ID NO. 342858

# DHC - 5393

Revised March 23, 2017

| RECEIVED: | REVIEWER: | TYPE: | APP NO: |
|---|---|---|---|
| 05/10/24 | | | pLEL2415956932 |

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

## ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Applicant:** Hilcorp Energy Company **OGRID Number:** 372171
**Well Name:** San Juan 29-7 Unit 80A **API:** 30-039-23882
**Pool:** Basin Fruitland Coal / Blanco Pictured Cliffs /Blanco Mesaverde **Pool Code:** 71629, 72359, 72319

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP(PROJECT AREA) ☐ NSP(PRORATION UNIT) ☐ SD

B. Check one only for [ I ] or [ II ]
[ I ] Commingling – Storage – Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

**FOR OCD ONLY**
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☐ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☐ Application requires published notice
D. ☐ Notification and/or concurrent approval by SLO
E. ☒ Notification and/or concurrent approval by BLM
F. ☐ Surface owner
G. ☐ For all of the above, proof of notification or publication is attached, and/or,
H. ☒ No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

Cherylene Weston
Print or Type Name

Cherylene Weston
Signature

5/23/2024
Date

713-289-2614
Phone Number

cweston@hilcorp.com
e-mail Address

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

District II
811 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

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 29-7 Unit — Lease
80A — Well No.
C-9-T29N-R07W — Unit Letter-Section-Township-Range
Rio Arriba County, NM — County

OGRID No. 372171 Property Code 318713 API No. 30-039-23882 Lease Type: ____Federal ____State __X__Fee

| DATA ELEMENT | UPPER ZONE | INTERMEDIATE ZONE | LOWER ZONE |
|---|---|---|---|
| Pool Name | Fruitland Coal | Blanco Pictured Cliffs | Blanco Mesaverde |
| Pool Code | 71629 | 72359 | 72319 |
| Top and Bottom of Pay Section (Perforated or Open-Hole Interval) | 2659' - 2912' | 2912' - 3097' | 3715' - 5496' |
| 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 | 192 psi | 290 psi |
| Oil Gravity or Gas BTU (Degree API or Gas BTU) | 878 BTU | 1164 BTU | 1217 BTU |
| Producing, Shut-In or New Zone | New Zone | New Zone | 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:<br>Rates: | Date:<br>Rates: | Date: 2/1/2024<br>Rates: Oil - 18 bbl<br>Gas - 2,281 mcf<br>Water - 40 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: R-10697

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 5/7/2024

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
**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 359853

## WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1. API Number | 2. Pool Code | 3. Pool Name |
|---|---|---|
| 30-039-23882 | 71629 | BASIN FRUITLAND COAL (GAS) |
| **4. Property Code** | **5. Property Name** | **6. Well No.** |
| 318713 | SAN JUAN 29 7 UNIT | 080A |
| **7. OGRID No.** | **8. Operator Name** | **9. Elevation** |
| 372171 | HILCORP ENERGY COMPANY | 6123 |

**10. Surface Location**

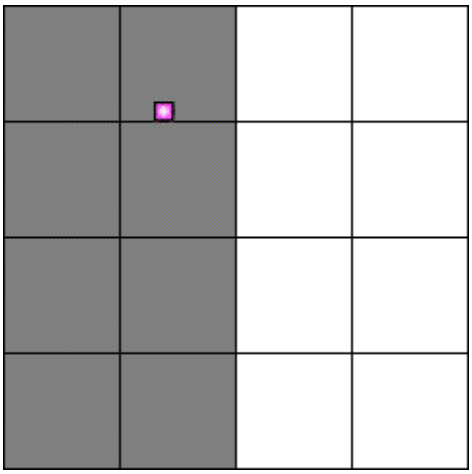
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| C | 9 | 29N | 07W | | 1190 | N | 1810 | W | RIO ARRIBA |

**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: 2/15/2024

### 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: 9/17/1985
Certificate Number: 3950

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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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 359853

## WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1. API Number | 2. Pool Code | 3. Pool Name |
|---|---|---|
| 30-039-23882 | 72359 | BLANCO PICTURED CLIFFS (GAS) |
| **4. Property Code** | **5. Property Name** | **6. Well No.** |
| 318713 | SAN JUAN 29 7 UNIT | 080A |
| **7. OGRID No.** | **8. Operator Name** | **9. Elevation** |
| 372171 | HILCORP ENERGY COMPANY | 6123 |

**10. Surface Location**

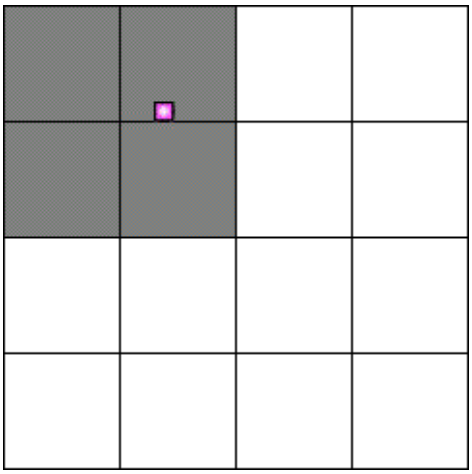
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| C | 9 | 29N | 07W | | 1190 | N | 1810 | W | RIO ARRIBA |

**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. |
|---|---|---|---|
| 160.00 | | | |

**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: 2/15/2024

### 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: 9/17/1985
Certificate Number: 3950

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 boundaries of the Section.

| Operator | Lease | Well No. |
|---|---|---|
| EL PASO NATURAL GAS COMPANY | SAN JUAN 29-7 UNIT (Fee) | 80A |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| C | 9 | 29N | 7W | Rio Arriba |

Actual Footage Location of Well:
1190 feet from the North line and 1810 feet from the West line

| Ground Level Elev. | Producing Formation | Pool | Dedicated Acreage: |
|---|---|---|---|
| 6123 | Mesa Verde | Blanco | 320 Acres |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

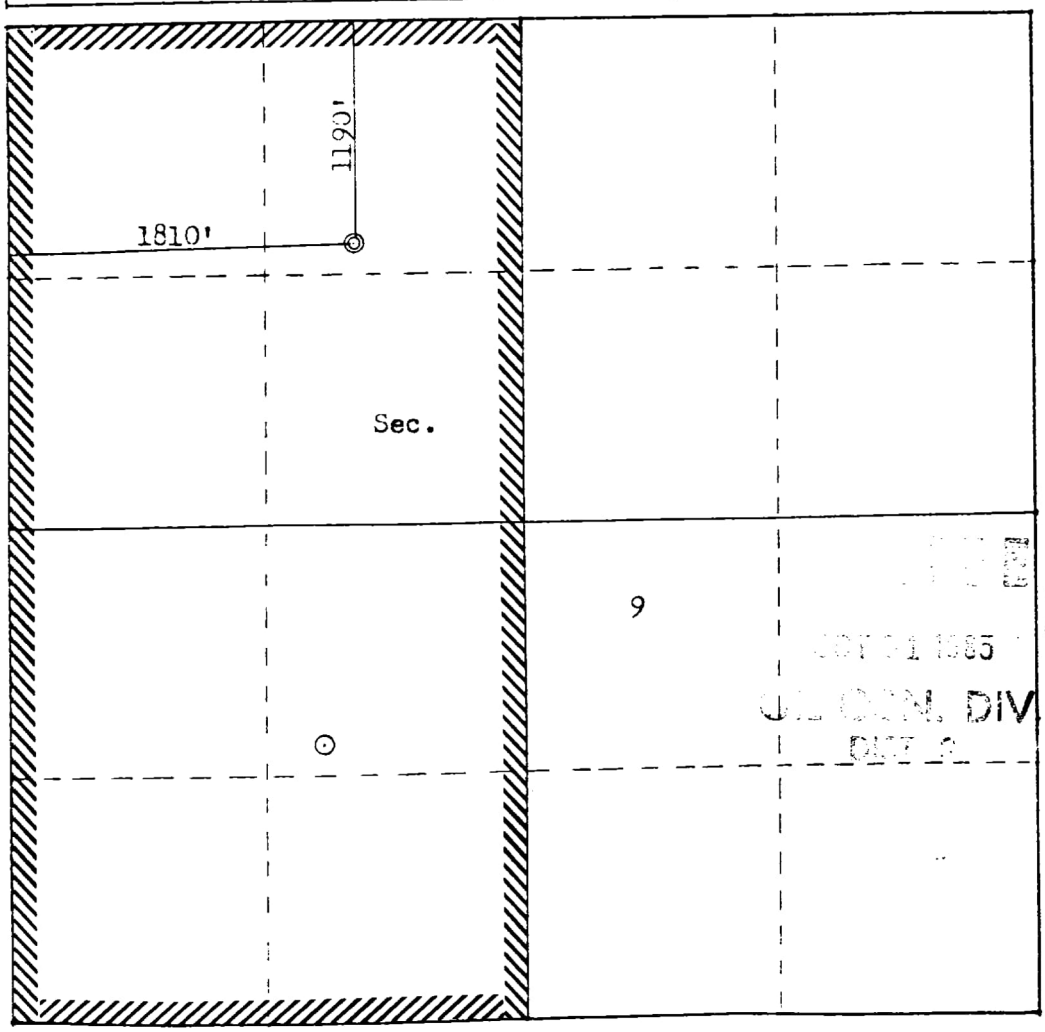
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.




