Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory

UL - Lot

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

Section

12

## **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 399186

E/W Line

County

San Juan

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

					, -	AL-LIVILIX, DEL	,	,				
1. Operator Nam	ne and Address								2. OGRID Number			
HILCORP ENERGY COMPANY										372171		
1111	Travis Street								3. API Number			
Hous	ston, TX 77002								30-045-	-38482		
4. Property Code	е		5. Property Name						6. Well No.			
3220	)04		KATE STAN	NDAGE					001F			
					7. 8	Surface Location						
UL - Lot	Section	Township	Range	Lot Idn		Feet From	N/S Line	Feet From	E/W Line	County		
G	12	301	N 12W		G	1822	N	1798	E	San Juan		

Feet From 9. Pool Information

1822

N/S Line

Feet From

1798

Lot Idn

BASIN DAKOTA (PRORATED GAS)	71599
BLANCO-MESAVERDE (PROBATED GAS)	72310

**Additional Well Information** 

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		Private	5810
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
Y	6916	Dakota Formation		3/1/2026
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

Township

30N

Range

12W

21. Proposed Casing and Cement Program

Type	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	4134	459	0
Prod	6.25	4.5	11.6	6916	188	3634

#### Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program							
Туре	Working Pressure	Test Pressure	Manufacturer				
Annular	250	3000					

knowledge and b I hereby certify th or recompletion of	elief. at no additives containing PFAS cho of this well.	true and complete to the best of my emicals will be added to the completion NMAC 🗵 and/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:	Email Address: jolivarez@hilcorp.com			10/16/2025	Expiration Date: 10/16/2027
Date:	10/7/2025	Phone: 713-289-2838	Conditions of Appr	oval Attached	

	<i>-</i>	0/7/2025 2:	39:57 PM					ı		Page 2
<u>C-10</u>			State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION						Revis	sed July 9, 2024
	Electronicall D Permitting	У		OIL	CONSERVA	HON DIVISION		a 1	☑ Initial Submit	tal
								Submitta Type:	□ Amended Rep	ort
									☐ As Drilled	
					WELL LOCA	FION INFORMATION				
	)45-384	82	Pool Code	71599		Pool Name	BASI	N DAKO	TA	
	y Code 22004		Property N	ame	KATI	E STANDAGE			Well Number	7
OGRII			Operator N	ame		NERGY COMPANY			Ground Level Ele	evation
Surface		State <b>⊠</b> Fee □	Tribal □ Fe	deral		Mineral Owner:	State  Fee	☐ Tribal ☐		
UL	Section	Township	Range	Lot	Surf Ft. from N/S	ace Location  Ft. from E/W	Latitude (N	AD 92)	Longitude (NAD 83)	County
G	12	30N	12W	Lot	1,822 NORTH		36.8288		-108.047166°	SAN JUAN
						1 Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83)	Longitude (NAD 83)	County
										j
Dedica	ted Acres	Infill or Defi	ning Well		g Well API	Overlapping Spacin	g Unit (Y/N)	Consolid	ation Code	
E/2 -	320	Infill		30	-045-09648	N			С	
Order l	Numbers.					Well setbacks are un	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)	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)	Longitude (NAD 83)	County
					Last Ta	ake Point (LTP)			'	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83)	Longitude (NAD 83)	County
						•				
Unitize	ed Area or Ar	ea of Uniform	Interest	Spacing	Unit Type   Hori	zontal 🛛 Vertical	Grou	nd Floor El	levation: 5810'	
				1						
OPER.	ATOR CERT	TIFICATIONS				SURVEYOR CERTIF	ICATIONS			
					plete to the best of	I hereby certify that the w	ell location shown	on this plat	t was plotted from the fiel	d notes of actual
organiza	ation either ow	ef , and, if the we ns a working inter	rest or unleased	mineral inte	rest in the land	surveys made by me or un my belief.	der my supervisio	on, and that i	the same is true and corre	ect to the best of
		l bottom hole loca contract with an c			is well at this or unleased mineral				SEN WEY	(c) (i)
	or to a volunta by the division.		ment or a comp	ulsory poolin	g order heretofore				23/18/2	
		tal well, I further	certify that this	organization	has received the				Vanl D	hoff
consent	of at least one	lessee or owner o	f a working inte	rest or unlea	sed mineral interest e well's completed				7 09-25-	25
interval	will be located	or obtained a co	mpulsory poolin						ONAL	SU
<u>Ch</u>	<u>erytene</u>	Westor	<u> </u>	1(	0/1/2025					
Signatur	e		Date			Signature and Seal of Profe	essional Surveyor			

