STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION FOR DOWNHOLE COMMINGLING SUBMITTED BY HILCORP ENERGY COMPANY

ORDER NO. DHC-5457

ORDER

The Director of the New Mexico Oil Conservation Division ("OCD"), having considered the application and the recommendation of the Engineering Bureau, issues the following Order.

FINDINGS OF FACT

- 1. Hilcorp Energy Company ("Applicant") submitted a complete application ("Application") to downhole commingle the pools described in Exhibit A ("the Pools") within the well bore of the well identified in Exhibit A ("the Well").
- 2. Applicant proposed a method to allocate the oil and gas production from the Well to each of the Pools that is satisfactory to the OCD and protective of correlative rights.
- 3. Applicant has certified that all produced fluids from all the Pools are compatible with each other.
- 4. Applicant has certified that downhole commingling the Pools will not decrease the value of the oil and gas production.
- 5. An exception to the notification requirements within 19.15.12.11(C)(1)(b) NMAC was granted by the Division within Order R 11187.
- 6. Applicant provided notice of the Application to the Bureau of Land Management ("BLM") or New Mexico State Land Office ("NMSLO"), as applicable.

CONCLUSIONS OF LAW

- 7. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-6, 70-2-11, 70-2-12, 70-2-16, 70-2-17, and 19.15.12 NMAC.
- 8. The downhole commingling of the Pools is common, or Applicant has provided evidence that the fluids are compatible and will not damage the Pools in accordance with 19.15.12.11(A)(1) NMAC.
- 9. The bottom perforation of the lower zone is within one hundred fifty percent (150%) of the depth of the top perforation in the upper zone or Applicant has provided evidence that the proposed commingling of the Pools shall not result in shut-in or flowing well bore pressure in excess of the commingled pool's fracture parting pressure in accordance with 19.15.12.11(A)(3) NMAC.

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- 10. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.11(A)(8) NMAC.
- 11. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

ORDER

- 1. Applicant is authorized to downhole commingle the Pools described in Exhibit A within the well bore of the well identified in Exhibit A.
- 2. Applicant shall allocate a fixed percentage of the oil production from the Well to each of the Pools until a different plan to allocate oil production is approved by OCD. Of the oil production from the Well:
 - a. four percent (4%) shall be allocated to the Basin Fruitland Coal pool (pool ID: 71629); and
 - b. ninety six percent (96%) shall be allocated to the Blanco Mesaverde pool (pool ID: 72319).

Applicant shall allocate gas production to the new pool(s) equal to the total gas production from the Well minus the projected gas production from the current pool(s) until a different plan to allocate gas production is approved by OCD. The new pool(s) are:

a. the Basin Fruitland Coal pool (pool ID: 71629)

The current pool(s) are:

a. the Blanco Mesaverde pool (pool ID: 72319)

Applicant shall calculate the oil and gas production average during the fourth year after the commencement of commingling, which shall be used to establish a fixed percentage of the total oil and gas production that shall be allocated to each of the Pools ("fixed percentage allocation plan"). No later than ninety (90) days after the fourth year, Applicant shall submit a Form C-103 to the OCD Engineering Bureau that includes the fixed percentage allocation plan and all data used to determine it. If Applicant fails to do so, this Order shall terminate on the following day. If OCD denies the fixed percentage allocation plan, this Order shall terminate on the date of such action. If OCD approves the percentage allocation plan with or without modifications, then the approved percentage allocation plan shall be used to determine oil and gas allocation starting on the date of such action until the Well is plugged and abandoned.

3. If an alteration is made to the Well or a condition within the Well changes which may cause the allocation of production to the Pools as approved within this Order to become inaccurate, then no later than sixty (60) days after that event, Applicant shall submit Form C-103 to the OCD Engineering Bureau describing the event and include a revised allocation plan. If OCD denies the revised allocation plan, this Order shall terminate on the date of such action.

