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

Form C-101 August 1, 2011

Permit 398994

#### APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

		ALL LION	ALIONI OILE LINNI	i io biall, i	VE-EIVIEIV, DEEI	LIN, I LOOD	ACIN, CINADO	AZONE	
1. Operator Nan	ne and Address							2. OGRID Number	
HILO	ORP ENERGY C	COMPANY						372171	
1111	Travis Street							3. API Number	
Hous	ston, TX 77002							30-045-	38481
4. Property Cod	е		5. Property Name					6. Well No.	
3188	571		HUBBARD					004C	
				7. 8	Surface Location				
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
J	15	32N	12W	J	2373	S	2586	E	San Juan
				8. Propose	d Bottom Hole Loca	ation			
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
J	15	32N	12W	J	2373	S	2586	E	San Juan

#### 9. Pool Information

BLANCO-MESAVERDE (PRORATED GAS)	72319
BASIN DAKOTA (PROBATED GAS)	71500

#### **Additional Well Information**

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 6106
16. Multiple Y	17. Proposed Depth 7393	18. Formation Dakota Formation	19. Contractor	20. Spud Date 2/16/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

#### ☑ We will be using a closed-loop system in lieu of lined pits

#### 21. Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	32.3	320	145	0
Int1	8.75	7	23	4635	512	0
Prod	6.25	4.5	11.6	7393	187	4135

#### Casing/Cement Program: Additional Comments

#### 22. Proposed Blowout Prevention Program

	22.11 Toposoa Biotroat 1 Totoliaon 1 Togram							
Туре	Working Pressure	Test Pressure	Manufacturer					
Annular	250	3000	3M					

knowledge and be I hereby certify that or recompletion of	elief. at no additives containing PFAS cho f this well.	true and complete to the best of my emicals will be added to the completion NMAC Mand/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION
Printed Name:	Electronically filed by Jamie L Oli	varez	Approved By:	Jeffrey Harrison	
Title: L48W Regulatory Advisor			Title:	Petroleum Specialist III	
Email Address: jolivarez@hilcorp.com			Approved Date:	10/16/2025	Expiration Date: 10/16/2027
Date:	10/3/2025	Phone: 713-289-2838	Conditions of Appr	oval Attached	

<u>C-10</u>	•	0/3/2025 12	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION						Revis	sed July 9, 2024
	t Electronical D Permitting	ly		OIL	CONSERVA	ATION DIVISION	1			tal
								Submitta Type:	l ☐ Amended Rep	oort
								Type.	☐ As Drilled	
					WELL LOCA	ATION INFORMATIO	N		-	
API N	umber <b>0-045-3</b>	8481	Pool Code	7231	9	Pool Name	BLANCO	O MESAV	ERDE	
	ty Code 318571		Property N	ame	]	HUBBARD			Well Number 40	2
OGRII	O No. 372171		Operator N	lame	HILO	CORP ENERGY			Ground Level Ele 6,10	
Surfac	e Owner: 🔲	State 🛚 Fee 🗆	Tribal 🗆 Fe	deral		Mineral Owner: 1	☐ State <b>☑</b> Fee	☐ Tribal ☐	] Federal	
					Sur	rface Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83) I	Longitude (NAD 83)	County
J	15	32N	12W		2,373 SOUT	H 2,586 EAST	36.985		-108.082771°	SAN JUAN
					Botto	m Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	(AD 83)	Longitude (NAD 83)	County
	nted Acres	Infill or Defi	ning Well	Definii	ng Well API	Overlapping Spac	ing Unit (Y/N)	Consolida	ation Code	
S/2 -	320	Infill		30-0	045-30449	N	1 1		С	
Order	Numbers.					Well setbacks are	under Common	Ownership:	:□Yes□No	
					Kick	Off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	(AD 83)	Longitude (NAD 83)	County
					First	 Γake Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	(AD 83)	Longitude (NAD 83)	County
					Last 7	Take Point (LTP)		<u> </u>		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	(AD 83)	Longitude (NAD 83)	County
	1	I	1		l	<b>1</b>	l	<b> </b>		
Unitize	ed Area or Aı	ea of Uniform	Interest	Spacing	g Unit Type 🔲 Hoi	rizontal 🗆 Vertical	Grou	nd Floor Ele	evation: 6106'	
						T				
I hereby my know organiz includir location interest, entered	certify that the wledge and beli ation either ow ig the proposea pursuant to a or to a volunta by the division	ief, and, if the we ns a working inte l bottom hole loca contract with an a ary pooling agree	ll is a vertical or rest or unleased tion or has a rig owner of a work ment or a comp	r directiona   mineral int ght to drill t ing interest ulsory pooli	terest in the land		well location show		was ploud from the field the same is refue and correct the MEX	
consent in each interval	of at least one tract (in the tai will be located	lessee or owner o	f a working inte tion) in which a mpulsory poolin	erest or unle any part of t ag order fro	ased mineral interest he well's completed				09-18- 09-18-	25/34/ SUP