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

September 04, 2025

Date of Survey

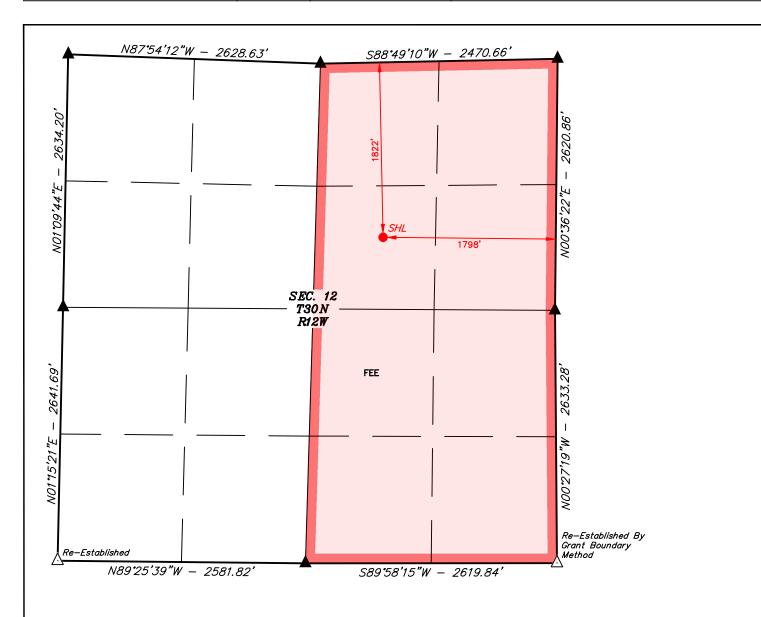
Printed Name

Email Address

cweston@hilcorp.com

Cherylene Weston, Operations/Regulatory Tech-Sr.

Property Name Well Number Drawn By Revised By KATE STANDAGE 1F D.M.C. 09-25-25



- NOTE:

  Distances referenced on plat to section lines are perpendicular.
- Bearings, Distances, Coordinates and Areas are based on the New Mexico Coordinate System of 1983, West Zone, in U.S. Feet.
- Colored areas within section lines
- represent oil & gas leases. Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.

Sheet 2 of 3

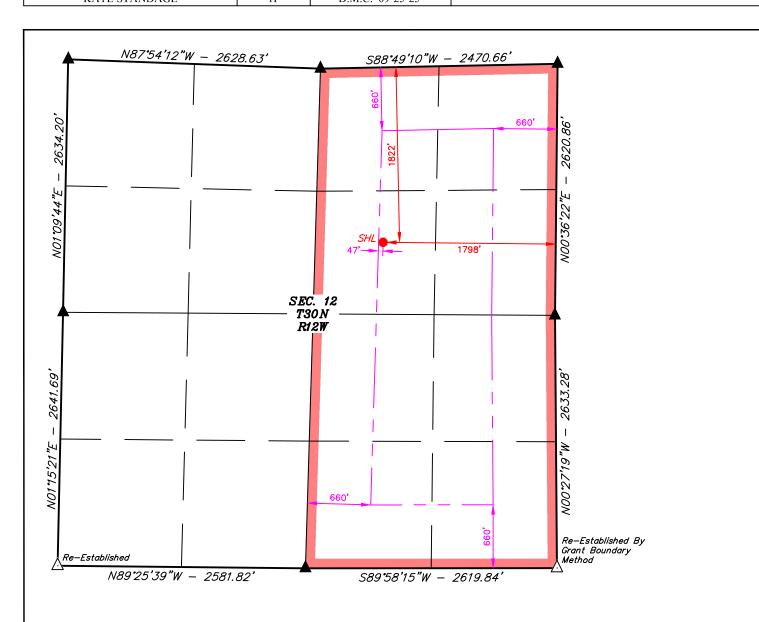
## = SURFACE HOLE LOCATION lack = SECTION CORNER LOCATED $\triangle$ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.) == DESIGNATED SPACING UNIT

SCALE

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 36°49'43.76" (36.828821°) LONGITUDE = -108°02'49.80" (-108.047166°) NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 36°49'43.74" (36.828818°) LONGITUDE = -108°02'47.55" (-108.046541°) STATE PLANE NAD 83 (N.M. WEST) N: 2121082.83' E: 2660510.95 STATE PLANE NAD 27 (N.M. WEST) N: 2121019.48' E: 437600.75