Scale: 1"=1000'

CERTIFICATION

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.*

Peggy Cole

Name

Position
Drilling Clerk

Company
El Paso Natural Gas Company

Date
9-30-85

*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 knowledge and belief.*

Date Surveyed
September 17, 1985

Registered Professional Engineer and Land Surveyor
Fred B. Kerr Jr.

Certificate No.
3950

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 29-7 Unit 80A Production Allocation Method – Subtraction

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.

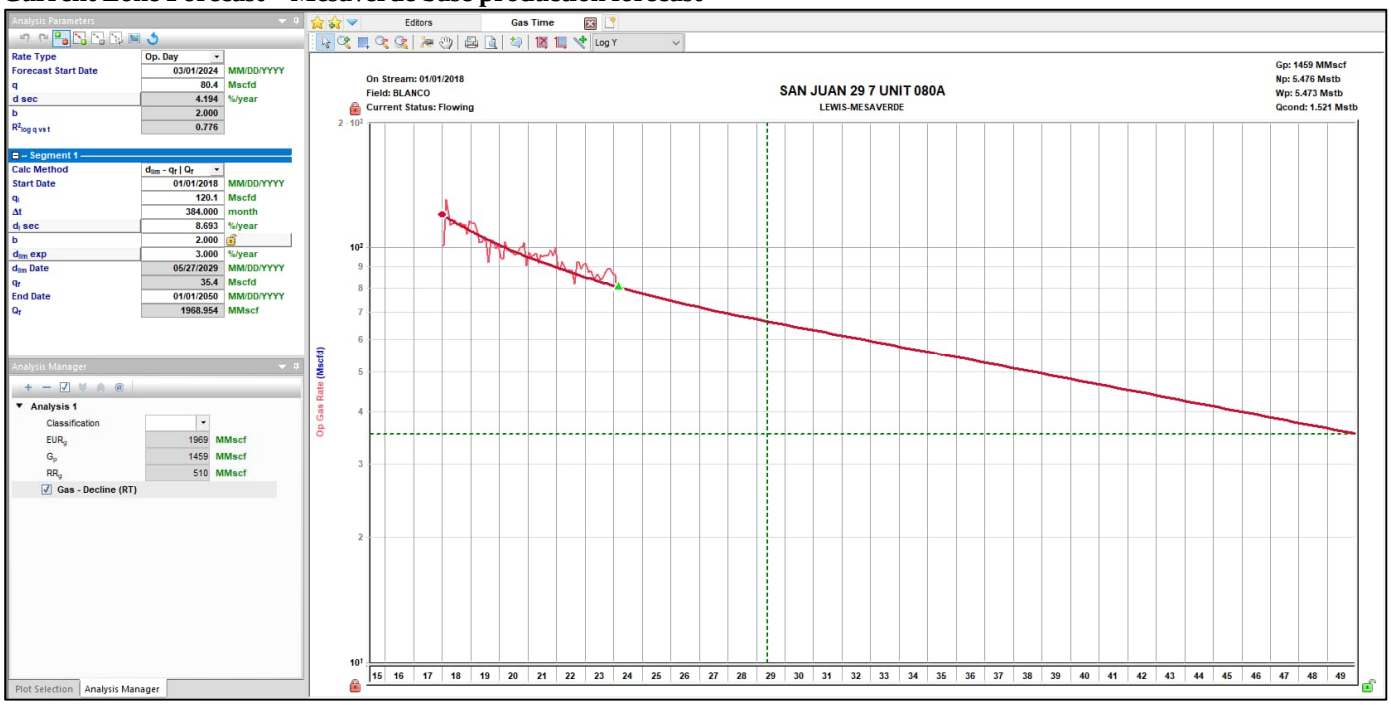
**Gas Allocation:**
Production for the downhole commingle will be allocated using the subtraction method in agreement with local agencies. The base formation is the Mesaverde and the added formation to be commingled is the Fruitland Coal/Pictured Cliffs. The subtraction method applies an average monthly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

New zones will be allocated using a fixed allocation. Forecasted rates for FRC/PC are based on offsets type curve. The maps show the standalone offsets that were used for type-curves. The split between FRC/PC is based on the ratio of forecasted reserves as shown in the table below.

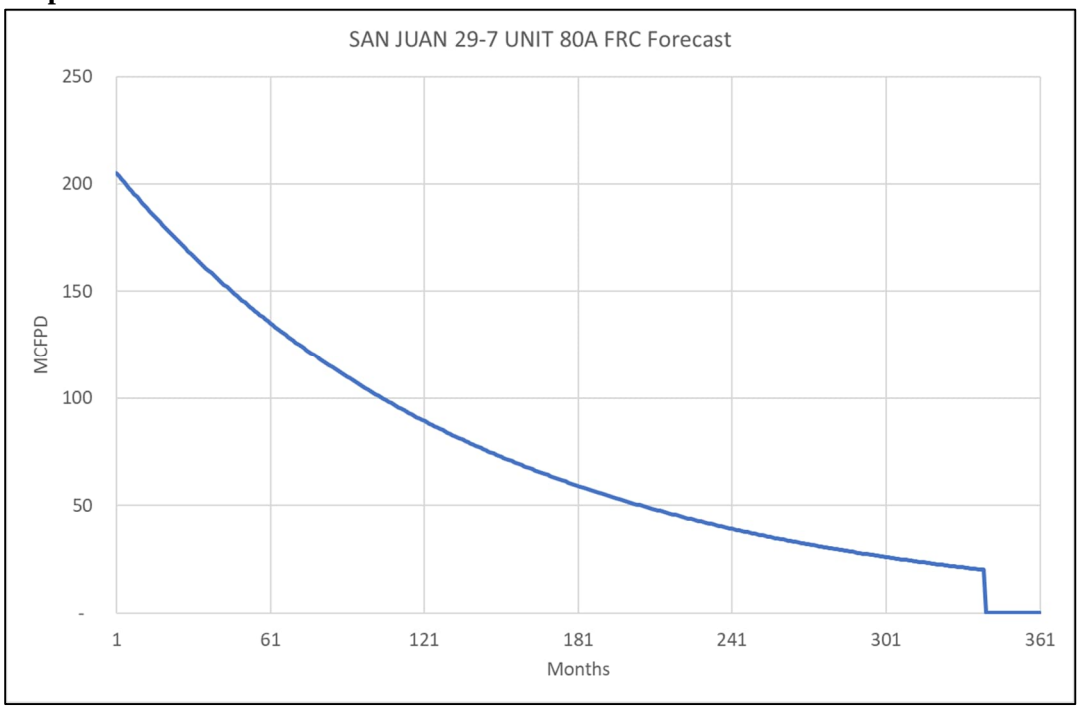
| Formation | Remaining Reserves (MMcf) | % Gas Allocation |
|---|---|---|
| Fruitland Coal | 820 | 69% |
| Pictured Cliffs | 364 | 31% |

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.