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

23782

Certificate Number

Signature and Seal of Professional Surveyor

August 28, 2025

Date of Survey

Printed Name

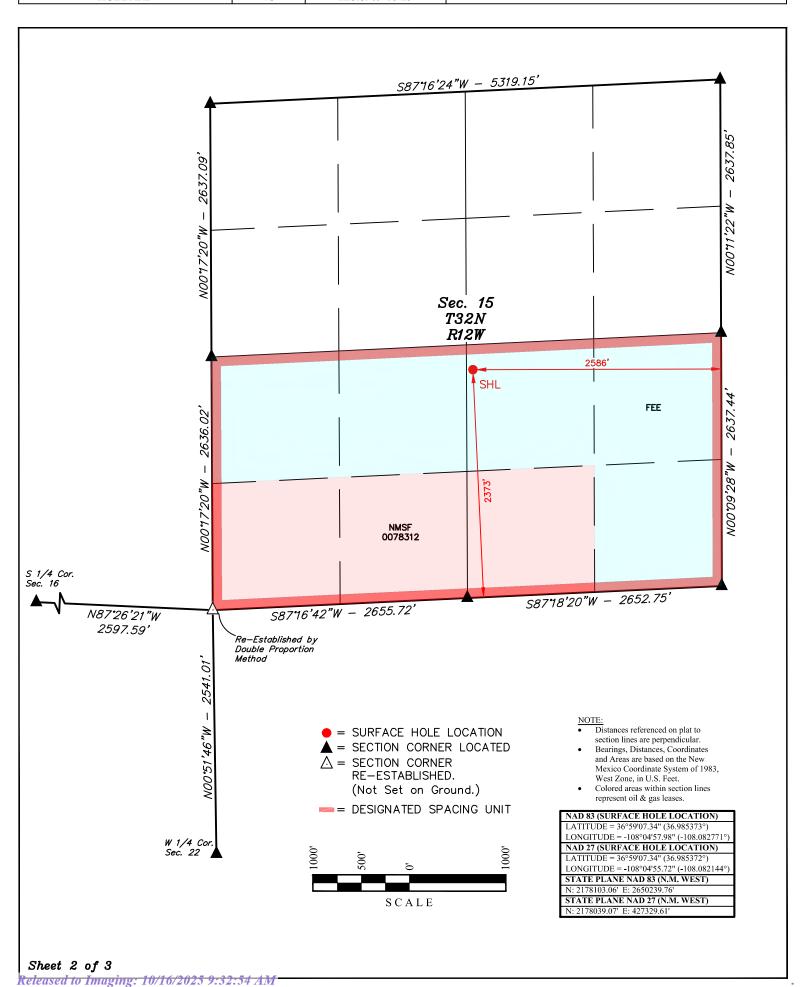
Email Address

cweston@hilcorp.com

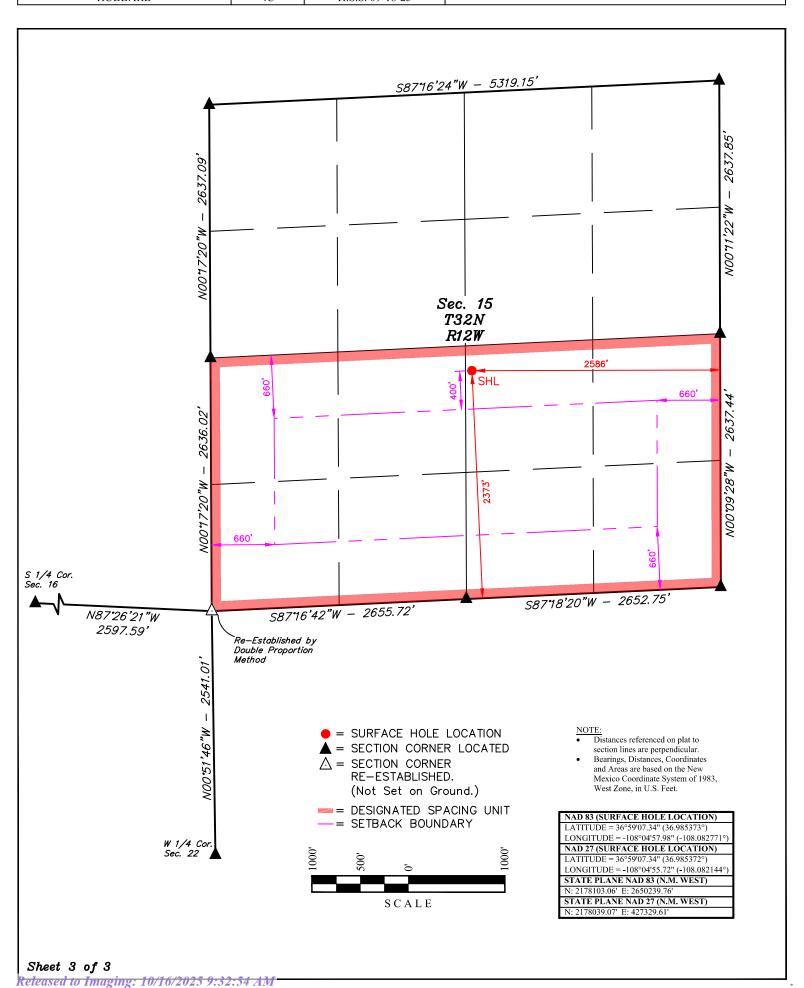
Date

Cherylene Weston, Operations/Regulatory Tech-Sr.

Property Name Well Number Drawn By Revised By HUBBARD 4C H.S.S. 09-18-25



Property Name Well Number Drawn By Revised By HUBBARD 4C H.S.S. 09-18-25



<u>C-10</u>	•	0/3/2025 12	State of New Mexico Energy, Minerals & Natural Resources Department						Revis	sed July 9, 2024
	t Electronical	ly		OIL	CONSERVA	TION DIVISION		☐ Initial Submi		tal
114 00	D r crimeting							Submitta	1	oort
								Type:	☐ As Drilled	
			-I		WELL LOCA	TION INFORMATION	Ţ			
	umber <b>045-384</b>	81	Pool Code	7159	9	Pool Name	BASI	N DAKOT	ΓΑ	
	ty Code 318571		Property N	ame	I	HUBBARD			Well Number	2
OGRII	D No. 372171		Operator N	lame	HILCORP I	ENERGY COMPANY			Ground Level Ele 6,10	
Surfac	e Owner: 🗆	State <b>⊠</b> Fee □	Tribal 🗆 Fe	deral		Mineral Owner:	] State <b>⊠</b> Fee ∣	□ Tribal □	] Federal	
					C	face Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83)   I	Longitude (NAD 83)	County
J	15	32N	12W	Lot	2,373 SOUT		36.9853	´	-108.082771°	SAN JUAN
	·	·			Bottor	n Hole Location	<u>'</u>	· · · · · · · · · · · · · · · · · · ·		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83)   I	Longitude (NAD 83)	County
Dedica	ated Acres	Infill or Defi	ning Well	Definii	ng Well API	Overlapping Spacin	ng Unit (Y/N)	Consolida	ation Code	
S/2 -		Parent				N			С	
Order	Numbers.					Well setbacks are u	nder Common (	Ownership:	: □Yes □No	
					Kick (	Off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83) I	Longitude (NAD 83)	County
					First T	`ake Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83) 1	Longitude (NAD 83)	County
					Last T	ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83)   1	Longitude (NAD 83)	County
	•	•	•		•	•	•	•		
Unitiz	ed Area or Aı	rea of Uniform	Interest	Spacing	g Unit Type □ Hor	izontal 🛚 Vertical	Groui	nd Floor Ele	evation: 6106'	
						_				
I hereby my kno- organiz includir location interest entered	w certify that the wledge and belo ation either ow ng the proposed n pursuant to a nor to a volunte by the division well is a horizon	ief, and, if the we ns a working inte l bottom hole loca contract with an o ary pooling agree ttal well, I further	ll is a vertical o rest or unleased tion or has a rig owner of a work ment or a comp certify that this	r directiona ! mineral int ght to drill t ing interest ulsory pooli organizatio	terest in the land	SURVEYOR CERTIF I hereby certify that the w surveys made by me or un my belief.	vell location shown		he same is rivue and corre	
in each interval	tract (in the tai will be located		ntion) in which a mpulsory poolir	any part of t ag order fro	he well's completed				09-18- 09-18-	SUR