Property Name Well Number Drawn By Revised By

KATE STANDAGE 1F D.M.C. 09-25-25



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Sheet 3 of 3

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<u>C-10</u>		0/7/2025 2:		State of New Mexico Energy, Minerals & Natural Resources Department						Revis	sed July 9, 2024
	: Electronicall D Permitting	У		OIL	CONSERVA	ATIC	ON DIVISION			☑ Initial Submit	tal
									Submittal Type:	1 ☐ Amended Rep	oort
									Type.	☐ As Drilled	
					WELL LOCA	ATIO	N INFORMATION		l	<b>-</b>	
API No	umber 045-384	82	Pool Code	72319	)	Pool	l Name	BLANCO	) MESAVI	ERDE	
Proper	ty Code 22004	<u> </u>	Property N	ame	KA	TE ST	`ANDAGE			Well Number	3
OGRII			Operator N	lame	HILCORP	ENEF	RGY COMPANY			Ground Level Ele	
Surface	e Owner: 🗆 S	State <b>⊠</b> Fee □	Tribal 🗆 Fe	deral			Mineral Owner:	State Fee [	☐ Tribal ☐	Federal	
					g	C .	τ				
UL G	Section 12	Township 30N	Range 12W	Lot	Ft. from N/S 1,822 NORT		Location Ft. from E/W 1,798 EAST	Latitude (N. 36.8288		Longitude (NAD 83) -108.047166°	County SAN JUAN
					Rotto	m Ho	ole Location				
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude (N.	AD 83) I	Longitude (NAD 83)	County
Dedica	ted Acres	Infill or Defi	ining Well		g Well API 0-045-32042		Overlapping Spacin	g Unit (Y/N)	Consolida (	ation Code	
Order 1	Numbers.	1		·		ı	Well setbacks are un	nder Common (	Ownership:	□Yes □No	
					Kick	Off P	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 '	Take I	Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Take I	Ft. from E/W	Latitude (N.	AD 83) I	Longitude (NAD 83)	County
					I act '	Take I	Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Take I	Ft. from E/W	Latitude (N.	AD 83) I	Longitude (NAD 83)	County
Unitize	ed Area or Ar	ea of Uniform	Interest	Spacing	g Unit Type □ Ho	rizonta	al 🛛 Vertical	Grour	nd Floor Ele	evation: 5810'	
OPER/	ATOR CERT	TIFICATIONS				SU	URVEYOR CERTIF	ICATIONS			
my know organize includin location interest, entered	vledge and beli ation either ow g the proposed pursuant to a or to a volunto by the division. ell is a horizon	ef, and, if the we ns a working inte bottom hole loca contract with an a try pooling agree tal well, I further	ll is a vertical o rest or unleasea tion or has a rig owner of a work ment or a comp certify that this	r directional l mineral inte ght to drill th ing interest o ulsory poolir organization	erest in the land	su my	hereby certify that the w urveys made by me or un y belief.	ell location shown der my supervisio	on this plat on, and that th	was plotted from the field the same is whe and correct MEX	a moses of actual electric time best of

# in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

10/1/2025

Cherylene Weston, Operations/Regulatory Tech-Sr.

Printed Name

cweston@hilcorp.com Email Address

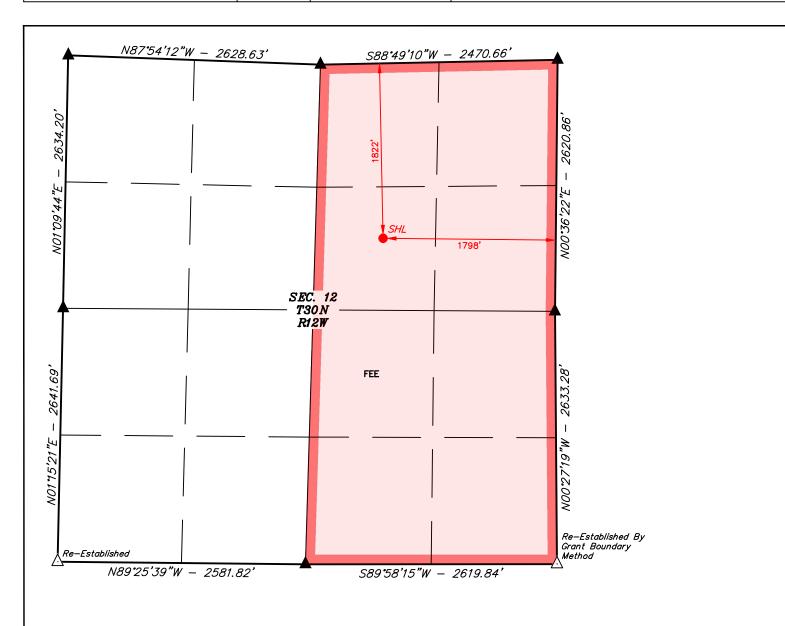
Signature and Seal of Professional Surveyor

