Received by OCD: 4/26/2024 1:42:18 PM

Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First Street, 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. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505

Form**Page 1 of 21**Revised August 1, 2011

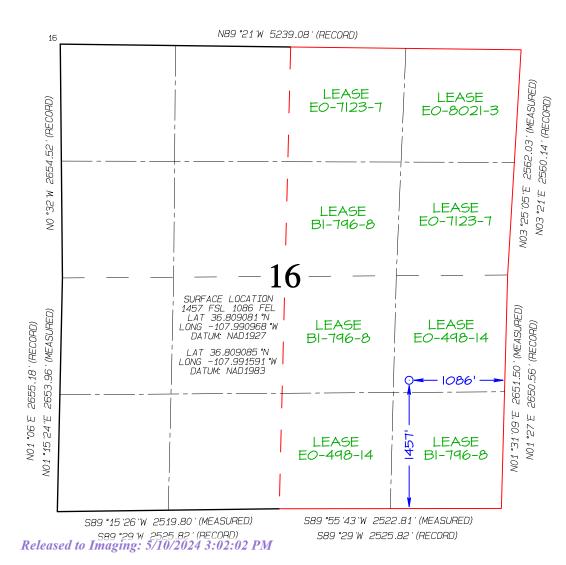
Submit one copy to Appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ A	PI Numbe	r		²Pool Coo	de	³Pool Name					
30-0)45-38	344	723	319 / 7	1599	599 BLANCO MESA VERDE / BASIN DAKOTA					
⁴ Property Code					⁵Property Name				⁶ Well Number		
318890					GONSALES S	STATE COM			1N		
OGRID N	10.				*Operator	Name			ª E	levation	
372171 HI				HI	LCORP ENEF	RGY COMPANY				5762 '	
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County	
I	16	30N	11W		1457	SOUTH	1086	EAST SAN JUAN			
	¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County	
¹² Dedicated Acres	_	/			¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.				
320.00	E,	/2 - Sec	tion :	16							

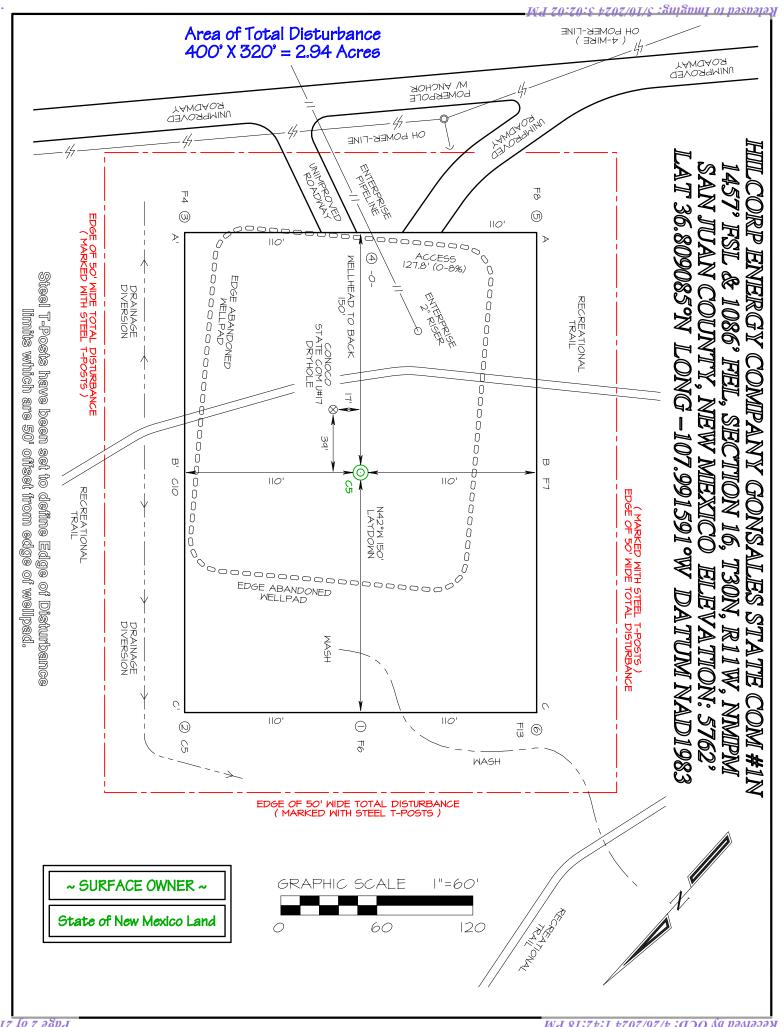
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



