Received by OCD: 4/4/2024 9:49:03 AM

| ID | NO. 330054 |] | DHC - | 5419 | | Revised March 23, 2017 |
|--------|--|--|---|---|--|--|
| RE | 04/04/24 | REVIEWER: | TYF | PE: | | EL2420639470 |
| | 1 | - Geolog 220 South St. F | CO OIL CC ical & Engi trancis Driv | DNSERVATION Ineering Bure e, Santa Fe, | I DIVISION eau – NM 87505 | • TT DEFENSION |
| | | ADMINIST T IS MANDATORY FOR A REGULATIONS WHICH F | ALL ADMINISTRAT | | OR EXCEPTIONS TO D | ivision rules and |
| Well | licant: Hilcorp Energy Name: San Juan 30-5 Basin Fruitland Coal | | | | API: <u>30-0</u> | Number: <u>372171</u> 39-30255 ode: <u>71629</u> |
| | JBMIT ACCURATE AN TYPE OF APPLICATIO | | | ED BELOW | O PROCESS THI | E TYPE OF APPLICATION |
| ') | A. Location – Space NSL B. Check one onl [1] Comminglin | cing Unit – Simu NSPa y for [1] or [11] ng – Storage – N CTB [Disposal – Press | Iltaneous De project area) Measureme PLC | edication NSP(proration) nt C DOLS e – Enhanced | | |
| 2) | A. Offset opera B. Royalty, ove C. Application D. Notification E. Notification F. Surface owr | IRED TO: Check ators or lease ho erriding royalty o requires publish and/or concurn and/or concurn ner above, proof o | k those which olders owners, reve ned notice rent approv rent approv | ch apply. enue owners val by SLO val by BLM | | FOR OCD ONLY Notice Complete Application Content Complete d, and/or, |
| a l | CERTIFICATION: I her administrative appro understand that no notifications are sub | oval is accurate action will be ta | and comp aken on this | lete to the be | st of my know | ledge. I also |

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

Amanda Walker

Print or Type Name

4/4/2024 Date

346-237-2177

Phone Number

mwalker@hilcorp.com e-mail Address

| Albuther |
|----------|
| <u> </u> |

Signature

Received by OCD: 4/4/2024 9:49:03 AM

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

APPLICATION TYPE Single Well

Form C-107A

Revised August 1, 2011

Page 2 of 33

APPLICATION FOR DOWNHOLE COMMINGLING

Establish Pre-Approved Pools EXISTING WELLBORE <u>x</u> Yes <u>No</u>

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

| Operator | | Address | |
|--------------------|----------|------------------------------------|------------|
| San Juan 30-5 Unit | 78N | O 07, 30N, 05W | Rio Arriba |
| Lease | Well No. | Unit Letter-Section-Township-Range | County |

OGRID No. 372171 Property Code 318433 API No. 30-039-30255 Lease Type: Federal State X Fee

| DATA ELEMENT | UPPER | ZONE | | INTERMEDIATE ZONE | | LOWER ZONE | | | |
|--|---|------------|----------|--|------------------|---|-----|-----------------|---|
| Pool Name | Basin Frui | tland Coal | | В | Blanco Mesaverde | | E | Basin Dakota | |
| Pool Code | 710 | 529 | | | 72319 | | | 71599 | |
| Top and Bottom of Pay Section (Perforated or Open-Hole Interval) | Est 2831 | - 3082' | | | 5157' – 5563' | | 76 | 30' - 7715 | |
| Method of Production (Flowing or Artificial Lift) | Artific | ial Lift | | | Artificial Lift | | A | 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) | 45 | psi | | | 81 psi | | | 102 psi | |
| Oil Gravity or Gas BTU (Degree API or Gas BTU) | 821 BTU | | 1029 BTU | | | 990 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: Oil: Gas: Water: | | | Date: 01/01/2024 Rates: Oil: 0 bbls Gas: 1944 mcf Water: 52 bbls | | Date: 01/01/2024 Rates: Oil: 0 bbls Gas: 581 mcf Water: 52 bbls | | | |
| Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.) | Oil % | Gas | % | Oil | Gas % | % | Oil | Gas % | % |

ADDITIONAL DATA

| Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? | Yes Yes | No <u>×</u> No <u>x- See Be</u> low |
|--|------------|--|
| Are all produced fluids from all commingled zones compatible with each other? | Yes | No |
| Will commingling decrease the value of production? | Yes | Nox |
| 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 | No_x - FEE |
| NMOCD Reference Case No. applicable to this well: By Order R-10771 interest owners were not re-notified. | | |

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 | |
|-------------|--|
| SIGINI CIUL | |

_TITLE_Operations/Regulatory Technician Sr. DATE 8/13/2024

TYPE OR PRINT NAME Amanda Walker

TELEPHONE NO. (346) 237-2177

E-MAIL ADDRESS <u>mwalker@hilcorp.com</u>

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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 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.

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:

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

| List of wells used to calculate BHPs for the Project: | | | | | | | |
|---|-------------------------|-----|--|--|--|--|--|
| 3003927765 | SAN JUAN 30-5 UNIT 202A | FRC | | | | | |
| 3003925607 | SAN JUAN 30-6 UNIT 29A | MV | | | | | |
| 3003922159 | SAN JUAN 30-5 UNIT 38 | 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.

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 ananlysis.



HEC Comments

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 basinwide Moving-Domain Material Balance models that have proven to approximate the pressure in the given reservoirs well in this portion of the basin. 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 formation using historic production. All production from this well exceeding the forecast will be allocated to the new formation. After 3 years production will stabilize. A production average will be gathered during the 4th year and will be utilized to create a fixed percentage based allocation.

Hilcorp intends to continue to allocate the projected base production on the same fixed percentages to the following pools 77% (Mesaverde) 23% (Dakota) while the subtraction method is being used to determine the allocation to the new zone.





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 adjust as needed based on average formation yields and new fixed gas allocation.

| Formation | Yield (bbl/MM) | Remaining Reserves (MMcf) | % Oil Allocation | |
|-----------|----------------|---------------------------|------------------|--|
| MV | 0 | 527 | 0% | |
| DK | 0 | 134 | 0% | |
| FRC | 0 | 967 | 0% | |
| | | | 0% | |

There has been no oil production from the existing zones and no oil production is anticipated in the recompleted zone (FRC). Therefore, oil allocation percentage is 0% for all three zones.

All documentation will be submitted to NMOCD.





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| | Fruit | land Coal | | | 0 | BO/MMCF |
|--------------------------------------|---------------------------|------------------------|-----------------------------------|-------------------------|-----------------------------|---|
| SAN JUAN 31-6 U | IN 210 | SAN JUAN 31-6 UN 201 0 | SAN JUA | N 30-5 UN 202 | SAN 0 | |
| •• | | | 0 UAN 30-5 UN 20 3 A | | | 0 - 1 1.0-2.0 2.0-3.0 3.0-4.0 4.0-5.0 |
| | | | | | | 4.0-5.0 5.0-6.0 6.0-7.0 |
| SAN JUAN 31-61 0 SAN JUAN 31-6 | | | | 02A SAN 0 | | 7.0-8.0 |
| • HT SURT 31-0 | | | | • | | N JU == 9.0-10.0 10.0-11.0 11.0-12.0 |
| SAN JUAN 30- | | | | | | JUA 12.0-13.0 |
| • | | | SAN JUAN 0 | 00-5 UN 204 | SAN JUA SAN JUAN 30-5 UN | |
| | SAN JUAN 30-6 UNM 0 | | | | | 17.0-18.0 |
| | 5 5an juan 30-6 un 434 | SAN JI | JAN 30-5 UN 078 | M sa | | - |
| · · | | | 0 BO/MMCF | | N 30-5 UN 215A | |
| SAN JUAN 30- 0 | | 5 SAN JUAN 30-5 UN 20 | | | | |
| | • • | | | | | |
| | 0 | | SAN JUAN 3 0 10 30-5 UN 207 | | SAN JUAN 30- | 5 UN 219R 0 0 |
| | | | | | | |
| SAN JUAN 30-6 UN | A25 | SAN JUAN 30-6 UN 4355 | | | | 1 JUAN 30-5 UN 218A |
| | | • | | | 1 30-5 UN 224 | |
| S.A) 0 | | | | SAN JUAN 30-5 UN 2 0 | | |
| AN JUAN 30-6 UN 486 | | | JAN 30-5 UN 201A, SAN J 0 | | | |
| 0 | SAN JUAN 30-6 UM 0 | | | | | UAN 30-5 UN 217A 0 |
| | к = | | | | | |

Water 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.

- The samples below all show fresh water with low TDS.

| Well Name | API |
|------------------------|------------|
| SAN JUAN 30-5 UNIT 78N | 3003930255 |

| FRC | Offset 0.83 miles | MV | Offset 1.58 miles | DK | Offset 1.88 miles |
|---------------------------------------|-------------------|----------------------|-------------------|----------------------|-----------------------|
| API | 3003924790 | | 3003918201 | | 3003921070 |
| Property | | Property | | Property | SAN JUAN 30-5 UNIT 47 |
| CationBarium | | CationBarium | | CationBarium | |
| CationBoron | 2017 | CationBoron | 2.00 | CationBoron | |
| CationCalcium | 24.6 | CationCalcium | 303 | CationCalcium | 2.16 |
| CationIron | | CationIron | | CationIron | 12.1 |
| CationMagnesium | | CationMagnesium | | CationMagnesium | 28.6 |
| CationManganese | | CationManganese | | CationManganese | 20.0 |
| CationPhosphorus | | CationPhosphorus | 0.70 | CationPhosphorus | |
| · · · · · · · · · · · · · · · · · · · | | CationPotassium | 05.4 | CationPotassium | |
| CationPotassium | | CationStrontium | | CationStrontium | |
| CationStrontium | | | | | 2100 |
| CationSodium | | CationSodium | | CationSodium | 2190 |
| CationSilica | | CationSilica | | CationSilica | |
| CationZinc | 2 | CationZinc | 2 | CationZinc | |
| CationAluminum | | CationAluminum | | CationAluminum | |
| CationCopper | | CationCopper | | CationCopper | |
| CationLead | 2 | CationLead | 2 | CationLead | |
| CationLithium | | CationLithium | | CationLithium | |
| CationNickel | | CationNickel | | CationNickel | |
| CationCobalt | | CationCobalt | | CationCobalt | |
| CationChromium | | CationChromium | | CationChromium | |
| CationSilicon | 10 | CationSilicon | 126 | CationSilicon | |
| CationMolybdenum | | CationMolybdenum | | CationMolybdenum | |
| AnionChloride | 4190 | AnionChloride | 81.4 | AnionChloride | 865 |
| AnionCarbonate | | AnionCarbonate | | AnionCarbonate | 10 |
| AnionBicarbonate | | AnionBicarbonate | | AnionBicarbonate | 545 |
| AnionBromide | 0000 | AnionBromide | 1000 | AnionBromide | 010 |
| AnionFluoride | | AnionFluoride | | AnionFluoride | |
| AnionHydroxyl | 10 | AnionHydroxyl | 10 | AnionHydroxyl | |
| AnionNitrate | 10 | AnionNitrate | 10 | AnionNitrate | |
| | 20.4 | | | AnionPhosphate | |
| AnionPhosphate | | AnionPhosphate | 0/ | AnionSulfate | 2/10 |
| AnionSulfate | | AnionSulfate | 90 | | 3610 |
| phField | | phField | 0.00 | phField | |
| phCalculated | | phCalculated | 9.39 | phCalculated | |
| TempField | 82 | TempField | | TempField | |
| TempLab | | TempLab | | TempLab | |
| OtherFieldAlkalinity | | OtherFieldAlkalinity | | OtherFieldAlkalinity | |
| OtherSpecificGravity | | OtherSpecificGravity | | OtherSpecificGravity | |
| OtherTDS | | OtherTDS | | OtherTDS | 7510 |
| OtherCaCO3 | | OtherCaCO3 | | OtherCaCO3 | |
| OtherConductivity | | OtherConductivity | 1790 | OtherConductivity | |
| DissolvedCO2 | 36 | DissolvedCO2 | | DissolvedCO2 | |
| DissolvedO2 | | DissolvedO2 | | DissolvedO2 | |
| DissolvedH2S | | DissolvedH2S | | DissolvedH2S | |
| GasPressure | | GasPressure | | GasPressure | |
| GasCO2 | 1 | GasCO2 | | GasCO2 | 1 |
| GasCO2PP | 1 | GasCO2PP | | GasCO2PP | 1 |
| GasH2S | 1 | GasH2S | | GasH2S | 1 |
| GasH2SPP | | GasH2SPP | | GasH2SPP | |
| PitzerCaCO3 70 | | PitzerCaCO3 70 | | PitzerCaCO3 70 | 1 |
| PitzerBaSO4_70 | 1 | PitzerBaSO4_70 | | PitzerBaSO4_70 | 1 |
| PitzerCaSO4_70 | 1 | PitzerCaSO4_70 | | PitzerCaSO4 70 | + |
| PitzerSrSO4_70 | | PitzerSrSO4_70 | | PitzerSrSO4_70 | + |
| PitzerFeCO3_70 | | PitzerFeCO3_70 | | PitzerFeCO3_70 | + |
| | | _ | | | |
| PitzerCaCO3_220 | | 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.

