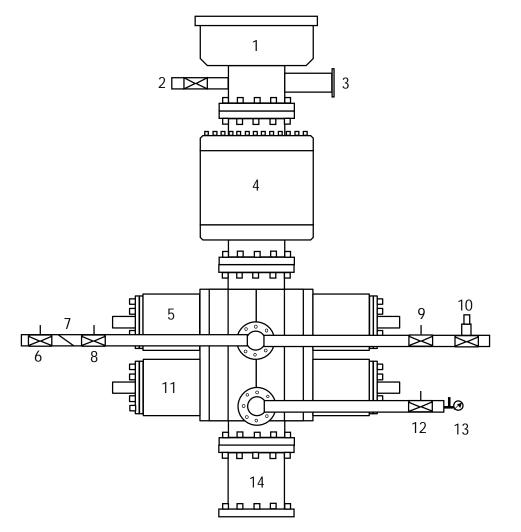
San Juan County, NM

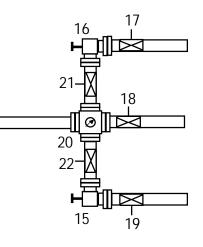
State Gas Com A #1M



# Appendix A

Pressure Control Equipment 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	Manual 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

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

CONDITIONS

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

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	358940
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	7/16/2024

CONDITIONS

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Action 358940