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- 4. If any of the pools being commingled is prorated, or the Well's production has been restricted by an OCD order in any manner, the allocated production from each producing pool in the commingled well bore shall not exceed the top oil or gas allowable rate for a well in that pool or rate restriction applicable to the well.
- 5. If the Well is deepened, then no later than forty-five (45) days after the Well is deepened, Applicant shall conduct and provide logs to OCD that are sufficient for OCD to determine which pool(s) each new completed interval of the Well will produce from.
- 6. If the downhole commingling of the Pools reduces the value of the oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred Applicant shall submit a new downhole commingling application to OCD to amend this Order to remove the pool that caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.
- 7. If a completed interval of the Well is altered from what is submitted within the Application as identified in Exhibit A, then no later than sixty (60) days after the alteration, Applicant shall submit Form C-103 to the OCD Engineering Bureau detailing the alteration and completed interval.
- 8. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).
- 9. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

GERASIMOS RAZATOS DIRECTOR (ACTING) **DATE:** 2/19/2025

Order No. DHC-5457 Page **3** of **3**

State of New Mexico Energy, Minerals and Natural Resources Department

Exhibit A

Order: DHC - 5457

Operator: Hilcorp Operating Company
Well Name: San Juan 29 6 Unit Well No. 24A

Well API: 30-039-21252

Pool Name: Basin Fruitland Coal

Upper Zone Pool ID: 71629 Current: New: X
Allocation: Subtraction Oil: 4.0% Gas: SUBT

Top: 2,934 Bottom: 3,229

Pool Name:

Intermediate Zone Pool ID: Current: New: Allocation: Oil: Gas:

Top: Bottom:

Bottom of Interval within 150% of Upper Zone's Top of Interval:

Pool Name: Blanco-Mesaverde

Lower Zone Pool ID: 72319 Current: X New:

Allocation: Oil: 96.0% Gas: CURVE

Top: 4,010 Bottom: 5,363

Bottom of Interval within 150% of Upper Zone's Top of Interval: NO

Top of Queen Formation:

ID NO. 368893	DHC - 5457
1D 110. 3000/3	

ID 110. 300073		C 1 C .	
RECEIVED: 07/31/24	REVIEWER:	TYPE:	APP NO: pLEL2504361714

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Geological & Engineering Bureau – 1220 South St. Francis Drive, Santa Fe, NM 87505



	COMPENATOR OFF
	PLICATION CHECKLIST
THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATI' REGULATIONS WHICH REQUIRE PROCESS	ve applications for exceptions to division rules and ing at the division level in Santa Fe
Applicant: Hilcorp Energy Company	OGRID Number: 372171
Well Name: San Juan 29-6 Unit 24A	API: 30-039-21252
Pool: Basin Fruitland Coal / Blanco Mesaverde	Pool Code: 71629, 72319
	N REQUIRED TO PROCESS THE TYPE OF APPLICATION ED BELOW
1) TYPE OF APPLICATION: Check those which app A. Location – Spacing Unit – Simultaneous De NSL NSP(PROJECT AREA)	
B. Check one only for [1] or [1] [1] Commingling – Storage – Measuremer DHC CTB PLC PC [11] Injection – Disposal – Pressure Increase WFX PMX SWD IPI	OLS OLM
2) NOTIFICATION REQUIRED TO: Check those which A. Offset operators or lease holders B. Royalty, overriding royalty owners, revection of the Application requires published notice D. Notification and/or concurrent approved E. Notification and/or concurrent approved F. Surface owner G. For all of the above, proof of notification the Notice required	h apply. Notice Complete Application Content Complete Application Content Complete
3) CERTIFICATION: I hereby certify that the informal administrative approval is accurate and compl understand that no action will be taken on this notifications are submitted to the Division.	ete to the best of my knowledge. I also
Note: Statement must be completed by an indiv	vidual with managerial and/or supervisory capacity.
	7/31/2024
Cherylene Weston	Date
Print or Type Name	713-289-2614 Phone Number
Cherylene Weston	cweston@hilcorp.com
Signature	e-mail Address

<u>District I</u> 1625 N. French Drive, Hobbs, NM 88240

District II
R11 S. First St., Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

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

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107A Revised August 1, 2011

APPLICATION TYPE

Single Well

Establish Pre-Approved Pools EXISTING WELLBORE

_X_Yes ___No

Hilcorp Energy Compai	ny	382 Road 3100, Azted	, NM 87410			
Operator		Address				
SAN JUAN 29-6 UNIT	24A	O-21-T29N-R06W		RI	O ARRIBA, N	M
Lease	Well No.	Unit Letter-Section-Township	-Range		County	
OGRID No. 372171	Property Code 318838	API No. 30-039-21252	Lease Type:	X Federal	State	Fee

DATA ELEMENT	UPPER	ZONE		INTER	RMEDIATE	ZONE	-	LOWER ZONE	
Pool Name	Fruitland (Coal					E	Blanco Mesaverde	
Pool Code	71629)						72319	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2934' - 3.	229'						4010' - 5363'	
Method of Production (Flowing or Artificial Lift)	Artificial	Lift						Artificial Lift	
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	446 ps	si						290 psi	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	878 BT	U						1217 BTU	
Producing, Shut-In or New Zone	New Zo	one						Producing	
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date:			Date:			Date: Rates:	5/1/2024 Oil - 4 bbl Gas - 1,833 mcf Water - 8 bbl	
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil %	Gas	%	Oil	Gas	%	Oil	Gas %	%

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	YesYes	No_X No_X
Are all produced fluids from all commingled zones compatible with each other?	YesX	No
Will commingling decrease the value of production?	Yes	No_X
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	YesX	No

(excluding SLO/BLM, where applicable.