| Well Name | API |
|------------------------|------------|
| SAN JUAN 30-5 UNIT 78N | 3003930255 |

| F | RC Offset | | MV Offset | | DK Offset |
|-------------|------------------------|-------------|-----------------------|-------------|-----------------------|
| AssetCode | 3003924691 | AssetCode | 3003907908 | AssetCode | 3003923157 |
| AssetName | SAN JUAN 30-5 UNIT 206 | AssetName | SAN JUAN 31-6 UNIT 17 | AssetName | SAN JUAN 30-5 UNIT 87 |
| CO2 | 0.20 | CO2 | 0.02 | CO2 | 0.03 |
| N2 | 0 | N2 | 0 | N2 | 0 |
| C1 | 0.80 | C1 | 0.95 | C1 | 0.96 |
| C2 | 0 | C2 | 0.02 | C2 | 0 |
| C3 | 0 | C3 | 0.01 | C3 | 0 |
| ISOC4 | 0 | ISOC4 | 0 | ISOC4 | 0 |
| NC4 | 0 | NC4 | 0 | NC4 | 0 |
| ISOC5 | 0 | ISOC5 | 0 | ISOC5 | 0 |
| NC5 | 0 | NC5 | 0 | NC5 | 0 |
| NEOC5 | | NEOC5 | | NEOC5 | |
| С6 | 0 | C6 | 0 | C6 | 0 |
| C6_PLUS | | C6_PLUS | | C6_PLUS | |
| C7 | 0 | C7 | | C7 | |
| C8 | 0 | C8 | | C8 | |
| С9 | 0 | C9 | | C9 | |
| C10 | | C10 | | C10 | |
| AR | | AR | | AR | |
| СО | | CO | | СО | |
| H2 | | H2 | | H2 | |
| 02 | 0 | 02 | | 02 | |
| 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 | | CO2GPM | | CO2GPM | |
| N2GPM | | N2GPM | | N2GPM | |
| C1GPM | | C1GPM | | C1GPM | |
| C2GPM | | C2GPM | | C2GPM | |
| C3GPM | | C3GPM | | C3GPM | |
| ISOC4GPM | | ISOC4GPM | | ISOC4GPM | |
| NC4GPM | | NC4GPM | | NC4GPM | |
| ISOC5GPM | | ISOC5GPM | | ISOC5GPM | |
| NC5GPM | | NC5GPM | | NC5GPM | |
| C6_PLUSGPM | | C6_PLUSGPM | | C6_PLUSGPM | |

Form C-102 Permit 62923

State of New Mexico Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

District II

District I

District II

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

1000 Rio Brazos Rd., Aztec, NM 87410

1625 N. French Dr., Hobbs, NM 88240 Phone:(505) 393-6161 Fax:(505) 393-0720

1301 W. Grand Ave., Artesia, NM 88210 Phone:(505) 748-1283 Fax:(505) 748-9720

'AS DRILLED'

| _ | WELL LOCATION AND ACREAGE DEDICATION PLAT | | | | | | |
|---|---|-------------|-------------------|--|--|--|--|
| Γ | 1. API Number | 2 Pool Code | Name | | | | |
| | 30-039-30255 | 72319 | DE (PRORATED GAS) | | | | |
| Γ | 4. Property Code | 5 Prope | 6. Well No. | | | | |
| | 31327 | SAN JUAN | 078N | | | | |
| | 7. OGRID No. | 8. Opera | 9 Elevation | | | | |
| | 217817 | CONOCOPHILI | 6244 | | | | |

| - | | | | | 10 |). Surface Loo | cation | | | | |
|-------------------------------|----------|---------|--------------------|-----------|------------------------|----------------|---------|---------|---------------|----------|------------|
| | UL - Lot | Section | Township | Range | Lot Idr | Feet From | N/S L | ine Fee | et From | E/W Line | County |
| M | 0 | 7 | 30N | 05W | | 675 | S | 2 | 2075 | Е | RIO ARRIBA |
| 1-1 | 07 | | 1 | 1. Bottom | Hole I | Location If Di | fferent | From St | urface | | |
| 11 ~ | UL - Lot | Section | Township | Range | Lot Idr | Feet From | N/S L | ine Fee | et From | E/W Line | County |
| VI | 0 | 7 | 30N | 05W | 0 | 959 | s | 2 | 2121 | Е | RIO ARRIBA |
| 12. Dedicated Acres 320.00 | | 13 | 3. Joint or Infill | | 14. Consolidation Code | | | | 15. Order No. | | |

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

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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.

Title: Resultory Jechnick Date: 10/17/07

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 Edwards Date of Survey: 8/9/2006

Certificate Number: 15269

4

| Signaturei | AWatter | |
|--------------|---------------------------|--|
| Printed nam | e: Amanda Walker | |
| Title: Opera | tions Regulatory Tech Sr. | |
| E mail Add | ross: mwalker@bileern.com | |

| Released to Imaging: |
|----------------------|

| Received by OCD: 4/4/2024 9:49:03 AM | |
|--|-------------------------------|
| District I 1625 N. French Dr., Hobbs, NM 88240 | State of New Mexico |
| Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 | Energy Minerals and Natural 1 |
| Phone: (575) 748-1283 Fax: (575) 748-9720 District III | Oil Conservation Divisi |
| 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV | 1220 South St. Francis I |

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

rals and Natural Resources

nservation Division

outh St. Francis Dr.

Santa Fe, NM 87505

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

| ¹ Operator Name and Address Hilcorp Energy Company 382 Road 3100 | | | | | | | ² OGRID Number 372171 ³ API Number | | | |
|---|-------------------|----------|-------------------------------|--------------------|--|----------|--|-------------------------|--------------------|--|
| ^{4.} Prope | erty Code 8433 | | Aztec, NM 8 | | Property Name in Juan 30-5 Unit | | | 30-039-30255 | ll No. | |
| 31 | 8433 | | | Sa | n Juan 30-5 Unit | | | 78 | BN | |
| | | | | ^{7.} Sur | face Location | | | | | |
| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County | |
| 0 | 07 | 30N | 05W | | 675 | S | 2075 | Е | Rio Arriba | |
| | - | | | ^{8.} Bott | om Hole Loca | tion | | | | |
| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County | |
| 0 | 07 | 30N | 05W | | 959 | S | 2121 | Е | Rio Arriba | |
| | | | | ^{9.} Poo | l Information | | | | | |
| | | | | Pool | Name | | | | Pool Code | |
| | | | | Basin Frui | tland Coal | | | | 71629 | |
| | | | | Additional | Well Informa | tion | | | | |
| ^{11.} Wor | k Type | | 12. Well Type | | 13. Cable/Rotary | | 14. Lease Type | | nd Level Elevation | |
| | nplete | | Commingle Private | | | | 6244' GR | | | |
| ^{16.} M | ultiple | | ^{17.} Proposed Depth | | ^{18.} Formation ^{19.} Contractor | | | ^{D.} Spud Date | | |
| Comr | ningle | | | Basin Fr | uitland Coal | | | | | |
| Depth to Ground water Distance from nearest fresh water well | | | | Distance | to nearest surface w | /ater | | | | |

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

| Туре | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC | | |
|--|-----------|-------------|------------------|---------------|-----------------|---------------|--|--|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Casing/Cement Program: Additional Comments | | | | | | | | |

22. Proposed Blowout Prevention Program Туре 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. | OIL CONSERVATION DIVISION | | | |
|--|---------------------------------|------------------|--|--|
| I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC , if applicable. Signature: | Approved By: | | | |
| Printed name: Amanda Walker | Title: | | | |
| Title: Operations Regulatory Tech Sr. | Approved Date: | Expiration Date: | | |
| E-mail Address: <u>mwalker@hilcorp.com</u> | | | | |
| Date: 4/26/2024 Phone: 346-237-2177 | Conditions of Approval Attached | | | |

AMENDED REPORT



HILCORP ENERGY COMPANY SAN JUAN 30-5 UNIT 78N FRUITLAND COAL - RECOMPLETION SUNDRY API: 3003930255 JOB PROCEDURES

| ✓ ✓ | NMOCD BLM | Contact OCD and BLM (where applicable) 24 hrs prior to MIRU or running MITs. Record and document all casing pressures <u>daily</u> , including BH, IC (if present) and PC. Comply with all NMOCD, BLM (where applicable), and HEC safety and environmental regulations. | | | | | | | | | |
|--------|--|---|--|--|--|--|--|--|--|--|--|
| 1. | Hold pre-job safe | ety meeting. MIRU service rig and associated equipment. NU and test BOP per HEC, State, and Federal guidelines. | | | | | | | | | |
| 2. | 2. TOOH with 2-3/8" tubing. | | | | | | | | | | |
| 3. | Set a 4-1/2" plug | within 50' of the top Mesaverde perforation (+/-5,107') for zonal isolation. | | | | | | | | | |
| 4. | 4. Load hole with fluid, PT the csg to 560 psi. Note: TOC is at 2,670' per CBL. | | | | | | | | | | |
| 5. | 5. Perform a witnessed MIT test on the csg with the appropriate regulatory agencies (Notify NMOCD 24 hours prior to test). | | | | | | | | | | |
| 6. | If frac will be pu | mped down the casing: ND BOP, NU frac stack and test frac stack and casing to frac pressure. | | | | | | | | | |
| 7. | RU WL. Perforat | e the Fruitland Coal. (Top perforation @ 2,831', Bottom perforation @ 3,082'). | | | | | | | | | |
| 8. | | mped down a frac string: RIH w/ frac string and packer. Set packer within 50' of top perforation. ND BOP, NU frac stack. Pressure test ac stack to frac pressure. | | | | | | | | | |
| 9. | RDMO service ri | g. RU stimulation crew. Frac the Fruitland Coal in one or more stages. Set plugs in between stages, if necessary. | | | | | | | | | |
| 10. | MIRU service rig | and associated equipment. ND frac stack, NU BOP and test. | | | | | | | | | |
| 11. | If frac was perfor | med down frac string: POOH w/ frac string and packer. | | | | | | | | | |
| 12. | TIH with a bit and | d drill out top isolation plug and any stage plugs (if necessary). Clean out to the top of the Mesaverde isolation plug. | | | | | | | | | |
| 13. | Pending commin | gle approval, drill out Mesaverde isolation plug. Cleanout to PBTD at 7,782'. TOOH w/ cleanout assembly. | | | | | | | | | |
| 14. | Run and land pro | oduction tubing. RDMO service rig and associated equipment. Return well to production. | | | | | | | | | |