23782 September 04, 2025

Certificate Number Date of Survey

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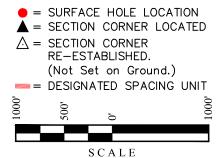
Property Name Well Number Drawn By Revised By KATE STANDAGE 1F D.M.C. 09-25-25



- NOTE:

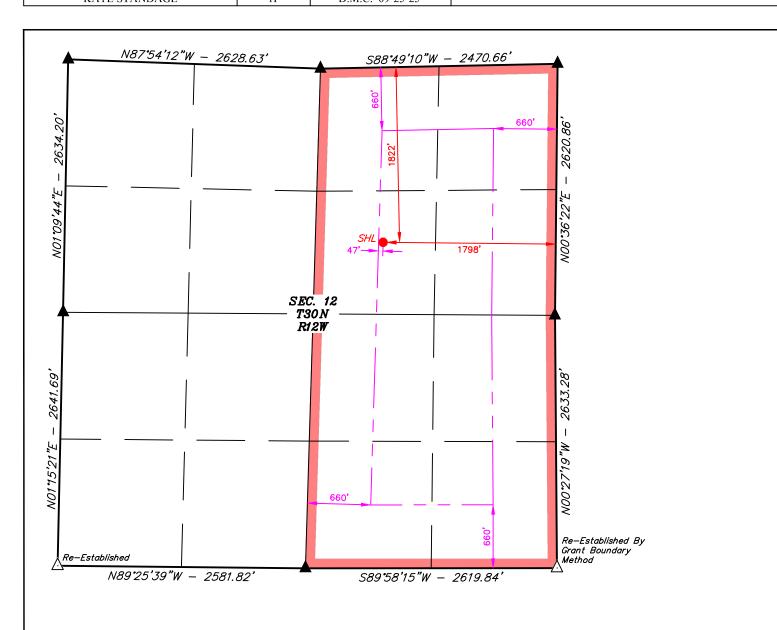
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Sheet 2 of 3



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STATE PLANE NAD 27 (N.M. WEST) N: 2121019.48' E: 437600.75' 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 APD Conditions

Permit 399186

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
HILCORP ENERGY COMPANY [372171]	30-045-38482
1111 Travis Street	Well:
Houston, TX 77002	KATE STANDAGE #001F

OCD Reviewer	Condition
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.
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.

San Juan County, NM

#### Kate Standage 1F



#### Technical Drilling Plan (Rev. 4)

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 2, 2025	Pool:	Mesa Verde / Dakota
Well Name:	Kate Standage 1F	Ground Elevation (ft. MSL):	5,810'
Surface Hole Location:	36.828818° N, 108.046541° W	Total Depth (ft. TMD/TVD)	6,916' / 6,916'
Bottom Hole Location:	36.828818° N, 108.046541° 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	714'	Water (fresh/useable)
Kirtland	825'	None
Fruitland Coal	1,698'	Gas, Water, depleted
Pictured Cliffs	2,187'	Gas, depleted
Lewis Shale	2,269'	None
Chacra	3,219'	None, Gas
Cliff House	3,755'	Gas, Water, possible depletion
Menefee	3,934'	Gas, possible water & depletion
Point Lookout	4,529'	Gas, likely depletion
Mancos	4,847'	Gas, possible condensate
Gallup	5,775'	Gas, possible condensate
Juana Lopez	6,194'	None, Gas
Greenhorn	6,526'	None, Gas
Graneros	6,584'	None, Gas
Two Wells	6,646'	Gas
Paugate	6,702'	Gas, possible depletion
Cubero	6,745'	Gas, possible depletion
Encinal Canyon	6,809'	Gas, Water
Burro Canyon	6,866'	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.

#### Kate Standage 1F



#### 4. Casing Program

#### A. Proposed Casing Program:

Proposed Casing Design									
Casing String	Hole Size	Casing Top Depth Shoe Depth (size/weight/grade) (MD/TVD) (MD/TVD)				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'	4,134′/4,134′	3,270 psi	4,360 psi	366 klbs		
Production	6-1/4"	4-1/2"-11.6#-J55 (or equiv.)-LTC/BTC	0'	6,916′/6,916′	4,960 psi	5,350 psi	184 klbs		

Proposed Casing Design Safety Factors							
Casing String	Casing String   Burst Design SF   Collapse Design SF   Joint Tensile Design SF   Connection Tensile Design S						
Surface	15.2	11.6	40.9	28.5			
Intermediate	2.1	2.0	4.5	5.3			
Production	1.5	1.7	2.7	3.3			