NMOCD Reference Case No. applicable to this well: Per Order R-11187, Hilcorp is exempt from providing notice to owners

Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication.

Production curve for each zone for at least one year. (If not available, attach explanation.)

For zones with no production history, estimated production rates and supporting data.

Data to support allocation method or formula.

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.

Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge
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3	
SIGNATURE Cherylene Weston	TITLE Operations/Regulatory Tech-Sr. DATE 7/31/2024
•	740
TYPE OR PRINT NAME Cherylene Weston	TELEPHONE NO. (<u>713</u>) 289-2615
E-MAIL ADDRESS cweston@hilcorp.com	

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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico **Energy, Minerals and Natural** Resources Oil Conservation Division 1220 S. St Francis Dr.

Form C-102 August 1, 2011

Permit 367965

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, NM 87505

1. API Number 30-039-21252	2. Pool Code 71629	3. Pool Name BASIN FRUITLAND COAL (GAS)
4. Property Code 318838	5. Property Name SAN JUAN 29 6 UNIT	6. Well No. 024A
7. OGRID No. 372171	8. Operator Name HILCORP ENERGY COMPANY	9. Elevation 6315

10. Surface Location

UL - Lot	Section		Township	Range		Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	이	21	29	۷l	06W		1165		1775	E	RIO
											ARRIBA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated A			13. Joint or Infill		14. Consolidatio	n Code		15. Order No.	

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

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(s) 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 or a compulsory pooling order heretofore entered by the division.

E-Signed By: Cherylene Weston Title: Operations/Řegulatory Tech-Sr.

Date: 6/26/2024

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.

Fred B. Kerr, Jr. Surveyed By: 5/13/1976 Date of Survey: Certificate Number:

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

		All distances must be	from the outer boundars	es of the section.		
Northwest	Pipeline Con	rporation	San Juan 29	-6 Unit		Well No.
Unit Letter	Section	Township.	Hange	County		
0	21	29N	6W	Rio A	rriba	
Actual Footage Loc			7 974		Salanda III	
Ground Level Elev.	feet from the Se		1775 [Pool	feet from the	W V V	ine ed Acreøge;
631 5	Mesa 1		Blanco		320	
		ated to the subject was dedicated to the we				
interest ar 3. If more tha	nd royalty). an one lease of	different ownership is unitization, force-pool	dedicated to the w			
Yes	No If	answer is "yes;" type	of consolidation _			
this form i No allowat	f necessary.) ole will be assig	e owners and tract des ned to the well until a e) or until a non-standa	ll interests have be	en consolidated	(by communitiz	ation, unitization,
	ī				CERTI	FICATION
	 		 ⊙2l		tained herein is to best of my knowle Name	Paronalli
	/ Kram .	976 _{Sed}	I I I SF 080379-A	8	D.H. Maror Position Production Company Northwest Date May 17, 19	Pipeline Corp.
	ON CON.	COM. 21	 4A		shown on this pla notes of actual s under my supervis	that the well location was plotted from field curveys made by me or sion, and that the same set to the best of my lief.
			0 1775		Date Surveyed May 13, 197 Registered Profession of Land Survey Fred B. Ker Certificate No.	
Released to Imag	ing: 2/19/2025 1	1834.338° 426.40 20	00 1500 1000	500 0	3950	111111111111111111111111111111111111111

The near wellbore shut-in bottom hole pressures of the above reservoirs are much lower than the calculated far-field stabilized reservoir pressured due to the low permeability of the reservoirs. Based on pressure transient analysis performed in the San Juan Basin, it would take 7-25 years for shut-in bottom hole pressures to build up to the calculated far-field reservoir pressure. Our observation is that even for areas of high static reservoir pressures, the low permeability of the reservoir rock results in rapid depletion of the near-fracture region, quickly enough that the wells are unable to produce without the aid of a plunger. Given low permeabilities and low wellbore flowing pressures in the above reservoirs, loss of reserves due to cross-flow is not an issue during producing or shut-in periods. Given low shut-in bottom hole pressures, commingling the above reservoirs in this well will not result in shut-in or flowing wellbore pressures in excess of any commingled pool's fracture parting pressure. The pressures provided in the C-107A are based on shut-in bottom hole pressures of offset standalone wells which match expected near-wellbore shut-in bottom hole pressures of this proposed commingled completion.