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HILCORP ENERGY COMPANY SAN JUAN 30-5 UNIT 78N FRUITLAND COAL - RECOMPLETION SUNDRY

| D000 D000000000000000000000000000000000000 | | | nergy Company SAN JUAN 30-5 UNIT #781 | | hematic - Ve | ersion 3 | | | | | | | | | |
|---|------------|------------------------------------|--|---------------------------------|-----------------------|--------------|--|---|--|--|--|--|--|--|--|
| Descension in Descension in Note that in Note that in Section in < | 1/UWI | | Surface Legal Location | Field Name | | | | | | | | | | | |
| Understand Userial Hole [VERTICAL] MD TVD Vertical schematic (actual) 41 55 157 11 51 57 12 23/8in, Tubing: 23/ | ound Eleva | | Original KBIRT Elevation (ft) | | | | KB-Casing Flange Distance (ft) | KB-Tubing Hanger Distance (ft) | | | | | | | |
| (RKB) (VERTICAL SCREMARC (ACLIAN) 151 17.1 151 17.1 17.1 17.1 17.2 17.2 17.3 17.1 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.5 17.5 <t< th=""><th>MD</th><th colspan="14">VD TVD Vertical schematic (actual)</th></t<> | MD | VD TVD Vertical schematic (actual) | | | | | | | | | | | | | |
| 111 17.1 55: 15.97 ftk8; 16.97 ftk8; 124 17.4 17.4 124 17.4 17.4 124 17.4 17.4 124 17.4 17.4 124 17.4 17.4 124 17.4 17.4 124 17.4 17.4 124 17.4 17.4 124 17.4 17.4 124 17.4 17.4 125 17.4 17.6 126 17.5 17.6 127.6 17.6 17.6 128.7 17.6 17.6 129.8 17.6 15.0 17.6 120.0 17.6 17.6 17.6 17.6 120.2 17.6 17.6 17.6 17.6 17.6 121.2 17.6 < | | | | | Vertical schemat | tic (actual) | | | | | | | | | |
| 114 174 114 174 114 174 114 174 114 174 114 174 114 174 114 174 114 174 114 174 114 174 114 174 114 174 114 174 114 174 114 174 1154 175 1154 175 1155 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1154 175 1 | | | | | | | متحاد ما معالمة الكار فكالمعاملة والمعاركا والمعاركا | falld en allina he faland de l'Aleine en availle lite | | | | | | | |
| 144 144 12 3/8in, Tubing; 2 3/8 in; 4/70 lb/r; 1/55; 1657 151 151 151 151 155 153 153 153 156 154 153 153 156 154 153 155 156 155 155 155 158 154 153 155 156 154 154 155 156 155 157 155 158 154 154 155 156 154 157 155 158 154 154 157 154 154 154 157 1600 < | | | 55; 15.9 | / πKB; 16.9/ πKB | | | | | | | | | | | |
| 22 2 3/8/n, 1ubing? 2 3/8 int 4.70 lb/t?, 1.55; 14.97 245 445 445 445 445 445 23/8/n, 1ubing? 2 3/8 int 4.70 lb/t?, 1.55; 14.97 1985 1985 1985< | | | | | al 🎆 | | | | | | | | | | |
| 449 449 23/8in, Tubing Pup Jt; 23/8 in; 470 lb; 1, 135; 4897 ftx8 451 511 4692 ftx8; 5497 ftx8 452 1500; 16,00; 23,00; 2007-10-01 1500; Cint w 1500; 16,00; 23,00; 2007-10-01 1500; Cint w 2030 2230 2230 2230 2030 2230 2230 2230 2230 2030 2230 2230 2230 2300 in; 15, 007, 23, 000 in; 16, 00 3337 3337 3337 2337 2337 2376 2345 2443 Intermediate Casing Cement, Casing, 10/1/2007 100/15; Cint Gl ad of 487 sxs 50/50 poz. Cinc d 200 bbl le 24381 2443 Intermediate, 3,387,70 ftx8; 7 in; 6,46 in; 16,33 ftx8; 7,387,70 ftx8; 7 in; 6,46 in; 16,33 ftx8; 7,400,07,715,00; 2007,715,00; 2007,715,00; 2007,715,00; 2007,715,00; 2007,715,00; 2007,715,00; 2007,715,00; 2007,715,00; 2007,715,00; 2009,00; PERF 23/8in, Tubing Pup Jt; 23/8 in; 4,70 lb; ft; 1,55; 54,97 Ftx8; 7,652,33 ftx8; 7,554,33 ftx8; 7,55 | | | 2 3/8in, Tubing; 2 3/8 in; 4.70 | | | | | | | | | | | | |
| 551 551 46.92 ftK8; 54.97 ftK8 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1957 1955 1957 1955 1957 1955 1957 1955 1957 1955 1957 1955 1957 1955 1957 1955 1957 1955 1957 1955 1957 1955 1957 1958 1957 | | | 2 3/Sin Tubing Due Hu 2 2 /Si | 5555 | | | Carton Carlo C | at Castar, tou coor | | | | | | | |
| 1985 1985 1985 76 sist Type Hill cmt w/ 20% flyash. Circ d 3 bt 200 1230 1230 1230 1230 200 1230 1230 1230 1230 201 1230 1230 1230 1230 2020 1230 1230 1230 1230 2021 1230 1230 1230 1230 211 1236 OJO ALAMO (DIO ALAMO (finall)) 1015; Cmt di lead of 437 siss pring blis follow 2111 KIRTLAND (KIRTLAND (finall)) 1015; Cmt di lead of 437 siss pring blis follow 2112 1236 FRUITLAND (finall)) 1015; Cmt di lead of 437 siss pring blis follow 2113 1237 FRUITLAND (finall)) 1015; Cmt di lead of 437 siss pring blis follow 2113 1238 1233 1233 1234 2131 1237 FRUITLAND (finall)) 1015; Cmt di lead of 437 siss pring blis follow 10112; Cmt di lead of 437 siss pring blis follow 2131 1238 1237 1238 1238 1237 11012; Cliffs di lead of 437 siss pring blis follow 10117; Cmt di lead of 437 siss pring blis follow 1237 1238 123 | | | | | | | | | | | | | | | |
| 2158 2159 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2200 2201 2200 2202 2200 2203 2201 2204 2204 2205 2205 2206 2206 2207 2207 2208 2107 2208 2107 2201 7266 2202 7266 2203 7266 2204 7266 22176 FRUITLAND (fRuITLAND (finall)) 22176 2160 22176 7266 22176 7260 22176 7276 22176 7276 23170 72500 23170 72500 | | | 40.3 | | | | | | | | | | | | |
| 2280 2280 2280 2280 2280 2280 2280 2280 2281 2280 2282 2280 2283 2280 2284 2280 2284 2280 2285 2280 2286 2280 2287 2287 2288 2288 2287 2286 2288 2288 2288 2288 2288 2288 2288 2288 2287 2286 2288 2288 2288 2288 2288 2288 2288 2288 2288 2288 2288 2388 2388 2388 2388 2388 2388 2388 2388 2388 2388 2388 2388 2388 2388 2388 2288 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | | | | | | | |
| 2400 2400 FKB; 230.00 FKB 2425 2425 2425 2426 2426 2426 2427 2428 2427 2426 2428 COLO ALAMO (OJO ALAMO (final)) 2428 2428 2428 2428 2428 COLO ALAMO (OJO ALAMO (final)) 2428 | 229.0 - | | | | | | | | | | | | | | |
| 2384 2387 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200 101/1200< | 230.0 | 230.0 | | | | | | ; 9 5/8 in; 9.00 in; 16.00 | | | | | | | |
| 287 287 287 287 288 2001 2004 2007-10-08 287 288 2010 2007-10-08 10.15(Cmt dilead of 487 xss prim plus follow by tail of 145 xss 50/50 poz. Circ di 200 bbi le cmt to surface. 2889 2888 2888 2888 10.15(Cmt dilead of 487 xss prim plus follow by tail of 145 xss 50/50 poz. Circ di 200 bbi le cmt to surface. 2889 2879 PCTURED CLIFFS (PICTURED CLIFFS (final)) 21 10.03 KtB; 3387.70 ftKB; 7 in; 6.46 in; 16.03 KtB; 338 | 233.9 | 233.9 | | | | | ITKB; 250.00 TKB | | | | | | | | |
| 22071 22049 OIO ALAMO (OIO ALAMO (Minali)) 24283 24213 KRTLAND (KRTLAND (KIRTLAND (Kinali)) 24284 24213 KRTLAND (KRTLAND (KIRTLAND (Kinali)) 24285 24284 2423 24286 24284 2423 24287 FRUITLAND (KRTLAND (Kinali)) model (Kinali)) 24283 2423 24284 2423 24285 2424 24287 FRUITLAND (FRUITLAND (finali)) 24283 2434 24284 2434 2437 2376 2444 2377 2433 2377 2434 2377 2434 2374 2437 2376 2444 764 2444 764 2444 764 2444 764 2444 764 2444 7644 2444 7644 2444 76444 2444 764448 76444 2 | 324.5 - | | | | | | | | | | | | | | |
| 2423 2423 CUID ALDINO (URTLAND (initi)) 2423 2423 2413 by tail of 145 sxs 50/50 poz. Circ'd 200 bbl le cmt to surface. 2424 2434 2454 2454 2434 2455 FRUITLAND (RUITLAND (finall)) 2434 2457 FRUITLAND (FRUITLAND (finall)) 2444 23764 23764 2457 2477 2477 2458 2477 23781 2459 2477 23781 2450 24785 23781 2450 24785 23760 24664 4663 CLIFF HOUSE (CLIFF HOUSE (final)) 25152 5163 MENEFEE (MENEFEE (final)) 51572 5163 75643 5163 75643 7652.53 ftKB 76644 23781n, Tubing: 2378 int 470 lb | 329.7 - | 329.7 | | | | | | | | | | | | | |
| 2413 CMI LAND (INI LAND (INI LAND (INI)) 2456 2414 2456 2415 2456 2416 2457 FRUITLAND (FRUITLAND (Inal)) 2457 FRUITLAND (FRUITLAND (Inal)) 2458 2417 2459 2418 2454 2417 2455 2417 2456 2418 2457 FRUITLAND (FRUITLAND (Inal)) 2458 2418 2458 2335 2459 2418 2452 23/81n, Tubing; 23/8 in; 4.70 lb/ft; J-55; 54.97 2452 23/81n, Tubing; 23/8 in; 4.70 lb/ft; J-55; 54.97 2452 2,740.00.7,785.00; 2007-10.11 22.45; 2452 2,740.00.7,785.00; 2007-10.11 22.45; 2454 4884 2464 5415 2454 CLIFF HOUSE (CLIFF HOUSE (Inal)) 2454 CLIFF HOUSE (CLIFF HOUSE (Inal)) 2544 S415 2645 S415 2646 S415 2647 S415 2700 | | | | nal)) — | | | | | | | | | | | |
| 2742 2736 2810 2427 2427 FRUITLAND (FRUITLAND (finall)) 3020 20738 3021 20738 3022 20738 3023 20738 3024 20738 3025 3074 3226 3774 3274 2374 3274 2411 3275 3277 32845 3377 3274 2378 3274 2411 3274 2411 3274 2411 3274 2411 3274 2411 3274 2411 3274 2411 3274 2411 3285 2378 3284 4663 CLIFF HOUSE (CLIFF HOUSE (Inall)) 5384 5415 5415 5417 5416 5417 5418 5417 5424 5418 5417 5410 | | | KIRTLAND (KIRTLAND (final)) | | | | | | | | | | | | |