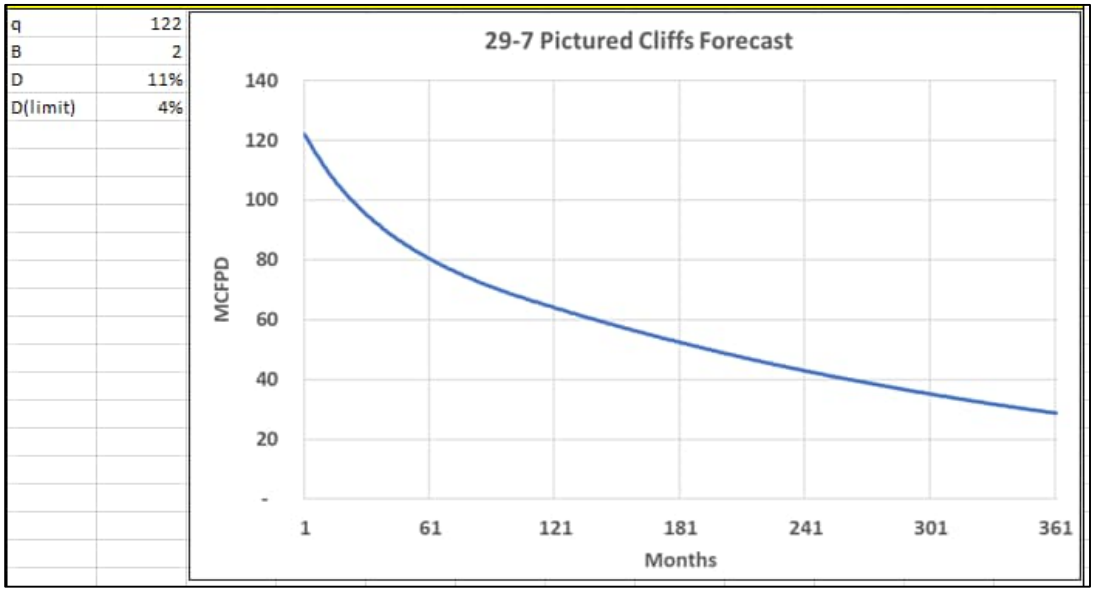
**Current Zone Forecast – Mesaverde base production forecast**



**Proposed Zone 1 Forecast – Fruitland Coal**




**Proposed Zone 2 Forecast – Pictured Cliffs**




**Oil Allocation:**

Oil production will be a fixed allocation of 100% to the Mesaverde based on actual formation yields from the well. The Fruitland Coal and Pictured Cliffs have not historically produced oil in this area.

| Formation | Yield (bbl/MM) | Remaining Reserves (MMcf) | % Oil Allocation |
|---|---|---|---|
| MV | 1.04 | 510 | 100% |
| FRC | 0.00 | 820 | 0% |
| PC | 0.00 | 364 | 0% |
| | 0.00 | 0 | 0% |

**Current Zone - Mesaverde Oil Yield**

| Current Zone 1 Oil Yield Map | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mesaverde | | | | | | 1.04 | BO/MMCF | |
| | | | | | | | | |
| | Gp | 1,459 | MMscf | | | | | |
| | Qcond | 1,521 | stb | | | | | |
| | | | | | | | | |
| | Yield | 1.04 | bo/MM | | | | | |

Average Oil Yield observed in this well

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 |
| 3003927484 | SAN JUAN 29-7 UNIT 185 | PC |

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.

| FRC Offset | | PC Offset | | MV Offset | |
|---|---|---|---|---|---|
| API | 3003924186 | API | 3003925897 | API | 3003907507 |
| Property | SAN JUAN 30-6 UNIT 409 | Property | SAN JUAN 29-7 UNIT 166 | Property | SAN JUAN 29-5 UNIT 5X |
| CationBarium | 6.73 | CationBarium | 0 | CationBarium | 0 |
| CationBoron | | CationBoron | | CationBoron | |
| CationCalcium | 18.49 | CationCalcium | 80 | CationCalcium | 6.11 |
| CationIron | 5.4 | CationIron | 62.1 | CationIron | 32.81 |
| CationMagnesium | 4.54 | CationMagnesium | 19.5 | CationMagnesium | 9.52 |
| CationManganese | 0.62 | CationManganese | 1.98 | CationManganese | 0.42 |
| CationPhosphorus | | CationPhosphorus | | CationPhosphorus | |
| CationPotassium | | CationPotassium | | CationPotassium | |
| CationStrontium | 4.49 | CationStrontium | 0 | CationStrontium | 0.31 |
| CationSodium | 686.44 | CationSodium | 762.8 | CationSodium | 752.38 |
| CationSilica | | CationSilica | | CationSilica | |
| CationZinc | | CationZinc | | CationZinc | |
| CationAluminum | | CationAluminum | | CationAluminum | |
| CationCopper | | CationCopper | | CationCopper | |
| CationLead | | CationLead | | CationLead | |
| CationLithium | | CationLithium | | CationLithium | |
| CationNickel | | CationNickel | | CationNickel | |
| CationCobalt | | CationCobalt | | CationCobalt | |
| CationChromium | | CationChromium | | CationChromium | |
| CationSilicon | | CationSilicon | | CationSilicon | |
| CationMolybdenum | | CationMolybdenum | | CationMolybdenum | |
| AnionChloride | 91 | AnionChloride | 1200 | AnionChloride | 906 |
| AnionCarbonate | 0 | AnionCarbonate | 0 | AnionCarbonate | 0 |
| AnionBicarbonate | | AnionBicarbonate | 427 | AnionBicarbonate | |
| AnionBromide | | AnionBromide | | AnionBromide | |
| AnionFluoride | | AnionFluoride | | AnionFluoride | |
| AnionHydroxyl | 0 | AnionHydroxyl | | AnionHydroxyl | 0 |
| AnionNitrate | | AnionNitrate | | AnionNitrate | |
| AnionPhosphate | | AnionPhosphate | | AnionPhosphate | |
| AnionSulfate | 0 | AnionSulfate | 80 | AnionSulfate | 0 |
| phField | 7.99 | phField | | phField | 6.49 |
| phCalculated | | phCalculated | 6.83 | phCalculated | |
| TempField | 79 | TempField | | TempField | 70.9 |
| TempLab | | TempLab | | TempLab | |
| OtherFieldAlkalinity | 1698.58 | OtherFieldAlkalinity | 342.16 | OtherFieldAlkalinity | 219.96 |
| OtherSpecificGravity | 1 | OtherSpecificGravity | | OtherSpecificGravity | 1 |
| OtherTDS | 2538 | OtherTDS | 2435 | OtherTDS | 2071 |
| OtherCaCO3 | 64.84 | OtherCaCO3 | | OtherCaCO3 | 54.31 |
| OtherConductivity | 968 | OtherConductivity | | OtherConductivity | 4140 |
| DissolvedCO2 | 26 | DissolvedCO2 | | DissolvedCO2 | 142 |
| DissolvedO2 | | DissolvedO2 | | DissolvedO2 | |
| DissolvedH2S | 0.37 | DissolvedH2S | 13 | DissolvedH2S | 1.97 |
| GasPressure | 141 | GasPressure | | GasPressure | 150 |
| GasCO2 | 6 | GasCO2 | 4 | GasCO2 | 1 |
| GasCO2PP | 8.46 | GasCO2PP | | GasCO2PP | 1.5 |
| GasH2S | 0 | GasH2S | 0 | GasH2S | 2.5 |
| GasH2SPP | 0 | GasH2SPP | | GasH2SPP | 0 |
| PitzerCaCO3_70 | 0.72 | PitzerCaCO3_70 | | PitzerCaCO3_70 | |
| PitzerBaSO4_70 | | PitzerBaSO4_70 | | PitzerBaSO4_70 | |
| PitzerCaSO4_70 | | PitzerCaSO4_70 | | PitzerCaSO4_70 | |
| PitzerSrSO4_70 | | PitzerSrSO4_70 | | PitzerSrSO4_70 | |
| PitzerFeCO3_70 | | PitzerFeCO3_70 | | PitzerFeCO3_70 | |
| PitzerCaCO3_220 | 1.06 | PitzerCaCO3_220 | | PitzerCaCO3_220 | |
| PitzerBaSO4_220 | | PitzerBaSO4_220 | | PitzerBaSO4_220 | |
| PitzerCaSO4_220 | | PitzerCaSO4_220 | | PitzerCaSO4_220 | |
| PitzerSrSO4_220 | | PitzerSrSO4_220 | | PitzerSrSO4_220 | |
| PitzerFeCO3_220 | | PitzerFeCO3_220 | | PitzerFeCO3_220 | |