#### 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.

San Juan County, NM

#### Kate Standage 1F



#### 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 Sa		Sacks	Sacks Excess Slurry		Density	Planned		
	(ft. MD)		(ft <sup>3</sup> )		(%)	-	(ppg)	TOC	
Surface 320'		Lead	200 ft <sup>3</sup>	00 ft <sup>3</sup> 145 100% Class G Cement Yield: 1.38 ft <sup>3</sup> /sk		14.6	Surface		
		Slurry Additives	s: CaCl (1%), Ce	llo Flake (0.	25 lb/sk), CD-	2 (0.2%)			
	4,134′	Lead	803 ft <sup>3</sup>	377	50%	ASTM Type IL Yield: 2.13 ft <sup>3</sup> /sk	12.0	Surface	
Intermediate		Slurry Additives	Slurry Additives: CaCl <sub>2</sub> (3.0%), Celloflake (0.25 lb/sk), LCM-1 (5.0 lb/sk), FL-52 (0.4%), bentonite (8.0%), SMS (						
Intermediate		Tail	113 ft <sup>3</sup>	82	50%	ASTM Type IL Yield: 1.38 ft <sup>3</sup> /sk	14.5	3,634′	
		Slurry Additives	s: CaCl <sub>2</sub> (1.0%),	Celloflake (	0.25 lb/sk), L0	M-1 (5.0 lb/sk), FL-52 (0.2%)			
Production	6,916′	Lead	412 ft <sup>3</sup>	188	25%	ASTM Type IL Yield: 2.19 ft <sup>3</sup> /sk	12.5	3,634′	
		,	Slurry Additives: D-CSE 1 (5.0%), D-MPA 2 (1.2%), D-FP 1 (0.5%), D-R 1 (0.2%), Bentonite (4.0%), Plexfiber (0.25 lb/sx), PhenoSeal (0.25 lb/sx), CelloFlake (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).

#### Kate Standage 1F



#### 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′ – 4,134′		
Production	LSND / Gel / Air	8.4 – 9.2	6-16	5,000	4,134′ – 6,916′		

#### **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: 436 bbls (2,447 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

Kate Standage 1F



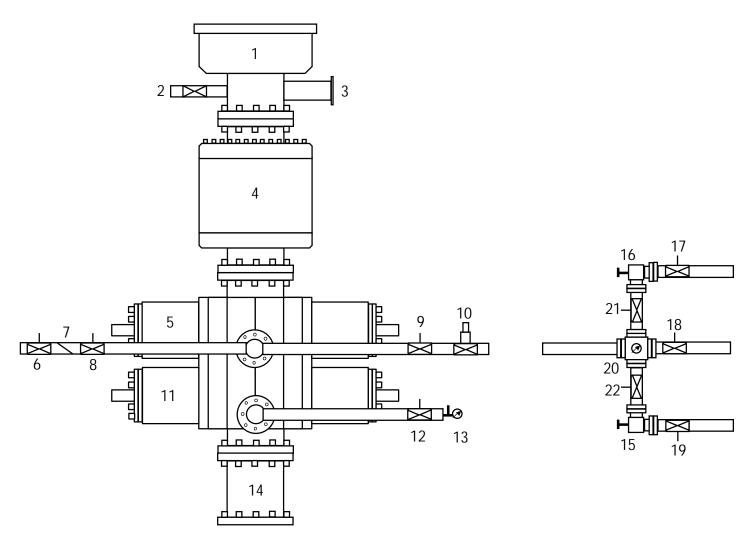
### 12. Completion

- 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 Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101 Revised July 18, 2013