| 24310 24217 FRUITLAND (FRUITLAND (final)) 20020 20739 PICTURED CLIFFS (PICTURED CLIFFS (final)) 23451 23225 23451 23225 23451 23225 23451 23235 23452 2374 23472 24211 23774 2374 23774 2374 23774 2374 23774 2374 23774 2374 23774 2374 23774 2374 23774 2374 23774 2374 23774 2374 2374 2374 2374 2374 2374 2374 2374 2374 2374 2374 2374 2374 2374 2378 2374 2378 2374 2378 2374 2378 2374 2378 2378 7342 23 | | | | | | | | | | | | | | | |
| 10739 PICTURED CLIFFS (PICTURED CLIFFS (final)) 13850 13229 13850 13229 13851 13229 13852 12374 13853 12374 13854 12374 13855 12374 13874 1603 ftKB; 3,387.70 ftKB; 7 in; 6.46 in; 1748 1880 1881 1881 1882 1883 1884 1884 1884 1884 1884 1884 1884 1884 1884 | | | FRUITIAND (FRUITIAND (fin | 10) | | | | | | | | | | | |
| 23451 23229 23454 23355 23865 23724 23876 23727 24370 2421 23876 2421 23876 2421 23876 2421 23876 2421 23876 2421 23876 2421 23876 2421 23876 2421 23876 2421 23876 2421 23876 2421 2487 2370 2482 4663 CLIFF HOUSE (CLIFF HOUSE (finall)) 2245; 2740.00-7,755.00; 2007-10-11 2245; 157.00-5,563.0ftKB on 6/10/2008 09:00 (PERF 5172 5136 5184 MENEFEE (MENEFEE (finall)) 5184 MANCOS (MANCOS (final)) 5184 5884 6783 GALLUP (GALLUP (final)) 7684 7612 7612 7,6512.03 ftkB; 7,685.71 ftkB 7684 7624 76857 7632 7638 7632 7639 7,685.73 ftkB; 7,685.71 ftkB 7644< | | | | | | | | | | | | | | | |
| 13865 13734 13876 13734 13878 13734 13879 13231 14270 14231 14270 14231 14270 14231 14270 14231 14270 14231 14270 14231 14270 14231 14285 1603 ftK8; 3,387.70 ftKB; 7 in; 6.46 in; 1603 ftK8; 7,785.00; 2007-10-11 2245; 1616 101/ft; 1005E 1617 ftK8; 7 in; 6.46 in; 1618 101/ft; 1005E 1618 101/ft; 1005E 1618 101 1618 101 1618 101 1628 101 1628 101 1638 102 1638 102 1638 102 1638 102 1638 102 1638 102 1638 102 | | | | ········ | | | | | | | | | | | |
| 3377 3374 2; Intermediate, 3;387.70ft/kB; 7 in; 646 in; 3400 3431 3800 3860 3800 23/8in, Tubing; 23/8 in; 4.70 lb/ft; J-55; 54.97 16.03 ft/kB; 3,387.70 ft/kB; 7 in; 646 in; 17.22 5,351 18.82 18.841 54.81 64.81 64.81 18.82 7.832 7.832 7.832 7.832 7.832 7.832 7.832 7.84 | 3,345.8 | 3,333.5 | | | | | | | | | | | | | |
| 13876 13747 14870 14331 14870 1603 ftKB; 3,387.70 ftKB | 3,386.5 - | 3,373.4 | | | | | Or laterary edicts a part | 7 708//P. 7 in 6 46 in | | | | | | | |
| 2.4231 2.3/8in, Tubing; 2.3/8 in; 4.70 lb/ft; J-55; 54.97 ftKB; 7,652.53 ftKB Production Casing Cement, Casing, 10/11/202 2.3926 3.8860 Production Casing Cement, Casing, 10/11/207 22:45; 2,740.00-7;785.00; 2007-10-11 22:45; Cmt d w/ 450 sxs 50/50 poz. TOC @ 27:40° pe CBL on 10/16/2007. 5.152 5.406 MENEFEE (MENEFEE (final)) FOINT LOOKOUT (POINT LOOKOUT (final)) 5.4341 5.446 Sale4 MANCOS (MANCOS (final)) 5.444 Sale4 MANCOS (MANCOS (final)) Sale4 5.653 F7383 GALLUP (GALLUP (final)) Sale4 7.654 7.654.63 ftKB; 7,687.37 ftKB 7.654.63 ftKB; 7,687.37 ftKB 7.654 2.3/8in, 1.78" ftk; 2.3/8 in; 4.70 lb/ft; J-55; 7.654.63 ftKB; 7,687.60 ftKB 7.650.0-7,715.0ftKB on 6/9/2008 10:00 (PERF-DAKOTA); 7.630.00-7,715.00; 2008-06-91 0:00 7.654 2.3/8in, 1.78" ftk; 2.3/8 in; 4.70 lb/ft; P-110; 7.680.71 ftKB PAGOTA; 7.630.0-7,715.0ftKB on 6/9/2008 10:00 (PERF-DAKOTA); 7.630.00-7,715.00; 2008-06-91 0:00 7.654 2.3/8in, 1.78" ftk; 7,687.36 ftKB PAGOTA; 7.630.00-7,715.00; 2008-06-91 0:00 7.654 2.3/8in, 1.78" ftk; 7.687.60 ftKB PAGOTA; 7.750.0ftKB on 6/9/2008 10:00 (PERF-DAKOTA); 7.630.00-7,715.00; 2008-06-91 0:00 7.654 2.3/8in, 1.78" ftk; 7.687.60 ftKB PAGOTA; 7.785.00; 2008-10-09 10:00 | 3,387.8 | 3,374.7 | | | | | | | | | | | | | |
| 38020 38080 ftKB; 7,652.53 ftKB 38035 38885 38045 CLIFF HOUSE (CLIFF HOUSE (final)) 51572 5:406 51572 5:406 51572 5:406 51572 5:406 51572 5:406 51572 5:406 51572 5:406 51572 5:406 51572 5:406 51572 5:406 51572 5:406 51572 5:563.0ftKB on 6/10/2008 09:00 (PERF 62860 5:861.0 5:8610 5:861.4 MANCOS (MANCOS (final)) | | | 2 3/8in, Tubing; 2 3/8 in: 4.70 |) lb/ft; J-55; 54.97 | | | | | | | | | | | |
| 48848 48843 CLIFF HOUSE (CLIFF HOUSE (final)) Cmt dv // 450 xss 50/50 poz. TOC @ 2740' pe 5,1572 5,1406 MENEFEE (MENEFEE (final)) Cmt dv // 450 xss 50/50 poz. TOC @ 2740' pe 5,1573 5,1573 FOINT LOOKOUT (POINT LOOKOUT (final)) FOINT LOOKOUT (POINT LOOKOUT (final)) 5,6820 5,8814 MANCOS (MANCOS (final)) GALLUP (GALLUP (final)) MENEFEE (MENEFEE (final)) 7,8620 5,8814 MANCOS (MANCOS (final)) GALLUP (GALLUP (final)) GALLUP (final)) 7,8620 7,8443 C,652,53 ft/kB; 7,654,63 ft/kB; 7,652,63 ft/kB; 7,654,63 ft/kB; 7,630,0-7,715,0ft/kB on 6/9/2008 10:00 (PERF 7,6824 7,6324 2 3/8in, Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 7,630,0-7,715,0ft/kB on 6/9/2008 10:00 (PERF 7,6825 7,632 2 3/8in, T/2 S/8 in; 4.70 lb/ft; P-110; T,633,0-7,715,0ft/kB on 6/9/2008 10:00 (PERF 7,6825 7,632 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; T,635,73 ft/kB; 7,686,71 ft/kB 7,6427 7,650 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; T,685,73 ft/kB; 7,687,60 ft/kB 7,642 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; T,685,73 ft/kB; 7,686,71 ft/kB POduction Casing Cement, Casing, 10/11/20 7,7148 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Production Casing Co</td><td>ement, Casing, 10/11/2007</td></t<> | | | | | | | Production Casing Co | ement, Casing, 10/11/2007 | | | | | | | |
| 51572 51404 5174 51404 5174 51843 MENEFEE (MENEFEE (final)) Filter (MENEFEE (final)) 54841 54175 54841 54175 54841 54175 54841 54175 54841 54175 POINT LOOKOUT (POINT LOOKOUT (final)) 5484 5484 5880 58814 67383 GALLUP (GALLUP (final)) GALLUP (GALLUP (final)) GALLUP (final)) 73807 73840 73807 73840 73807 73840 74843 CEPENHORN (GREENHORN (final)) 2 3/8in, Tubing Pup Jt; 2 3/8 in; 4.70 lb/ft; J-55; 76226 76288 76327 7640 7644 7654.63 ftKB; 7,654.63 ftKB 2 3/8in, Tubing Pup Jt; 2 3/8 in; 4.70 lb/ft; J-55; 76407 7,630.0-7,715.0ftKB on 6/9/2008 10:00 (PERF-DAKOTA); 7,630.00-7,715.00; 2008-06-09 10:00 76447 2 3/8in, Tubing; 2 3/8 in; 4.70 lb/ft; P-110; 76457 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 76467 76482 7647 | | | | finally) | | | | | | | | | | | |
| \$1749 \$1583 MENEFEE (MENEFEE (final)) \$157.0-5,563.0ftKB on 6/10/2008 09:00 (PERF \$4841 \$4175 POINT LOOKOUT (POINT LOOKOUT (final)) MESAVERDE); 5,157.00-5,563.00; 2008-06-10 \$5860 \$6814 MANCOS (MANCOS (final)) MESAVERDE); 5,157.00-5,563.00; 2008-06-10 \$6800 \$6804 GALLUP (GALLUP (final)) GALLUP (final)) \$73007 7,3340 7,444 \$7600 7,652.53 ftKB; 7,654.63 ftKB; 7,654.63 ftKB; 7,654.63 ftKB; 7,654.63 ftKB; \$7600 7,653.01,715.0ftKB on 6/9/2008 10:00 (PERF \$7600 7,653.73 ftKB; 7,668.71 ftKB; \$7600 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; \$7600 7,650.0 \$7600 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; \$7600 7,680.71 ftKB; 7,687.01 ftKB; \$7600 7,690 \$7149 7,692 \$7642 Cement Plug (PBTD); 7,782.00 | | | | (()(d))) | | | | 50 poz. 10C @ 2740' per | | | | | | | |
| 5.4411 5.417.5 POINT LOOKOUT (POINT LOOKOUT (final)) MESAVERDE); 5,157.00-5,563.00; 2008-06-10 5.5620 5.564.4 5.8620 5.864.4 5.8620 5.864.4 5.8620 5.864.4 5.8620 5.864.4 5.8620 5.864.4 5.8620 5.864.4 6.752.9 6.728.3 GALLUP (GALLUP (final)) GALLUP (final)) 2.3/50.7 7.442.3 7.650.7 7.652.63 7.652.6 7.652.63 7.652.6 7.652.63 7.652.6 7.652.63 7.652.63 7.654.63 7.652.63 7.654.63 7.652.67 7.666.0 7.666.7 7.666.71 7.666.7 7.666.71 7.714.9 7.666.71 7.765.4 2.3/8 in; 1/2 MS EXP CK; 2.3/8 in; 4.70 lb/ft; P-110; 7.666.7 7.666.71 7.714.9 7.666.71 7.714.9 7.666.71 7.765.4 2.3/8 in; 1/2 MS EXP CK; 2.3/8 in; 4.70 lb/ft; P-110; 7.714.9 7.666.71 7.765.4 Ce | | | MENEFEE (MENEFEE (final)) | | | N SS | | n 6/10/2008 09:00 (PERF - | | | | | | | |