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.

| FRC Offset | | PC Offset | | MV Offset | |
|---|---|---|---|---|---|
| AssetCode | 3003924382 | AssetCode | 3003927574 | AssetCode | 3003922027 |
| AssetName | SAN JUAN 28-5 UNIT NP 204 | AssetName | SAN JUAN 29-7 UNIT 193 | AssetName | NORTHEAST BLANCO UNIT 19A |
| CO2 | 0.01 | CO2 | 0.01 | CO2 | 0.01 |
| N2 | 0 | N2 | 0 | N2 | 0.01 |
| C1 | 0.83 | C1 | 0.85 | C1 | 0.93 |
| C2 | 0.09 | C2 | 0.07 | C2 | 0.04 |
| C3 | 0.04 | C3 | 0.04 | 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 | | NEOC5 | | NEOC5 | |
| C6 | | C6 | | C6 | |
| C6_PLUS | 0.01 | C6_PLUS | 0.01 | C6_PLUS | 0 |
| C7 | | C7 | | C7 | |
| C8 | | C8 | | C8 | |
| C9 | | C9 | | C9 | |
| C10 | | C10 | | C10 | |
| AR | | AR | | AR | |
| CO | | CO | | CO | |
| H2 | | H2 | | H2 | |
| O2 | | O2 | | O2 | |
| H20 | | H20 | | H20 | |
| H2S | 0 | H2S | 0 | H2S | 0 |
| HE | | HE | | HE | |
| C_O_S | | C_O_S | | C_O_S | |
| CH3SH | | CH3SH | | CH3SH | |
| C2H5SH | | C2H5SH | | C2H5SH | |
| CH2S3_2CH3S | | CH2S3_2CH3S | | CH2S3_2CH3S | |
| CH2S | | CH2S | | CH2S | |
| C6HV | | C6HV | | C6HV | |
| CO2GPM | 0 | CO2GPM | 0 | CO2GPM | |
| N2GPM | 0 | N2GPM | 0 | N2GPM | |
| C1GPM | 0 | C1GPM | 0 | C1GPM | |
| C2GPM | 2.34 | C2GPM | 1.98 | C2GPM | |
| C3GPM | 1.05 | C3GPM | 1.07 | C3GPM | |
| ISOC4GPM | 0.25 | ISOC4GPM | 0.24 | ISOC4GPM | |
| NC4GPM | 0.33 | NC4GPM | 0.32 | NC4GPM | |
| ISOC5GPM | 0.15 | ISOC5GPM | 0.13 | ISOC5GPM | |
| NC5GPM | 0.11 | NC5GPM | 0.09 | NC5GPM | |
| C6_PLUSGPM | 0.3 | C6_PLUSGPM | 0.25 | C6_PLUSGPM | |

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**District IV**
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Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised July 18, 2013

☐AMENDED REPORT

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

| 1. Operator Name and Address | 2. OGRID Number |
|---|---|
| Hilcorp Energy Company<br>382 Road 3100<br>Aztec, NM 87410 | 372171 |
| | 3. API Number<br>30-039-23882 |

| 4. Property Code | 5. Property Name | 6. Well No. |
|---|---|---|
| 318713 | San Juan 29-7 Unit | 80A |

## 7. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| C | 9 | 029N | 007W | | 1190 | North | 1810 | West | Rio Arriba |

## 8. Proposed Bottom Hole Location

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

## 9. Pool Information

| Pool Name | Pool Code |
|---|---|
| Basin Fruitland Coal, Blanco Pictured Cliffs | 71629, 72359 |

## Additional Well Information

| 11. Work Type | 12. Well Type | 13. Cable/Rotary | 14. Lease Type | 15. Ground Level Elevation |
|---|---|---|---|---|
| Recomplete | Commingle | | FEE | 6123' GR |
| **16. Multiple** | **17. Proposed Depth** | **18. Formation** | **19. Contractor** | **20. Spud Date** |
| Commingle | | Basin FRC, Blanco PC, Blanco MV | | |

| Depth to Ground water | Distance from nearest fresh water well | Distance to nearest surface water |
|---|---|---|
| | | |

☒**We will be using a closed-loop system in lieu of lined pits**

## 21. Proposed Casing and Cement Program

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |

## Casing/Cement Program: Additional Comments

## 22. Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|---|---|---|---|
| | | | |

| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>**I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.**<br>Signature: Cherylene Weston | OIL CONSERVATION DIVISION<br>Approved By: |
|---|---|
| Printed name: Cherylene Weston | Title: |
| Title: Operations Regulatory Tech Sr. | Approved Date: / Expiration Date: |
| E-mail Address: cweston@hilcorp.com | |
| Date: 4/24/2024 / Phone: 713-289-2615 | Conditions of Approval Attached |

# HILCORP ENERGY COMPANY
## San Juan 29-7 Unit 80A
## RECOMPLETION SUNDRY

| | |
|---|---|
| **Prepared by:** | Matthew Esz |
| **Preparation Date:** | February 14, 2024 |

| WELL INFORMATION | | | |
|---|---|---|---|
| **Well Name:** | San Juan 29-7 Unit 80A | **State:** | NM |
| **API #:** | 3003923882 | **County:** | |
| **Area:** | 10 | **Location:** | |
| **Route:** | 1000 | **Latitude:** | |
| **Spud Date:** | February 3, 1986 | **Longitude:** | |

**PROJECT DESCRIPTION**

Perforate, fracture, and comingle the Fruitland Coal and Pictured Cliffs with the existing Mesa Verde zone.

**CONTACTS**

| Title | Name | Office Phone # | Cell Phone # |
|---|---|---|---|
| Engineer | Matthew Esz | | 770-843-9226 |
| Area Foreman | Ryan Frost | | |
| Lead | | | |
| Artificial Lift Tech | | | |
| Operator | | | |

HILCORP ENERGY COMPANY
San Juan 29-7 Unit 80A
RECOMPLETION SUNDRY

**JOB PROCEDURES**

1. MIRU service rig and associated equipment; test BOP.
2. TOOH with **2-3/8"** tubing set at **5,461'**.
3. Set a **4-1/2"** plug at +/- **3,690'** 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 **Pictured Cliffs** from **2912'-3097'** and **Fruitland Coal** from **2659'-2912'**.
8. Nipple down frac stack, nipple up BOP and test.
9. TIH with a mill and drill out top isolation plug and **Fruitland Coal/ Pictured Cliffs** frac plugs.
10. Clean out to **Mesa Verde** isolation plug.
11. Drill out **Mesa Verde** isolation plug and cleanout to PBTD of **5,576'**. TOOH.
12. TIH and land production tubing. Get a commingled **Fruitland Coal/Pictured Cliffs/Mesa Verde** flow rate.