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

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Printed Name

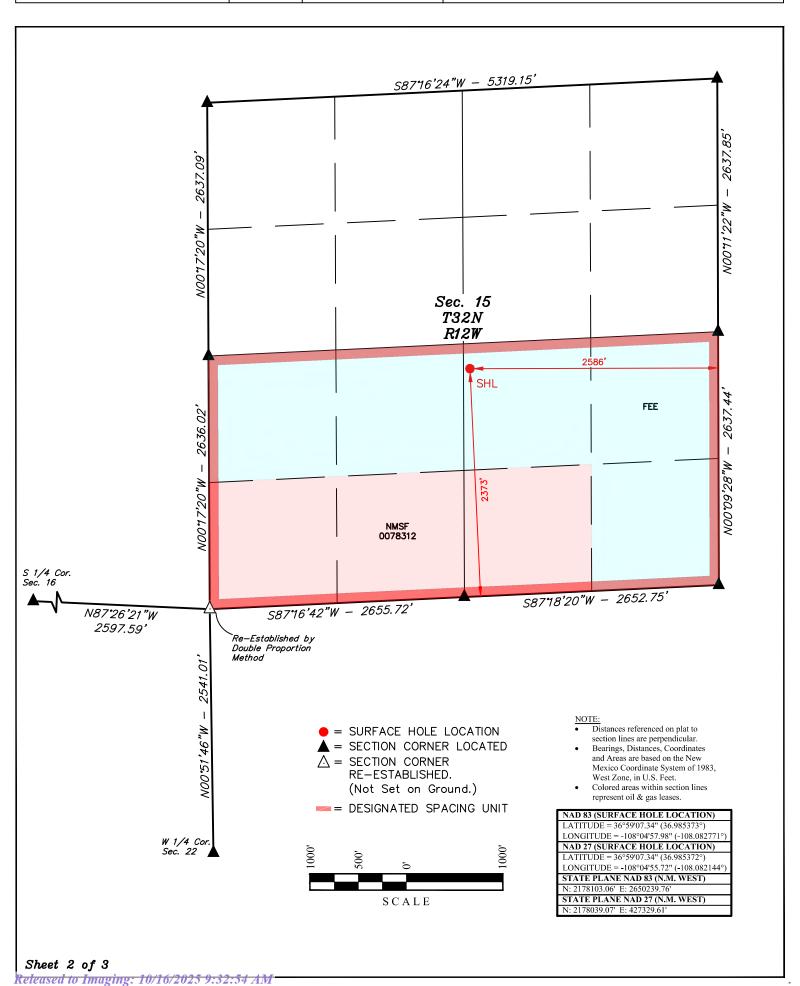
Email Address

cweston@hilcorp.com

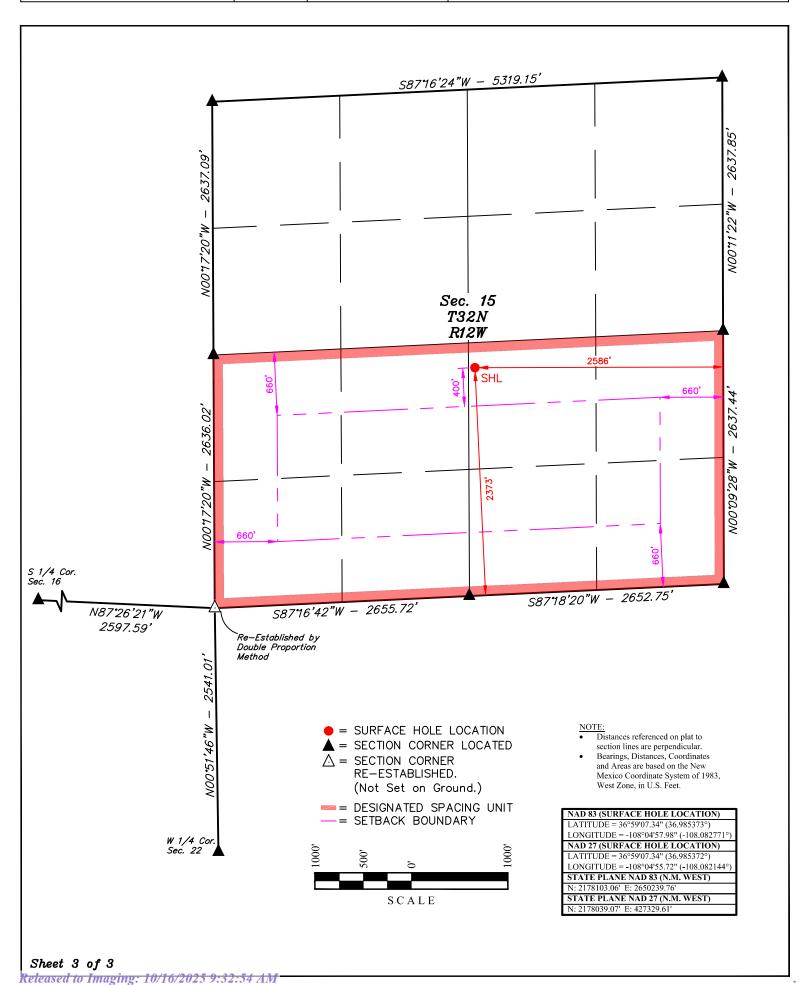
Date

Cherylene Weston, Operations/Regulatory Tech-Sr.

Property Name Well Number Drawn By Revised By HUBBARD 4C H.S.S. 09-18-25



Property Name Well Number Drawn By Revised By
HUBBARD 4C H.S.S. 09-18-25



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

Form APD Comments

Permit 398994

#### PERMIT COMMENTS

Operator Name and Address:	API Number:
HILCORP ENERGY COMPANY [372171]	30-045-38481
1111 Travis Street	Well:
Houston, TX 77002	HUBBARD #004C

Created By	Comment	Comment Date
cweston	Dakota NSL Administrative Application filed on 10/3/2025; Action ID 512036	10/3/2025
jeffrey.harrison	Submitted as infill to 30-045-30449 for Blanco Mesaverde Pool and defining well for Basin Dakota Pool.	10/16/2025

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

Form APD Conditions

Permit 398994

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
HILCORP ENERGY COMPANY [372171]	30-045-38481
1111 Travis Street	Well:
Houston, TX 77002	HUBBARD #004C

OCD Reviewer	Condition
jeffrey.harrison	NSL required prior to production if not included in an existing order.
jeffrey.harrison	Prior to production of this well a down hole co-mingle must be approved.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.