| 5.5420 5.5424 [09:00 5.6620 5.6614 MANCOS (MANCOS (final)) GALLUP (final)) 6.7559 6.7823 GALLUP (GALLUP (final)) GALLUP (final)) 7.3607 7.3442 GALLUP (GALLUP (final)) GALLUP (final)) 7.3607 7.3442 GALLUP (GALLUP (final)) GREENHORN (GREENHORN (final)) 7.3607 7.4423 GREENHORN (GREENHORN (final)) GREENHORN (GREENHORN (final)) 7.651 7.6024 7.652.53 ft/kB; 7.654.63 ft/kB; 7.658.73 ft/kB; 7.658.70 ft/kB 7.6647 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7.658.73 ft/kB; 7.666.71 ft/kB; 7.658.60 ft/kB Production Casing Cement, Casing, 10/11/20 7.6647 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7.668.71 ft/kB; 7.687.60 ft/kB Production Casing Cement, Casing, 10/11/20 7.6647 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7.686.71 ft/kB; 7.687.60 ft/kB Production Casing Cement, Casing, 10/11/20 7.6647 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7.686.71 ft/kB; 7.687.60 ft/kB Production Casing Cement, Casing, 10/11/20 7.6647< | | | | KOUT (final)) | | | MESAVERDE); 5,157.0 | | | | | | | | |
| 67559 67523 GALLUP (GALLUP (final)) 7,3840 7,3840 7,2805 7,3442 7,5010 7,443 7,6024 2,3/8in, Tubing Pup Jt; 2,3/8 in; 4.70 lb/ft; J-55; 7,6283 7,654,63 ft/kB; 7,654,63 ft/kB; 7,6545 7,657,7 7,6645 7,687,7 7,7484 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; P-110; 10; 7,656,71 ft/kB; 7,656,71 ft/kB; 7,655,73 ft/kB; 7,6545 7,659,73 ft/kB; 7,666,71 ft/kB; 7,6545 7,659,73 ft/kB; 7,666,71 ft/kB; 7,659,73 ft/kB; 7,666,71 ft/kB; 7,685,73 ft/kB; 7,654,7 7,659,73 ft/kB; 7,686,71 ft/kB; 7,749,7 7,659,73 ft/kB; 7,686,71 ft/kB; 7,749,7 7,659,73 ft/kB; 7,687,60 ft/kB; 7,749,7 7,654,71 ft/kB; | | | | | | | 09:00 | | | | | | | | |
| 6,758.9 6,728.3 GALLUP (GALLUP (final)) 7,380.7 7,334.0 7,360.7 7,334.0 7,360.7 7,334.0 7,691.7 7,602.4 7,652.53 7,652.53 7,652.53 7,652.53 7,652.53 7,652.53 7,652.53 7,652.63 7,652.63 7,652.53 7,652.63 7,652.53 7,652.63 7,652.63 7,652.64 7,652.63 7,652.65 7,653.0 7,652.67 7,650.0 7,652.67 7,650.0 7,652.67 7,650.0 7,652.67 7,650.0 7,653.73 ftKB; 7,686.71 7,665.73 ftKB; 7,686.71 7,764.7 7,650.0 7,764.7 7,654.7 7,764.7 7,654.7 7,764.7 7,664.7 7,764.7 7,664.7 7,764.7 7,664.7 7,764.7 7,764.7 7,764.7 7,764.7 7,764.7 | 5,898.0 | 5,881,4 | MANCOS (MANCOS (final)) | ~~~~~ | | | | ~~~~~ | | | | | | | |
| 7,3609 7,344.2 7,5010 7,444.3 7,6010 7,444.3 7,6010 7,644.3 7,6010 7,644.3 7,6010 7,652.53 ftKB; 7,654.63 ftKB; 7,6010 7,652.53 ftKB; 7,654.63 ftKB; 7,652.6 7,652.6 7,652.6 7,652.6 7,652.6 7,654.63 ftKB; 7,656.73 ftKB; 7,664.7 2,3/8in, 1.78° FN; 2,3/8 in; 4.70 lb/ft; P-110; 7,665.7 7,660.0 7,667.0 7,650.0 7,670.0 7,650.0 7,670.0 7,685.73 ftKB; 7,686.71 ftKB; 7,667.7 7,690.0 7,670.0 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; P-110; 110; 7,686.71 ftKB; 7,687.60 ftKB 7,682.00 -7,715.00; 2008 -00; 2007 -10-11 22:45; Cmt'd w/ 450 sxs 50/50 poz.70C @ 22:45; Cmt'd w/ 450 sxs 50/50 poz.70C @ 7,764 Cement Plug (PBTD); 7,782.00 3; Production, 7,785.00 ftKB; 4.1/2 in; 4.00 in; 7,681.7 7,664 Cement Plug (PBTD); 7,782.00 5; Production, 7,785.00 ftKB; | 6,755.9 | 6,739.3 | GALLUP (GALLUP (final)) | | | | | | | | | | | | |
| 7,501.0 7,4843 CREENHORN (GREENHORN (GREENHORN (final)) 2,619.1 7,6024 7,652.53 ftKB; 7,654.63 ftKB; 7,6289 7,6122 7,652.53 ftKB; 7,654.63 ftKB; 7,6284 7,652.53 ftKB; 7,654.63 ftKB; 7,652.53 ftKB; 7,654.63 ftKB; 7,652.6 7,652.63 ftKB; 7,656.73 ftKB; 7,656.73 ftKB; 7,656.71 ftKB; 7,662.7 7,669.7 7,670.0 7,670.0 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; P-110; 7,662.7 7,699.7 7,714.9 7,692.2 7,764 Cement Plug (PBTD); 7,782.00 7,764.7 Cement Plug (PBTD); 7,782.00 | · | | | | | | | | | | | | | | |
| 7,619.1 7,602.4 2 3/8in, Tubing Pup Jt; 2 3/8 in; 4.70 lb/ft; J-55; 7,622.9 7,612.2 7,652.63 ftKB; 7,654.63 ftKB; 7,652.6 7,622.6 7,623.8 7,652.6 7,652.63 ftKB; 7,654.63 ftKB; 7,654.63 ftKB; 7,658.73 ftKB; 7,652.6 2 3/8in, T/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; J-55; 7,630.0-7,715.0ftKB on 6/9/2008 10:00 (PERF- 7,664.7 7,670.0 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,630.00-7,715.0ftKB on 6/9/2008 10:00 (PERF- 7,664.7 7,670.0 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,630.00-7,715.00; 2008-06-09 10:00 7,664.7 7,670.0 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,630.00-7,715.00; 2008-00-2007-10-11 7,664.7 7,670.0 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,630.00-7,715.00; 2007-00-10-11 7,664.7 7,670.0 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,630.00-7,715.00; 2007-00; 2007-10-11 7,664.7 7,664.7 7,680.71 ftKB; 7,687.60 ftKB 7,680.70 ftKB 7,714.9 7,664.7 Cement Plug (PBTD); 7,782.00 3; Production, 7,785.00 ftKB 7,784.7 7,664.7 Cement Plug (PBTD); 7,782.00 3; Production, 7,785.00 ftKB 7,784.7< | | | | | | | | | | | | | | | |
| Classing 7,652.53 ftKB; 7,654.63 ftKB 7,652.63 7,652.53 ftKB; 7,654.63 ftKB 7,652.63 7,652.63 ftKB; 7,654.63 ftKB; 7,656.71 ftKB 7,652.63 7,652.63 ftKB; 7,654.63 ftKB; 7,656.71 ftKB; 7,654.63 ftKB; 7,656.71 ftKB; 7,656.71 ftKB; 7,656.71 ftKB; 7,666.71 ftKB; 7,666.71 ftKB; 7,666.71 ftKB; 7,667.60 ftKB 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; P-110; 7,782.00 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; P-110; 7,782.00 -7,785.00; 2007-10.11 7,652.7 7,650.9 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; P-110; 7,686.71 ftKB; 7,687.60 ftKB 7,652.7 7,650.9 2,3/8 in; 4.70 lb/ft; P-110; 7,782.00 7,652.7 7,650.9 2,765.4 Cement Plug (PBTD); 7,782.00 7,765.4 Cement Plug (PBTD); 7,782.00 7,765.4 Cement Plug (PBTD); 7,782.00 | | | 2 3/8in Tubing Pup It: 2 3/8i | (final)) n: 4.70 lb/ft: 1-55 | | | | | | | | | | | |
| 7.652.6 7.653.8 7.654.63 ftkB; 7.655.73 ftkB; 7.654.63 ftkB; 7.655.73 ftkB; 7.654.5 7.657.8 7.656.71 ftkB; 7.656.71 ftkB; 7.664.7 7.670.9 7.765.00 2.3/8 in; 1.72 MS EXP CK; 2.3/8 in; 4.70 lb/ft; P-110; 7.664.7 7.670.9 7.670.9 7.742.7 7.664.2 7.765.4 Cement Plug (PBTD); 7.782.00 7.765.4 Cement Plug (PBTD); 7.782.00 | | | | | | | | | | | | | | | |
| 7.654.5 7.627.8 7.654.5 7.627.8 7.654.5 7.630.0-7,715.00t RB on 6/9/2008 10:00 (PER - DAKOTA); 7.630.0-7,715.00; 2008-06-09 10:00 (PER - T,760.0) 7.666.7 7.670.9 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P- 110; 7.686.71 ftKB DAKOTA); 7.630.00-7,715.00; 2008-06-09 10:00 (PER - DAKOTA); 7.680.01 (PER - DAKOTA); 7.680.01 (PER - DAKOTA); 7.680.01 (PER - DAKOTA); 7.680.01 (PER - DAKOTA); 7.785.00; 2008-00-09 (PER - DAKOTA); 7.680.01 (PER - DAKOTA); 7.785.00; 2008-00-09 (PER - DAKOTA); 7.680.01 (PER - DAKOTA); 7.785.00; 2008-00-09 (PER - DAKOTA); 7.785.00 | | | | | | | | | | | | | | | |
| 7,655.7 7,656.7 7,656.7 7,657.7 7,657.7 7,657.7 7,657.7 7,657.7 7,657.7 7,670.9 7,670.9 7,769.7 7,670.9 7,769.7 7,670.9 7,769.7 7,670.9 7,769.7 7,669.7 110; 7,686.71 ftKB; 7,686.70 ftKB 22/45 (plug); 7,782.00-7,785.00; 2007-10-11 7,662.7 7,670.9 110; 7,686.71 ftKB; 7,687.60 ftKB 22/45; Cmt'd w/ 450 sxs 50/50 poz. TOC @ 7,762.2 7,765.4 Cement Plug (PBTD); 7,782.00 3; Production, 7,785.00 ftKB; 4.1/2 in; 4.00 in; 7,783.1 7,766.4 Cement Plug (PBTD); 7,782.00 16.03 ftKB; 7,785.00 ftKB | | | | | | | | | | | | | | | |
| 7,656.7 7,670.0 2 3/8 in, 1/2 MS EXP CK; 2 3/8 ir; 4.70 lb/ft; P. 100 ft; 4.70 lb/ft; P. 7,656.7 7,670.9 110; 7,686.71 ftKB; 7,687.60 ftKB 2245 (plug); 7,782.00-7,785.00; 2007-10.11 7,656.2 7,765.4 Cement Plug (PBTD); 7,782.00 3; Production, 7,785.00 ftKB; 4 1/2 ir; 4.00 ir; 7,765.1 7,766.4 Cement Plug (PBTD); 7,782.00 100 ftB/ft; P. | | | | | | | | | | | | | | | |
| 7,697.7 7,670.9 7,7149 7,698.2 7,765.4 Cement Plug (PBTD); 7,782.00 7,783.1 7,766.4 | | | | | | | | | | | | | | | |
| 7.7149 7.698.2 7.765.4 Cement Plug (PBTD); 7,782.00 7.765.4 16.03 ftkB; 7,785.00 ftkB 7.766.4 Cement Plug (PBTD); 7,782.00 | | | | | 399 | 1000 | | | | | | | | | |
| 7.783.1 7.7664 / [Cement Plug, 10/11/2007,22:46: 7.785.0 | | | | | 1999 1929 | 1000 | 2740' per CBL on 10/ | 16/2007. | | | | | | | |
| / Cement Plug, Plug, 10/11/2007 22:46: 7.785.0 | 7,782.2 | 7,765.4 | Cement Plug | (PBTD); 7,782.00 | | 200 I 200 | | | | | | | | | |
| 7761 7764 / Cement Plug, Plug, 10/11/2007 22:46; 7,785.0 | 7,783.1 - | 7,766.4 | | | | | | | | | | | | | |
| | 7,785.1 - | 7,768.4 | | | | | | | | | | | | | |
| 7,766.1 - 7,769.47,776.47, | 7,786.1 | 7,769.4 | | | **** ********* | 00000 | -1,100,00,2007-10-11 | | | | | | | | |