Note: BTU Data taken from standalone completions in the zone of interest within a 2 mile radius of the well.

A farther radius is used if there is not enough data for a proper statistical analysis.

San Juan 29-6 Unit 24A Production Allocation

These zones are proposed to be commingled because the application of dual completions impedes the ability to produce the shallow zone without artificial lift and the deeper zones with reduced artificial lift efficiency. All horizons will require artificial lift due to low bottomhole pressure (BHP) and permeability.

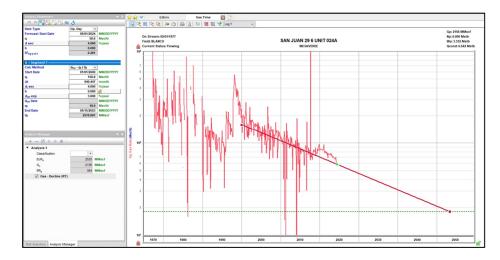
The BHPs of all zones, producing and non-producing, were estimated based upon basin wide Moving-Domain Material Balance models that have proven to approximate the pressure in the given reservoirs well in this portion of the basin, in conjunction with shut-in pressure build-ups. These models were constructed incorporating reservoir dynamics and physics, historic production, and observed pressure data. Historic commingling operations have proven reservoir fluids are compatible.

Production Allocation Method - Subtraction

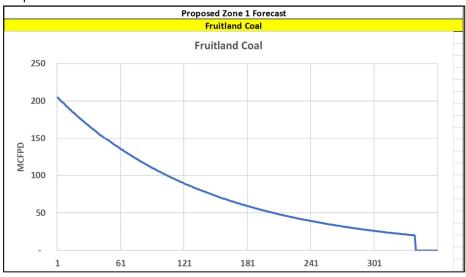
Gas Allocation:

Production for the downhole commingle will be allocated using the subtraction method in agreement with local agencies. The base formation is the Mesaverde and the added formation to be commingled is the Fruitland Coal. The subtraction method applies an average monthly production forecast to the base formations using historic production. All production from this well exceeding the base formation forecasts will be allocated to the new formation.

After 3 years production will stabilize. A production average will be gathered during the 4th year and will be utilized to create a fixed percentage-based allocation.



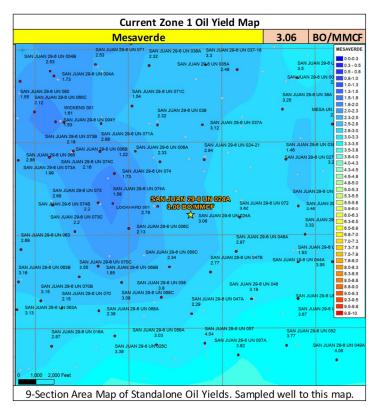
Proposed Zone Forecast

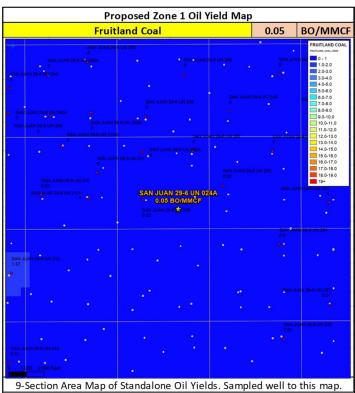


Oil Allocation:

Oil production will be allocated based on average formation yields from offset wells and will be a fixed rate for 4 years. After 4 years oil will be reevaluated and adjusted as needed based on average formation yields and new fixed gas allocation.

Formation	Yield (bbl/MM)	Remaining Reserves (MMcf)	% Oil Allocation		
MV	3.06	364	96%		
FRC	0.05	820	4%		





Supplemental Information:

Shut in pressures were calculated for operated offset standalone wells in each of the zones being commingled in the well in question via the following process:

- 1) Wells were shut in for 24 hours
- 2) Echometer was used to obtain a fluid level
- 3) Shut in BHP was calculated for the proposed commingled completion

List of wells used to calculate BHPs for the Project:

3003926081	SAN JUAN 29-7 Unit 44B	MV
3003925498	SAN JUAN 29-7 UNIT 300	FC

I believe each of the reservoirs to be continuous and in a similar state of depletion at this well and at each of the wells from which the pressures are being derived.