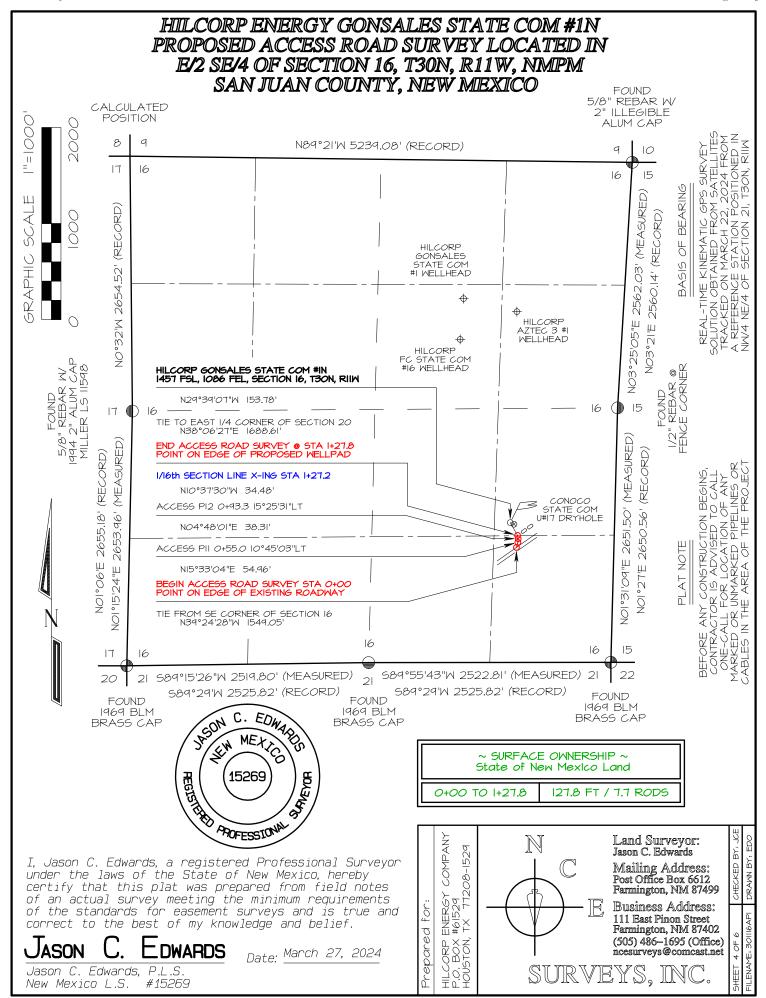
¹⁷ OPERATOR CERTIFICATION "OPERATOR CERTIFICATION
I hereby certify that the information contained
herein is true and complete to the best of my
knowledge and belief, and that this organization
either owns a working interest or unleased
mineral interest in the land including the
proposed bottom-hole location or has a right
to drill this well at this location pursuant
to a contract with an owner of such a mineral
or working interest, or to a voluntary pooling
agreement on a compulsory pooling order
heretoffe entered by the division. Wateler 4/26/2024 Signature Amanda Walker Printed Name mawalker@hilcorp.com E-mail Address ¹⁸ Surveyor certification I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date Revised: MARCH 27, 2024 Date of Survey: MARCH 22 2024 Signature and Seal of Professional Surveyor EDWARDS JASON С. MEXICO KW. A POFESSION SAMEYOR DWARDS