HILCORP ENERGY COMPANY SAN JUAN 30-5 UNIT 78N FRUITLAND COAL - RECOMPLETION SUNDRY

| D03802025 D07-030h-005W-0 M/UD (COM) 1201 NEW MEXICO VERTICAL Original Hole [VERTICAL] Original Hole [VERTICAL] Vertical schematic (actual) MID TV0 ND Vertical schematic (actual) Station 470 (brt) 157 (16 (rt 470 (brt)) Station 7 (bring Paper 7) (7.6 (rr 470 (brt)) Station 7 (bring Paper 7) (7.6 (rr 430 (brt)) Station 7 (bring Paper 7) (7.6 (rr 430 (brt)) Station 7 (bring Paper 7) (7.6 (rr 430 (brt)) Station 7 (bring Paper 7) (7.6 (rr 430 (brt)) Station 7 (bring Paper 7) (7.6 (rr 430 (brt)) Station 7 (bring Paper 7) (7.6 (rr 430 (brt)) Station 7 (bring Paper 7) (7.6 (rr 430 (brt)) Station 7 (bring Paper 7) (7.6 (rr 430 (brt)) Station 7 (brin | | | nergy Company SAN JUAN 30-5 UNIT #781 | | ed Schemati | С | | |
|--|-----------------------|-----------|--|------------------------------|------------------------|-------------------------------|--|--|
| 246.00 Is 60 Original Hole [VERTICAL] MD TVD MD TVD 11 11 12 351.1597 fttd; 1607 fttd; 141 141 141 141 141 141 142 23/8in, Tubing: 2.3/8 irt, 470 lb/h; 1/55; 1697 rttd; 143 144 144 144 144 144 144 144 145 23/8in, Tubing: 2.3/8 irt, 470 lb/h; 1/55; 1697 rttd; 145 146.32 fttd; 54.92 fttd; 145 146.32 fttd; 55.92 fttd; 145 146.32 fttd; 16.00.387.70, 20.07.10.01 ftcd; 146.32 fttd; 14.32 fttd; 16.00 fttd; 16.00.387.70, 20.07.10.01 ftcd; 146.32 fttd; 14.32 fttd; 14. | | | | | 1201 | 1 | NEW MEXICO | VERTIČAL |
| Original Hole [VERTICAL] M0 (RK8) Vertical schematic (actual) 11 15 12 3/8/10, Tubing Hanger; 7 1/16 inc; 4/70 lb/rt; 1-55; 15/87 12 3/8/10, Tubing; 2:3/8 in; 4/70 lb/rt; 1-55; 15/87 12 3/8/10, Tubing; 2:3/8 in; 4/70 lb/rt; 1-55; 15/87 12 3/8/10, Tubing; 2:3/8 in; 4/70 lb/rt; 1-55; 15/87 13:8 15 14:8 469 12 3/8/10, Tubing; 2:3/8 in; 4/70 lb/rt; 1-55; 15/87 14:8 15:8 15:8 15:8 16:8 16:80; 16:80; 2:800; 16:80; 2:800; 16:80; 2:800; 16:00; 16 | round Eleva 246.00 | | | Tubing Hanger Elevation (it) | | , | (B-Casing Flange Distance (ft) | KB-Tubing Hanger Distance (ft) |
| 1 1 1 1/16in, Tubing Hanger; 7: 1/16 in; 4:70 lb:/ft; 1:55; 16:97 1 1/1 | | | | - | _ | - | | |
| 17.1 17.1 17.2 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.5 17.5 17.5 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 10.0 17.5 | | | W7 1/16in Tubing Hanger 7 1/ | 16 in: 470 lb/#-1 | ومتقاطعه الشعب فالشعار | ha latta likis an hi Alasilia | the second is the second in the state of the second second second second second second second second second se | alden allocke Belordelathe Berne a afhailing |
| 174 174 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 195 195 195 195 195 195 195 195 194 194 194 194 194 194 194 194 195 195 195 195 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 194 1 | | | | | | | | |
| 23 23/8in, Tubing: 23/8 in; 4.70 lb/rt; 3.55; 16.37 182 443 443 444 23/8in, Tubing: 23/8 in; 4.70 lb/rt; 3.55; 16.37 183 151 1845 156 1845 156 1845 156 1845 156 1845 156 1845 156 1845 156 1845 156 1845 156 1845 156 1845 156 1845 156 1845 1600 1845 126 1845 127 1845 127 1846 127 1847 128 1848 128 1848 128 1848 128 1848 128 1848 128 1848 128 1848 128 1848 128 1848 128 1848 128 1848 128 </td <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| 363 362 1100 1100 1100 1100 1100 1100 11600 <td>19.4</td> <td>19.4</td> <td>2 3/8in Tubing: 2 3/8 in: 470</td> <td>1b/ft: 1-55: 16.97</td> <td></td> <td></td> <td></td> <td></td> | 19.4 | 19.4 | 2 3/8in Tubing: 2 3/8 in: 470 | 1b/ft: 1-55: 16.97 | | | | |
| 469 515 459 515 23/8in, Tubing Pup Jt; 23/8 in; 470 lb/ft; 1-55 4692 ftKB; 54.97 ftXB 1985 1985 1985 1985 1986 1986 1986 1986 1986 1986 1986 1986 | 26.2 | 26.2 | 2 5/6m, ruong, 2 5/6 m, 4./0 | | | | | |
| 51 46.92 ftKE; 54.97 ftKB 935 1500 ft600-32000; 2007.10.01 ft600, cmt 1 935 153 935 153 935 153 935 153 935 153 936 153 935 153 935 153 935 153 935 153 935 153 935 153 935 153 935 153 935 153 935 153 935 153 935 153 935 153 935 154 935 154 9360 154 9362 154 9362 154 9362 154 9362 154 9362 154 9362 154 9362 154 9362 154 9363 154 9364 1544 9444 | 46.9 | 46.9 | 2 3/8in, Tubing Pup Jt; 2 3/8 i | 399398 | | | Surface Casing Ceme | nt. Casing, 10/1/2007 |
| 2159 2158 2280 2200 2280 2200 2280 2200 2280 2200 2280 2200 2280 2200 2280 2200 2280 2200 2281 241 2411 KIRTLAND (VICTUAND (finall)) 22824 2411 2412 KIRTLAND (VICTUAND (finall)) 2424 2411 2425 2412 2426 2413 2427 2414 KIRTLAND (KRULAND (finall)) 10//////////////////////////////////// | SS.1 | SS.1 | 46.9 | 2 ftKB; 54.97 ftKB | | | 16:00; 16:00-230.00; 20 | 007-10-01 16:00; Cmt w/ |
| 238 230 230 230 230 230 230 230 230 230 231 231 232 232 233 233 234 234 237 237 238 238 238 233 233 233 234 OLO ALAMO (DIO ALAMO (finall)) 2411 KRTLAND (KRTLAND (finall)) 2422 2423 243 244 244 244 245 244 255 FRUITLAND (RUITLAND (finall)) 2464 243 2465 243 2466 2463 2470 2465 2471 2472 2485 2374 2485 2374 2485 2374 2485 2376 2485 2376 2485 2376 2485 2376 | | | | | | | | / 20% flyash. Circ'd 3 bbl |
| 200 200 1; Surface, 230.00ftKB; 9 5/8 in; 9.00 in; 16.00 203 203 1, Surface, 230.00ftKB; 9 5/8 in; 9.00 in; 16.00 2031 2334 2037 2334 2031 2304 010 ALAMO (OJO ALAMO (final)) Intermediate Casing Cement, Casing, 10/8/2007 10:05; 16:00.3387.70; 2007 10:05 21323 2413 KIRTUAND (KRUAND (final)) Intermediate Casing Cement, Casing, 10/8/2007 10:05; 16:00.3387.70; 2007 10:05 21424 2434 2433 FRUITLAND (final)) Intermediate, 3.387.70ftKB; 7 in; 6.46 in; 11:323 21422 2234 23/8in, Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 54.97 Intermediate, 3.387.70ftKB; 7 in; 6.46 in; 11:243 21324 2344 23/8in; Aubing; 2 3/8 in; 4.70 lb/ft; J-55; 54.97 Intermediate, 3.387.70ftKB; 7 in; 6.46 in; 11:243 21325 2444 4863 CLIFF HOUSE (CLIFF HOUSE (final)) Intermediate, 3.387.70ftKB; 7 in; 6.46 in; 11:243 21325 2 3/8in; Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 54.97 Intermediate, 3.387.70ftKB; 7 in; 6.46 in; 11:243 21325 2 3/8in; Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 54.97 Intermediate, 3.387.70ftKB; 7 in; 6.46 in; 11:243 21325 2 3/8in; Tubing; Pup It; 2 3/8 in; 4.70 lb/ft; J-55; 54.97 Intermediat | | | | | | | to surface. | |
| 2400 2400 2400 2400 2410 2400 2411 2412 2412 2414 2413 2414 2414 2414 2415 2414 2416 2414 2416 2414 2416 2414 2416 2414 2416 2414 2416 2414 2416 2414 2416 2414 2416 2414 2417 2414 2418 2414 2410 2417 2410 2417 2410 2417 2410 2417 2417 2417 2417 2417 2417 2421 2417 2421 2417 2421 2417 2421 2417 2421 2417 2421 2417 2421 2417 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1. Surface, 230,00ftKB</td> <td>9 5/8 in: 9.00 in: 16.00</td> | | | | | | | 1. Surface, 230,00ftKB | 9 5/8 in: 9.00 in: 16.00 |
| 2345 2345 2345 2347 2347 2347 2347 2347 2347 2347 2347 2349 2413 KIRTLAND (KIRTLAND (finall)) 2424 2441 2442 2443 2444 2444 2445 2441 2445 2444 2444 2445 2444 2444 2445 2444 2445 2444 2446 2445 2444 2445 2445 2444 2445 2444 2445 2444 2445 2444 2445 2444 2445 2444 2445 2444 2446 2445 2446 2446 2444 2447 2444 2447 2444 2447 2444 2446 2444 2446 | | | | | | | | 5 5/6 m, 200 m, 1900 |
| 287 287 207 2871 2049 OJO ALAMO (OJO ALAMO (finalij) 2882 2449 2449 2883 KIRTLAND (KIRTLAND (finalij) 2846 2564 2810 2857 2810 2857 2810 2857 FRUITLAND (FRUITLAND (finalij) 2846 2564 2847 2310 2848 2462 2847 FRUITLAND (FRUITLAND (finalij) 2848 2462 2847 2310 2848 2462 2849 2474 2847 2374 2848 2374 2847 2374 2848 2374 2849 2374 2840 2474 2841 2374 2842 2474 2843 2374 2844 2374 2845 2374 2846 2376 28461 2378 | | | | | | | | Contraction and Contraction |
| 21071 2104 OJO ALAMO (OJO ALAMO (final)) 10:15; Cmt1 d lead of 487 sxs prim plus follow by tail of 48 sxs 50;50 poz. Circ' d 200 bbl le cmt to surface. 2429 24213 KIRTLAND (KRTLAND (final)) 10:15; Cmt1 d lead of 487 sxs prim plus follow by tail of 48 sxs 50; 50 poz. Circ' d 200 bbl le cmt to surface. 2420 2756 FRUITLAND (FRUITLAND (final)) 10:15; Cmt1 d lead of 487 sxs prim plus follow by tail of 48 sxs 50; 50 poz. Circ' d 200 bbl le cmt to surface. 2480 2481 2236 FRUITLAND (FRUITLAND (final)) 10:15; Cmt1 d lead of 487 sxs prim plus follow by tail of 48 sxs 50; 50 poz. Circ' d 200 bbl le cmt to surface. 2481 2482 2482 FRUITLAND (FRUITLAND (final)) 10:15; Cmt1 d lead of 487 sxs prim plus follow by tail of 48 sxs 50; 50 poz. Circ' d 200 bbl le cmt to surface. 2481 2482 2482 2482 2482 22; Intermediate. 3387.70ftK8; 7 ity 6.46 ity 16:03 ftK8; 3387.70 ftK8 3826 23860 CLIFF HOUSE (CLIFF HOUSE (final)) 10:17; 25; 54.97 10:03 ftK8; 3387.70 ftK8 3826 23861 MENEFEE (MENEFEE (final)) 10:16; 2007. 11:02; 2007. 5157 5439 MENEFEE (MENEFEE (final)) 10:16; 2007. 11:02; 23:00; 7:00; 2009.00; 00; 00; 00; 00; 00; 00; 00; 00; 00; | | | | | | | | |
| 2213 2243 Construction 2010 Construction 2010 Construction 2010 2010 Construction 2010 | | | OLO ALAMO (OLO ALAMO (6) | (Inco | | | | |
| 2545 25438 Lint Color Guillon Color (LAN) 2545 27756 27756 28300 28357 FRUITLAND (FRUITLAND (finall)) 23451 23257 23455 23774 23455 23774 23456 23774 23457 23774 23458 23774 23459 23774 23450 23857 23774 23781 23458 23774 23470 23747 2470 23781 23421 23781 23422 23781 23423 23774 23424 23781 23425 23741 23781 23781 23823 23741 23824 23741 23747 23781 2383 CLIFF HOUSE (CLIFF HOUSE (finall)) 23783 Entit LooKout (FOINT LooKout (Finall)) 5444 54775 5444 54775 5444 54775< | | | | 8 | | | by tail of 145 sxs 50/5 | |
| 27422 27356 28370 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2837 28300 2838 28300 2838 28300 2838 28300 2838 28300 2838 28300 2838 28300 2838 28300 2838 28300 2838 28300 2838 23312 10005 23313 23387 2344 4663 4663 CLIF HOUSE (CLIFF HOUSE (finall)) 5312 51300 5313 5132 53144 | | | Microsofte (microsofte (mag) | | | | cmt to surface. | |
| 24310 24357 -FRUITLAND (FRUITLAND (final)) 24310 20000 30739 24311 20200 30739 24312 20200 30739 24313 20200 30739 24314 20200 20100 24312 20200 20100 23313 20100 20100 23314 20200 20100 23314 20100 20100 23314 20100 20100 23314 20100 20100 23314 20100 20100 24400 24200 44200 24400 44200 44200 24400 20100 1100000 23780 23780 11000000 23780 23780 100000000 120000 2441 54400 5441 54500 5500000000000000000000000000000000000 | | | | 100 | | | | |
| 1020 10739 —PICTURED CLIFFS (PICTURED CLIFFS (final)) 13323 13323 13324 13323 13325 13724 13326 13724 14331 14331 14332 14331 14333 14331 14334 14331 14335 14331 14336 14331 14335 14331 14336 14331 14335 1411 14336 1411 14331 1411 14335 1411 14335 1411 1444 14833 1454 1483 1455 1411 1457 POINT LOOKOUT (POINT LOOKOUT (final)) 15640 5544 15641 1442 1765253 ftKB 76545 ftKB 1765253 ftKB 76545 ftKB 1765253 ftKB 76545 ftKB 17653 1753 ftKB 17654 17653.0 ftKB 17644 | | | FRUITLAND (FRUITLAND (fin | al)) | | | | |