**HILCORP ENERGY COMPANY**
**San Juan 29-7 Unit 80A**
**RECOMPLETION SUNDRY**

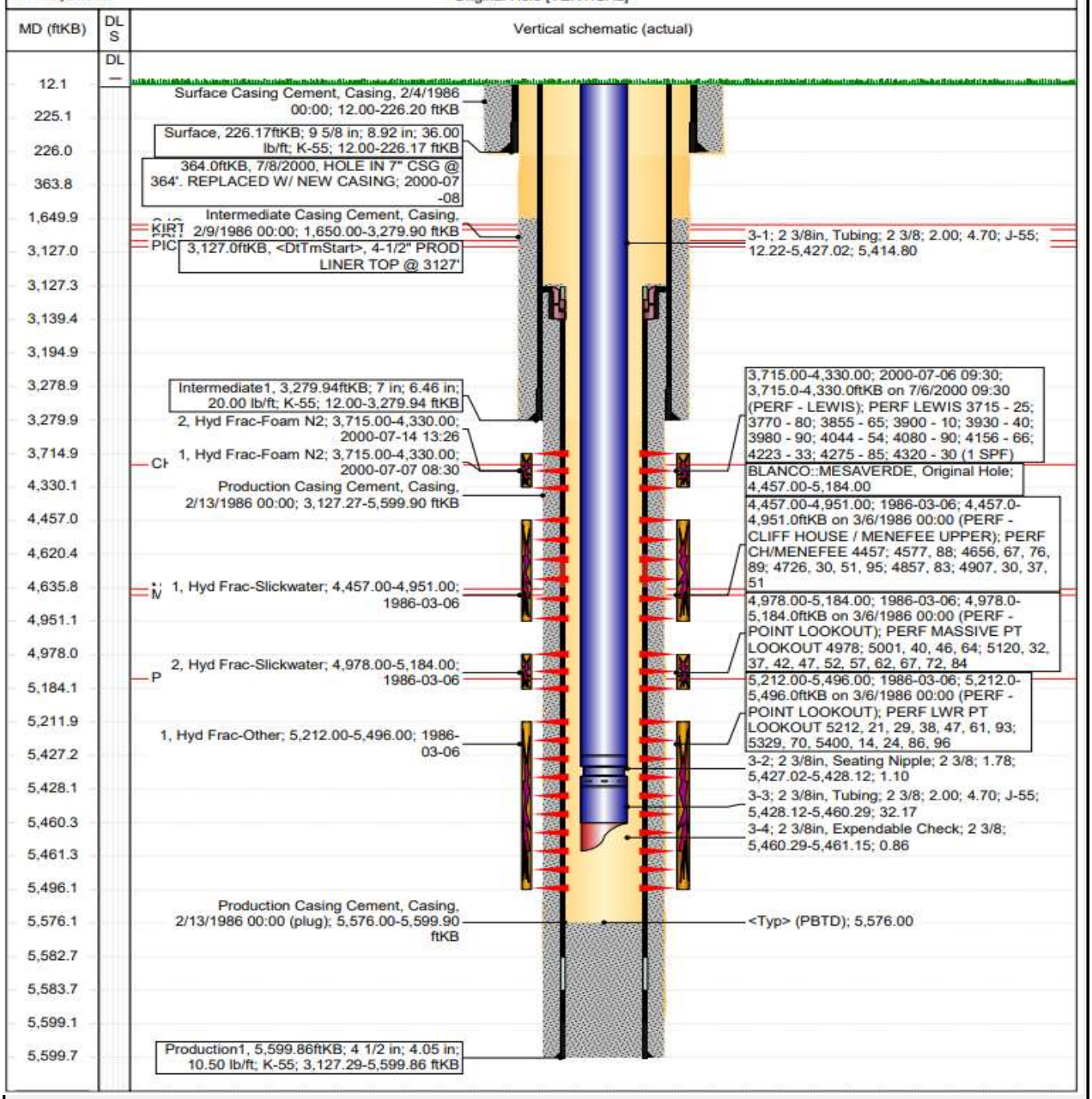
**San Juan 29-7 Unit 80A - CURRENT WELLBORE SCHEMATIC**

**Well Name: SAN JUAN 29-7 UNIT #80A**

| API / UWI | Lahee | Area | Field Name | Route | License No. | State/Province |
|---|---|---|---|---|---|---|
| 3003923882 | | AREA 10 | BLANCO MESAVERDE (PRORAT... | 1000 | | NEW MEXICO |

| Ground Elevation (ft) | Casing Flange Elevation (ft) | RKB to GL (ft) | KB-Casing Flange Distance (ft) | Original Spud Date | Rig Release Date |
|---|---|---|---|---|---|
| 6,118.00 | | 12.00 | | 2/3/1986 00:00 | 3/15/2002 11:45 |

**TD: 5,600.0** Original Hole [VERTICAL]



# HILCORP ENERGY COMPANY
## San Juan 29-7 Unit 80A
## RECOMPLETION SUNDRY

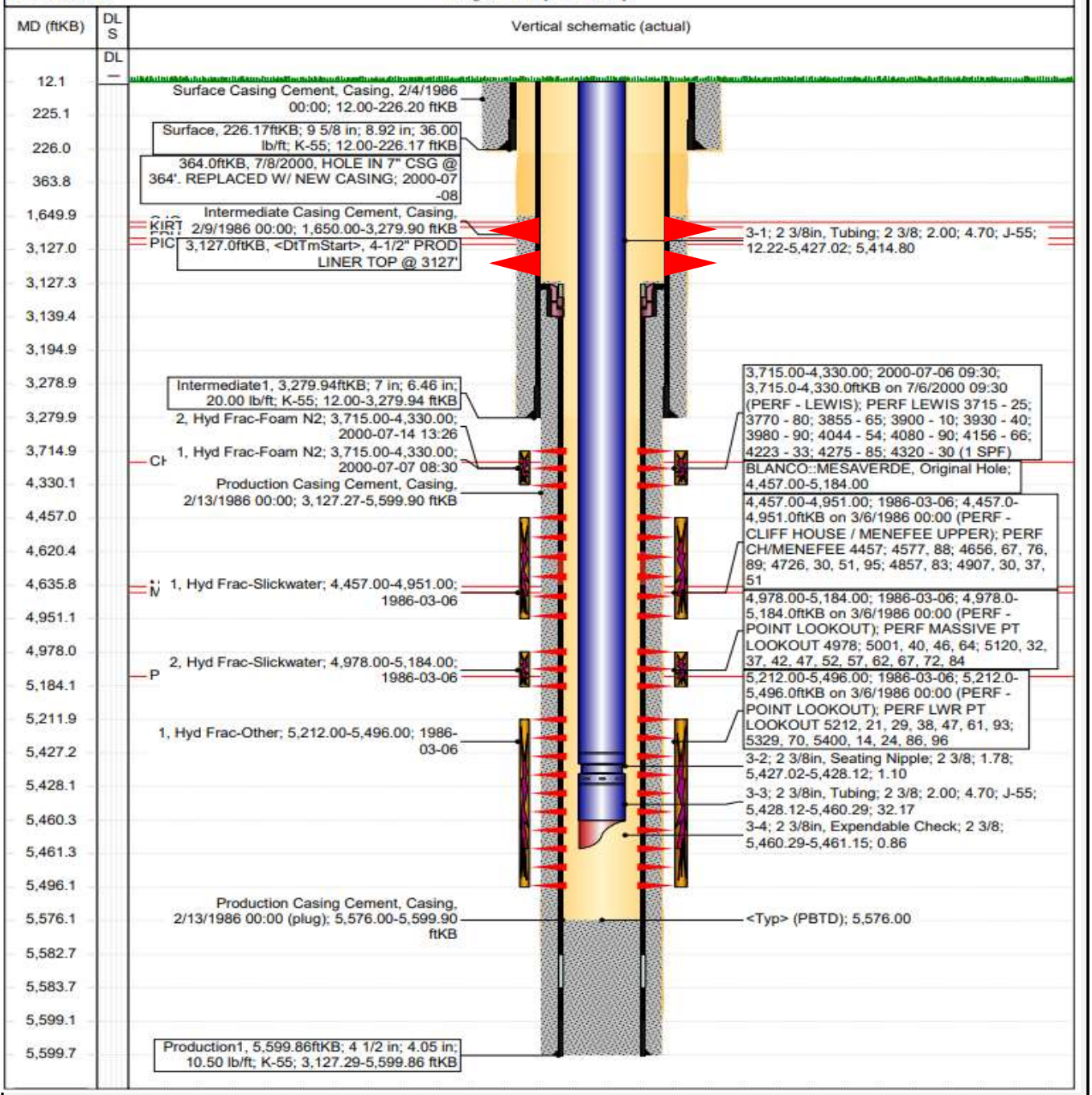
**San Juan 29-7 Unit 80A - Proposed Schematic**