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

1220 South St. Francis Dr.

nto Fo NM 97505

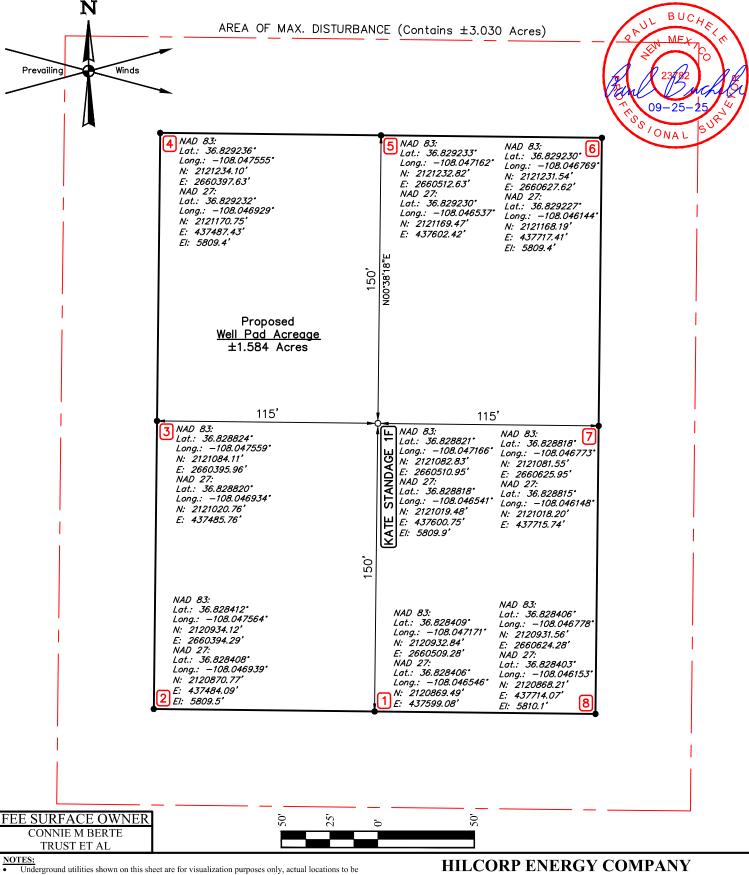
<sup>1.</sup> Operator Name and Address Hilcorp Energy Company 382 Road 3100 Aztec, NM 87410					,			<sup>2.</sup> OGRID Nur 372171	D A ZONE
						<sup>3.</sup> API Number			
<sup>4.</sup> Proper 322	ty Code 004			5. Prope Kate S	erty Name Standage			6.	Well No. 1F
				7. Surface	Location				
UL - Lot	Section	Township	Range	Lot Idn F		N/S Line	Feet From	E/W Line	County
G	12	30N	12W	8 Proposed Bot	1822	N	1798	E	San Juan
UL - Lot	Section	Township	Range			N/S Line	Feet From	E/W Line	County
				9. Pool Info	ormation				
				Pool Name					Pool Code
				Mesaverde/Dak	cota				72319 / 715
				Additional We					
<sup>11.</sup> Work N			<sup>12.</sup> Well Type G	<sup>13.</sup> Ca	able/Rotary R	tary 14. Lease Type P		15. Ground Level Elevation 5810'	
16. Mul					Formation verde/Basin Dakota				<sup>20.</sup> Spud Date 2026
pth to Groun					well Distance to no				
e will be u	sing a clos	ed-loop syst	tem in lieu of li	-			·		
				roposed Casing a			<u> </u>		
Туре	Hole	Size	Casing Size	Casing Weight/ft	t Settin	Setting Depth		Cement	Estimated TO
	12 1		9 5/8"	32.3#/H40 STC		320'		sx	Surf
	8 3/		7"	23# / J55 STC		4134'		SX	Surf
	6 1/	4"	4 1/2"	11.6#/J55 STC Cement Program		'omments	188	SX	3634'
			Casing	ecinent i rogram	. Additional C	omments			
			<sup>22.</sup> <b>P</b>	roposed Blowout	Prevention Pro	ogram		_	
				Type Working Pressure		Test Pressure		Manufacturer	
	Type			Vorking Pressure		Test Fies			
	Туре			Vorking Pressure 3M	Lov	v 250 psi / Hi			
			V	3M					
my knowled	tify that the	ef.	given above is tru	3M e and complete to the b	pest	w 250 psi / Hi		TION DIVI	SION
my knowled urther certi	tify that the lge and belice fy that I ha	ef. ve complied , if applicabl	given above is tru with 19.15.14.9	3M	pest	V 250 psi / Hi	gh 3000 psi	ION DIVI	SION
my knowled arther certi .15.14.9 (B)	tify that the lge and belice fy that I ha	ef. ve complied , if applicabl	given above is tru with 19.15.14.9	3M e and complete to the b	pest r	V 250 psi / Hi	gh 3000 psi	ΓΙΟΝ DIVI	SION
my knowled further certi	tify that the lge and belie fy that I ha NMAC	ef. ve complied , if applicable	given above is tru with 19.15.14.9	3M e and complete to the b	pest r	V 250 psi / Hi	gh 3000 psi	ΓΙΟΝ DIVI	SION

Conditions of Approval Attached

Phone: 713-289-2615

E-mail Address: <a href="mailto:cweston@hilcorp.com">cweston@hilcorp.com</a>

Date: 10/06/2025



- 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.

KATE STANDAGE 1F SW 1/4 NE 1/4, SECTION 12, T30N, R12W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

SURVEYED BY A.H., J.H. 09-04-25 SCALE DRAWN BY 09-25-25 1'' = 50'D.M.C SITE PLAN



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/NM HIGHWAY 516 IN AZTEC, NEW MEXICO, PROCEED IN A WESTERLY DIRECTION ALONG AZTEC BLVD/NM HIGHWAY 516 APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM AZTEC, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.3 MILES.

