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-5507**

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.

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. zero percent (0%) shall be allocated to the Basin Fruitland Coal pool (pool ID: 71629);
    b. ninety-nine & eight tenth percent (99.8%) shall be allocated to the Blanco Mesaverde pool (pool ID: 72319); and
    c. eighteen hundred percent (0.18%) shall be allocated to the Basin Dakota pool (pool ID: 71599).

    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); and
    b. the Basin Dakota pool (pool ID: 71599).

    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.

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

Albert Chang

DATE: 7/18/2025

ALBERT CHANG
DIRECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

Exhibit A

	Order:	DHC-5507			
	Operator:	Hilcorp Energy Company			
	Well Name:	SAN JUAN 29 6 UNIT WELL NO. 35F			
	Well API:	30-039-29752			
Upper Zone	Pool Name:	Basin Fruitland Coal			
	Pool ID:	71629	Current:		New: X
	Allocation:		Oil:	0.0%	Gas: SUBT
			Top:	3,137	Bottom: 3,352
Intermediate Zone	Pool Name:	Blanco Mesaverde			
	Pool ID:	72319	Current:	X	New:
	Allocation:		Oil:	99.8%	Gas: 66.0%
			Top:	4,960	Bottom: 5,690
	Bottom of Interval within 150% of Upper Zone's Top of Interval:			NO	
Lower Zone	Pool Name:	Basin Dakota			
	Pool ID:	71599	Current:	X	New:
	Allocation:		Oil:	0.18	Gas: 34.0%
			Top:	7,672	Bottom: 7,868
	Bottom of Interval within 150% of Upper Zone's Top of Interval:			NO	
	Top of Queen Formation:				

District I
1625 N. French Drive, Hobbs, NM 88240

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811 S. First St., Artesia, NM 88210

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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

Form C-107A
Revised August 1, 2011

APPLICATION TYPE
____Single Well
____Establish Pre-Approved Pools
EXISTING WELLBORE
_X_Yes ____No

APPLICATION FOR DOWNHOLE COMMINGLING

Hilcorp Energy Company — Operator
382 Road 3100, Aztec, NM 87410 — Address

SAN JUAN 29-6 UNIT — Lease
35F — Well No.
L-15-T29N-R06W — Unit Letter-Section-Township-Range
RIO ARRIBA, NM — County

OGRID No. 372171 Property Code 318838 API No. 30-039-29752 Lease Type: _X_Federal ____State ____Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Fruitland Coal	Blanco Mesaverde	Basin Dakota
Pool Code	71629	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3137' - 3352'	4960' - 5690'	7672' - 7868'
Method of Production (Flowing or Artificial Lift)	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 psi	290 psi	710 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	878 BTU	1217 BTU	1044 BTU
Producing, Shut-In or New Zone	NEW ZONE	Producing	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: Rates:	Date: 5/1/2024 Rates: Oil - 1 bbl Gas - 3,064 mcf Water - 13 bbl	Date: 5/1/2024 Rates: Oil - 0 bbl Gas - 1,578 mcf Water - 13 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? Yes_____ No_X_
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes_____ No_X_

Are all produced fluids from all commingled zones compatible with each other? Yes_X_ 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? Yes_X_ No_____

NMOCD Reference Case No. applicable to this well: Per Order R-11187, Hilcorp Energy is exempt from providing notice to owners (excluding SLO/BLM, where applicable).

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 and belief.

SIGNATURE Cherylene Weston TITLE Operations/Regulatory Tech-Sr. DATE 7/30/2024

TYPE OR PRINT NAME Cherylene Weston TELEPHONE NO. (713) 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
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811 S. First St., Artesia, NM 88210
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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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 367967

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-039-29752	71629	BASIN FRUITLAND COAL (GAS)
4. Property Code	**5. Property Name**	**6. Well No.**
318838	SAN JUAN 29 6 UNIT	035F
7. OGRID No.	**8. Operator Name**	**9. Elevation**
372171	HILCORP ENERGY COMPANY	6486

10. Surface Location

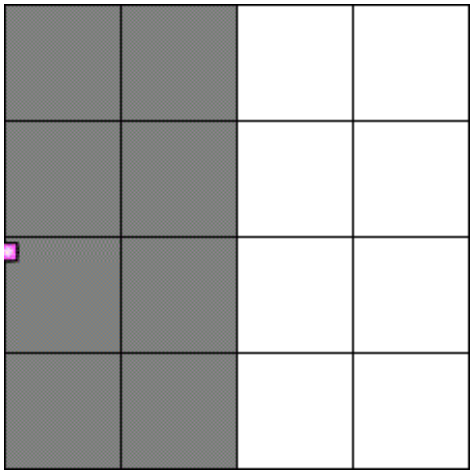
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	15	29N	06W		2485	S	25	W	RIO ARRIBA

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 Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
320.00			

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: Jason C. Edwards
Date of Survey: 9/21/2005
Certificate Number: 15269

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
August 1, 2011

Permit 370892

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-039-29752	72319	BLANCO-MESAVERDE (PRORATED GAS)
4. Property Code	**5. Property Name**	**6. Well No.**
318838	SAN JUAN 29 6 UNIT	035F
7. OGRID No.	**8. Operator Name**	**9. Elevation**
372171	HILCORP ENERGY COMPANY	6486

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	15	29N	06W		2485	S	25	W	RIO ARRIBA

11. Bottom Hole Location If Different From Surface

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12. Dedicated Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
320.00 - W/2			