**Well Name: SAN JUAN 29-7 UNIT #80A**

| API / UWI | Lahee | Area | Field Name | Route | License No. | State/Province |
|---|---|---|---|---|---|---|
| 3003923882 | | AREA 10 | BLANCO MESAVERDE (PRORAT... | 1000 | | NEW MEXICO |

| Ground Elevation (ft) | Casing Flange Elevation (ft) | RKB to GL (ft) | KB-Casing Flange Distance (ft) | Original Spud Date | Rig Release Date |
|---|---|---|---|---|---|
| 6,118.00 | | 12.00 | | 2/3/1986 00:00 | 3/15/2002 11:45 |

**TD: 5,600.0** Original Hole [VERTICAL]



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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 359853

## WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1. API Number | 2. Pool Code | 3. Pool Name |
|---|---|---|
| 30-039-23882 | 71629 | BASIN FRUITLAND COAL (GAS) |
| **4. Property Code** | **5. Property Name** | **6. Well No.** |
| 318713 | SAN JUAN 29 7 UNIT | 080A |
| **7. OGRID No.** | **8. Operator Name** | **9. Elevation** |
| 372171 | HILCORP ENERGY COMPANY | 6123 |

**10. Surface Location**

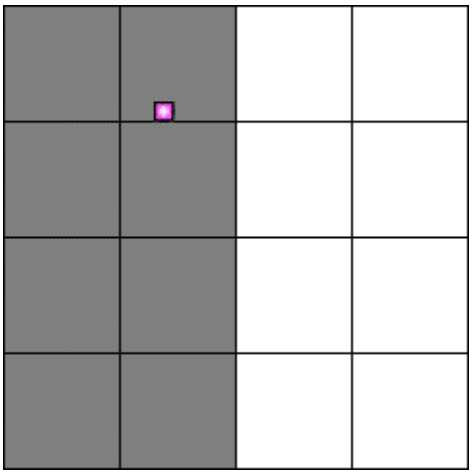
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| C | 9 | 29N | 07W | | 1190 | N | 1810 | W | RIO ARRIBA |

**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: 2/15/2024

### 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: 9/17/1985
Certificate Number: 3950

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

Form C-102
August 1, 2011

Permit 359853

## WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1. API Number | 2. Pool Code | 3. Pool Name |
|---|---|---|
| 30-039-23882 | 72359 | BLANCO PICTURED CLIFFS (GAS) |
| **4. Property Code** | **5. Property Name** | **6. Well No.** |
| 318713 | SAN JUAN 29 7 UNIT | 080A |
| **7. OGRID No.** | **8. Operator Name** | **9. Elevation** |
| 372171 | HILCORP ENERGY COMPANY | 6123 |

**10. Surface Location**

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| C | 9 | 29N | 07W | | 1190 | N | 1810 | 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 | | | |

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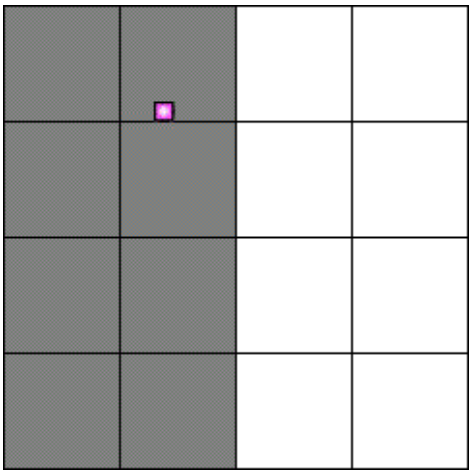

### OPERATOR CERTIFICATION

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E-Signed By: Cherylene Weston
Title: Operations/Regulatory Tech-Sr.
Date: 2/15/2024

### 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: 9/17/1985
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 Energy Company **OGRID:** 372171 **Date:** 02 / 15 /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 |
|---|---|---|---|---|---|---|
| SJ 29-7 Unit 80A | 303923882 | C-9-29N-07W | 1190 FNL & 1810 FWL | 0 bbl/d | 205 mcf/d | 1 bbl/d |
| | | | | | | |

**IV. Central Delivery Point Name:** Chaco-Blanco 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 |
|---|---|---|---|---|---|---|
| SJ 29-7 Unit 80A | 3003923882 | | | | | 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: | 2/15/2024 |
| 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.

Hilcorp

May 7, 2024

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: C-107A (Downhole Commingle)
San Juan 29-7 Unit 80A
API No. 30-039-23882
Section 09, T29N, R07W
Rio Arriba County, NM

Concerning Hilcorp Energy Company's C-107A application to downhole commingle production in the subject well, this letter serves to confirm the following:

Interest is diverse between the formations listed below:

- *Fruitland Coal Pool Code: 71629*
- *Blanco Pictured Cliffs Pool Code:72359*
- *Blanco Mesaverde Pool Code: 72319*

Order No. R-10697 waives the notice requirement and thus no notices will be sent.

The subject well is located within the bounds of a Federal Unit. Therefore, pursuant to Subsection C. (1) of 19.15.12.11 NMAC, written notice has been sent to the Bureau of Land Management as of the date of this letter.

If you have any questions or concerns, please contact the undersigned using the information provided below.

Sincerely,

By: HILCORP ENERGY COMPANY,
Its General Partner

Chuck Creekmore

Charles E (Chuck) Creekmore
Division Landman
Hilcorp Energy Company
1111 Travis Street, Houston TX 77002
PO Box 61229, Houston TX 77208-1229
Main: 713/209-2400; Direct: 832/839-4601 Cell: 505/320-9910; Fax: 713/209-2420
ccreekmore@hilcorp.com

**From:** Cheryl Weston
**To:** Lowe, Leonard, EMNRD; McClure, Dean, EMNRD
**Cc:** Mandi Walker
**Subject:** FW: [EXTERNAL] Well Distance & TDS level difference = WELL:McClanahan 17E
**Date:** Thursday, July 18, 2024 8:19:55 AM
**Attachments:** image003.png
image004.png
image005.png

Leonard:

Please see response below from Hilcorp Reservoir Engineer. Please le us know if you have further questions.

Thank you,
Cheryl

**From:** Griffin Selby <Griffin.Selby@hilcorp.com>
**Sent:** Wednesday, July 17, 2024 5:45 PM
**To:** Cheryl Weston <cweston@hilcorp.com>; Glory Kamat <Glory.Kamat@hilcorp.com>; Jackson Lancaster <Jackson.Lancaster@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>
**Subject:** RE: [EXTERNAL] Well Distance & TDS level difference = WELL:McClanahan 17E

Cheryl,

Distances to wells are listed below.

| FORMATION | API | DISTANCE FROM MCCLANAHAN 17E (MILES) |
|---|---|---|
| DK Offset | 3004507289 | 1.5 |
| MV OFFSET | 3004507573 | 2 |
| CH OFFSET | 3004529902 | 1.3 |
| FC OFFSET | 3004534848 | 1.0 |

We do not believe the well's production will be harmed by difference in TDS. Let me know if there are any further questions. Thanks.

**From:** Cheryl Weston <cweston@hilcorp.com>
**Sent:** Tuesday, July 16, 2024 11:19 AM
**To:** Griffin Selby <Griffin.Selby@hilcorp.com>; Glory Kamat <Glory.Kamat@hilcorp.com>; Jackson Lancaster <Jackson.Lancaster@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>
**Subject:** Fwd: [EXTERNAL] Well Distance & TDS level difference = WELL:McClanahan 17E

Griffin,

See Leonard's request below and question on TDS.