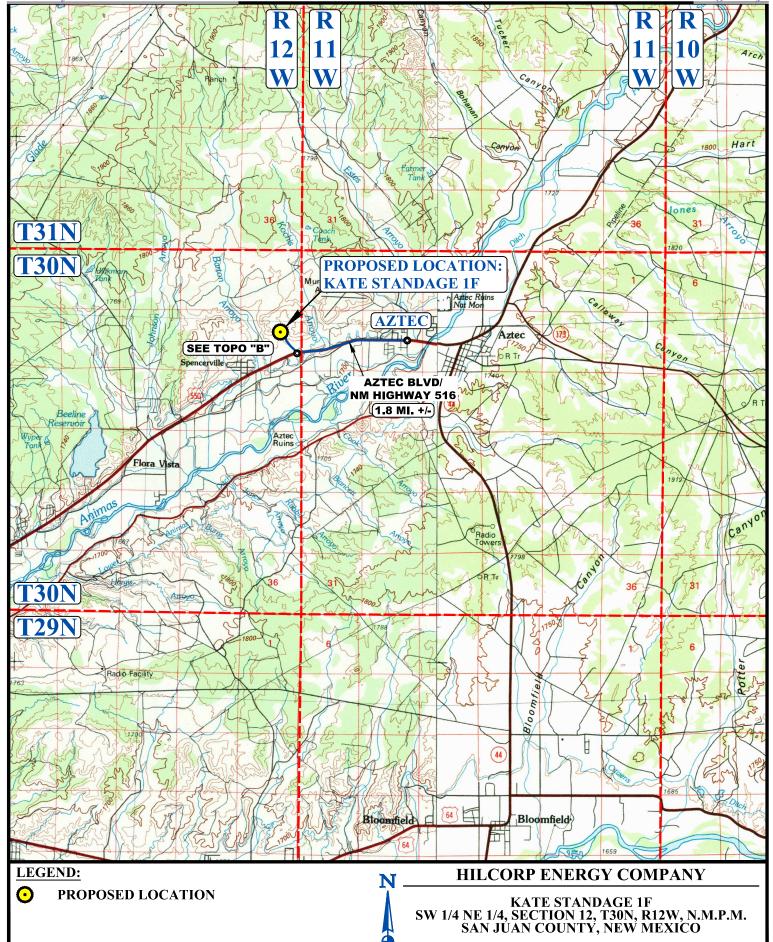
#### HILCORP ENERGY COMPANY

KATE STANDAGE 1F SW 1/4 NE 1/4, SECTION 12, T30N, 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., J.H.	09-04-25				
DRAWN BY	D.M.C.	09-25-25				
ROAD DESCRIPTION						



SURVEYED BY

**DRAWN BY** 

A.H., J.H.

ACCESS ROAD MAP

09-04-25

**SCALE** 

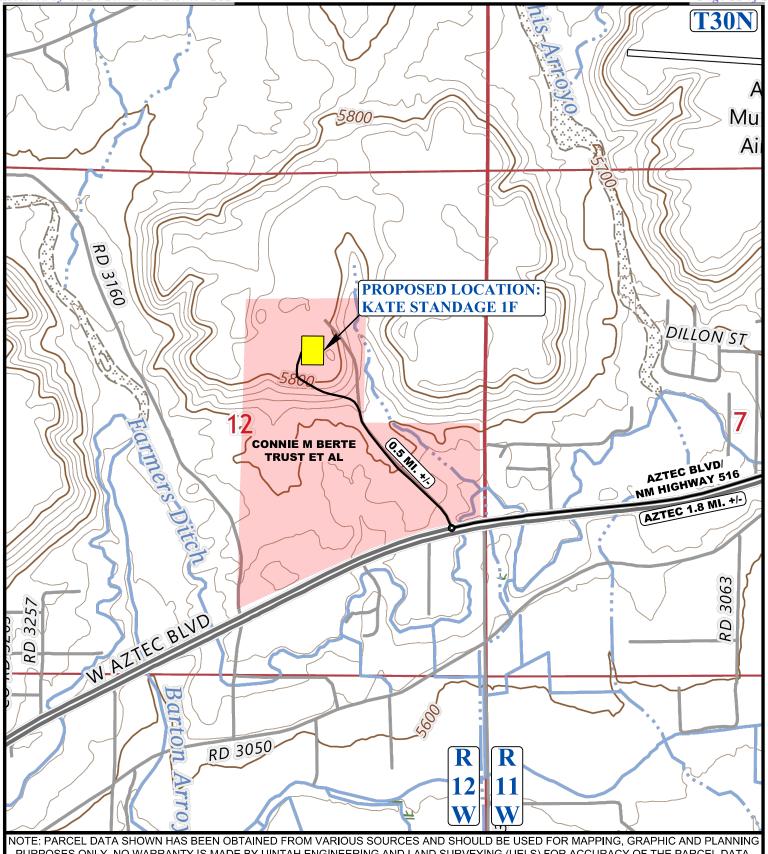
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TOPO A