Certificate Number

15269



HILLCORP ENERGY COMMPANY GONSALES STATE COM #IN 1457 PSL & 1086' FFEL, SECTION 16, T30N, R11W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 5762' HORIZONIAL SCALE 1"=40" CIL CIL CIL EDWARDS SUPERING, INC. IS NOTLIABLE FOR LOCATION OF UNDERGROUND DITLITIES OR FFELNES. CONTRACTS SUPUL CONTROL NOTLIABLE FOR LOCATION OF UNDERGROUND DITLITIES OR FFELNES. CONTRACTS SUPUL CONTROL NOTLIABLE FOR LOCATION OF UNDERGROUND DITLITIES OR FFELNES. CONTRACTS SUPUL CONTROL NOTLIABLE FOR LOCATION OF UNDERGROUND DITLITIES OR FFELNES. CONTRACTS SUPUL CONTROL NOTLIABLE FOR LOCATION OF UNDERGROUND DITLITIES OR FFELNES. CONTRACTS SUPUL CONTROL TO AND AN LEAST TWO WORKING DAYS FROM TO CONSTRUCTION.		5752	5762'	5112'	C-C'		5752'	5762'	5772'	B-B_		5752'	5762'	5772'	A-A'		
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S' FIEIL, SIECTIION 16, T30N, R11W, NIMPM NTY, NEW MIEXICO EILEVATION: 5762' 1"=40' C/L VERTICAL SCALE !"=36 C/L C/L SONT LIABLE FOR LOCATION OF UNDERGROUND UNILITIES OR PIPELINES. TO INFOCAL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND TO AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.	VARDS SURVEYING, INC ACTOR SHOULD CONTA ? PIPELINES ON WELLP?	 12	⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨					7					· · · · · · · · · · · · · · · · · · ·			ONTAL SCALE	P ENERGI FSL & 1080 UAN COUI
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	RGROUND UTILITIES OR PIPELINES. RKED OR UNMARKED UNDERGROUND) WORKING DAYS PRIOR TO CONSTRUCTION.		2													VERTICAL SCALE I"=30'	SALIES STATIE COM #1N 5, T30N, R11W, NMIPM D ELIEVATION: 5762'



HILCORP ENERGY COMPANY GONSALES STATE COM #1N 1457' FSL & 1086' FEL, SECTION 16, T3ON, RIIW, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO 0 550 RADIO TOWER 561)8 U.S. HIGHWAY #550 **NEW ACCESS 127.8'** (STATE LAND) - 5678 I STIRE UNIMPROVED iams ROADWAY 1094.5 5728 PAVED AZTEC BYPASS 2523.41 5811 5756 0 TOPO NAME : AZTEC **PRODUCING WELL** ⊗ PLUGGED & ABANDONED WELL T fo S agna Acceived by OCD: 4/26/2024 1:42:18 PM

Directions from the Intersection of State Hwy 516 & State Hwy 550

in Aztec, NM to Hilcorp Gonsales State Com #1N

1457' FSL & 1086' FEL, Section 16, T30N, R11W, N.M.P.M., San Juan County, NM

Latitude: 36.809085°N Longitude: -107.991591°W Datum: NAD1983

From the intersection of State Hwy 516 & State Hwy 550 in Aztec, NM, travel Southerly on State Hwy 550 for 1.5 miles to Mile Marker 158.5 to Paved Aztec Bypass;

Go Left (Easterly) exiting State Hwy 550 onto Paved Aztec Bypass for 0.5 miles to fork in roadway;

Go Left (North-westerly) exiting Paved Aztec Bypass on an unimproved roadway for 0.4 miles to proposed access on left-hand side which continues for 127.8' to Hilcorp Gonsales State Com #1N staked location which overlaps an abandoned wellpad.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 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.