San Juan County, NM

#### **Hubbard 4C**



#### Technical Drilling Plan (Rev. 1)

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:	October 3, 2025	Pool:	Mesa Verde / Dakota
Well Name:	Hubbard 4C	Ground Elevation (ft. MSL):	6,106′
Surface Hole Location:	36.985372° N, 108.082144° W	Total Depth (ft. TMD/TVD)	7,393′ / 7,393′
Bottom Hole Location:	36.985372° N, 108.082144° 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	935'	Water (fresh/useable)
Kirtland	1,007'	None
Fruitland Coal	1,900'	Gas, Water, depleted
Pictured Cliffs	2,516'	Gas, depleted
Lewis Shale	2,595'	None
Chacra	3,704'	None, Gas
Cliff House	4,137'	Gas, Water, possible depletion
Menefee	4,435'	Gas, possible water & depletion
Point Lookout	4,878'	Gas, likely depletion
Mancos	5,211'	Gas, possible condensate
Gallup	6,275'	Gas, possible condensate
Juana Lopez	6,662'	None, Gas
Greenhorn	6,996'	None, Gas
Graneros	7,053'	None, Gas
Two Wells	7,127'	Gas
Paugate	7,206'	Gas, possible depletion
Cubero	7,226'	Gas, possible depletion
Encinal Canyon	7,272'	Gas, Water
Burro Canyon	7,343'	Likely water, possibly gas



#### 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.



#### 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'	320′/320′	1,370 psi	2,270 psi	254 klbs
Intermediate	8-3/4"	7"-23#-J55 (or equiv.)- LTC/BTC	0'	4,635′/4,635′	3,270 psi	4,360 psi	366 klbs
Production	6-1/4"	4-1/2"-11.6#-J55 (or equiv.)-LTC/BTC	0'	7,393′/7,393′	4,960 psi	5,350 psi	184 klbs

	Proposed Casing Design Safety Factors					
Casing String	ng Burst Design SF Collapse Design SF Joint Tensile Design SF Connection Tensile Design SF					
Surface	15.2	11.6	40.9	28.5		
Intermediate	1.9	1.8	4.0	4.7		
Production	1.4	1.6	2.5	3.1		

#### 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
  - o Production = 10.0 ppg
- Minimum Acceptable Safety Factors:

o Burst: 1.15 o Collapse: 1.15 o Tensile: 1.50

Casing Safety Factor Calculations:

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

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

$$Tensile \ Safety \ Factor = \frac{Tensile \ Rating \ of \ Casing \ String \ (lbs)}{Measured \ Depth \ of \ Casing(ft) \times Casing \ Weight \ \frac{lb}{ft} \times Drilling Fluid \ Bouyancy \ Factor}$$

#### **Production Casing Notes:**

- Production casing will be run from surface to TD.
- The 6-1/4" production hole section will be drilled 50' into the Burro Canyon formation and exact TD will be determined onsite by the mud logger.

#### **Hubbard 4C**



#### 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.			
Froduction casing	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)		(ft <sup>3</sup> )		(%)	-	(ppg)	TOC
Surface	320′	Lead	200 ft <sup>3</sup>	145	100%	Class G Cement	14.6	Surface
Surface	320	Slurry Additives	s: CaCl (1%) Ce	llo Flake (0	25 lh/sk) CD-	Yield: 1.38 ft <sup>3</sup> /sk		
		, in the second				ASTM Type IL	40.0	0 6
		Lead	916 ft <sup>3</sup>	430	50%	Yield: 2.13 ft <sup>3</sup> /sk	12.0	Surface
Intermediate	4,635′	Slurry Additives	s: CaCl <sub>2</sub> (3.0%),	Celloflake (	0.25 lb/sk), LC	CM-1 (5.0 lb/sk), FL-52 (0.4%), bentonite (	(8.0%), SMS (0.4	l%)
intermediate	4,033	Tail	113 ft <sup>3</sup>	82	50%	ASTM Type IL	14.5	4,135′
		Tall   T13 It   82	02	02   30%	Yield: 1.38 ft <sup>3</sup> /sk	14.3	4,133	
		Slurry Additives	s: CaCl <sub>2</sub> (1.0%),	Celloflake (	0.25 lb/sk), LC	CM-1 (5.0 lb/sk), FL-52 (0.2%)		
Production		Lood	1 1 400 ft <sup>3</sup> 10	187	250/	ASTM Type IL	10 E	/ 10E/
	7,393′	Lead	409 ft <sup>3</sup>	107	25%	Yield: 2.19 ft <sup>3</sup> /sk	12.5	4,135′
	. 70.0	Slurry Additives PhenoSeal (0.2	•	•	• •	1 (0.5%), D-R 1 (0.2%), Bentonite (4.0%),	Plexfiber (0.25	lb/sx),

#### 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).

San Juan County, NM

#### **Hubbard 4C**



#### 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' – 320'
Intermediate	LSND / Gel	8.4 – 9.2	6-16	5,000	320′ – 4,635′
Production	LSND / Gel / Air	8.4 – 9.2	6-16	5,000	4,635′ – 7,393′

#### **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: 472 bbls (2,651 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.



#### 9. Pilot Hole

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 intermediate hole section to measure and record inclination and azimuth.
- The single-shot inclination survey will be run in the production hole section after the production hole has been cased and cemented. The single-shot survey will be run to plug back TD (depth of float collar in the production casing). If deemed necessary, a gyro survey will be substituted for the single-shot inclination survey.
- 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 intermediate section of this wellbore is directional and surveys will be recorded and monitored to ensure adherence to the planned wellpath.
- The production section of this wellbore is planned to be vertical.
- If the production section of this wellbore is drilled on air, the wellbore will be assumed to be vertical that point forward.
- The directional plan is attached in the APD application.

San Juan County, NM

Hubbard 4C



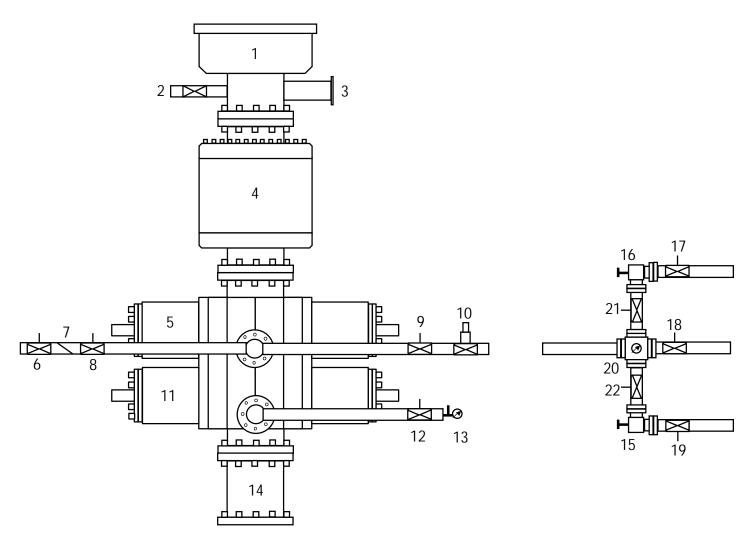
#### 12. Completion

- 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.



