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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

#### **State of New Mexico**

Form C-101 Revised July 18, 2013

## **Energy Minerals and Natural Resources**

**Oil Conservation Division** 

1220 South St. Francis Dr.

**Santa Fe, NM 87505** 

☐AMENDED REPORT
-----------------

			Hilcorp Energy ( 382 Road 3 Aztec, NM 8	Company 100				<sup>2</sup> OGRID Numb 372171 <sup>3</sup> API Number 30-039-22989	
4. Prop 31	erty Code 8839		3. Property Name San Juan 31-6 Unit						ell No. 42
		•		7. Surfac	ce Location				
UL - Lot B	Section 36	Township 31N	Range 06W	Lot Idn	Feet from 790	N/S Line N	Feet From 1020	E/W Line E	County Rio Arriba
	T			8 Proposed B					T
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
				9. Pool I	nformation				
lanco Mesave	rde			Pool Nar	ne				Pool Code 72319
			12	Additional V				15.00	
	rk Type A		<sup>12.</sup> Well Type G	13.	Cable/Rotary	14	Lease Type S	15. Grou	und Level Elevation 6511
	Iultiple Y		<sup>17.</sup> Proposed Depth 5213-6207	Blanco Mes	<sup>18.</sup> Formation saverde	· · · · · · · · · · · · · · · · · · ·			
Depth to Ground water Distance from nearest fresh water				n water well		Distance t	to nearest surface v	water	
Type	1	e Size	21. Pr	roposed Casing  Casing Weigh		t Program Setting Depth	Sacks of C	Cement	Estimated TOC
			Casing	Cement Progra	m· Additio	nal Comments			
			Cusing	Cement 1 rogic	iii. Huullo				
			<sup>22.</sup> <b>P</b> 1	roposed Blowou	ıt Preventio	n Program			
	Type			Vorking Pressure		Test Press	ure	Ma	nufacturer
					<u></u>				
	edge and bel	ief.		e and complete to th  (A) NMAC   and		OIL	CONSERVAT	TION DIVISI	ION
	B) NMAC	, if applical	ble.		Appro	oved By:	an R	Mollu	N
further cei 9.15.14.9 (I	Alla	eler							
further cer 9.15.14.9 (I ignature:					Title:	Petroleum E	ngineer		
further cer 9.15.14.9 (I ignature:	: Amanda V					Petroleum E		xpiration Date: 0	7/02/2026
further cer 9.15.14.9 (I Signature: Crinted name	: Amanda V	/alker	n					xpiration Date: 0	7/02/2026