Santa Fe, NM 87505

ЦΑ	ME	NL	ED	RE.	PO.	RΊ

			Operator Name Hilcorp Energy 382 Road						² OGRID N 37217	1	
			382 Road Aztec, NM	3100 87410					^{3.} API Nur 1N3	nber 0-045-38344	
* Prop	erty Code			(3. Property Name Sonsales State Com	n			1N	^{o.} Well No.	
0100	300				rface Location						
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Lir	ie	Feet From	E/W Line	e County	
I	16	30N	11W	<u> </u>	1457	S		1086	Е	San Juan	
UL - Lot	Section	Township	Panga	8. Propose Lot Idn	Bottom Hole Feet from	e Location N/S Lir		Feet From	E/W Line	e County	
OL - Lot	Section	Township	Range	Lot Idii	reet nom	14/5 Lii	ic	reet From	E/W Line	County	
				9. Po	 ol Information	n					
					l Name	<u></u>				Pool Code	
Mesaverde/Dakota								72319/71599			
				Additiona	al Well Inform	nation					
11. Work Type 12. Well Type 13. Ci					13. Cable/Rotary R		^{14.} Le	ease Type S	15	Ground Level Elevation 5762'	
	Iultiple Y		17. Proposed Depth 6765'		^{18.} Formation 6765'	n ^{19.} Contractor				^{20.} Spud Date 2024/2025	
epth to Gro	und water		Dista	nce from nearest	fresh water well		face water				
We will be	using a clo	osed-loop sy	ystem in lieu of l	ined pits							
			21.	Proposed Cas	sing and Ceme			Sacks of (Cement	Estimated TOC	
We will be	Hol	e Size		_	eight/ft	ent Program Setting De		Sacks of 0		Estimated TOC Surf	
	Hole	e Size	^{21.} I Casing Size	Proposed Cas Casing W	eight/ft 0 STC	Setting De			X		
	Hole 12 8	e Size	Casing Size 9 5/8"	Casing W 32.3#/H4	eight/ft 0 STC	Setting De 200'		90 s	x) sx tail	Surf	
	Hole 12 8	e Size 1/4" 3/4"	21. I Casing Size 9 5/8" 7" 4 1/2"	Casing W 32.3#/H4 20# / J55	eight/ft 0 STC	Setting De 200' 2775' 6765'	pth	90 s 251 sx/70	x) sx tail	Surf Surf	
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	Hole 12 8	e Size 1/4" 3/4"	21. I Casing Size 9 5/8" 7" 4 1/2" Casing	Casing W 32.3#/H4 20# / J55 11.6#/J5:	Geight/ft 0 STC 5 STC	200° 2775° 6765° onal Comm	nents	90 s 251 sx/70	x) sx tail	Surf	
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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

gy Company	y	0	GRID: <u>3</u>	372171	Date: <u>4/26/2024</u>				
mendment (due to □ 19.15.27	'.9.D(6)(a) NMA	.C □ 19.15	.27.9.D(6)(b) N	IMAC □ Other.				
				r set of wells pr	oposed to be dril	led or proposed to			
API	ULSTR	Footages		Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D			
	I, 16,30N,11W	1457' FSL & 10	086' FEL	3.25	1200	11			
Provide the	following informa	tion for each nev	al delivery	point.		. , . ,			
	2024-2025					2024-2025			
Gonsales State Com 1N 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.									
	API Provide the from a sing API API API API Provide the from a sing API API API API API API API API	API ULSTR I, 16,30N,11W I Name: Chaco-Blanco Provide the following informat from a single well pad or core API Spud Date 2024-2025 Attach a complete description of the complete description of the complete description.	mendment due to □ 19.15.27.9.D(6)(a) NMA llowing information for each new or recomplete well pad or connected to a central delivery part of the well pad or connected to a central delivery part of the well pad or connected to a central delivery part of the well pad or connected to a central delivery part of the well pad or connected to a central delivery pad or conn	Illowing information for each new or recompleted well or e well pad or connected to a central delivery point. API ULSTR Footages I, 16,30N,11W 1457' FSL & 1086' FEL Name: Chaco-Blanco Processing Plant Provide the following information for each new or recomfrom a single well pad or connected to a central delivery API Spud Date TD Reached Compate Commercial Compate Commercial Co	mendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) N Blowing information for each new or recompleted well or set of wells pre well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D I, 16,30N,11W 1457' FSL & 1086' FEL 3.25 Name: Chaco-Blanco Processing Plant Provide the following information for each new or recompleted well or set from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement Date 2024-2025 Attach a complete description of how Operator will size separation S: ☒ Attach a complete description of the actions Operator will take to 19.15.27.8 NMAC. Practices: ☒ Attach a complete description of Operator's best manager	mendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other. Blowing information for each new or recompleted well or set of wells proposed to be drile ewell pad or connected to a central delivery point. API ULSTR Footages Anticipated Gas MCF/D I, 16,30N,11W 1457' FSL & 1086' FEL 3.25 1200 AName: Chaco-Blanco Processing Plant [See 19.15.27] Provide the following information for each new or recompleted well or set of wells proposition a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Initial Flow Back Date Date Commencement Date Back Date 2024-2025 E Attach a complete description of how Operator will size separation equipment to opt s: ☒ Attach a complete description of the actions Operator will take to comply with the 19.15.27.8 NMAC. Practices: ☒ Attach a complete description of Operator's best management practices to			