| 23451 23229 23463 23235 23464 23235 23865 2374 2470 2424 2470 2424 25010 2366 26026 2366 2709 2424 28010 2366 28026 2376 29026 2366 29026 2366 21000 7684 21010 2366 2112 5446 2112 5447 2112 5448 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 2112 5441 5442 5442 | | | | | | 1000 000000 1000 000000 | | |
| 23865 23747 23878 23747 2421 23747 2421 23747 2421 23747 2421 23747 2421 23747 2421 23747 2421 23747 2421 23747 2422 2366 23150 2366 23150 2366 23150 2366 23150 2366 23150 2366 24150 2366 24150 2366 25157 25464 CLIFF HOUSE (CLIFF HOUSE (final)) 21616/2007. 21729 5152 5444 5453 5454 S464 5454 MANCOS (MANCOS (final)) 5454 CALUP (GALLUP (final)) 5455 67393 5454 CALUP (GALLUP (final)) 7654 23/8in, Tubing: 23/8 in; 4.70 lb/ft; J-55; 7654 7646 7654 23/8in; 1.78° FN; 23/8 in; 4.70 lb/ft; J-55; 7654 23/8in; 1.78° FN; 23/8 in; 4.70 l | 3,345.1 | 3,332.9 | | | | | | |
| 23776 2,3747 24270 2,4217 24270 2,4217 24270 2,4217 24270 2,4217 2400 2,6007 2401 2,2007 2401 2,2007 2401 2,2007 2401 2,2007 2401 2,2007 2401 2,2007 2401 2,2007 2401 2,2007 2401 2,2007 2401 2,2007 2402 2,2007 2502 2,2007 2503 2,2007 2504 2,2007 25142 2,2007 25142 2,2007 25142 2,2007 25144 2,2007 25144 2,2007 25144 2,2007 25144 2,2007 25144 2,2007 21,2007 2,2007 21,2007 2,2007 21,2007 2,2007 21,2007 2,2007 21,2007 2,2007 | 3,345.8 | 3,333.5 | | | | | | |
| 33747 33747 34270 2421 24270 2421 34270 2421 34270 2421 34270 2421 34270 2421 34270 2421 34270 2421 34270 2421 34270 2421 34270 2421 34270 2421 34270 2421 34210 2425; 2,740.00-7,785.00; 2007-10-11 2245; CUFF HOUSE (CLIFF HOUSE (finall)) 22.45; 2,740.00-7,785.00; 2008-00; 0208 09:00 (PER 5434 547.5 POINT LOOKOUT (POINT LOOKOUT (finall)) 5484 5481.4 MANCOS (MANCOS (final)) 5484 5481.4 MANCOS (MANCOS (final)) 5680 5484.4 7632.63 ft/kB; 7.653.73 ft/kB; 7.654.63 ft/kB 7.642 7.630.0-7,715.00t/kB on 6/9/2008 10:00 (PERF 7.642 7.632.63 ft/kB; 7.653.73 ft/kB; 7.654.63 ft/kB 7.642 2 3/8in, Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 7.642 2 3/8in, 1.78* FN; 2 3/8 in; 4.70 lb/ft; J-55; 7.642 2 3/8in, 1.78* FN; 2 3/8 in; 4.70 lb/ft; J-55; 7 | 3,386.5 | 3,373.4 | | | | | 3 Intermediate 2 297 | 704VP: 7 in: 6 46 in: |
| 3.427.0 3.425.1 3.9026 3.8860 3.9026 3.8860 3.9026 3.8860 3.9026 3.8860 3.9026 3.8860 3.9026 3.8860 3.9026 3.8860 3.9026 3.8860 3.9026 3.8860 3.9026 4.6633 5.157.2 5.1406 5.172 5.1406 5.172 5.1406 5.173 5.1646 S.1745 5.158.3 MENEFEE (MENEFEE (finall)) POINT LOOKOUT (POINT LOOKOUT (finall)) POINT LOOKOUT (POINT LOOKOUT (final)) POINT LOOKOUT (final)) 5.8640 S.8644 6.7559 6.7283 - GALLUP (GALLUP (final)) - GALLUP (GALLUP (final)) 7.852.53 ftkB; 7.654.63 ftkB; 7.654.63 ftkB; 7.654.63 ftkB; 7.654.63 ftkB; 7.652.53 ftkB; 7.654.63 ftkB; 7.652.53 ftkB; 7.654.63 ftkB; 7.652.53 ftkB; 7.654.63 ftkB; 7.655.73 ftkB 7.652.54 2.3/8in, Tubing; 2.3/8 in; 4.70 lb/ft; P-155; 7.654.63 ftkB; 7.658.73 ftkB; 7.658.671 ftkB; 7.658.671 ftkB; 7.658.671 ftkB; 7.658.671 ftkB; 7.658.671 ftkB; 7.658.671 ftkB; 7.782.00, | | | | | | | | |
| 28860 1000000000000000000000000000000000000 | | | 2. 3/8in. Tubing: 2. 3/8 in: 4.70 | 0 lb/ft: J-55: 54.97 | | | | |
| 34950 34963 CLIFF HOUSE (CLIFF HOUSE (final)) 22.45; 2,740.00-7,785.00; 2007-10-11 22.45; 51572 5140.6 S15123 S140.6 S1572 S140.6 51749 51823 MENEFEE (MENEFEE (final)) S1572 S140.6 S1572 S1570.5,563.00; 2007-10-11 22.45; 51414 54175 POINT LOOKOUT (POINT LOOKOUT (final)) S1570.5,563.00; 2008-06-10 9:00 5444 S441 S4175 POINT LOOKOUT (Final)) MANCOS (MANCOS (final)) S1570.5,563.00; 2008-06-10 5462 S484.4 MANCOS (MANCOS (final)) GALLUP (final)) MESAVERDE); 5,157.00-5,563.00; 2008-06-10 7,8907 7,3840 GALLUP (GALLUP (final)) S157.0-5,563.00; 2008-06-10 7,8907 7,3840 7,63443 GEEENIHORN (GREENIHORN (Final)) S157.0-5,563.00; 2008-06-10 7,8907 7,443 7,654.63 ftk8; 7,654.63 ftk8 7,654.63 ftk8; 7,654.63 ftk8 7,654.63 ftk8; 7,654.63 ftk8 7,6447 7,6904 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,686.71 ftk8 7,656.71 ftk8; 7,687.60 ftk8 7,6467 7,6704 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,686.71 ftk8 7,654.63 ftk8; 7,687.60 ftk8 7,6467 7,67 | | | | | | | Production Casing Ce | ment, Casing, 10/11/2007 |
| 51572 51406 51749 51583 51749 51583 5481 5417.5 POINT LOOKOUT (POINT LOOKOUT (final)) 55840 5864 5881.4 MANCOS (MANCOS (final)) 5759 67393 GALLUP (GALLUP (final)) GALLUP (final)) 7,864.7 7,630.0 7,685.7 7,685.7 7,685.7 7,699.8 7,686.7 7,670.0 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; J-55; 7,686.7 7,670.0 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; J-55; 7,686.7 7,670.0 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; J-55; 7,686.7 7,670.0 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; J-55; 7,686.7 7,670.0 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; P-110; 10; 7,686.73 ftKB 7,686.73 ftKB 7,666.7 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; P-110; 10; 7,686.73 ftKB 7,687.3 ftKB; 7,686.71 ftKB 7,666.7 2,3/8in, 1/2 MS EXP CK; 2,3/8 in; 4.70 lb/ft; P-110; 10; 7,686.71 ftKB; 7,686.71 ftKB 7,680.71 ftKB; | | | | | | | 22:45; 2,740.00-7,785.0 | 00; 2007-10-11 22:45; |
| \$1749 \$1583 MENEFEE (MENEFEE (final)) \$,157.0-5,563.0ftK8 on 6/10/2008 09:00 (PER MESAVERDE); \$,157.00-5,563.00; 2008-06-10 09:00 \$441 \$417.5 POINT LOOKOUT (POINT LOOKOUT (final)) MESAVERDE); \$,157.00-5,563.00; 2008-06-10 09:00 \$584.4 S481.4 MANCOS (MANCOS (final)) MESAVERDE); \$,157.00-5,563.00; 2008-06-10 09:00 \$687.8 GALLUP (GALLUP (final)) GALLUP (final)) \$,157.0-1,5563.00; 2008-06-10 09:00 7,880.7 7,3440 \$,157.0-1,5563.00; 2008-06-10 09:00 \$,157.0-1,5563.00; 2008-06-10 09:00 7,880.7 7,3440 \$,157.0-1,5563.00; 2008-06-10 09:00 \$,157.0-1,50ftK8 on 6/9/2008 10:00 (PER 7,652.53 ftK8; 7,654.63 ftK8 7,641.7 7,662.4 2 3/8in, Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 7,654.63 ftK8; 7,658.73 ftK8 \$,157.0-1,50ftK8 on 6/9/2008 10:00 (PER 7,664.7 7,662.7 7,670.0 2 3/8in, 1/8' FN; 2 3/8 in; 4.70 lb/ft; P-110; 7,685.73 ftK8; 7,685.73 ftK8 \$,157.01,780.00-7,715.00ftK8 on 6/9/2008 10:00 (PER 7,664.7 7,664.7 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,686.71 ftK8; 7,687.71 ftK8 \$,160.01/1/2007.7 \$,173.00,7,715.00ftK8 on 6/9/2008-00-01 102 7,664.7 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,666.7 \$,174.9 \$,23/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,666.7 \$,160.0 ftK8; 7,785.00,785.00; 2007-10-11 | | | CLIFF HOUSE (CLIFF HOUSE (| final)) | | | | 50 poz. TOC @ 2740' per |
| 5.434.1 5.417.5 POINT LOOKOUT (POINT LOOKOUT (final)) 5.542.0 5.546.4 5.881.4 MANCOS (MANCOS (final)) 6.755.3 GALLUP (GALLUP (GALLUP (final))) 7.380.7 7.334.0 7.380.7 7.334.0 7.380.7 7.334.0 7.625.8 7.630.0-7,715.0ftKB on 6/9/2008 10:00 (PERF 7.625.4 7.632.53 ftKB; 7.658.63 ftKB; 7.625.4 7.632.63 ftKB; 7.658.73 ftKB 7.645.7 7.664.0 7.662.7 7.670.0 7.670.0 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7.685.73 ftKB; 7.686.71 ftKB 7.645.7 7.670.0 7.670.0 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7.685.73 ftKB; 7.687.60 ftKB 7.645.7 7.670.0 7.670.9 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7.685.71 ftKB; 7.687.60 ftKB 7.645.7 7.670.0 7.645.7 7.670.0 7.745.9 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7.685.71 ftKB; 7.687.60 ftKB 7.745.9 7.664.4 7.645.4 Cement Plug (PBTD); 7.782.00 7.745.9 | | | MENISSEE (MENISSEE (Soal)) | | | | | 5 (10/2008 00/00 (PEPE - |
| 55820 55824 99:00 67559 67393 GALLUP (GALLUP (final)) 67559 67393 GALLUP (GALLUP (final)) 7,8009 7,3440 7,6017 7,6024 7,6024 Z 3/8 in; 4.70 lb/ft; J-55; 7,6256 7,632.53 ftkB; 7,654.63 ftkB 7,6252 7,635.63 ftkB; 7,655.73 ftkB 7,6453 7,652.63 ftkB; 7,658.73 ftkB 7,6627 7,6700 7,6627 2 3/8 in; 1.78° FN; 2 3/8 in; 4.70 lb/ft; P-110; 7,685.73 ftkB; 7,685.73 ftkB 7,6645 7,6700 7,6700 2 3/8 in; 1.78° FN; 2 3/8 in; 4.70 lb/ft; P-110; 7,685.73 ftkB; 7,687.60 ftkB 7,6647 7,6700 2 3/8 in; 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,686.71 ftkB; 7,687.60 ftkB 110; 7,686.71 ftkB; 7,687.60 ftkB 2 3/8 in; 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,782.00 110; 7,686.71 ftkB; 7,687.60 ftkB 7,782.00 7,782.00 7,782.00 7,782.00 7,782.00 7,782.00 7,782.00 7,782.00 7,782.00 | | | | DIVOLIT (Earl)) | | - <u>-</u> | | |
| 5688.0 5681.4 MANCOS (MANCOS (final)) 6755.9 6729.3 GALLUP (GALLUP (final)) 7,860.9 7,384.0 7,860.9 7,384.0 7,860.9 7,384.0 7,602.4 CBEENHCORN (GBEENHCORN (final)) 2,602.7 7,384.0 7,602.4 7,652.53 ft/kB; 7,654.63 ft/kB 7,622.6 7,632.6 7,632.6 7,652.53 ft/kB; 7,655.73 ft/kB 7,632.6 7,654.63 ft/kB; 7,655.73 ft/kB 7,632.6 2 3/8in, Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 7,654.63 ft/kB; 7,658.73 ft/kB 7,645.7 2 3/8in, 1.78° FN; 2 3/8 in; 4.70 lb/ft; P-110; 7,685.73 ft/kB; 7,685.73 ft/kB 7,664.7 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,685.73 ft/kB; 7,687.60 ft/kB 2 3/8in, 1/2 MS EXP CK; 2 3/8 in; 4.70 lb/ft; P-110; 7,680.71 ft/kB Production Casing Cement, Casing, 10/11/2 2 2/8 (plug); 7,782.00-7,785.00; 2007-10-11 10; 7,686.71 ft/kB; 7,687.60 ft/kB 7,664 Cement Plug (PBTD); 7,782.00 7,664 Cement Plug (PBTD); 7,782.00 | | | POINT LOOKOUT (POINT LOC | JKOUT (final)) | | 88 1 | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 67559 67393 GALLUP (GALLUP (final)) 7,3807 7,3840 7,3807 7,3840 7,3809 7,3442 7,6010 7,4443 7,6024 23/8in, Tubing Pup Jt; 2.3/8 in; 4.70 lb/ft; J-55; 7,652 7,652,53 ftK8; 7,654.63 ftKB 7,652 7,652,63 ftK8; 7,655,73 ftK8 7,652 7,654.63 ftK8; 7,658.73 ftK8 7,654.63 ftK8; 7,658.73 ftK8; 7,658.73 ftK8 7,654.7 7,6700 7,6700 2 3/8in, 1/2 MS EXP CK; 2.3/8 in; 4.70 lb/ft; P-110; 7,668.71 ftK8; 7,658.73 ftK8 7,6700 2 3/8in, 1/2 MS EXP CK; 2.3/8 in; 4.70 lb/ft; P-110; 7,668.71 ftK8; 7,657.60 ftK8 7,6700 2 3/8in, 1/2 MS EXP CK; 2.3/8 in; 4.70 lb/ft; P-110; 7,668.71 ftK8; 7,657.60 ftK8 7,6700 2 3/8in, 1/2 MS EXP CK; 2.3/8 in; 4.70 lb/ft; P-110; 7,668.71 ftK8; 7,657.60 ftK8 110; 7,686.71 ftK8; 7,687.60 ftK8 2 3/8in, 1/2 MS EXP CK; 2.3/8 in; 4.70 lb/ft; P-110; 7,664. 2 7,654 Cement Plug (PBTD); 7,782.00 2 7,654 Cement Plug (PBTD); 7,782.00 7,782.00 ftK8; 4 1/2 in; 4.00 in; 7,664 Cement Plug (PBTD); 7,782.00 | | | MANCOS (MANCOS (finali) | | | | | |
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Regejzed by OGD: 4/4/2024 9:49:03 AM