### HILCORP ENERGY COMPANY ۲Y

Hilcorp	SAN JUAN 31-6 UNIT 42
	MESAVERDE RECOMPLETION SUNDR
	API: 3003922989
	JOB PROCEDURES

BLM  $\overline{\phantom{a}}$ 

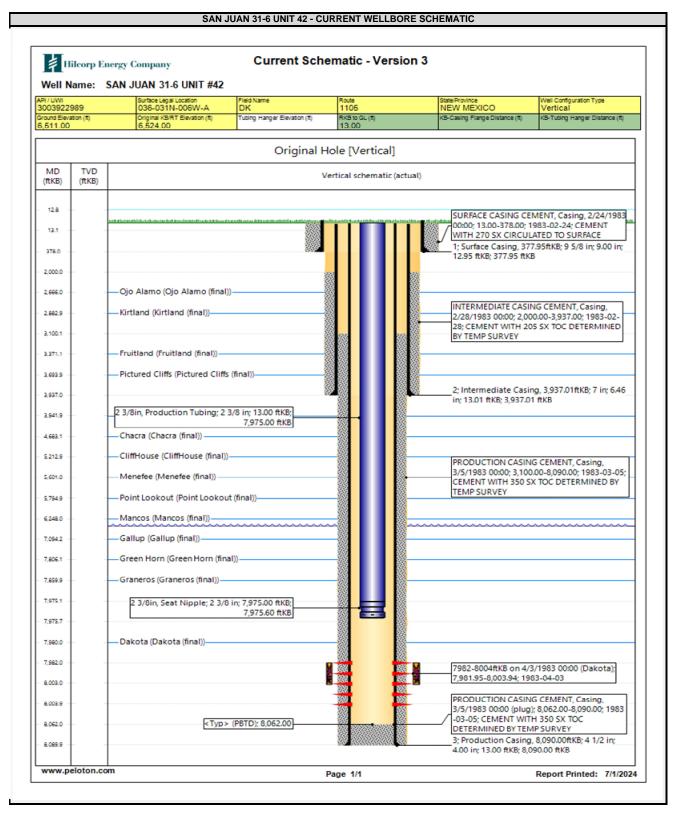
**NMOCD** 

~

- Contact OCD and BLM (where applicable) 24 hrs prior to MIRU or running MITs. Record and document all casing pressures daily, including BH, IC (if present) and PC. Comply with all NMOCD, BLM (where applicable), and HEC safety and environmental regulations.
- 1. Hold pre-job safety meeting. MIRU service rig and associated equipment. NU and test BOP per HEC, State, and Federal guidelines.
- 2. TOOH with 2-3/8" tubing.
- 3. Set a 4-1/2" plug within 50' of the top Dakota perforation (+/-7,932') for zonal isolation.
- 4. Load hole with fluid, PT the csg to 600 psi and run a CBL on the 4-1/2" casing. Verify cement bond within the Mesaverde and confirm TOC. Review CBL results with engineering and regulatory agencies. Perform cmt remediation, as required.
- 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 pumped down casing: ND BOP, NU frac stack and test frac stack and casing to frac pressure.
- 7. RU WL. Perforate the Mesaverde. (Top perforation @ 5,213', Bottom perforation @ 6,207').
- 8. If frac will be pumped down a frac string: RIH w/ frac string and packer. Set packer within 50' of top perforation. ND BOP, NU frac stack. Pressure test frac string and frac stack to frac pressure.
- 9. RDMO service rig. RU stimulation crew. Frac the Mesaverde 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 performed down frac string: POOH w/ frac string and packer.
- 12. TIH with a bit and drill out top isolation plug and any stage plugs (if necessary). Clean out to the top of the Dakota isolation plug.
- 13. Pending commingle approval, drill out Dakota isolation plug. Cleanout to PBTD at 8,062'. TOOH w/ cleanout assembly.
- 14. Run and land production tubing. RDMO service rig and associated equipment. Return well to production.

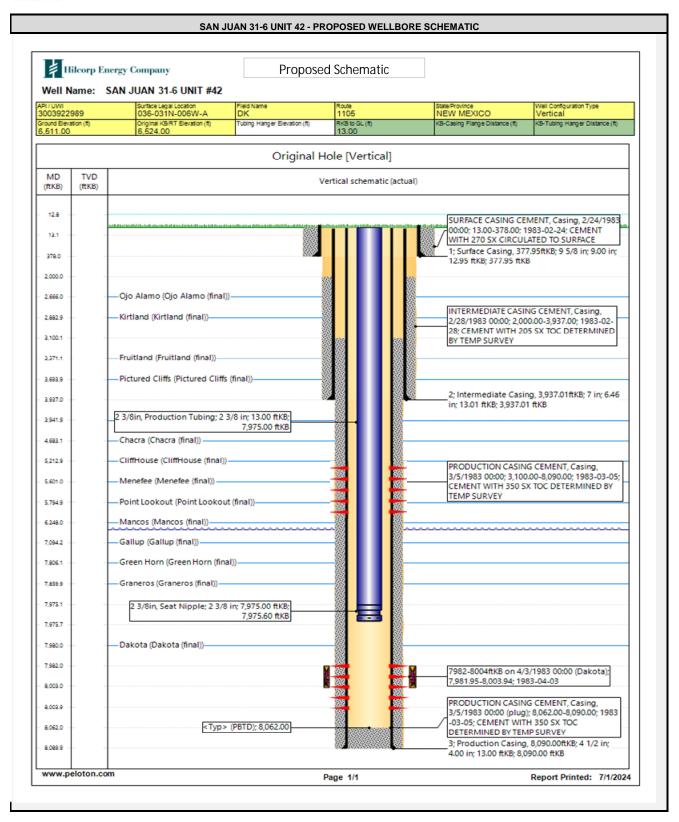


# HILCORP ENERGY COMPANY SAN JUAN 31-6 UNIT 42 MESAVERDE RECOMPLETION SUNDRY





# HILCORP ENERGY COMPANY SAN JUAN 31-6 UNIT 42 MESAVERDE RECOMPLETION SUNDRY



Page 5 of 14

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

Form C-102 August 1, 2011 Permit 365916

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-039-22989	72319	BLANCO-MESAVERDE (PRORATED GAS)
4. Property Code 318839	5. Property Name SAN JUAN 31 6 UNIT	6. Well No. 042
7. OGRID No. 372171	8. Operator Name HILCORP ENERGY COMPANY	9. Elevation 6511

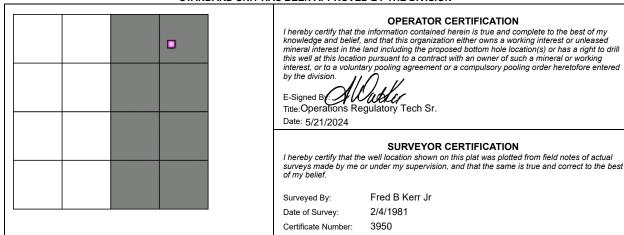
10. Surface Location

ſ	UL - Lot	Section		Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
	В		36	31	۷) 06W	/	790	N		E	RIO	
											ARRIBA	

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres			13. Joint or Infill		14. Consolidation Code			15. Order No.	
225.44								R-10987-A(6)	