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

XI. Map. \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	☐ will ☐ will not have	capacity to gather	100% of the an	ticipated natura	ıl gas
production volume from the well	prior to the date of first	production.				

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

П	Attach (Operator	's nlan to	manage	production	in response	to the increas	ed line pressur	_
ш	Attach	Oberator	S Dian u) IIIanaye	DIOGUCHOH	THE LESDOUSE	TO THE INCIDAS	ea mie biessui	С.

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information	tion 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 spe	cific information
for which confidentiality is asserted and the basis for such assertion.	

(i)

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.

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: (a) power generation on lease; **(b)** power generation for grid; (c) compression on lease; (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)

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

- (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
- (b) 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:
Printed Name: Amanda Walker
Title: Operations Regulatory Tech Sr.
E-mail Address: mwalker@hilcorp.com
Date: 4/26/2024
Phone: 346-237-2177
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.
- 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.



Technical Drilling Plan (Rev. 0)

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

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

1. Location

Date:	April 8, 2024	Pool:	MV/DK
Well Name:	Gonsales State Com #1N	Ground Elevation	5,762'
Surface Hole Location:	36.8088714° N, -107.9916657° W	County, State:	San Juan County, NM
Production Depth (ft.)	6,765' MD / 6,765' TVD	Production BHL:	36.8088714° N, -107.9916657° W

Note: All depths in the directional drilling plan are referenced from an estimated RKB datum of 17' above ground level.

2. Geological Markers

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

Formation	Depth (ft. TVD)	Remarks
Ojo Alamo	715′	Water (fresh/useable)
Kirtland	845′	None
Fruitland	1,530′	Gas, Water
Pictured Cliffs	2,160′	Gas
Lewis	2,275′	None
Huerfanito Bentonite	2,898′	None
Chacra	3,161′	None
Upper Cliff House	3,730′	Gas
Massive Cliff House	3,900′	Gas, Water
Menefee	3,950′	None
Pt. Lookout	4,475′	Gas
Mancos	4,799′	Gas
Upper Gallup	5,711′	Gas
Greenhorn	6,465'	Gas
Graneros	6,514'	Gas
Two Wells	6,570′	Gas
Paguate	6,642'	Gas
Upper Cubero	6,721'	Gas
Lower Cubero	6,745′	Gas
Encinal	6,765'	None

3. Pressure Control Equipment

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

- BOP equipment will be nippled up on top of the wellhead after surface casing is set and cemented.
- Pressure control configurations will be designed to meet the minimum 3M standards.
- All equipment will have a minimum of 3M pressure rating and will be rated for 7,000' (TVD).
- A rotating head will be installed on top of the annular as seen in the attached diagram.



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

4. Casing & Cement Program

A. Proposed Casing Program:

Proposed Casing Design								
Casing String	Hole Size	Casing Size	Weight/Grade		Top Depth (MD/TVD)	•		
Surface	12-1/4"	9-5/8"	32.3# H40 (or 6	equiv.) STC	0'	200' / 200'		
Intermediate	8-3/4"	7"	20# J55 (or equ	ıiv.) STC	0'	2,775' / 2,775'		
Production Casing	6-1/4"	4-1/2"	11.6# J55 (or equiv.) LTC		0'	6,765' / 6,765'		
		Proposed Cas	ing Design Safet	ty Factors				
Casing String	Casing	Description	Burst Design SF	Collapse Design SF	Joint Tensile Design SF	Connection Tensile Design SF		
Surface	9-5/8" 3	2.3# H40 STC	24.3	18.6	56.5	39.3		
Intermediate	7" 20# J5	7" 20# J55 STC		1.6	5.7	4.2		
Production	4-1/2" 1	1.6# J55 LTC	1.4	1.6	2.3	2.1		

