U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

04/25/2024

Well Name: SUNRAY G

Well Location: T31N / R9W / SEC 22 / NWNW / 36.889235 / -107.775917

County or Parish/State: SAN JUAN / NM

Well Number: 2B

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078386A

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004533908

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2786894

Type of Submission: Notice of Intent

Type of Action: Recompletion

Date Sundry Submitted: 04/25/2024

Time Sundry Submitted: 08:54

Date proposed operation will begin: 08/01/2024

Procedure Description: Hilcorp Energy Company requests to REVISE the perforations on the previously approved RC NOI. Please see the attached procedure, current and proposed wellbore diagram, plat and natural gas management plan.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Sunray_G2B__API_3004533908__FRC_Recomplete_NOI_Procedure_UPDATE_HEC04252024_20240425085349.pdf

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Operator: HILCORP ENERGY COMPANY

Operator

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

Operator Electronic Signature: AMANDA WALKER

Signed on: APR 25, 2024 08:53 AM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST

City: HOUSTON **State:** TX

Phone: (346) 237-2177

Email address: MWALKER@HILCORP.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 04/25/2024

Signature: Kenneth Rennick

HILCORP ENERGY COMPANY
SUNRAY G 2B
FRUITLAND COAL RECOMPLETION SUNDRY

Prepared by:	Scott Anderson
Preparation Date:	February 20, 2024

WELL INFORMATION			
Well Name:	SUNRAY G 2B	**State:**	NM
API #:	3004533908	**County:**	SAN JUAN
Area:	4	**Location:**	585' FNL & 210' FWL - Unit D - Section 22 - T 031N - R 009W
Route:	0408	**Latitude:**	36.8892333 N
Spud Date:	1/29/2007	**Longitude:**	-107.77527 W

PROJECT DESCRIPTION

Isolate the Mesaverde and Dakota production, perforate and stimulate the Fruitland Coal in 1-2 stages via a casing frac. Trimmingle the Fruitland Coal production with the existing Mesaverde and Dakota production. Strip facilities if necessary; repair production eqmt as needed, upgrade automation

CONTACTS

Title	Name	Office Phone #	Cell Phone #
Engineer	Scott Anderson		248-761-3965
Area Foreman	Colter Faverino		326-9758
Lead	Ramon Florez		599-3479
Artificial Lift Tech	Jesse McDowell		386-8062
Operator	Lawrence Lucero		592-1893