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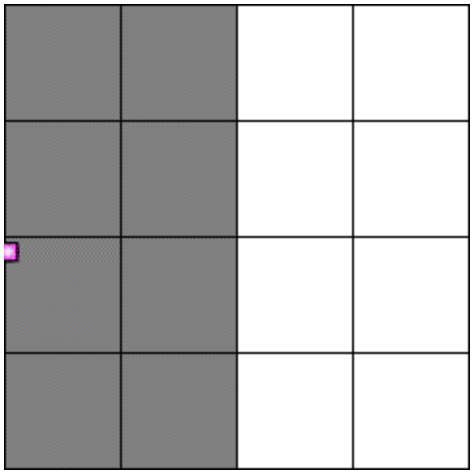

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I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole 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: 7/31/2024

SURVEYOR CERTIFICATION

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Form C-102
August 1, 2011

Permit 370892

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-039-29752	71599	BASIN DAKOTA (PRORATED GAS)
4. Property Code	**5. Property Name**	**6. Well No.**
318838	SAN JUAN 29 6 UNIT	035F
7. OGRID No.	**8. Operator Name**	**9. Elevation**
372171	HILCORP ENERGY COMPANY	6486

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
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320.00 - S/2			

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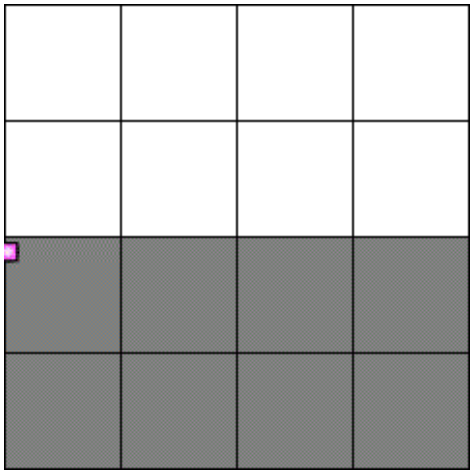


OPERATOR CERTIFICATION

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: 7/31/2024

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: Jason C. Edwards
Date of Survey: 9/21/2005
Certificate Number: 15269

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 35F 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.

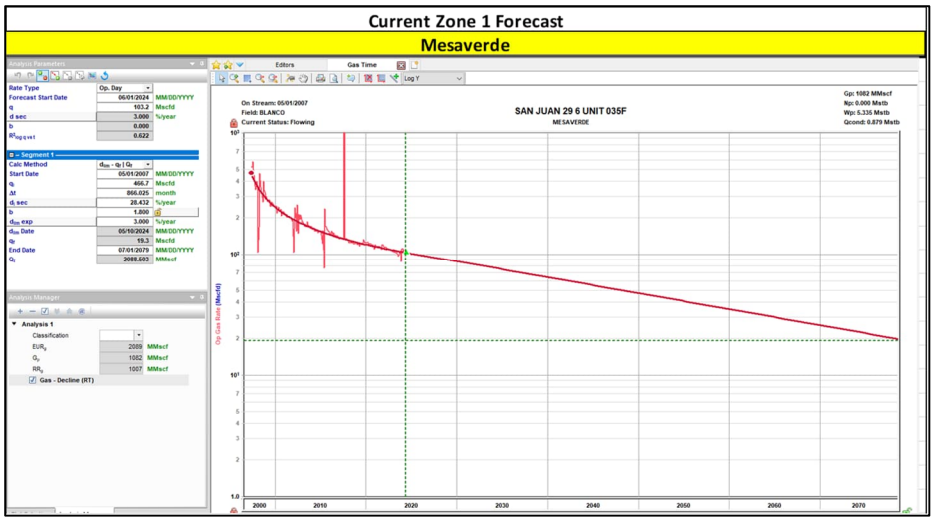
The BHPs of all zones, producing and non-producing, were estimated based upon basin wide Moving-Domain Material Balance models that have proven to approximate the pressure in the given reservoirs well in this portion of the basin, in conjunction with shut-in pressure build-ups. These models were constructed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

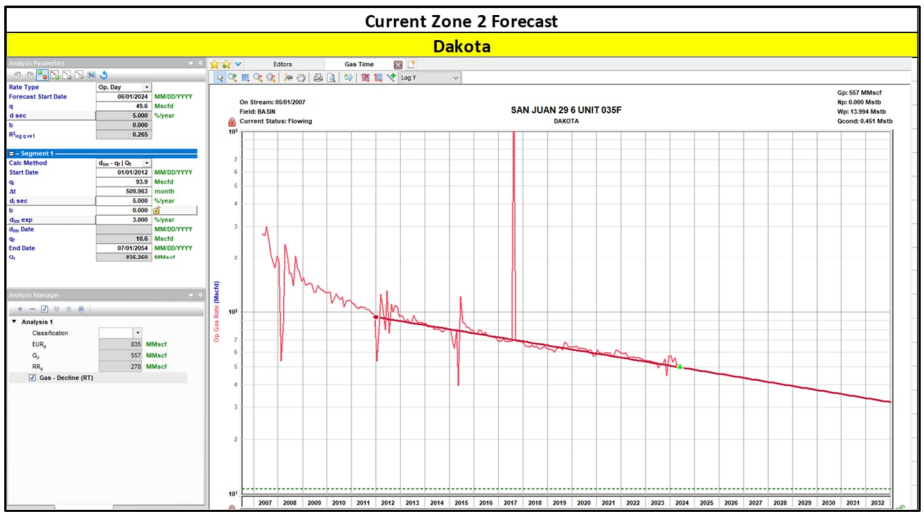
Production Allocation Method – Subtraction