## 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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

Phone: (5/5) 393-6161 Fax: (5/5) 393-0/20

District II

Still S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220. S. St. Fengis Dr. Sonto E. NM 97505

1220 S. St. Francis Dr., Santa Fe, NM 87505

#### **State of New Mexico**

Form C-101 Revised July 18, 2013

☐AMENDED REPORT

### **Energy Minerals and Natural Resources Oil Conservation Division**

1220 South St. Francis Dr.

			<sup>1.</sup> Operator Name Hilcorp Energy 382 Road Aztec, NM	Company 3100				<sup>2.</sup> OGRID Numb 372171 <sup>3.</sup> API Number		
4. Property Code 5. Propert 318571 Hubb									ell No. 4C	
					face Location			1		
UL - Lot	Section 15	Township 32N	Range 12W	Lot Idn	Feet from 2373	N/S Line S	Feet From 2586	E/W Line E	County San Juan	
<u>I</u>		<u> </u>		8. Proposed	<b>Bottom Hole</b>	Location				
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County	
				9. Pool	Information					
				Pool N					Pool Code	
				Blanco Mesaverd	le/Basin Dakota				72319 / 7159	
				Additional	Well Informa				•	
<sup>11.</sup> Work N			<sup>12.</sup> Well Type G		13. Cable/Rotary R	otary 14. Lease Type P		15. Ground Level Elevation 6106'		
<sup>16.</sup> Mul			17. Proposed Depth 7393'	1	18. Formation Mesaverde/Dakota				<sup>20.</sup> Spud Date 2026	
Depth to Groun	d water		Dista	nce from nearest fro	esh water well	well Distance to nearest surface water			water	
We will be u	sing a clo	sed-loop s	system in lieu of l	ined pits						
	8	•	-	Proposed Casir	ng and Cemen	t Program				
Type	Hole	e Size	Casing Size	Casing Wei	ight/ft	Setting Depth	Sacks of	Cement	Estimated TOC	
	12	1/4"	9 5/8"	32.3#/H40	STC	320'	320' 145 s		Surf	
	83	3/4"	7"	23# / J55 S	STC	4635'	512	sx	Surf	
	6	1/4"	4 1/2"	11.6#/J55	STC	7393' 187 s		SX	3669'	
			Casing	/Cement Prog	gram: Addition	nal Comments				
			22. <b>T</b>	Proposed Blow	out Preventio	n Program				
Type Working Pressure				Test Pressure		M	anufacturer			
	3M				Low 250 psi / High 3000 psi					
			•		•			•		
3. I hereby cer of my knowled			on given above is tr	ue and complete to	the best	OIL	CONSERVA	ΓΙΟΝ DIVIS	ION	
further certi	fy that I h		ied with 19.15.14.9 able.	O(A) NMAC a		oved By:				
(B).15.14.9 (B)										
Signature:		ene W	eston							

Approved Date:

Conditions of Approval Attached

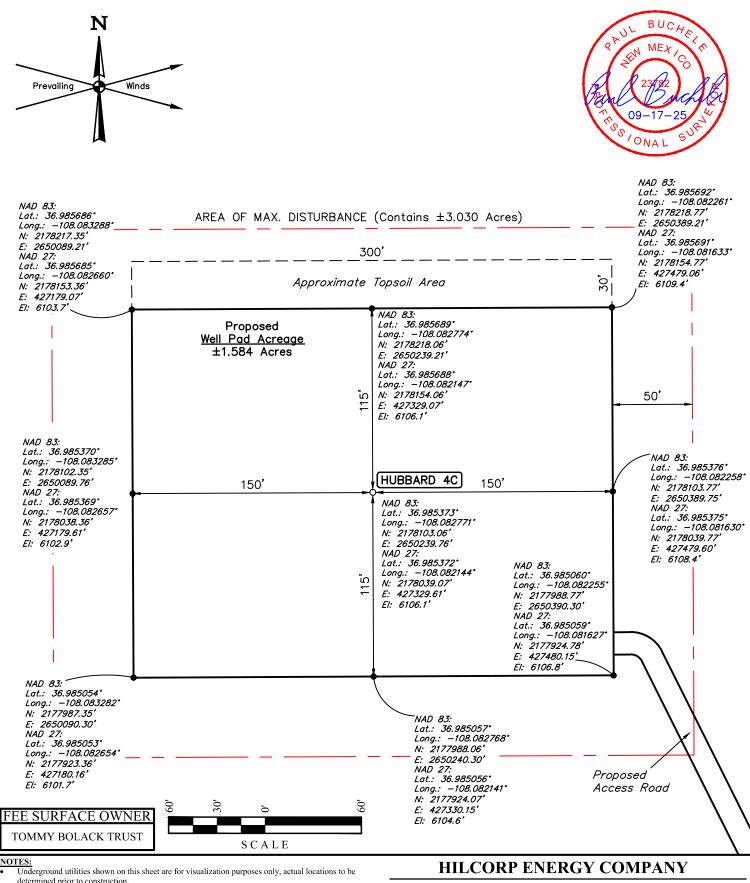
Expiration Date:

Phone: 713-289-2615

Title: Operations/Regulatory Tech Sr.

E-mail Address: cweston@hilcorp.com

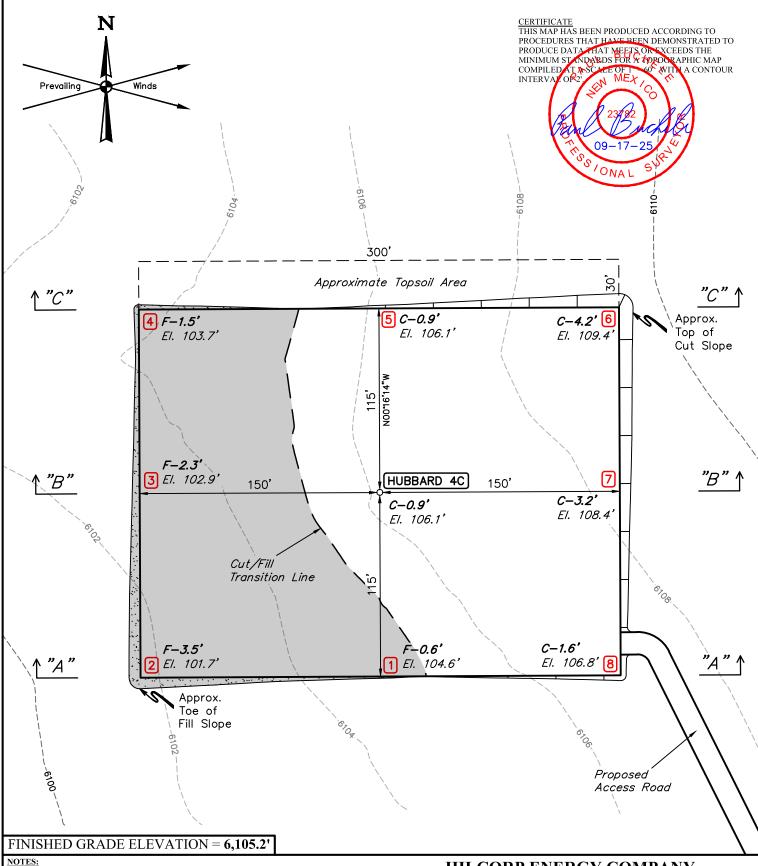
Date: 10/03/2025



- determined prior to construction.
- Bearings, Distances, Coordinates and Areas are based on the New Mexico Coordinate System of 1983, West Zone, in U.S. Feet.
- Coordinates shown are New Mexico Coordinate system, West Zone, U.S. Feet.