HILCORP ENERGY COMPANY
SUNRAY G 2B
FRUITLAND COAL RECOMPLETION SUNDRY

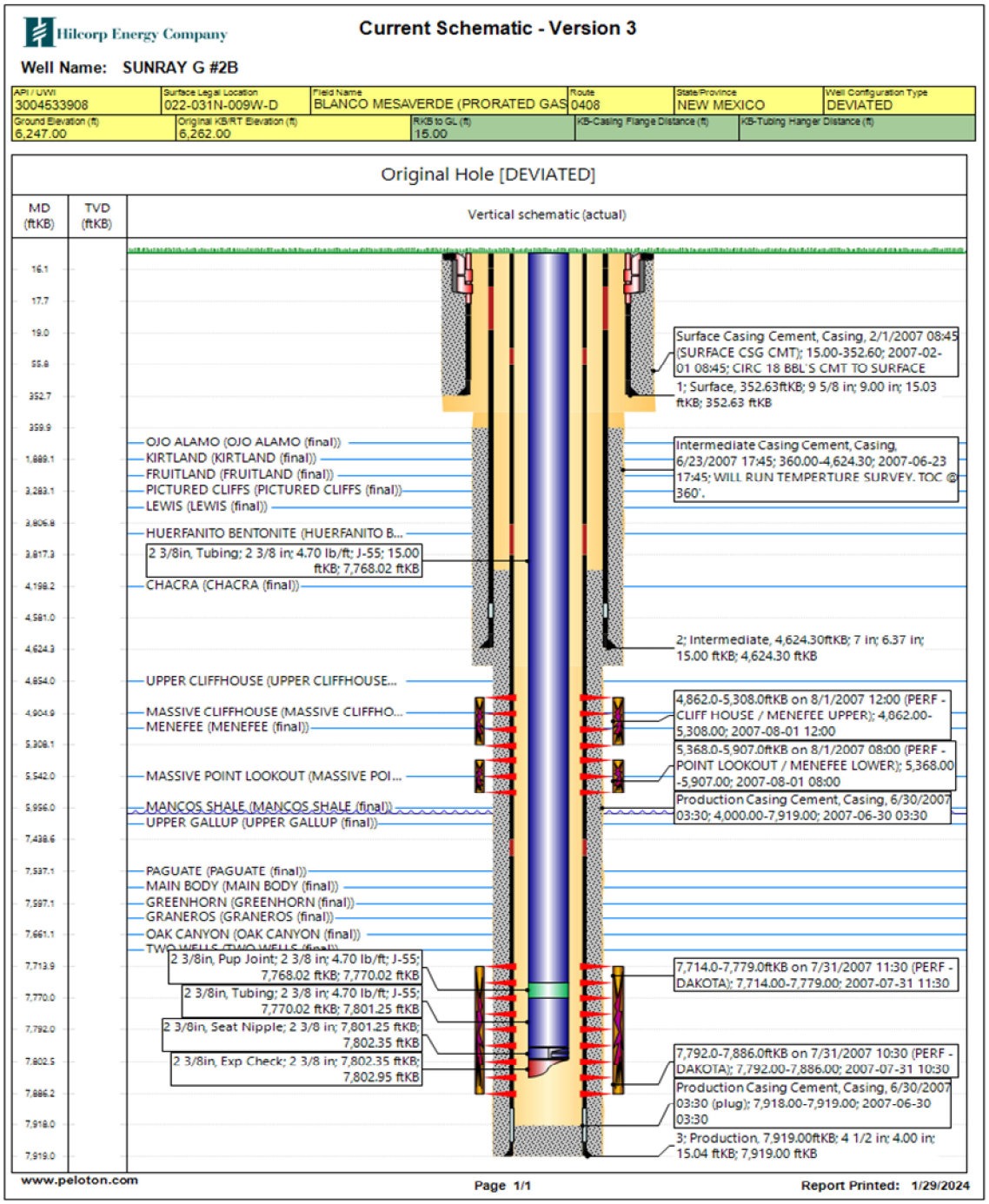
JOB PROCEDURES

☑ NMOCD **Contact OCD 24 hrs prior to MIRU. Record and document all casing pressures daily, including BH, IC (if present)**
☑ BLM **and PC. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.**

1. MIRU service rig and associated equipment. Pull insert pump and rods
2. Nipple down wellhead, nipple up and test BOPs per HEC, State, and Federal guidelines.
3. TOOH with 2-3/8" tubing
4. Set a **4-1/2" bridge plug @ 4,812'** to isolate the Mesaverde formation.
5. RU pressure test truck. **Perform a Mechanical Integrity Test on the 4-1/2" casing above the plug at 4,812'.** Chart record the MIT test (Notify BLM and NMOCD +24hr before the actual test).
6. RU wireline, perforate for circulation squeeze 100' below the bottom proposed perforation
   NOTE: a CBL was run in 2007 and an additional CBL will not be required prior to this operation
7. RIH and set a CICR ~50' above the circulation squeeze perforations.
8. RU cementers, sting into CICR, establish circulation, and squeeze the 4-1/2" x 7" annulus with cement to sufficiently isolate the proposed perforation interval.
9. RIH w/ bit, drill out the cement and the CICR, PT sqz. POOH
10. RU pressure test truck. **Perform a Mechanical Integrity Test on the 4-1/2" wellbore above the plug at 4,812'**. Chart record the MIT test (Notify BLM and NMOCD +24hr before the actual test).
11. Pressure test the casing to **Max Frac Pressure of 5000 psi** (80% of burst on 4-1/2" 11.6# L80 is 6,240 psi)
12. RU E-line crew. Perforate the Fruitland Coal. **(Top perforation @ 2,889', Bottom perforation @ 3,283').**
13. N/D BOP, N/U 10K frac tree and test frac stack to frac pressure.
14. RU stimulation crew. Frac the Fruitland Coal in one or two stages via the casing
15. MIRU service rig. Nipple down frac stack, nipple up BOP and test. Kill well with fluid, if necessary
16. **Pending C107A approval**, drill out the Mesaverde/Dakota Isolation plug. **Clean out to PBTD at 7,918'**
    NOTE: An extended test on the FRC may be necessary in order to verify production prior to drilling out the isolation plug. This test will not exceed 90 calendar days from 1st delivery.
17. TIH and land 2-3/8" production tubing.
18. **Flowback well thru flowback separator and sand trap. Get a trimmingled Fruitland Coal / Mesa Verde / Dakota flow rate.**