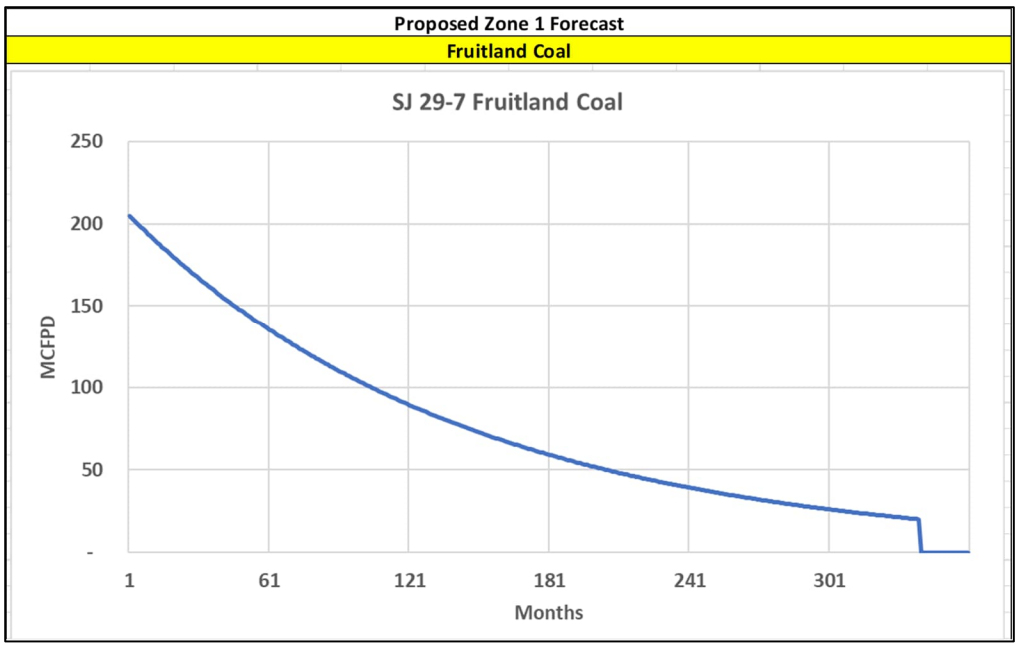
Gas Allocation:
Production for the downhole commingle will be allocated using the subtraction method in agreement with local agencies. The base formation is the Mesaverde/Dakota and the added formation to be commingled is the Fruitland Coal. The subtraction method applies an average monthly production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

Hilcorp intends to continue to allocate the projected base production on the same fixed percentages to the following pools: 66% (MV), 34% (DK), while the subtraction method is being used to determine the allocation to the new zone.

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.



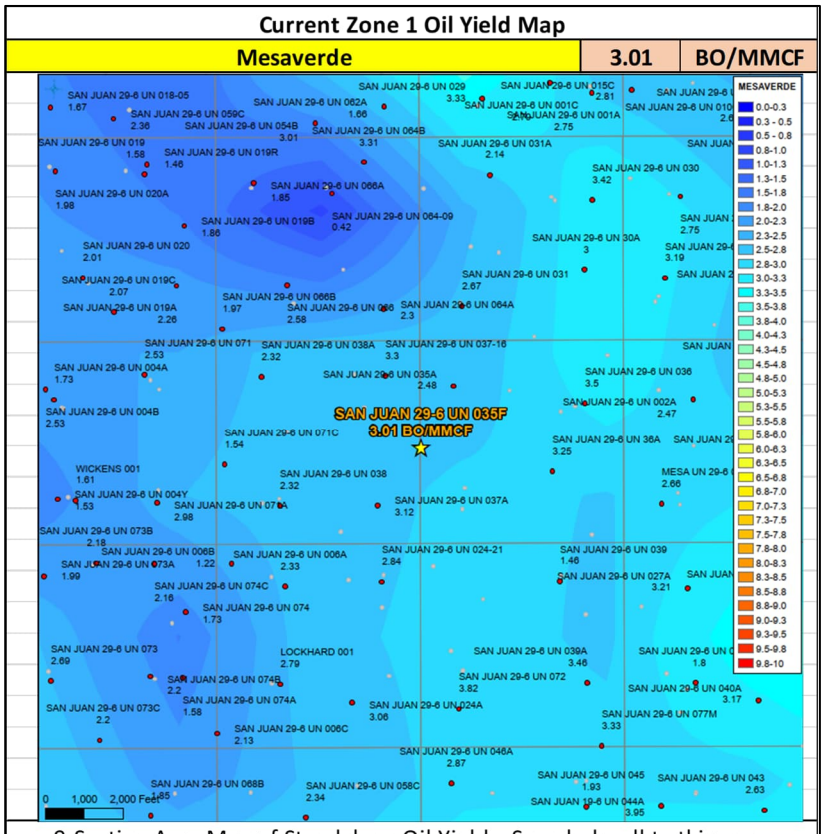




Oil Allocation:

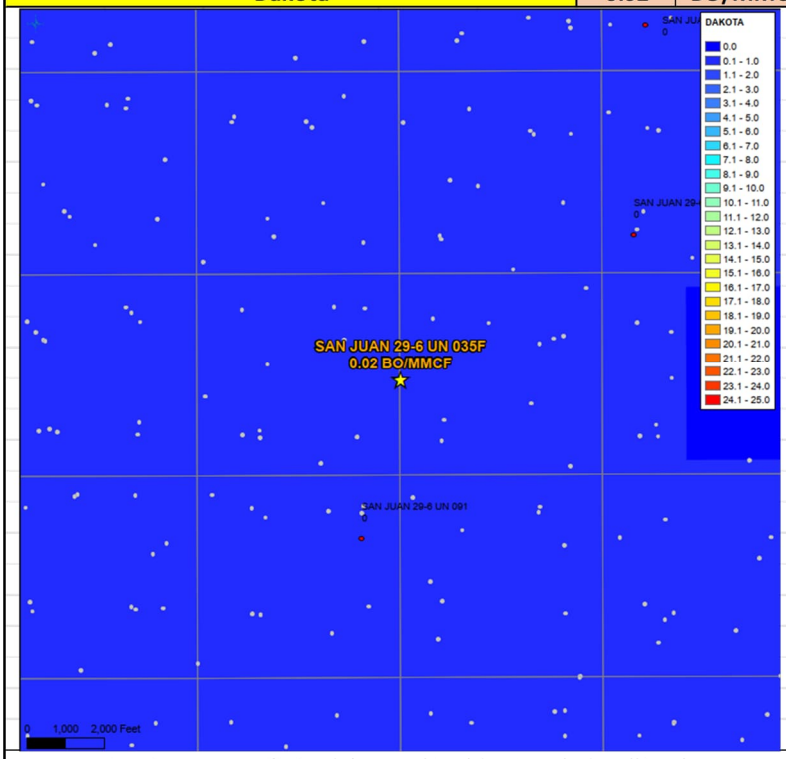
Oil production will be allocated based on average formation yields from offset wells and will be a fixed rate for 4 years. After 4 years oil will be reevaluated and adjusted as needed based on average formation yields and new fixed gas allocation.

Formation	Yield (bbl/MM)	Remaining Reserves (MMcf)	% Oil Allocation
MV	3.01	1007	99.82%
DK	0.02	278	0.18%
FRC	0.00	820	0%



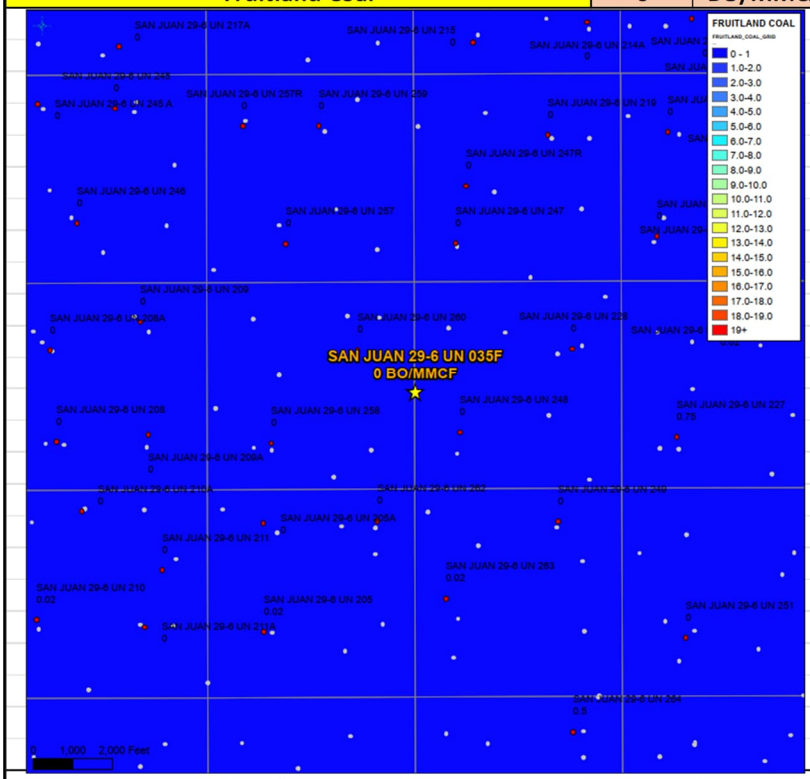
9-Section Area Map of Standalone Oil Yields. Sampled well to this map.

Current Zone 2 Oil Yield Map		
Dakota	0.02	BO/MMCF



9-Section Area Map of Standalone Oil Yields. Sampled well to this map.

Proposed Zone 1 Oil Yield Map		
Fruitland Coal	0	BO/MMCF



9-Section Area Map of Standalone Oil Yields. Sampled well to this map.

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
3003920453	SAN JUAN 29-6 UNIT 107	DK

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.