**UELS, LLC** 

Corporate Office \* 85 South 200 East

Vernal, UT 84078 \* (435) 789-1017



PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

N

#### **LEGEND:**

EXISTING ROAD

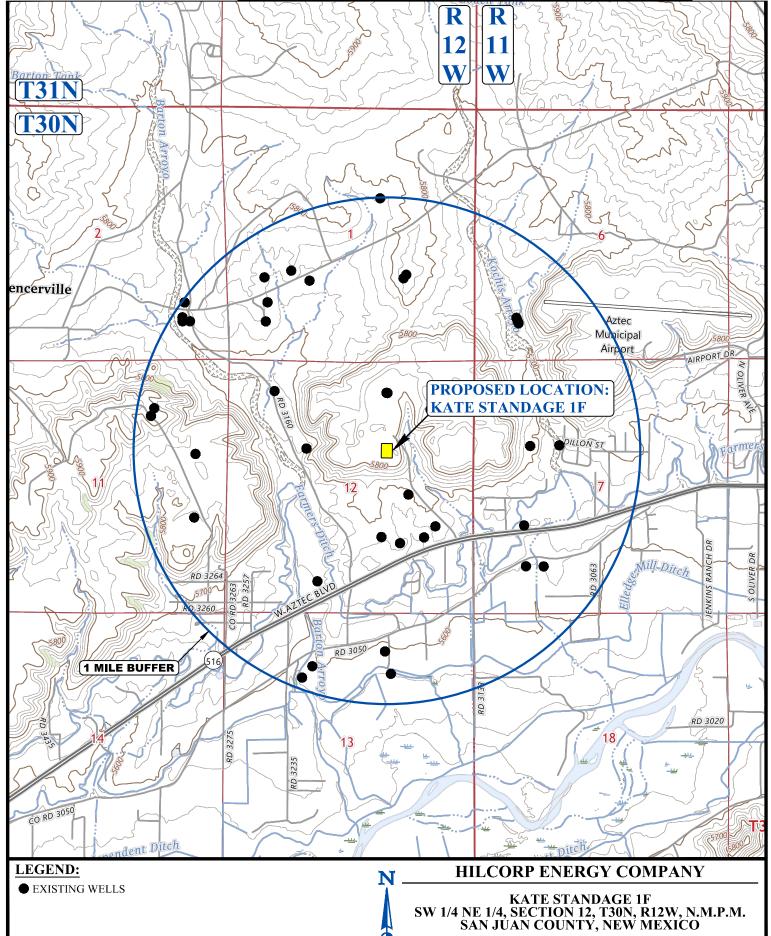


**UELS, LLC** Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

#### HILCORP ENERGY COMPANY

KATE STANDAGE 1F SW 1/4 NE 1/4, SECTION 12, T30N, R12W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

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ACCESS R	<b>ROAD MAI</b>		T	OPO B





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

SURVEYED BY	A.H., J.H.	09-04-25		SCALE
DRAWN BY	D.M.C.	09-25-25		1:24,000
WELL PROX	XIMITY M	AP	T	OPO C

#### 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

1. Operator: Hilcorp El	nergy Company	<u>'</u>	0	GKID: 3	0/21/1	Jale: 10/02/2	2023
<b>II. Type:</b> ⊠ Original □	☐ Amendment o	lue to □ 19.15.27.	.9.D(6)(a) NMA	.C □ 19.15	.27.9.D(6)(b) N	MAC □ Other.	
If Other, please describe	:			<del>-</del>			<u>.</u>
<b>III. Well(s):</b> Provide the be recompleted from a si					set of wells pro	oposed to be dril	led or proposed to
Well Name	API	ULSTR	Footages		Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Kate Standage 1F		G-12-30N-12W	1822' FNL, 17	798' FEL	13	600	_12
IV. Central Delivery Point Name: Chaco-Blanco 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 API Spud Date TD Reached Completion Initial Flow Back Date Date							sed to be drilled or
Kate Standage 1F		2026					2026
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 planne			r	1		1	

## 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 property of the same segment of the same segmen	ortion, 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
for which confidentiality is asserted and the basis for such assertion.

# Section 3 - Certifications Effective May 25, 2021

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: 10/02/2025
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.

Page **5** of **7** 

- (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.
- 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

Page **6** of **7** 

minimize the amount of vented natural gas. F. Measurement or estimation of vented and flared natural gas.

- a. 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.