Water Compatibility in the San Juan Basin

- The San Juan basin has productive siliciclastic reservoirs (Pictured Cliffs, Blanco Mesaverde, Basin Mancos, Basin Dakota, etc.) and a productive coalbed methane reservoir (Basin Fruitland Coal).
- These siliciclastic and coalbed methane reservoirs are commingled extensively throughout the basin in many different combinations with no observed damage from clay swelling due to differing formation waters.
- The samples below all show fresh water with low TDS.
- Data taken from standalone completions in the zone of interest within a 2-mile radius of the well. A farther radius is used if there is not enough data for a proper statistical analysis.

PRC Offset (1.9 miles)	Well Name	API		
API				
Property		<u>, ' </u>		, '
CationBarium 0 CationBarium CationCalcium 5.8 CationCalcium CationCalcium 5.8 CationCalcium CationIron 0.72 CationIron CationMagnesium 78.67 CationMagnesium 13 CationPhosphorus 0 CationPhosphorus 23 CationPhosphorus 0 CationPhosphorus 23 CationStrontium 0 CationStrontium 21 CationSilica 0 CationSilica 277 CationAluminum 0 CationAluminum 0 CationAluminum 0 CationAluminum 0 CationAluminum 0 CationCopper 0 CationAluminum 0 CationCopper 0 CationAluminum 0 CationCopper 0 CationAluminum 0 CationCopper 0 CationAluminum 0 CationLithium 0 CationAluminum 0 CationLithium 0 CationAluminum 0	API			
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Gas Compatibility in the San Juan Basin

- The San Juan basin has productive siliciclastic reservoirs (Pictured Cliffs, Blanco Mesaverde, Basin Dakota, etc.) and a productive coalbed methane reservoir (Basin Fruitland Coal).
- These siliciclastic and coalbed methane reservoirs are commingled extensively throughout the basin in many different combinations with no observed damage from clay swelling due to differing formation waters or gas composition.
- The samples below all show offset gas analysis varibality by formation is low.

Well Name	API		
SAN JUAN 29-6 UN 024A	3003921252		
FRC Offset	(1.2 miles)	MV	Offset (0.6 miles)
AssetCode	3003925201	AssetCode	3003926186
AssetName	SAN JUAN 29-6 UNIT 249	AssetName	SAN JUAN 29-6 UNIT 47B
CO2	0.01	CO2	0.01
N2	0	N2	0
C1	0.87	C1	0.8
C2	0.06	C2	0.1
C3	0.03	C3	0.05
ISOC4	0.01	ISOC4	0.01
NC4	0.01	NC4	0.01
ISOC5	0	ISOC5	0
NC5	0	NC5	0
NEOC5	0	NEOC5	0
C6	0	C6	0.01
C6_PLUS	0	C6_PLUS	0
C7	0	C7	0
C8	0	C8	0
C9	0	C9	0
C10	0	C10	0
AR	0	AR	0
CO	0	CO	0
H2	0	H2	0
O2	0	02	0
H20	0	H20	0
H2S	0	H2S	0
HE	0	HE	0
C_O_S	0	C_O_S	0
CH3SH	0	CH3SH	0
C2H5SH	0	C2H5SH	0
CH2S3_2CH3S	0	CH2S3_2CH3S	0
CH2S	0	CH2S	0
C6HV		C6HV	0
CO2GPM	0	CO2GPM	0
N2GPM	0	N2GPM	0
C1GPM	0	C1GPM	0
C2GPM	0	C2GPM	0
C3GPM	0	C3GPM	0
ISOC4GPM	0	ISOC4GPM	0
NC4GPM	0	NC4GPM	0
ISOC5GPM		ISOC5GPM	0
NC5GPM	0	NC5GPM	0
C6_PLUSGPM	0	C6_PLUSGPM	0



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Report 07/22/2024

Well Name: SAN JUAN 29-6 UNIT Well Location: T29N / R6W / SEC 21 /

SWSE / 36.70702 / -107.46483

County or Parish/State: RIO

ARRIBA / NM

Well Number: 24A

Type of Well: CONVENTIONAL GAS

WELL

Allottee or Tribe Name:

Lease Number: NMSF080379A

Unit or CA Name: SAN JUAN 29-6

UNIT--MV

Unit or CA Number: NMNM78416A

US Well Number: 3003921252

Operator: HILCORP ENERGY

COMPANY

Notice of Intent

Sundry ID: 2801756

Type of Submission: Notice of Intent

Type of Action: Recompletion

Date Sundry Submitted: 07/18/2024

Time Sundry Submitted: 11:59

Date proposed operation will begin: 08/01/2024

Procedure Description: Hilcorp Energy Company requests permission to recomplete the subject well in the Fruitland Coal formation and downhole commingle with the existing Mesaverde formation. Please see the attached procedure, current and proposed wellbore diagram, plat and natural gas management plan. A closed loop system will be used. A pre-reclamation site visit is not needed, as the location is on Fee surface.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

San_Juan_29_6_Unit_24A_FRC_NOI_20240718115225.pdf

Well Name: SAN JUAN 29-6 UNIT Well Location: T29N / R6W / SEC 21 / County or Parish/State: RIO ARRIBA / NM

SWSE / 36.70702 / -107.46483

Well Number: 24A Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

Lease Number: NMSF080379A

Unit or CA Name: SAN JUAN 29-6 UNIT--MV

Unit or CA Number: NMNM78416A

US Well Number: 3003921252 Operator: HILCORP ENERGY

COMPANY

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CHERYLENE WESTON Signed on: JUL 18, 2024 11:53 AM

Name: HILCORP ENERGY COMPANY Title: Operations/Regulatory Tech - Sr Street Address: 1111 TRAVIS STREET

City: HOUSTON State: TX

Phone: (713) 289-2615

Email address: CWESTON@HILCORP.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742 BLM POC Email Address: krennick@blm.gov

Disposition Date: 07/18/2024 Disposition: Approved

Signature: Kenneth Rennick



HILCORP ENERGY COMPANY San Juan 29-6 Unit 24A RECOMPLETION SUNDRY

Prepared by:	Bennett Vaughn
Preparation Date:	July 1, 2024

	WELL INFORMATION								
Well Name:	San Juan 29-6 Unit 24A	State:	NM						
API#:	3003921252	County:	Rio Arriba						
Area:	13	Location:							
Route:	1306	Latitude:	36.70702						
Spud Date:	November 15, 1976	Longitude:	-107.464798						

PROJECT DESCRIPTION

Perforate, fracture, and commingle the Fruitland Coal with the existing Mesa Verde Zone

CONTACTS								
Title	Name	Office Phone #	Cell Phone #					
Engineer	Bennett Vaughn	#N/A	281-409-5066					
Area Foreman	Jeremy Brooks	#N/A	505-947-3867					
Lead	#N/A	#N/A	#N/A					
Artificial Lift Tech	#N/A	#N/A	#N/A					
Operator		NONE						



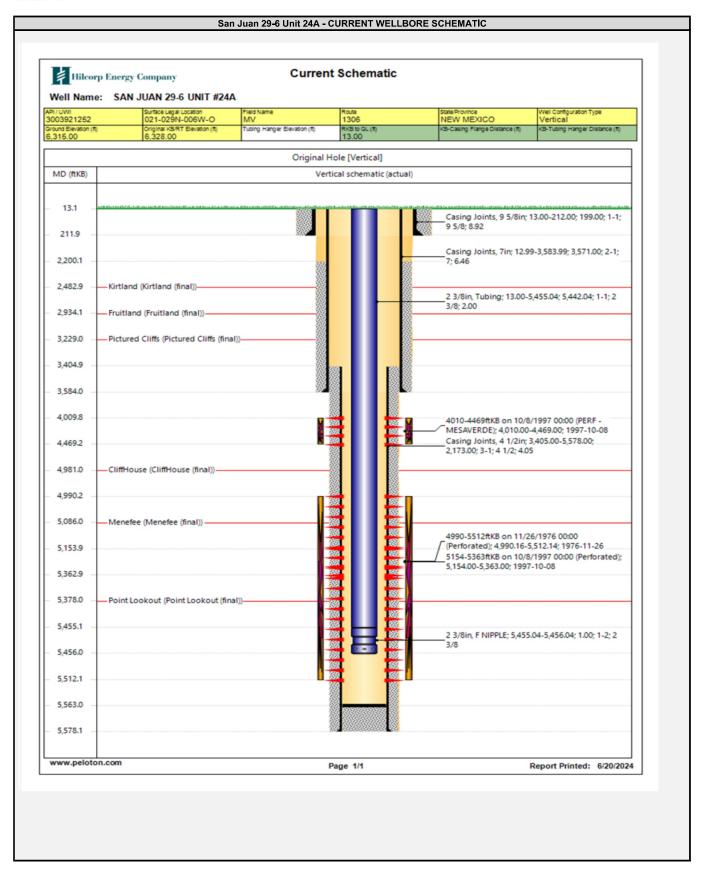
HILCORP ENERGY COMPANY San Juan 29-6 Unit 24A RECOMPLETION SUNDRY