HILCORP ENERGY COMPANY
SUNRAY G 2B
FRUITLAND COAL RECOMPLETION SUNDRY

SUNRAY G 2B - CURRENT WELLBORE SCHEMATIC



HILCORP ENERGY COMPANY
SUNRAY G 2B
FRUITLAND COAL RECOMPLETION SUNDRY

SUNRAY G 2B - PROPOSED WELLBORE SCHEMATIC (PRIOR TO DRILLOUT/COMMINGLING)

Hilcorp Energy Company

WBD Proposed Formations 1

Well Name: SUNRAY G #2B

API / UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3004533908	022-031N-009W-D	BLANCO MESAVERDE (PRORATED GAS		NEW MEXICO	DEVIATED
Ground Elevation (ft)	**Casing Flange Elevation (ft)**	**RKB to GL (ft)**	**KB-Casing Flange Distance (ft)**	**Original Spud Date**	**Rig Release Date**
6,247.00		15.00		1/29/2007 10:30	6/30/2007 07:15

Most Recent Job

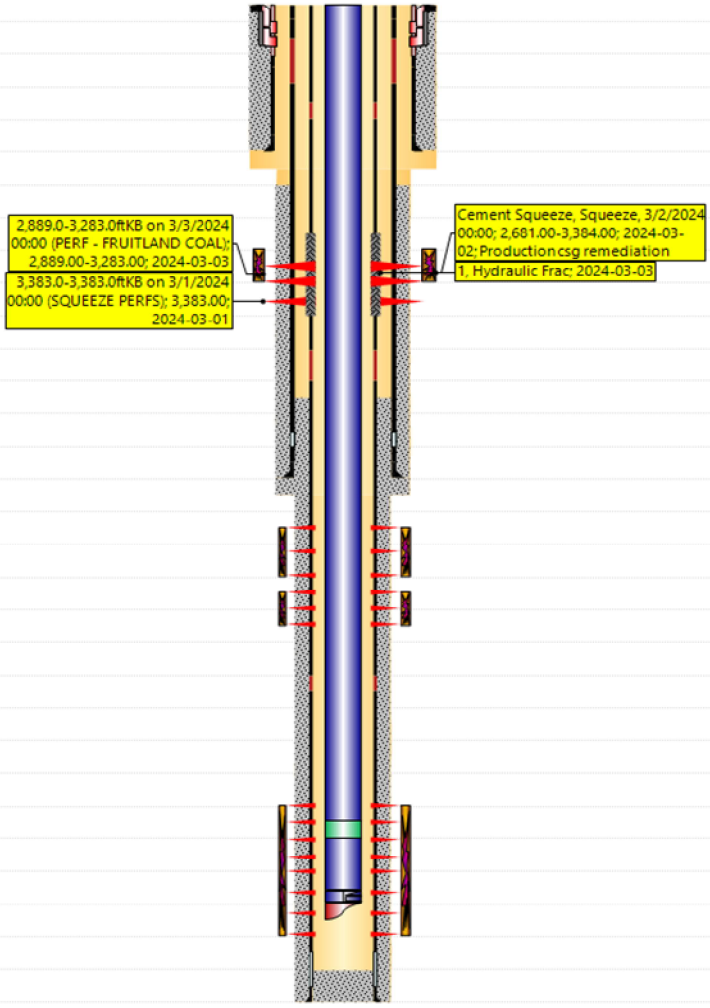
Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
COMPLETIONS	INITIAL COMPLETION	INITIAL COMPLETION	7/3/2007	9/27/2007