Cheryl

Get Outlook for iOS

**From:** Lowe, Leonard, EMNRD <Leonard.Lowe@emnrd.nm.gov>
**Sent:** Tuesday, July 16, 2024 11:16:53 AM
**To:** Cheryl Weston <cweston@hilcorp.com>
**Subject:** [EXTERNAL] Well Distance & TDS level difference = WELL:McClanahan 17E



Ms. Cheryl Weston,

How far away are the wells below, located from the McClanahan 17E well?

| Well Name | API |
|---|---|
| McClanahan 17E | 3004523750 |

| | | DK Offset | | MV OFFSET | | CH OFFSET | | FC OFFSET | |
|---|---|---|---|---|---|---|---|---|---|
| API | | API | 3004507289 | API | 3004507573 | API | 3004529902 | API | 3004534848 |

The TDS for the 30-045-07573 well has about 11,300 TDS level difference. Do you believe this will not harm the well's production?

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| OtherTDS | | OtherTDS | 18800 | OtherTDS | 709.98 | OtherTDS | 14936 | OtherTDS | 2295.28 |

**Leonard R. Lowe**
Engineering Bureau
OCD - EMNRD
8801 Horizon Blvd NE
Albuquerque, N.M. 87113
CELL NUMBER: 505-584-8351
http://www.emnrd.state.nm.us/ocd/

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**From:** Cheryl Weston
**To:** McClure, Dean, EMNRD; Lowe, Leonard, EMNRD
**Subject:** FW: [EXTERNAL] FW: Action ID: 342858; DHC-5393
**Date:** Wednesday, July 3, 2024 1:40:45 PM
**Attachments:** SJ 28-7 Unit 159M_Gas Analysis.pdf
SJ 28-7 Unit 159M_Water Analysis.pdf

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Leonard,

Please see the attached water and gas analysis taken from closer wells. Let me know if you have any questions or need anything else.

Thanks,
Cheryl

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**From:** Ray Brandhurst <rbrandhurst@hilcorp.com>
**Sent:** Friday, June 28, 2024 4:01 PM
**To:** Cheryl Weston <cweston@hilcorp.com>; Marcus Hill <Marcus.Hill@hilcorp.com>
**Subject:** RE: [EXTERNAL] FW: Action ID: 342858; DHC-5393

Cheryl,

Can you please send the attached water and gas analyses from this spreadsheet. The water makeup and gas content does not materially change between those areas.

Thanks,

Ray Brandhurst, P.E.
San Juan South Reservoir Engineer
Hilcorp Energy Company
713-757-5224 office
713-476-2843 cell

---

**From:** Lowe, Leonard, EMNRD <Leonard.Lowe@emnrd.nm.gov>
**Sent:** Thursday, June 27, 2024 4:15 PM
**To:** Cheryl Weston <cweston@hilcorp.com>
**Cc:** McClure, Dean, EMNRD <Dean.McClure@emnrd.nm.gov>
**Subject:** [EXTERNAL] FW: Action ID: 342858; DHC-5393

To whom it may concern (c/o Cherylene Weston for Hilcorp Energy Company),

The Division is reviewing the following application:

| | |
|---|---|
| Action ID | 342858 |
| Admin No. | DHC-5393 |
| Applicant | Hilcorp Energy Company (372171) |
| Title | San Juan 29 7 Unit Well No. 80A |
| Sub. Date | 05/10/2024 |

Please provide the following additional supplemental documents:

-

Please provide additional information regarding the following:

- For the water sample from the MV pool, the 30-039-07507 SAN JUAN 29 5 UNIT #005X was selected which is ~ 13 miles from the well of interest. Please provide a water sample from a well nearer to the well of interest or else provide an explanation for why this well was selected.
- For the gas sample from the FLC pool, the 30-039-24382 SAN JUAN 28 5 UNIT NP #204 was selected which is ~ 11.5 miles from the well of interest. Please provide a gas sample from a well nearer to the well of interest or else provide an explanation for why this well was selected.

Additional notes:

-

All additional supplemental documents and information may be provided via email and should be done by replying to this email. The produced email chain will be uploaded to the file for this application.

Please note that failure to take steps to address each of the requests made in this email within 10 business days of receipt of this email may result in the Division rejecting the application requiring the submittal of a new application by the applicant once it is prepared to address each of the topics raised.

**Leonard R. Lowe**
Engineering Bureau
OCD - EMNRD
8801 Horizon Blvd NE
Albuquerque, N.M. 87113
CELL NUMBER: 505-584-8351
http://www.emnrd.state.nm.us/ocd/

# E-MAIL ATTACHMENT ONE

**Gas Compatibility in the San Juan Basin**

- The San Juan basin has productive siliciclastic reservoirs (Pictured Cliffs, Blanco Mesaverde, Basin Dakota, etc.) ar reservoir (Basin Fruitland Coal).
- These siliciclastic and coalbed methane reservoirs are commingled extensively throughout the basin in many differ 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 28-7 UNIT 159M | 3003925572 |

| FRC Offset | | PC Offset | | MV Offset | |
|---|---|---|---|---|---|
| AssetCode | 3003924913 | AssetCode | 3003926445 | AssetCode | 3003926072 |
| AssetName | SJ 29-7 UNIT 559 | AssetName | SJ 28-7 UNIT 272 | AssetName | SJ 29-7 UNIT 50B |
| CO2 | 0.01 | CO2 | 0.01 | CO2 | 0.01 |
| N2 | 0 | N2 | 0 | N2 | 0 |
| C1 | 0.87 | C1 | 0.81 | C1 | 0.81 |
| C2 | 0.07 | C2 | 0.09 | C2 | 0.1 |
| C3 | 0.04 | C3 | 0.04 | C3 | 0.04 |
| ISOC4 | 0.01 | ISOC4 | 0.01 | ISOC4 | 0.01 |
| NC4 | 0 | NC4 | 0.01 | NC4 | 0.01 |
| ISOC5 | 0 | ISOC5 | 0.01 | ISOC5 | 0 |
| NC5 | 0 | NC5 | 0 | NC5 | 0 |
| NEOC5 | | NEOC5 | | NEOC5 | |
| C6 | | C6 | | C6 | |
| C6_PLUS | 0 | C6_PLUS | 0.01 | C6_PLUS | 0.01 |
| C7 | | C7 | | C7 | |
| C8 | | C8 | | C8 | |
| C9 | | C9 | | C9 | |
| C10 | | C10 | | C10 | |
| AR | | AR | | AR | |
| CO | | CO | | CO | |
| H2 | | H2 | | H2 | |
| O2 | | O2 | | O2 | |
| H20 | | H20 | | H20 | |
| H2S | | H2S | | H2S | |
| HE | | HE | | HE | |
| C_O_S | | C_O_S | | C_O_S | |
| CH3SH | | CH3SH | | CH3SH | |
| C2H5SH | | C2H5SH | | C2H5SH | |
| CH2S3_2CH3S | | CH2S3_2CH3S | | CH2S3_2CH3S | |
| CH2S | | CH2S | | CH2S | |
| C6HV | | C6HV | | C6HV | |
| CO2GPM | 0 | CO2GPM | 0 | CO2GPM | 0 |
| N2GPM | 0 | N2GPM | 0 | N2GPM | 0 |
| C1GPM | 0 | C1GPM | 0 | C1GPM | 0 |
| C2GPM | 1.85 | C2GPM | 2.51 | C2GPM | 2.55 |
| C3GPM | 1 | C3GPM | 1.2 | C3GPM | 1.16 |
| ISOC4GPM | 0.2 | ISOC4GPM | 0.3 | ISOC4GPM | 0.26 |
| NC4GPM | 0.15 | NC4GPM | 0.4 | NC4GPM | 0.38 |
| ISOC5GPM | 0.05 | ISOC5GPM | 0.19 | ISOC5GPM | 0.16 |
| NC5GPM | 0.02 | NC5GPM | 0.12 | NC5GPM | 0.12 |
| C6_PLUSGPM | 0.04 | C6_PLUSGPM | 0.31 | C6_PLUSGPM | 0.36 |