Notes:

- The 6-1/4" hole will be drilled to the top of the Encinal formation and TD will be called onsite by mud loggers.
- Production casing will be run from surface to TD.
- If the 6-1/4" hole is not drilled to the total planned measured depth, the production casing setting depth and length will be adjusted accordingly.
- Casing Design Parameters Designed for full evacuation. Mud Weights used for calculations: Surface = 9.0 ppg, Intermediate = 11.5 ppg, Production = 11.0 ppg. Burst: 1.15; Collapse: 1.125; Tensile: 1.6.
 - Burst: (Casing Burst Rating) / (Maximum Burst Load (Max MW x TVD x .052))
 - Collapse: (Full hydrostatic of MW in annulus) (Hydrostatic of vacated casing, 0.1 psi/ft)
 - Tensile: (Tensile rating) / (measured depth x casing weight)

B. Proposed Centralizer Program:

Proposed Centralizer Program				
Interval Centralizers & Placement				
Surface	1 centralizer per joint on bottom 3 joints.			
	1 centralizer 10' above the shoe with lock collar.			
Intermediate	1 centralizer every other joint on bottom 10 joints.			
	1 centralizer every 4 th joint to Ojo Alamo base.			

San Juan County, NM

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	1 Turbolizer at base of Ojo Alamo.
	1 centralizer every joint to Ojo Alamo top.
	1 Turbolizer placed midway through Ojo Alamo.
	1 centralizer every 4 th joint from top of Ojo Alamo to surface shoe.
	1 centralizer inside the surface casing.
Due desertion (Air Duille d)	1 centralizer 10' above the shoe with a lock collar.
Production (Air Drilled)	1 centralizer every other joint on bottom 10 joints.

C. Proposed Cement Program:

Proposed Cement Design							
Interval	Depth (ft. MD)	Lead/Tail	Volume (ft³) Slurry		Density	Planned TOC	
Surface	200′	Lead	Type III Cement 125 ft ³ 90 0.25% FL-52, 0.25 pps celloflake 1.25 ft ³ /sk – 5.75 gal/sk		15.2 ppg	Surface	
Intermediate	2,775'	Lead	534 ft ³	251	Premium Lite 3% CaCl, 0.25 pps celloflake, 5 ppm LCM-1, 0.4% FL-52, 8% bentonite, 0.4% SMS 2.13 ft ³ /sk – 11.29 gal/sk	12.1 ppg	Surface
		Tail	120 ft ³	70	Type III Cement 1% CaCl, 0.25 pps celloflake, 0.2% FL-52 1.38ft ³ /sk – 6.64 gal/sk	14.6 ppg	2,275′
Production	6,765'	Lead	671 ft ³	466	50/50 POZ: Class G cement + 0.25 lb/sx D029 Cellophane Flakes + 3% D020 Bentonite + 1.0 lb/sx D024 Gilsonite Extender + 0.25% D167 Fluid Loss + 0.25% D065 Dispersant + 0.1% D800 Retarder + 0.1% D046 Antifoamer + 3.5 lb/sx Phenoseal 1.44ft³/sk - 6.47 gal/sk	13.0 ppg	2,675′

Notes:

- The cement slurry additives may be adjusted to accommodate required pump and compressive test times.
- For the intermediate hole section, a 2-stage cement job may be performed if hole conditions dictate. If needed, the stage tool will be placed at an approximate depth near the top of the Fruitland Coal (2,619' TVD)
- Cement will be circulated to surface on surface and intermediate casing sections to protect water bearing zones.
- A minimum of 8 hours of wait on cement time will be observed on each hole section to allow adequate time for cement to achieve a minimum of 500 psi of compressive strength. The BOP will not be nippled down, the wellhead will not be installed, the casing will not be tested and the prior casing shoe will not be drilled out until adequate wait on cement time has been observed (8 hours or time to reach 500 psi compressive strength).