TD: 7,919.0

Original Hole [DEVIATED]

MD (ftKB)	TVD (ftKB)	Formation Tops	MD
16.1			
17.7			
19.0			
55.8			
352.7			
359.9			
		OJO ALAMO	1,682.0
1,889.1		KIRTLAND	1,889.0
2,831.0		FRUITLAND	2,831.0
3,283.1		PICTURED CLIFFS	3,283.0
3,383.9			
		LEWIS	3,491.0
3,806.8		HUERFANITO BENT...	3,807.0
3,817.3			
4,198.2		CHACRA	4,196.0
4,581.0			
4,624.3			
4,854.0		UPPER CLIFFHOUSE	4,854.0
4,904.9		MASSIVE CLIFFHO...	4,905.0
		MENEFEE	5,218.0
5,308.1			
5,542.0		MASSIVE POINT L...	5,542.0
5,956.0		MANCOS SHALE	5,956.0
		UPPER GALLUP	6,847.0
7,438.6			
7,537.1		PAGUATE	7,537.0
		MAIN BODY	7,581.0
7,597.1		GREENHORN	7,597.0
		GRANEROS	7,646.0
7,661.1		OAK CANYON	7,661.0
		TWO WELLS	7,710.0
7,713.9			
7,770.0			
7,792.0			
7,802.5			
7,886.2			
7,918.0			
7,919.0			

Vertical schematic (proposed)



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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-102
August 1, 2011

Permit 360416

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-045-33908	71629	BASIN FRUITLAND COAL (GAS)
4. Property Code	**5. Property Name**	**6. Well No.**
318748	SUNRAY G	002B
7. OGRID No.	**8. Operator Name**	**9. Elevation**
372171	HILCORP ENERGY COMPANY	6247

10. Surface Location

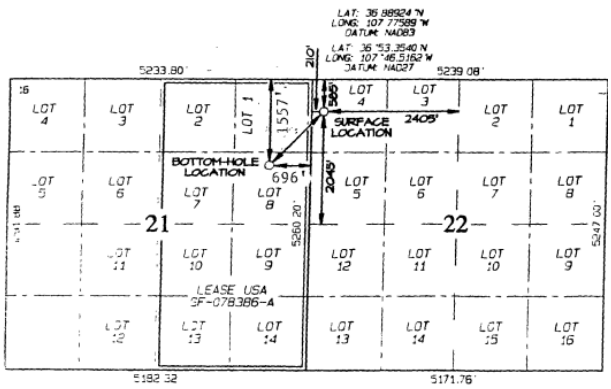
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	22	31N	09W	4	585	N	210	W	SAN JUAN

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	21	31N	09W	8	1557	N	696	E	SAN JUAN

12. Dedicated Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
314.96			

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: 2/26/2024

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Jason Edwards
Date of Survey: 4/12/2006
Certificate Number: 15269

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Hilcorp Energy Company **OGRID:** 372171 **Date:** 02/26/2024

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

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Sunray G 2B	30-045-33908	D-22-31N-09W Lot: 4	585 FNL & 210 FWL	0	500	1

IV. Central Delivery Point Name: Chaco Blanco 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
Sunray G 2B	**30-045-33908**					

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

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

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

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

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

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Amanda Walker
Title: Operations Regulatory Tech Sr.
E-mail Address: mwalker@hilcorp.com
Date: 2/26/2024
Phone: 346-237-2177

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

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.

District I
1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 337676

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 337676
	Action Type: [C-103] NOI Recompletion (C-103E)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	NSL required	4/25/2024
dmcclure	DHC required	4/25/2024
dmcclure	Notify NMOCD 24 Hours Prior to beginning operations.	4/25/2024
dmcclure	All conducted logs shall be submitted to the Division as a [UF-WL] EP Well Log Submission (WellLog).	4/25/2024
dmcclure	The appropriate compliance officer supervisor shall be consulted and remedial action conducted as directed if the cement sheath around the casing is not adequate to protect the casing and isolate strata from: (a) the uppermost perforation in each added pool to at least 150 feet above that perforation; and (b) the lowermost perforation in each added pool to at least 100 feet below that perforation.	4/25/2024