Well Name	API
SAN JUAN 29-6 UN 035F	3003929752

FRC Offset (2.9 miles)		MV Offset (2.8 miles)		DK Offset (5.8 miles)	
API	3003924581	API	3003907517	API	3003920773
Property	SAN JUAN 29-6 UNIT 213	Property	SAN JUAN 29-6 UNIT 70	Property	SAN JUAN 29-5 UNIT 66
CationBarium	0	CationBarium		CationBarium	0
CationBoron	0	CationBoron	0	CationBoron	0
CationCalcium	55.8	CationCalcium	2	CationCalcium	20.5
CationIron	0.72	CationIron	1810	CationIron	61.15
CationMagnesium	78.67	CationMagnesium	13.6	CationMagnesium	0.29
CationManganese	78.67	CationManganese	23.1	CationManganese	0.89
CationPhosphorus	0	CationPhosphorus	0	CationPhosphorus	0
CationPotassium	0	CationPotassium	0	CationPotassium	0
CationStrontium	0	CationStrontium	0	CationStrontium	0.64
CationSodium	3724.43	CationSodium	2770	CationSodium	192.94
CationSilica	0	CationSilica	0	CationSilica	0
CationZinc	0	CationZinc	0	CationZinc	0
CationAluminum	0	CationAluminum	0	CationAluminum	0
CationCopper	0	CationCopper	0	CationCopper	0
CationLead	0	CationLead	0	CationLead	0
CationLithium	0	CationLithium	0	CationLithium	0
CationNickel	0	CationNickel	0	CationNickel	0
CationCobalt	0	CationCobalt	0	CationCobalt	0
CationChromium	0	CationChromium	0	CationChromium	0
CationSilicon	0	CationSilicon	0	CationSilicon	0
CationMolybdenum	0	CationMolybdenum	0	CationMolybdenum	0
AnionChloride	3904	AnionChloride	2280	AnionChloride	8.01
AnionCarbonate	0	AnionCarbonate	100	AnionCarbonate	0
AnionBicarbonate	3275	AnionBicarbonate	2120	AnionBicarbonate	0
AnionBromide	0	AnionBromide	0	AnionBromide	0
AnionFluoride	0	AnionFluoride	0	AnionFluoride	0
AnionHydroxyl	0	AnionHydroxyl	0	AnionHydroxyl	0
AnionNitrate	0	AnionNitrate	0	AnionNitrate	0
AnionPhosphate	0	AnionPhosphate	0	AnionPhosphate	0
AnionSulfate	177	AnionSulfate	808	AnionSulfate	0
phField	8.13	phField	0	phField	5.79
phCalculated	0	phCalculated	0	phCalculated	0
TempField	0	TempField	0	TempField	79.7
TempLab	0	TempLab	0	TempLab	0
OtherFieldAlkalinity	0	OtherFieldAlkalinity	0	OtherFieldAlkalinity	0
OtherSpecificGravity	0	OtherSpecificGravity	0	OtherSpecificGravity	1
OtherTDS	11336	OtherTDS	7720	OtherTDS	631
OtherCaCO3	0	OtherCaCO3	0	OtherCaCO3	0
OtherConductivity	0	OtherConductivity	0	OtherConductivity	985.77
DissolvedCO2	0	DissolvedCO2	0	DissolvedCO2	236
DissolvedO2	0	DissolvedO2	0	DissolvedO2	0
DissolvedH2S	0	DissolvedH2S	0	DissolvedH2S	1.12
GasPressure	0	GasPressure	0	GasPressure	150
GasCO2	0	GasCO2	0	GasCO2	1
GasCO2PP	0	GasCO2PP	0	GasCO2PP	1.5
GasH2S	0	GasH2S	0	GasH2S	1
GasH2SPP	0	GasH2SPP	0	GasH2SPP	0
PitzerCaCO3_70	0	PitzerCaCO3_70	0	PitzerCaCO3_70	0
PitzerBaSO4_70	0	PitzerBaSO4_70	0	PitzerBaSO4_70	0
PitzerCaSO4_70	0	PitzerCaSO4_70	0	PitzerCaSO4_70	0
PitzerSrSO4_70	0	PitzerSrSO4_70	0	PitzerSrSO4_70	0
PitzerFeCO3_70	0	PitzerFeCO3_70	0	PitzerFeCO3_70	0
PitzerCaCO3_220	0	PitzerCaCO3_220	0	PitzerCaCO3_220	0
PitzerBaSO4_220	0	PitzerBaSO4_220	0	PitzerBaSO4_220	0
PitzerCaSO4_220	0	PitzerCaSO4_220	0	PitzerCaSO4_220	0
PitzerSrSO4_220	0	PitzerSrSO4_220	0	PitzerSrSO4_220	0
PitzerFeCO3_220	0	PitzerFeCO3_220	0	PitzerFeCO3_220	0