5. Drilling Fluids Program

A. Proposed Drilling Fluids Program:

Interval	Fluid Type	Density	Fluid Loss	Max Chlorides	Depth
		(ppg)	(mL/30 min)	(mg/L)	(ft. MD)
Surface	Water/Gel	8.4 – 9.2	NC	1,000	0' – 200'
Intermediate	LSND / Gel System	8.4 – 9.2	6-16	1,000	200' – 2,775'
Production	Air/mist/N2	1.0	NC	N/A	2,775' – 6,765'

Notes:

- The following equipment will be operational while gas/mist drilling:
 - An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
 - o The blooie line will be equipped with an automatic igniter or pilot light.
 - o Deduster equipment will be utilized.
 - The rotating head will be properly lubricated and maintained.
 - o A float valve will be utilized above the bit.
 - Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.
- Lost circulation material may be added to the mud systems to manage fluid losses as hole conditions dictate.
- The well will be drilled utilizing a closed-loop circulating system. Drill cuttings will be transported to an approved disposal site.
- Estimated total volume of drill cuttings for disposal: 372 bbls (2,087 ft³).

6. Estimated Pressures & Drilling Hazards

A. Estimated Pressures

- The Mesa Verde and/or Dakota formations will be completed and commingled if both formations are completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

o Fruitland Coal 400 psi

Pictured Cliffs 850 psi

Mesa Verde 650 psi

o Dakota 2200 psi

B. Water Flows

Water flows are possible in the intermediate section. Water flows will be mitigated with increased mud weight.

C. Lost Circulation

Gonsales State Com #1M



- Lost circulation is possible in the coal section. Losses will be mitigated by adding LCM to the mud system.
- Sufficient LCM will be added to the mud system to maintain well control if lost circulation is encountered.

D. Hydrogen Sulfide

No hydrogen sulfide is expected to be encountered based on nearby well production.

7. Testing, Logging, Coring

A. Mud Logging

• Mud loggers will collect formation samples every 30' from the Intermediate casing shoe to the TD of production hole section.

B. MWD

 Measurement while drilling tools will be utilized from the surface casing shoe tothe TD of the production section to measure and record inclination.

C. LWD

No logging while drilling tools will be utilized.

D. Open Hole Logging

There are no planned open hole logs post drilling.

E. Coring

• There is no coring or formation testing planned.

F. Cased Hole Logging

• The 7" intermediate casing will be cemented to surface to protect water bearing zones. If cement is not circulated to surface on the intermediate cement job, a temperature survey or a cement bod log will be run to verify top of cement.

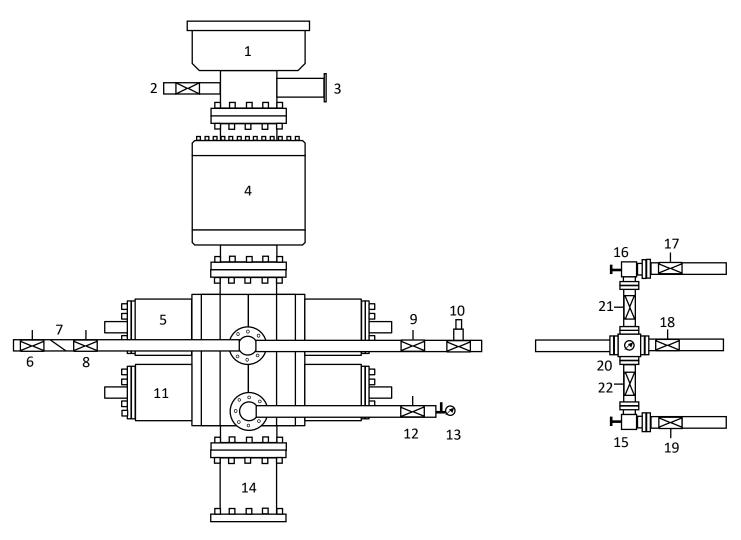
8. Directional Drilling Plan

This well is planned as vertical. Surveys will be monitored to ensure wellbore path.



Appendix A

Pressure Control Equipment Configuration



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

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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**

CONDITIONS

Action 338081

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	338081
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	5/10/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	5/10/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	5/10/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	5/10/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	5/10/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	5/10/2024
ward.rikala	Down-hole Commingle approval is required before this well can be placed on production.	5/10/2024