JOB PROCEDURES

- 1. MIRU service rig and associated equipment; test BOP.
- 2. TOOH with 2-3/8" tubing set at 5,456'.
- 3. Set a 4-1/2" plug at +/- 3,985' to isolate the Mesa Verde.
- 4. RU Wireline. Run CBL. Record Top of Cement.
- 5. Load the hole and pressure test the casing.
- 6. N/D BOP, N/U frac stack and pressure test frac stack.
- 7. Perforate and frac the Fruitland Coal formations (Top Perforation @ 2,934', Bottom Perforation @ 3,229').
- 8. Nipple down frac stack, nipple up BOP and test.
- 9. TIH with a mill and drill out top isolation plug and Fruitland Coal frac plug.
- 10. Clean out to Mesa Verde isolation plug.
- 11. Drill out Mesa Verde isolation plug and cleanout to PBTD of 5,563'. TOOH.
- 12. TIH and land production tubing. Get a commingled Fruitland Coal/Mesa Verde flow rate.

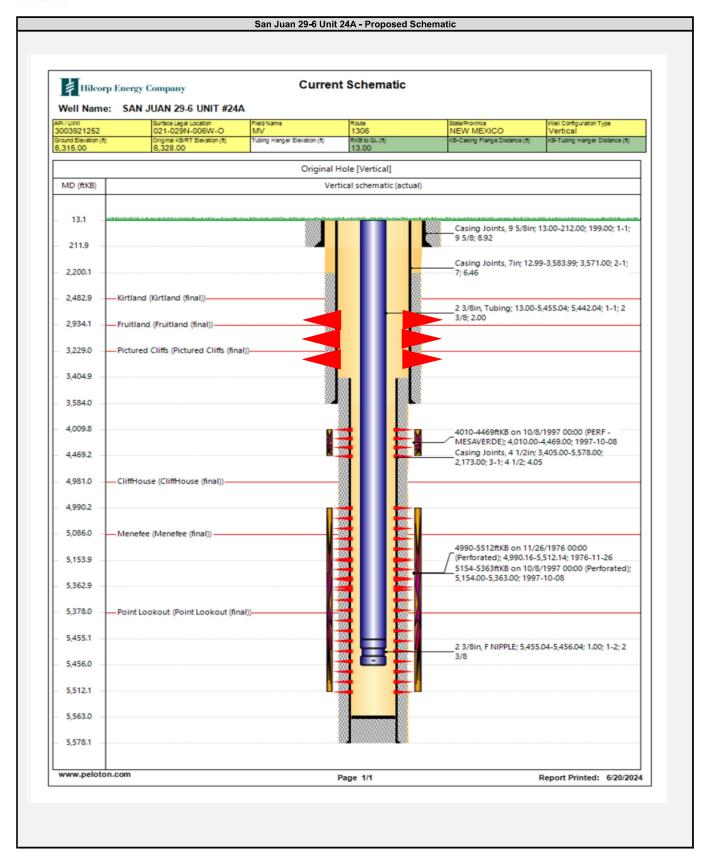


HILCORP ENERGY COMPANY San Juan 29-6 Unit 24A RECOMPLETION SUNDRY





HILCORP ENERGY COMPANY San Juan 29-6 Unit 24A RECOMPLETION SUNDRY



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

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural
Resources
Oil Conservation Division
1220 S. St Francis Dr.

Santa Fe, NM 87505

Form C-102 August 1, 2011

Permit 367965

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-039-21252	71629	BASIN FRUITLAND COAL (GAS)
4. Property Code	5. Property Name	6. Well No.
318838	SAN JUAN 29 6 UNIT	024A
7. OGRID No. 372171	8. Operator Name HILCORP ENERGY COMPANY	9. Elevation 6315

10. Surface Location

ſ	UL - Lot	Section		Township		Range		Lot Idn	Feet From	N/S Line		Feet From	E/W Line	County	
	C)	21	:	29N	()6W		1165		S	1775	E		RIO
														ARRIBA	ļ

11, Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated A 320			13. Joint or Infill		14. Consolidatio	n Code		15. Order No.	

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

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(s) 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 or a compulsory pooling order heretofore entered by the division.

E-Signed By: *Cherylene Weston*Title: Operations/Regulatory Tech-Sr.

Date: 6/26/2024

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.