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 035F	3003929752

FRC Offset (2.9 miles)		MV Offset (2.8 miles)		DK Offset (4.6 miles)	
AssetCode	3003925201	AssetCode	3003926186	AssetCode	3003920690
AssetName	SAN JUAN 29-6 UNIT 249	AssetName	SAN JUAN 29-6 UNIT 47B	AssetName	SAN JUAN 28-6 UNIT 184
CO2	0.01	CO2	0.01	CO2	0.02
N2	0	N2	0	N2	0
C1	0.87	C1	0.8	C1	0.93
C2	0.06	C2	0.1	C2	0.04
C3	0.03	C3	0.05	C3	0.01
ISOC4	0.01	ISOC4	0.01	ISOC4	0
NC4	0.01	NC4	0.01	NC4	0
ISOC5	0	ISOC5	0	ISOC5	0
NC5	0	NC5	0	NC5	0
NEOC5	0	NEOC5	0	NEOC5	0
C6	0	C6	0.01	C6	0
C6_PLUS	0	C6_PLUS	0	C6_PLUS	0
C7	0	C7	0	C7	0
C8	0	C8	0	C8	0
C9	0	C9	0	C9	0
C10	0	C10	0	C10	0
AR	0	AR	0	AR	0
CO	0	CO	0	CO	0
H2	0	H2	0	H2	0
O2	0	O2	0	O2	0
H20	0	H20	0	H20	0
H2S	0	H2S	0	H2S	0
HE	0	HE	0	HE	0
C_O_S	0	C_O_S	0	C_O_S	0
CH3SH	0	CH3SH	0	CH3SH	0
C2H5SH	0	C2H5SH	0	C2H5SH	0
CH2S3_2CH3S	0	CH2S3_2CH3S	0	CH2S3_2CH3S	0
CH2S	0	CH2S	0	CH2S	0
C6HV	0	C6HV	0	C6HV	0
CO2GPM	0	CO2GPM	0	CO2GPM	0
N2GPM	0	N2GPM	0	N2GPM	0
C1GPM	0	C1GPM	0	C1GPM	0
C2GPM	0	C2GPM	0	C2GPM	1.04
C3GPM	0	C3GPM	0	C3GPM	0.21
ISOC4GPM	0	ISOC4GPM	0	ISOC4GPM	0.09
NC4GPM	0	NC4GPM	0	NC4GPM	0.05
ISOC5GPM	0	ISOC5GPM	0	ISOC5GPM	0.05
NC5GPM	0	NC5GPM	0	NC5GPM	0.02
C6_PLUSGPM	0	C6_PLUSGPM	0	C6_PLUSGPM	0.12

Well Name: SAN JUAN 29-6 UNIT

Well Location: T29N / R6W / SEC 15 / NWSW / 36.72527 / -107.45859

County or Parish/State: RIO ARRIBA / NM

Well Number: 35F

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM05220

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

Unit or CA Number: NMNM78416A, NMNM78416B

US Well Number: 3003929752

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2801773

Type of Submission: Notice of Intent

Type of Action: Recompletion

Date Sundry Submitted: 07/18/2024

Time Sundry Submitted: 12:23

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 and Dakota formations. Please see the attached procedure, current and proposed wellbore diagram, plat and natural gas management plan. A closed loop system will be used. Hilcorp will contact the FFO Surface group within 90 days after the well has been recompleted, before any interim reclamation work, to conduct the onsite. A reclamation plan will be submitted after the onsite. **The Fruitland Coal will be on a new CA.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

San_Juan_29_6_Unit_35F_FRC_NOI_20240718122214.pdf

Well Name: SAN JUAN 29-6 UNIT	**Well Location:** T29N / R6W / SEC 15 / NWSW / 36.72527 / -107.45859	**County or Parish/State:** RIO ARRIBA / NM
Well Number: 35F	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMNM05220	**Unit or CA Name:** SAN JUAN 29-6 UNIT--DK, SAN JUAN 29-6 UNIT--MV	**Unit or CA Number:** NMNM78416A, NMNM78416B
US Well Number: 3003929752	**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 24, 2024 11:50 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: Approved

Disposition Date: 07/25/2024

Signature: Kenneth Rennick

HILCORP ENERGY COMPANY
San Juan 29-6 Unit 35F
RECOMPLETION SUNDRY

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

WELL INFORMATION			
Well Name:	San Juan 29-6 Unit 35F	**State:**	NM
API #:	3003929752	**County:**	Rio Arriba
Area:	13	**Location:**	
Route:	1306	**Latitude:**	36.725166
Spud Date:	December 15, 2006	**Longitude:**	-107.45864

PROJECT DESCRIPTION

Perforate, fracture, and commingle the Fruitland Coal with the existing Mesa Verde and Dakota zones.

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 35F
RECOMPLETION SUNDRY

JOB PROCEDURES

1. MIRU service rig and associated equipment; test BOP.
2. TOOH with **2-3/8"** tubing set at **7,804'**.
3. Set a **4-1/2"** plug at +/- **4,935'** to isolate the **Mesa Verde and Dakota**.
4. Load the hole and pressure test the casing.
5. N/D BOP, N/U frac stack and pressure test frac stack.
6. Perforate and frac the **Fruitland Coal** formations (Top Perforation @ **3,137',** Bottom Perforation @ **3,352'**).
7. Nipple down frac stack, nipple up BOP and test.
8. TIH with a mill and drill out top isolation plug and **Fruitland Coal** frac plug.
9. Clean out to **Mesa Verde/Dakota** isolation plug.
10. Drill out **Mesa Verde/Dakota** isolation plug and cleanout to PBTD of **7,885'**. TOOH.
11. TIH and land production tubing. Get a commingled **Fruitland Coal/Mesa Verde/Dakota** flow rate.