UELS, LLC Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

SURVEYED BY	A.H., C.S.	08-28-25	SCALE	
DRAWN BY	H.S.S.	09-17-25	1" = 60'	
SITE PLAN				

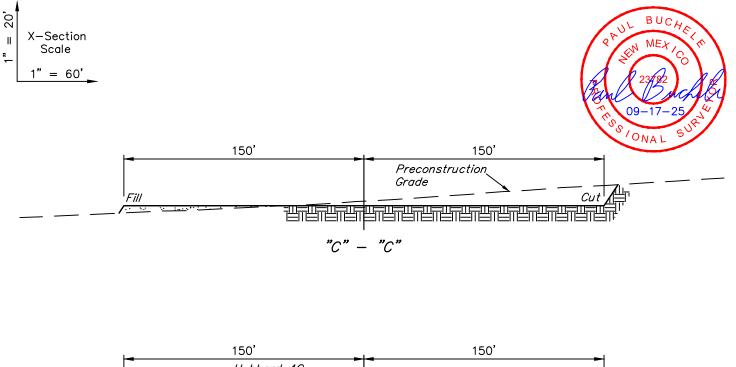


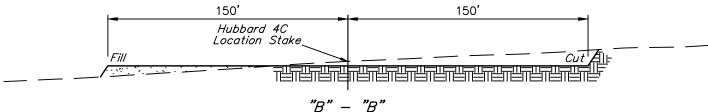
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Bearings, Distances, Coordinates and Areas are based on the New Mexico Coordinate System of 1983, West Zone, in U.S. Feet.
- Coordinates shown are New Mexico Coordinate system, West Zone, U.S. Feet.

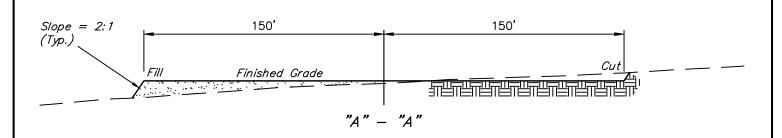
**UELS, LLC** Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

#### HILCORP ENERGY COMPANY

SURVEYED BY	A.H., C.S.	08-28-25	SCALE		
DRAWN BY	H.S.S.	09-17-25	1'' = 60'		
LOCATION LAYOUT					







APPROXIMATE EARTHWORK QUANTITIES				
(6") TOPSOIL STRIPPING	1,360 Cu. Yds.			
REMAINING LOCATION	1,960 Cu. Yds.			
TOTAL CUT	3,320 Cu. Yds.			
FILL	1,960 Cu. Yds.			
EXCESS MATERIAL	1,360 Cu. Yds.			
TOPSOIL	1,360 Cu. Yds.			
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.			

APPROXIMATE SURFACE DISTURBANCE AREAS					
	DISTANCE	ACRES			
WELL SITE DISTURBANCE	NA	$\pm 1.870$			
30' PROPOSED ACCESS ROAD ROW DISTURBANCE	±778.35	±0.536			
TOTAL SURFACE USE AREA	±2.406				

#### NOTES:

• Fill quantity includes 5% for compaction.

#### **HILCORP ENERGY COMPANY**

HUBBARD 4C NW 1/4 SE 1/4, SECTION 15, T32N, R12W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO





**UELS, LLC**Corporate Office \* 85 South 200 East
Vernal, UT 84078 \* (435) 789-1017

BEGINNING AT THE INTERSECTION OF NM HIGHWAY 574 AND AZTEC BLVD/US HIGHWAY 516 IN AZTEC, NEW MEXICO, PROCEED IN A NORTHERLY, THEN NORTHWESTERLY DIRECTION ALONG NM HIGHWAY 574 APPROXIMATELY 8.3 MILES TO THE JUNCTION OF THIS ROAD AND ROAD 1350 TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 4.8 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 1354 TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE EXISTING HUBBARD 4B WELL PAD AND THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE NORTHWEST: FOLLOW ROAD FLAGS IN A NORTHWESTERLY. THEN WESTERLY DIRECTION APPROXIMATELY 778' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM AZTEC, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 13.7 MILES.

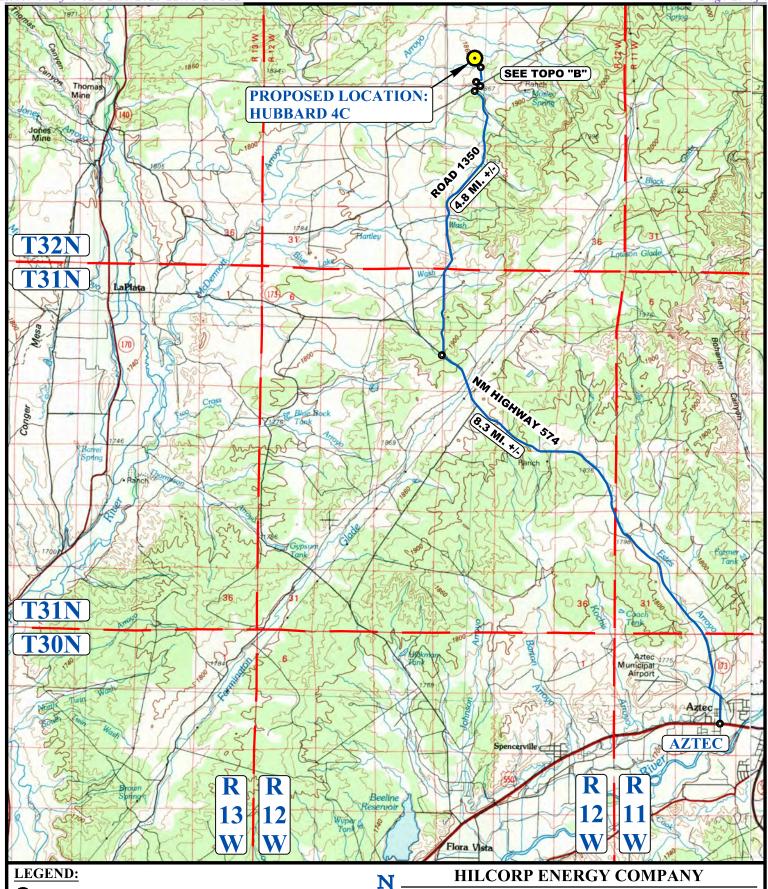
#### **HILCORP ENERGY COMPANY**

HUBBARD 4C NW 1/4 SE 1/4, SECTION 15, T32N, R12W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO



UELS, LLC Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

SURVEYED BY	A.H., C.S.	08-28-25			
DRAWN BY	H.S.S.	09-18-25			
ROAD DESCRIPTION					



#### **LEGEND:**



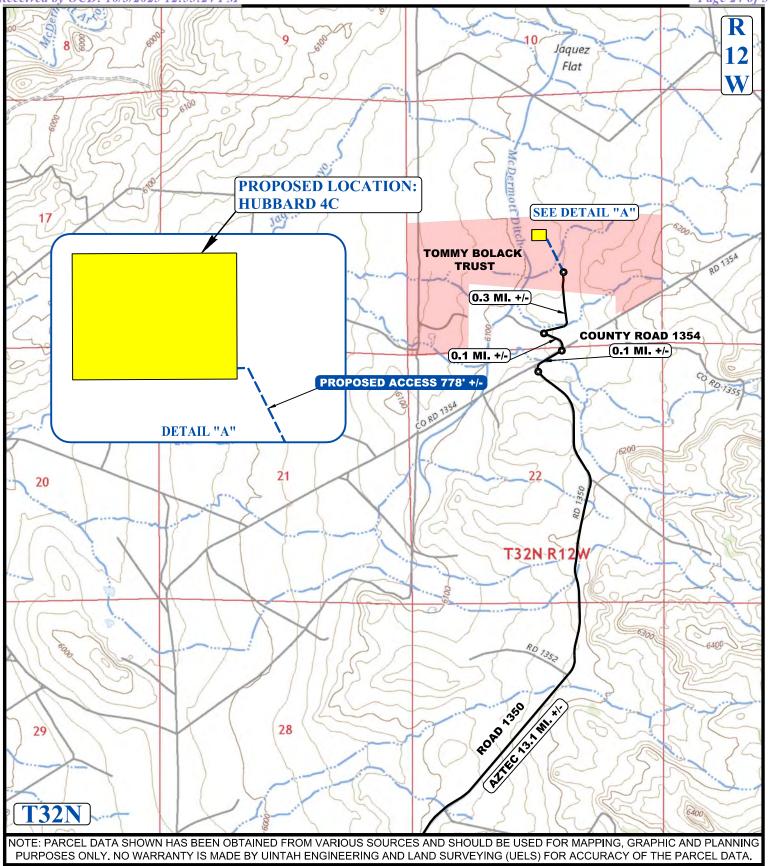
PROPOSED LOCATION



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#### HILCORP ENERGY COMPANY

SURVEYED BY	A.H., C.S.	08-2	8-25	SCALE
DRAWN BY	H.S.S.	09-18-25		1:100,000
ACCESS F	ROAD MAI		T	OPO A



N

**LEGEND:** EXISTING ROAD

PROPOSED ROAD

**UELS, LLC** Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

#### HILCORP ENERGY COMPANY

SURVEYED BY	A.H., C.S. 08-28-25		SCALE	
DRAWN BY	H.S.S.	09-18-25		1:24,000
ACCESS R	<b>COAD MAI</b>		T	OPO B

EXISTING WELLS



**UELS, LLC** Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

SURVEYED BY	A.H., C.S.	08-2	8-25	SCALE
DRAWN BY	H.S.S.	09-18-25		1:24,000
WELL PROX	AP	T	OPO C	

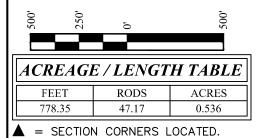
#### ROAD RIGHT-OF-WAY DESCRIPTION

S8718'20"W - 2652.75

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

w/ Brass Cap

BEGINNING AT A POINT IN THE NW 1/4 SE 1/4 OF SECTION 15, T32N, R12W, N.M.P.M., WITH THE NORTHING: 2,177,330.59' AND THE EASTING: 2,650,749.47'; THENCE N26\*34'50"W 758.46'; THENCE S89\*36'19"W 19.89' TO A POINT IN THE NW 1/4SE 1/4 OF SAID SECTION 15 AND THE POINT OF TERMINATION, WITH THE NORTHING: 2,178,008.75' AND THE EASTING: 2,650,390.20'. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.536 ACRES MORE OR LESS. BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED ON THE NEW MEXICO COORDINATE SYSTEM OF 1983, WEST ZONE, IN U.S. FEET.



LINE TABLE					
LINE	DIRECTION	LENGTH			
L1	N26°34'50"W	758.46'			
L2	S89*36'19"W	19.89'			

N

<u>CERTIFICATE</u>
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND I HIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AWRESPONSIBLE FOR THIS SURVEY MEE'NS THE MINIMUM STANDARDS FOR SURVEY MEE'NS THE MINIMUM STANDARDS FOR SURVEY MEE'NS THE MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY INDUMEDOR AND BET HE 09

SE Cor. Sec. 15, 2" Iron Pipe w/ Brass Cap

N: 2.175.849.16 E: 2,652,832.27'

The maximum grade of existing ground for the proposed access road is ±2.57%.

Bearings, Distances, Coordinates and Areas are based on the New Mexico Coordinate System of 1983, West Zone, in U.S. Feet.



**UELS, LLC** Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

#### HILCORP ENERGY COMPANY

HUBBARD 4C ON TOMMY BOLACK TRUST LANDS IN SECTION 15, T32N, R12W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

SURVEYED BY A.H., C.S. SCALE 08-28-25 DRAWN BY 09-23-25 D.M.C FILE 25-0006-A

ACCESS ROAD R-O-W

Released to Imaging: 10/16/2025 9:32:54 AM

#### State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

#### NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

#### Section 1 – Plan Description Effective May 25, 2021

I. Operator: Hilcorp Energy Con	npany		OGRID:	372171	Date	e: <u>09/26/20</u>	<u>25</u>
<b>II. Type:</b> ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.							
If Other, please describe:							
<b>III. Well(s):</b> Provide the following be recompleted from a single well				or set of	wells propo	sed to be drille	ed or proposed to
Well Name	API	ULSTR	Footages		Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Hubbard 4C		J-15-32N-12W	2373' FSL & 2586' F	EL	5	900	15
IV. Central Delivery Point Name: Ignacio Processing Plant [See 19.15.27.9(D)(1) NMAC]  V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.							
Well Name	AF	PI Spud Da	ate TD Reached Date	Com	mpletion mencement Date	Initial Flow Back Date	First Production Date
Hubbard 4C		<u>2026</u>					<u>2026</u>
Hubbard 4C  VI. Separation Equipment:   Attach a complete description of how Operator will size separation equipment to optimize gas capture.  VII. Operational Practices:   Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.  VIII. Best Management Practices:   Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.							

### Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

#### X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering	Available Maximum Daily Capacity
			Start Date	of System Segment Tie-in

<b>XI. Map.</b> $\square$ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system $\square$ will $\square$ will not have capacity to gather 100% of the anticipated	natural gas
production volume from the well prior to the date of first production.	

<b>XIII. Line Pressure.</b> Operator $\square$ does $\square$ does not anticipate that its existing well(s) connected to the same segment, or portion	on, of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new	well(s).

	Attach (	Operator'	e nlan to r	nanaga nr	oduction	in recnonce	to the	incressed li	ne pressure
ш	Attach	Operator	s bian to r	nanage pr	oduction.	in response	to the	increased ii	ne pressure

XIV. Confidentiality:   Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided	in
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information	on
for which confidentiality is asserted and the basis for such assertion.	

## Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

🖂 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan.  $\Box$  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- power generation on lease; (a)
- **(b)** power generation for grid;
- compression on lease; (c)
- (d) liquids removal on lease;
- reinjection for underground storage; (e)
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- fuel cell production; and (h)
- (i) other alternative beneficial uses approved by the division.

### Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Cherylene Weston					
Printed Name: Cherylene Weston					
Title: Operations/Regulatory Tech-Sr.					
E-mail Address: <a href="mailto:cweston@hilcorp.com">cweston@hilcorp.com</a>					
Date: 09/26/2025					
Phone: 713-289-2615					
OIL CONSERVATION DIVISION					
(Only applicable when submitted as a standalone form)					
Approved By:					
Title:					
Approval Date:					
Conditions of Approval:					

## Hilcorp Energy Natural Gas Management Plan Attachments

#### VI. Separation Equipment

The operator will select separation equipment for the maximum anticipated throughput and pressure to optimize gas capture. Separation equipment is sized according to manufacturer's design specifications. Separation vessels are built following the A.S.M.E. section VII division 1 codes for pressure vessel design, fabrication, inspection, testing and certification. Anticipated well pressures and production rates are evaluated to select separation equipment according to the equipment's designed operating pressure and throughput.

After completion, the operator utilizes flowback equipment, including separators, to manage wellbore fluids and solids during the initial separation period. After the initial flowback period is complete the operator utilizes iterative facility separation equipment to ensure that optimal separation is achieved.

#### VII. Operational Practices 19.15.27.8 NMAC A through F

- A. The operator will maximize the recovery of natural gas and minimize the amount of gas vented or flared when technically and safely feasible as further described and detailed within the following subsections (B-F of 19.15.27.8). In all cases where natural gas venting and flaring requires regulatory reporting, reporting will be submitted accurately and within the required time frames.
- B. Venting and flaring during drilling operations:
  - a. New Drill HZ Gas Wells: The operator drills wells in the area by utilizing a balanced mud to safely drill the wellbore. This technique prevents gas from coming to surface during the drilling process. If there is an emergency or malfunction and natural gas does come to surface the natural gas will be captured and routed to sales if technically and safely feasible.
- C. Venting and flaring during completion or recompletion operations:
  - a. New Drill HZ Gas Wells: The operator's facilities are designed to handle the maximum throughput and pressures from the newly drilled and completed wellbores. The amount of gas vented and flared will be minimized when technically and safely feasible. During initial flowback and initial separation flowback the operator will utilize contracted flowback equipment, including separators, to manage wellbore fluids and solids. The initial flowback period will be minimized and flow will be sent to separation equipment as soon as possible to reduce the amount of gas that is vented to atmosphere. The natural gas will be utilized on site as needed for fuel gas and natural gas will be sold.
- D. Venting and flaring during production operations:
  - a. New Drill HZ Gas Wells: The operator's facilities are designed to handle the maximum throughput and pressures from producing wellbores. The amount of gas vented and flared will be minimized when technically and safely feasible.
    - Operations will effectively manage the following scenarios to minimize the quantity of natural gas that is vented or flared:

- (a) If there is an emergency or malfunction vented or flared natural gas will be reported, if required, and the emergency or malfunction will be resolved as soon as technically and safely feasible.
- (b) If the wellbore needs to be unloaded to atmosphere the operator will not vent the well after the well has achieved a stabilized rate and pressure. The operator will remain on site during unloading. Plunger lift systems will be optimized to reduce the amount of natural gas venting. Downhole maintenance, such as workovers, swabbing, etc. will only be conducted as needed and best management practices will be utilized to reduce venting of natural gas.
- (c) The operator will minimize the amount of time that natural gas is vented to atmosphere from gauging and sampling a storage tank or low pressure vessel. The formation is only anticipated to produce water and therefore tank emissions are anticipated to be negligible.
- (d) The operator will reduce the amount of time needed for loading out liquids from a storage tanks or other low-pressure vessels whenever feasible. Operations will always utilize the water transfer systems when available. Water loading emissions are anticipated to be negligible.
- (e) Equipment will be repaired and maintained routinely to minimize the venting or flaring of natural gas. Repairs and maintenance will be conducted in a manner that minimizes the amount of natural gas vented to atmosphere through the isolation of the equipment that is being repaired or maintained.
- (f) Electric controllers and pumps will be installed to replace pneumatic controllers whenever feasible. Pneumatic controllers and pumps will be inspected frequently to ensure that no excess gas is vented to atmosphere.
- (g) No dehydration or amine units are anticipated to be set on location.
- (h) Compressors, compressor engines, turbines, flanges, connectors, valves, storage tanks, and other low-pressure vessels and flanges will be routinely inspected to ensure that no excess venting occurs outside of normal operations.
- (i) Regulatory required testing, such as bradenhead and packer testing will be performed in a manner that minimizes the amount of natural gas vented to atmosphere.
- (j) If natural gas does not meet gathering pipeline specifications gas samples will be collected twice per week to determine when pipeline specification gas content has been achieved. During this time frame gas will be flared and not vented to atmosphere. Natural gas that meets pipeline specifications will be sold via pipeline and natural gas that can be utilized for fuel gas will be used during this time.
- (k) If pipeline, equipment, or facilities need purged of impurities gas losses will be minimized as much as technically and safely feasible.

#### E. Performance standards:

- a. The production facilities are designed to handle the maximum throughput and pressures from producing wellbores and will be designed to minimize waste. The amount of gas vented and flared will be minimized when technically and safely feasible.
- b. All tanks that are routed to a control device that is installed after 5/25/2021 will have an automatic gauging system to minimize the amount of vented natural gas.
- c. If a flare stack is installed or replaced after 5/25/2021 it will be equipped with an automatic ignitor or continuous pilot. The flare stack will be properly sized and designed to ensure proper combustion efficiency. The flare stack will be located 100 feet away from the nearest wellhead or storage tank.
- d. AVO inspections will be conducted weekly for the year after completion and for all wells producing greater than 60,000 cubic feet of natural gas daily. The AVO inspection will include all components, including flare stacks, thief hatches, closed vent systems, pumps, compressors, pressure relief devices, valves, lines, flanges, connectors, and associated pipeline to identify any leaks and releases by comprehensive auditory, visual, and olfactory inspection. The AVO inspection records will be maintained for 5 years which will be available at the department's request. Identified leaks will be repaired as soon as feasible to minimize the amount of vented natural gas. F. Measurement or estimation of vented and flared natural gas.
- The volume of natural gas that is vented, flared or consumed for beneficial use will be measured when possible, or estimated, during drilling, completions, or production operations.
- b. Equipment will be installed to measure the volume of natural gas flared for all APD's issued after 5/25/2021 on facilities that will have an average daily gas rate greater than 60,000 cubic feet of natural gas. Measurement equipment will conform to API MPMS Chapter 14.10 regulations. The measurement equipment will not have a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment. If metering is not practical then the volume of gas will be estimated.