Surveyed By: Fred B. Kerr, Jr.
Date of Survey: 5/13/1976
Certificate Number: 3950

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 E	nergy Compan	ı <u>y</u>	OGRID:	372171		Date:07	<u>/ /18 /2024</u>
II. Type: ⊠ Original □	☐ Amendment	due to □ 19.15.27	7.9.D(6)(a) NMAC	C □ 19.15.27.9.D	(6)(b) N	MAC □ Oth	er.
If Other, please describe	::						
III. Well(s): Provide the be recompleted from a s					wells pro	oposed to be	drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	Anticipated Produced Water BBL/D
San Juan 29-6 Unit 24A	3003921252	O-21-29N-06W	1165' FSL, 1775' FEL	0 bbl/d	215 m	cf/d	5 bbl/d
V. Anticipated Schedul proposed to be recomple Well Name					1	et of wells pr Initial Flov Back Date	v First Production
San Juan 29-6 Unit 24A	3003921252						2024
VI. Separation Equipm VII. Operational Practice Subsection A through F VIII. Best Management during active and planner	tices: Attaction of 19.15.27.8	ch a complete desc NMAC.	cription of the act	ions Operator wi	ll take to	comply with	th the requirements of

Section 2 – Enhanced Plan <u>EFFECTIVE APRIL 1, 2022</u>

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 Start Date	Available Maximum Daily Capacity 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 gath	ering system □ will □ will	not have capacity to g	gather 100% of the	anticipated natural gas
production volume from the well prior to	he 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 portion, of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s)

l Attach Operator's p	lan to manage i	production in re	enonce to the incre	eaced line preceure

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides the information provide	led 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 inform	nation
for which confidentiality is asserted and the basis for such assertion.	

(i)

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. \square 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) power generation for grid; (b) (c) compression on lease; (d) liquids removal on lease; (e) reinjection for underground storage; **(f)** reinjection for temporary storage; reinjection for enhanced oil recovery; (g) 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.

Cherylene Weston
Cherylene Weston
Operations/Regulatory Tech-Sr.
cweston@hilcorp.com
7/18/2024
713-289-2615
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
proval:

VI. Separation Equipment:

Hilcorp Energy Company (HEC or Operator) production facilities include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool of our recomplete project. HEC will utilize flowback separation equipment and production separation equipment designed and built to industry specifications after the recomplete to optimize gas capture and send gas to sales or flare based on analytical composition. HEC operates facilities that are typically one-well facilities. Production separation equipment is upgraded prior to well being completed, if determined to be undersized or inadequate. This equipment is already on-site and tied into our sales gas lines prior to the recomplete operations.

VII. Operational Practices:

- 1. Subsection (A) Venting and Flaring of Natural Gas
 - HEC understands the requirements of NMAC 19.15.27.8 which outlines that the venting and flaring of natural gas during drilling, completion or production operations that constitutes waste as defined in 19.15.2 are prohibited.
- 2. Subsection (B) Venting and Flaring during drilling operations
 - This gas capture plan isn't for a well being drilled.
- 3. Subsection (C) Venting and flaring during completion or recompletion
 - Flowlines will be routed for flowback fluids into a completion or storage tank and if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
- 4. Subsection (D) Venting and flaring during production operations
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
 - Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.
 - \circ HEC will not vent or flare except during the approved activities listed in NMAC 19.15.27.8 (D) 1- 4
- 5. Subsection (E) Performance standards
 - All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
 - If a flare is utilized during production operations it will have a continuous pilot and is located more than 100 feet from any known well or storage tanks.
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.

- 6. Subsection (F) Measurement or estimation of vented and flared natural gas
 - Measurement equipment is installed to measure the volume of natural gas flared from process piping.
 - When measurement isn't practicable, estimation of vented and flared natural gas will be completed as noted in 19.15.27.8 (F) 5-6.

VIII. Best Management Practices:

- 1. Operator has adequate storage and takeaway capacity for wells it chooses to recomplete as the flowlines at the sites are already in place and tied into a gathering system.
- 2. Operator will flare rather than vent vessel blowdown gas when technically feasible during active and/or planned maintenance to equipment on-site.
- 3. Operator combusts natural gas that would otherwise be vented or flared, when technically feasible.
- 4. Operator will shut in wells in the event of a takeaway disruption, emergency situation, or other operations where venting or flaring may occur due to equipment failures.

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 368893

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	368893
	Action Type:
	[C-107] Down Hole Commingle (C-107A)

CONDITIONS

E		Condition	Condition Date
	llowe	None	2/12/2025