HILCORP ENERGY COMPANY
San Juan 29-6 Unit 35F
RECOMPLETION SUNDRY

San Juan 29-6 Unit 35F - CURRENT WELLBORE SCHEMATIC

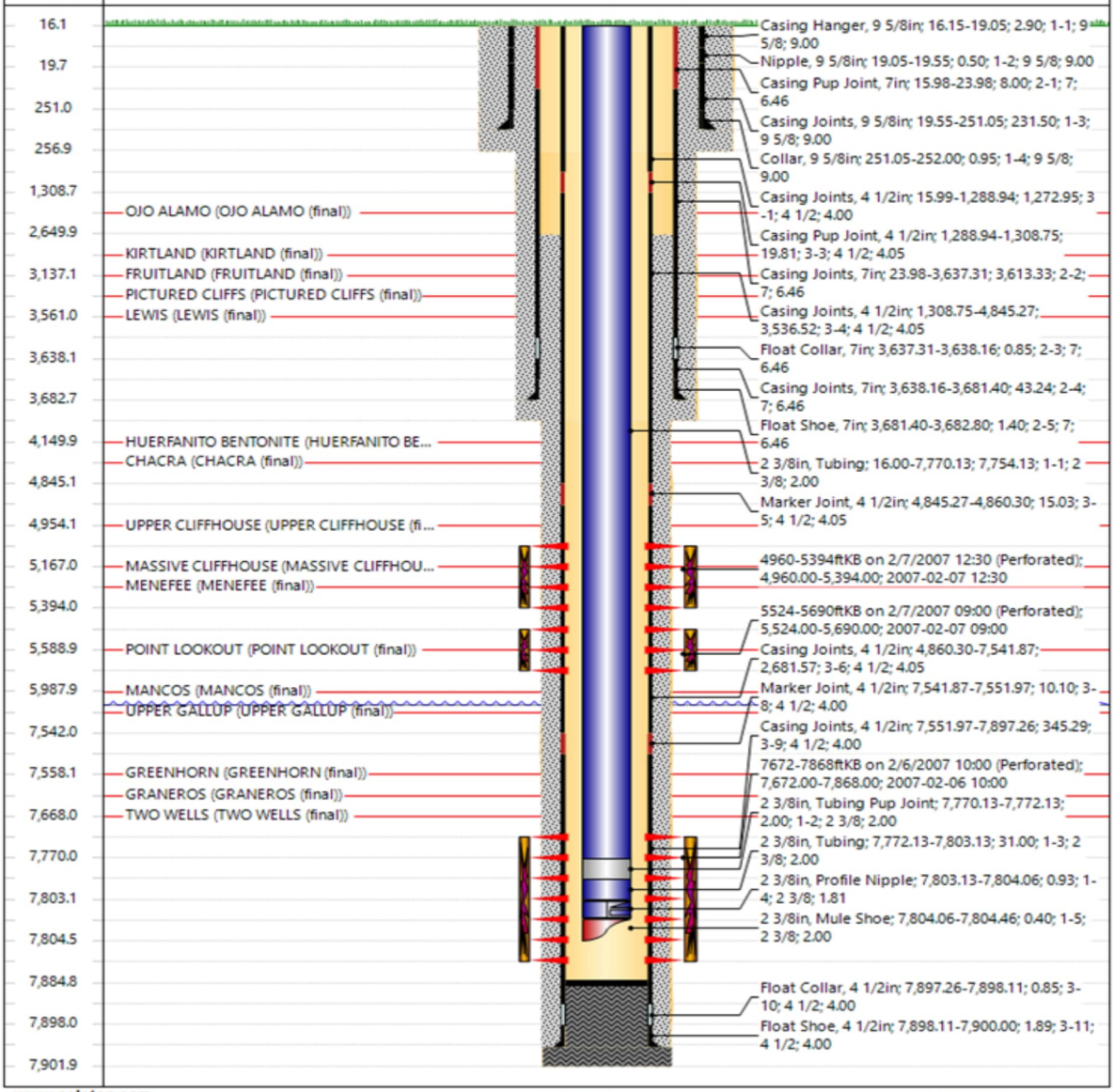
Hilcorp Energy Company

Current Schematic

Well Name: SAN JUAN 29-6 UNIT #35F

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3003929752	015-029N-006W-L	MV/DK COM	1306	NEW MEXICO	Vertical
Ground Elevation (ft)	**Original KB/RT Elevation (ft)**	**Tubing Hanger Elevation (ft)**	**RKB to GL (ft)**	**KB-Casing Flange Distance (ft)**	**KB-Tubing Hanger Distance (ft)**
6,487.00	6,503.00		16.00		

Original Hole [Vertical]



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HILCORP ENERGY COMPANY
San Juan 29-6 Unit 35F
RECOMPLETION SUNDRY