#### 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



#### 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 <u>Effective May 25, 2021</u>

I. Operator: Hile	orp Energy Cor	npany		00	GRID: _	372171	Date: <u>6/24/2024</u>	
II. Type: ⊠ Orig	inal □ Amendı	ment due to ☐ 19.15	5.27.9.D(6)(a)	NMAC	□ 19.15	5.27.9.D(6)(b) N	IMAC □ Other.	
If Other, please de	scribe:	·						
		g information for eapad or connected to				r set of wells pr	oposed to be dril	led or proposed to
Well Name	Name API ULSTR Footages			Anticipated (BBL/D	Oil Anticipated Gas MCF/D	Anticipated Produced Water BBL/D		
SJ 31-6 Unit 42	3003922989	B-36-31N-06W	790 FNL	1020	FEL	0.25	500	3
V. Anticipated Sc	a single well pad or	-		l delivery	pleted well or so	et of wells propose  Initial Flow Back Date		
SJ 31-6 Unit 42	3003922	989						
56 CT 0 CMC 12	0000722	<u> </u>						
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	Available Maximum Daily Capacity
			Start Date	of System Segment Tie-in

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

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

XIII. Line Pressure. Operator $\square$ does $\square$ does not anticipate that its existing well(s) connected to the same segment, or portion	on, 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'	e nlan te	manage	production	in reconnec	to the	incressed	line pressure.
ш	Attach v	Operator	s pian to	) manage	production	in response	e to the	e increased	line pressure.

XIV. Confidentiality: $\square$ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information	tion 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 spe	cific information
for which confidentiality is asserted and the basis for such assertion.	

(h)

(i)

# Section 3 - Certifications Effective May 25, 2021

	<del></del>	
Operator certifies that, af	ter reasonable inquiry and based on the available information at the time of submittal:	
one hundred percent of the	o connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport ne anticipated volume of natural gas produced from the well(s) commencing on the date of first production, arrent and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering	
hundred percent of the an into account the current a	ble to connect to a natural gas gathering system in the general area with sufficient capacity to transport one ticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.  ox, Operator will select one of the following:	
Well Shut-In. ☐ Operator D of 19.15.27.9 NMAC;	r will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection or	
	an. □ 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>(b)</b>	power generation for grid;	
(c)	compression on lease;	
( <b>d</b> )	liquids removal on lease;	
(e)	reinjection for underground storage; reinjection for temporary storage;	
(f) (g)	reinjection for enhanced oil recovery;	
( <u>\$</u> )	rempedient for eminifed on receivery,	

### **Section 4 - Notices**

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

other alternative beneficial uses approved by the division.

fuel cell production; and

- (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: All weller
Printed Name: Amanda Walker
Title: Operations Regulatory Tech Sr.
E-mail Address: <a href="mailto:mwalker@hilcorp.com">mwalker@hilcorp.com</a>
Date: 6/24/2024
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
  - o This gas capture plan isn't for a well being drilled.
- 3. Subsection (C) Venting and flaring during completion or recompletion
  - o 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.
  - o 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.
  - o 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.
  - o 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
  - o Measurement equipment is installed to measure the volume of natural gas flared from process piping.
  - o 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.

From: Mandi Walker

To: McClure, Dean, EMNRD
Cc: Cheryl Weston

Subject: RE: [EXTERNAL] Application ID: 356927; 30-039-22989 SAN JUAN 31 6 UNIT #042

**Date:** Tuesday, July 2, 2024 5:26:30 AM **Attachments:** SJ 31-6 Unit 42 - REVISED NOI.pdf

#### Good morning Dean,

Attached is the revised plan bringing up the bottom perforations. Please let me know if you need anything from me for your review and approval.

### Mandi Walker

SJE/SJN (1,2,7) Regulatory Technician Sr.

Office: 346.237.2177 mwalker@hilcorp.com

From: McClure, Dean, EMNRD < Dean. McClure@emnrd.nm.gov>

Sent: Friday, June 28, 2024 5:28 PM

**To:** Mandi Walker <mwalker@hilcorp.com> **Cc:** Cheryl Weston <cweston@hilcorp.com>

Subject: [EXTERNAL] Application ID: 356927; 30-039-22989 SAN JUAN 31 6 UNIT #042

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

Mandi,

I am reviewing the C-101 referenced in the subject line of this email.

Please review Hilcorp's proposed perforations for the MV pool with consideration to the MV pool extending to 500' below the top of the Point Lookout.

Dean McClure

Petroleum Engineer, Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department (505) 469-8211

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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

Action 356927

#### **CONDITIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	356927
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

#### CONDITIONS

Created By	Condition	Condition Date
dmcclure	Notify NMOCD 24 Hours Prior to beginning operations.	7/2/2024
dmcclure	DHC required	7/2/2024
dmcclure	All conducted logs shall be submitted to the Division as a [UF-WL] EP Well Log Submission (WellLog).	7/2/2024
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.	7/2/2024