ıd a productive coalbed methane

ent combinations with no observed

| DK Offset | |
|---|---|
| AssetCode | 3003920373 |
| AssetName | SJ 28-6 UNIT 156 |
| CO2 | 0.01 |
| N2 | 0 |
| C1 | 0.92 |
| C2 | 0.04 |
| C3 | 0.01 |
| ISOC4 | 0 |
| NC4 | 0 |
| ISOC5 | 0 |
| NC5 | 0 |
| NEOC5 | |
| C6 | |
| C6_PLUS | 0.01 |
| C7 | |
| C8 | |
| C9 | |
| C10 | |
| AR | |
| CO | |
| H2 | |
| O2 | |
| H20 | |
| H2S | |
| HE | |
| C_O_S | |
| CH3SH | |
| C2H5SH | |
| CH2S3_2CH3S | |
| CH2S | |
| C6HV | |
| CO2GPM | 0 |
| N2GPM | 0 |
| C1GPM | 0 |
| C2GPM | 1.19 |
| C3GPM | 0.27 |
| ISOC4GPM | 0.1 |
| NC4GPM | 0.08 |
| ISOC5GPM | 0.07 |
| NC5GPM | 0.03 |
| C6_PLUSGPM | 0.27 |

# E-MAIL ATTACHMENT TWO

**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 28-7 UNIT 159M | 3003925572 |

| FRC Offset | | PC Offset | | MV Offset | | DK Offset | |
|---|---|---|---|---|---|---|---|
| API | 3003925112 | API | 3003925897 | API | 3003922063 | API | 3003927006 |
| Property | SJ 28-7 UNIT 403 | Property | SJ 29-7 UNIT 166 | Property | SJ 28-7 UNIT 44A | Property | SJ 28-7 UNIT 241F |
| CationBarium | 0 | CationBarium | 0 | CationBarium | 0 | CationBarium | 0 |
| CationBoron | | CationBoron | | CationBoron | | CationBoron | |
| CationCalcium | 2.2 | CationCalcium | 80 | CationCalcium | 36.8 | CationCalcium | 10.1 |
| CationIron | 5.2 | CationIron | 62.1 | CationIron | 10.9 | CationIron | 12.3 |
| CationMagnesium | 0.32 | CationMagnesium | 19.5 | CationMagnesium | 0.46 | CationMagnesium | 6.5 |
| CationManganese | 0.1 | CationManganese | 1.98 | CationManganese | 0.15 | CationManganese | 0.1 |
| CationPhosphorus | | CationPhosphorus | | CationPhosphorus | | CationPhosphorus | |
| CationPotassium | | CationPotassium | | CationPotassium | | CationPotassium | |
| CationStrontium | 0 | CationStrontium | 0 | CationStrontium | 0 | CationStrontium | 0 |
| CationSodium | 1164.2 | CationSodium | 762.8 | CationSodium | 1510 | CationSodium | 581.2 |
| CationSilica | | CationSilica | | CationSilica | | CationSilica | |
| CationZinc | | CationZinc | | CationZinc | | CationZinc | |
| CationAluminum | | CationAluminum | | CationAluminum | | CationAluminum | |
| CationCopper | | CationCopper | | CationCopper | | CationCopper | |
| CationLead | | CationLead | | CationLead | | CationLead | |
| CationLithium | | CationLithium | | CationLithium | | CationLithium | |
| CationNickel | | CationNickel | | CationNickel | | CationNickel | |
| CationCobalt | | CationCobalt | | CationCobalt | | CationCobalt | |
| CationChromium | | CationChromium | | CationChromium | | CationChromium | |
| CationSilicon | | CationSilicon | | CationSilicon | | CationSilicon | |
| CationMolybdenum | | CationMolybdenum | | CationMolybdenum | | CationMolybdenum | |
| AnionChloride | 1700 | AnionChloride | 1200 | AnionChloride | 2300 | AnionChloride | 800 |
| AnionCarbonate | 0 | AnionCarbonate | 0 | AnionCarbonate | 0 | AnionCarbonate | 0 |
| AnionBicarbonate | 183 | AnionBicarbonate | 427 | AnionBicarbonate | 195.2 | AnionBicarbonate | 244 |
| AnionBromide | | AnionBromide | | AnionBromide | | AnionBromide | |
| AnionFluoride | | AnionFluoride | | AnionFluoride | | AnionFluoride | |
| AnionHydroxyl | | AnionHydroxyl | | AnionHydroxyl | | AnionHydroxyl | |
| AnionNitrate | | AnionNitrate | | AnionNitrate | | AnionNitrate | |
| AnionPhosphate | 925.6 | AnionPhosphate | | AnionPhosphate | 1001.6 | AnionPhosphate | 24.2 |
| AnionSulfate | 10 | AnionSulfate | 80 | AnionSulfate | 10 | AnionSulfate | 10 |
| phField | 6.73 | phField | | phField | 6.91 | phField | |
| phCalculated | 7.01 | phCalculated | 6.83 | phCalculated | 7.43 | phCalculated | 6.35 |
| TempField | | TempField | | TempField | | TempField | |
| TempLab | | TempLab | | TempLab | | TempLab | |
| OtherFieldAlkalinity | 7991.88 | OtherFieldAlkalinity | 342.16 | OtherFieldAlkalinity | 305.5 | OtherFieldAlkalinity | |
| OtherSpecificGravity | 1 | OtherSpecificGravity | | OtherSpecificGravity | 1.01 | OtherSpecificGravity | 1 |
| OtherTDS | 2962 | OtherTDS | 2435 | OtherTDS | 3959 | OtherTDS | 1519 |
| OtherCaCO3 | 12113.31 | OtherCaCO3 | | OtherCaCO3 | 6907.59 | OtherCaCO3 | 3110.42 |
| OtherConductivity | | OtherConductivity | | OtherConductivity | | OtherConductivity | |
| DissolvedCO2 | 360 | DissolvedCO2 | | DissolvedCO2 | 410 | DissolvedCO2 | 200 |
| DissolvedO2 | | DissolvedO2 | | DissolvedO2 | | DissolvedO2 | |
| DissolvedH2S | 40 | DissolvedH2S | 13 | DissolvedH2S | 15 | DissolvedH2S | 6 |
| GasPressure | | GasPressure | | GasPressure | | GasPressure | |
| GasCO2 | 8 | GasCO2 | 4 | GasCO2 | 10 | GasCO2 | 8 |
| GasCO2PP | | GasCO2PP | | GasCO2PP | | GasCO2PP | |
| GasH2S | 0 | GasH2S | 0 | GasH2S | 6 | GasH2S | 0 |
| GasH2SPP | | GasH2SPP | | GasH2SPP | | GasH2SPP | |
| PitzerCaCO3_70 | | PitzerCaCO3_70 | | PitzerCaCO3_70 | | PitzerCaCO3_70 | |
| PitzerBaSO4_70 | | PitzerBaSO4_70 | | PitzerBaSO4_70 | | PitzerBaSO4_70 | |
| PitzerCaSO4_70 | | PitzerCaSO4_70 | | PitzerCaSO4_70 | | PitzerCaSO4_70 | |
| PitzerSrSO4_70 | | PitzerSrSO4_70 | | PitzerSrSO4_70 | | PitzerSrSO4_70 | |
| PitzerFeCO3_70 | | PitzerFeCO3_70 | | PitzerFeCO3_70 | | PitzerFeCO3_70 | |
| PitzerCaCO3_220 | | PitzerCaCO3_220 | | PitzerCaCO3_220 | | PitzerCaCO3_220 | |
| PitzerBaSO4_220 | | PitzerBaSO4_220 | | PitzerBaSO4_220 | | PitzerBaSO4_220 | |
| PitzerCaSO4_220 | | PitzerCaSO4_220 | | PitzerCaSO4_220 | | PitzerCaSO4_220 | |
| PitzerSrSO4_220 | | PitzerSrSO4_220 | | PitzerSrSO4_220 | | PitzerSrSO4_220 | |
| PitzerFeCO3_220 | | PitzerFeCO3_220 | | PitzerFeCO3_220 | | PitzerFeCO3_220 | |

**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



## CONDITIONS

| | |
|---|---|
| Operator:<br>HILCORP ENERGY COMPANY<br>1111 Travis Street<br>Houston, TX 77002 | OGRID:<br>372171 |
| | Action Number:<br>342858 |
| | Action Type:<br>[C-107] Down Hole Commingle (C-107A) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| llowe | None | 5/29/2024 |