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

1 API Number

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

Page 17 of 33

Form C-102 August 1, 2011

Permit 362579

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

2. Pool Code 3. Pool Name

| | 10. Surface Location | | | | | | | | | | |
|---|----------------------|-----|----|----------------------------|--|--|--|--|--|--|--|
| 7. OGRID No. 8. Operator Name 9. Elevation 372171 HILCORP ENERGY COMPANY 6244 | | | | | | | | | | | |
| 4. Property Code 5. Property Name 6. Well No. 318433 SAN JUAN 30 5 UNIT 078N | | | | | | | | | | | |
| 30-039-3025 | 5 | 716 | 29 | BASIN FRUITLAND COAL (GAS) | | | | | | | |

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County | |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|-------------------|
| 0 | 7 | 30N | 05W | | 675 | S | 2075 | E | - | RIO ARRIBA |
| | | | | | | | | | | |

- --

.. . .

| | 11. Bottom Hole Location if Different From Surface | | | | | | | | | |
|-------------------------------|--|-----------------|---------------------|---------|------------------|----------|---|-------------------|---------------|----------------------|
| UL - Lot O | Section 7 | Township 30N | Range 05W | Lot Idn | Feet From 959 | N/S Line | S | Feet From 2121 | E/W Line E | County RIO ARRIBA |
| 12. Dedicated Acres 320.00 | | | 13. Joint or Infill | | 14. Consolidatio | n Code | | | 15. Order No. | |

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

| OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. E-Signed By: Title: Operations Regulatory Tech Sr. |
|--|
| Date: 4/1/2024 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 Edwards |
| Date of Survey: 8/9/2006 Certificate Number: 15269 |

| Re | ceived by | OCD: | 4/4/2024 | 9:49:03 | AM |
|----|-----------|------|----------|---------|----|
|----|-----------|------|----------|---------|----|

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.

<u>Section 1 – Plan Description</u> Effective May 25, 2021

OGRID: <u>37217</u>1 Date: 4/1/2024

I. Operator: <u>Hilcorp Energy Company</u>

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 30-5 Unit 78N | 30-039-30255 | O-07-30N-05W | 675 FSL 2075 FEL | 0 | 100 | 5 |
| | | | | | | |

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 |
|------------------|---------------------|-----------|--------------------|---------------------------------|---------------------------|--------------------------|
| SJ 30-5 Unit 78N | <u>30-039-30255</u> | | | | | |
| | | | | | | |

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

VII. Operational Practices: \boxtimes 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: \boxtimes 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.

 \boxtimes 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. \Box 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 \Box will \Box 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 \Box does \Box 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).

 \Box Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box 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:

 \boxtimes 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

 \Box 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. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (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: |
|---|
| Printed Name: Amanda Walker |
| Title: Operations Regulatory Tech Sr. |
| E-mail Address: <u>mwalker@hilcorp.com</u> |
| Date: 4/3/2024 |
| Phone: 346.237.2177 |
| 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.

Regejyed by OGD: 4/4/2024 9:49:03 AM

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

OCD Permitting

Page 24 of 33

Form C-102 August 1, 2011

Permit 362579

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

| WELL LOCATION AND ACREAGE DEDICATION PLAT | | | | | | |
|---|------------------------|----------------------------|--|--|--|--|
| 1. API Number | 2. Pool Code | 3. Pool Name | | | | |
| 30-039-30255 | 71629 | BASIN FRUITLAND COAL (GAS) | | | | |
| 4. Property Code | 5. Property Name | 6. Well No. | | | | |
| 318433 | SAN JUAN 30 5 UNIT | 078N | | | | |
| 7. OGRID No. | 8. Operator Name | 9. Elevation | | | | |
| 372171 | HILCORP ENERGY COMPANY | 6244 | | | | |

10. Surface Location

| UL - Lot Section Township Range Lot Idn Feet From N/S Line Feet From I | | |
|--|-----------------|--------|
| | E/W Line County | |
| O 7 30N 05W 675 S 2075 | | ARRIBA |

| 11. Bottom Hole Location If Different From Surface | | | | | | | | |
|--|---------------------|---------|------------------|----------|---|-------------------|---------------|----------------------|
| UL - Lot Section Township O 7 3(| Range N 05W | Lot Idn | Feet From 959 | N/S Line | s | Feet From 2121 | E/W Line E | County RIO ARRIBA |
| 12. Dedicated Acres 320.00 | 13. Joint or Infill | | 14. Consolidatio | on Code | | | 15. Order No. | |

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

| OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. E-Signed By: |
|--|
| 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 Edwards |
| Date of Survey: 8/9/2006 |
| Certificate Number: 15269 |

| Re | ceived by | OCD: | 4/4/2024 | 9:49:03 | AM |
|----|-----------|------|----------|---------|----|
|----|-----------|------|----------|---------|----|

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.

<u>Section 1 – Plan Description</u> Effective May 25, 2021

OGRID: <u>37217</u>1 Date: 4/1/2024

I. Operator: <u>Hilcorp Energy Company</u>

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 30-5 Unit 78N | 30-039-30255 | O-07-30N-05W | 675 FSL 2075 FEL | 0 | 100 | 5 |
| | | | | | | |

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 |
|------------------|---------------------|-----------|--------------------|---------------------------------|---------------------------|--------------------------|
| SJ 30-5 Unit 78N | <u>30-039-30255</u> | | | | | |
| | | | | | | |

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

VII. Operational Practices: \boxtimes 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.

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. \Box 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 \Box will \Box 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 \Box does \Box 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).

 \Box Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box 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:

 \boxtimes 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

 \Box 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. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (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: |
|---|
| Printed Name: Amanda Walker |
| Title: Operations Regulatory Tech Sr. |
| E-mail Address: <u>mwalker@hilcorp.com</u> |
| Date: 4/3/2024 |
| Phone: 346.237.2177 |
| 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.
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| From: | Mandi Walker |
|--------------|---|
| To: | Lowe, Leonard, EMNRD |
| Cc: | McClure, Dean, EMNRD |
| Subject: | RE: [EXTERNAL] OIL ALLOCATION - DHC - S J. 30 5 Unit Well No. 78N |
| Date: | Thursday, August 1, 2024 10:43:26 AM |
| Attachments: | image001.png |

Good morning Leonard,

The RE sent me a quick note to say: The MV and DK have historically not produced any oil. Any oil the well makes will be allocated to the FRC. I double checked my paperwork to make sure there was a box with that information listed.

Let me know if you need anything from me.

Thank you,

Mandí Walker SJE/SJN (1,2,7) Regulatory Technician Sr. Office: 346.237.2177 <u>mwalker@hilcorp.com</u>

From: Lowe, Leonard, EMNRD <Leonard.Lowe@emnrd.nm.gov>
Sent: Thursday, August 1, 2024 11:01 AM
To: Mandi Walker <mwalker@hilcorp.com>
Cc: McClure, Dean, EMNRD <Dean.McClure@emnrd.nm.gov>
Subject: [EXTERNAL] OIL ALLOCATION - DHC - S J. 30 5 Unit Well No. 78N
Importance: High

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

Ms. Amanda Walker,

In review of your DHC application for the above subject well, I have a question.

Your application states 0% Oil Allocation for oil within the commingling application, how does Hilcorp intend to move forward if this well receives Oil?

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 adjust as needed based on average formation yields and new fixed gas allocation.

| Formation | Yield (bbl/MM) | Remaining Reserves (MMcf) | % Oil Allocation |
|-----------|----------------|---------------------------|------------------|
| MV | 0 | 527 | 0% |
| DK | 0 | 134 | 0% |
| FRC | 0 | 967 | 0% |
| | • • | · · · | 0% |

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

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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: | OGRID: |
|------------------------|--------------------------------------|
| HILCORP ENERGY COMPANY | 372171 |
| 1111 Travis Street | Action Number: |
| Houston, TX 77002 | 330054 |
| | Action Type: |
| | [C-107] Down Hole Commingle (C-107A) |

CONDITIONS

| Created | Condition | Condition | |
|---------|-----------|-----------|--|
| By | | Date | |
| llowe | None | 7/24/2024 | |

CONDITIONS

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Action 330054