San Juan 29-6 Unit 35F - Proposed Schematic

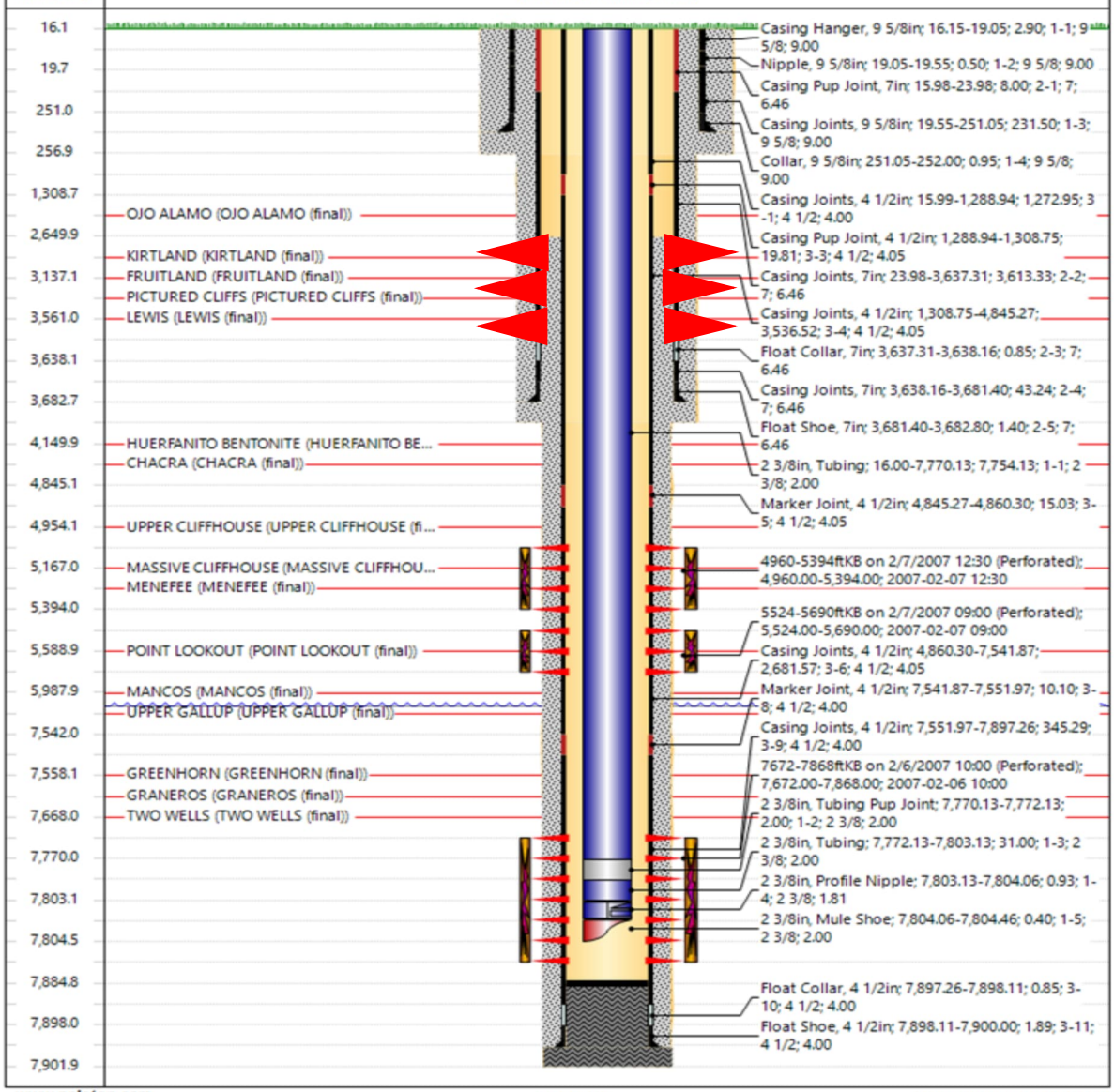
Hilcorp Energy Company

Current Schematic

Well Name: SAN JUAN 29-6 UNIT #35F

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3003929752	015-029N-006W-L	MV/DK COM	1306	NEW MEXICO	Vertical
Ground Elevation (ft)	**Original KB/RT Elevation (ft)**	**Tubing Hanger Elevation (ft)**	**RKB to GL (ft)**	**KB-Casing Flange Distance (ft)**	**KB-Tubing Hanger Distance (ft)**
6,487.00	6,503.00		16.00		

Original Hole [Vertical]



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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.
Santa Fe, NM 87505

Form C-102
August 1, 2011

Permit 367967

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-039-29752	71629	BASIN FRUITLAND COAL (GAS)
4. Property Code	**5. Property Name**	**6. Well No.**
318838	SAN JUAN 29 6 UNIT	035F
7. OGRID No.	**8. Operator Name**	**9. Elevation**
372171	HILCORP ENERGY COMPANY	6486

10. Surface Location

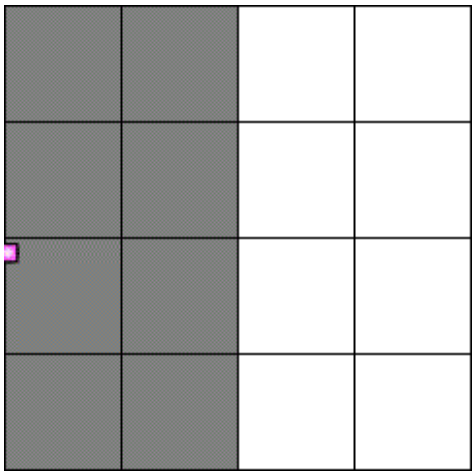
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	15	29N	06W		2485	S	25	W	RIO ARRIBA

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 Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
320.00			

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: Jason C. Edwards
Date of Survey: 9/21/2005
Certificate Number: 15269

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Hilcorp Energy Company **OGRID:** 372171 **Date:** 07 / 18 /2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): 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	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
San Juan 29-6 Unit 35F	3003929752	L-15-29N-06W	2485' FSL, 25' FWL	0 bbl/d	350 mcf/d	5 bbl/d

IV. Central Delivery Point Name: Ignacio Processing Plant [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
San Juan 29-6 Unit 35F	**3003929752**					**2024**

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. ☐ 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 anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ 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).

☐ Attach Operator's plan to manage production in response to the increased line 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. ☐ 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;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(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

(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:	Cherylene Weston
Printed Name:	Cherylene Weston
Title:	Operations/Regulatory Tech-Sr.
E-mail Address:	cweston@hilcorp.com
Date:	7/18/2024
Phone:	713-289-2615

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

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.
   - 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.

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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

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 368732
	Action Type: [C-107] Down Hole Commingle (C-107A)

CONDITIONS

Created By	Condition	Condition Date
llowe	None	7/17/2025