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

	REPORT
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_		_	Hilcorp Energy 382 Road Aztec, NM	Company 3100	_			^{2.} OGRID N 37217 ^{3.} API Nur 30-045-27	1 mber	
4. Prope	rty Code 3748	Τ		5.	Property Na Sunray G	ty Name "Well No. 1R				
31	5740			^{7.} Surf	face Locat	tion			IIX	
UL - Lot	Section	Township	Range	Lot Idn	Feet from		Feet From	E/W Line	e County	
L	21	31N	09W		1455'	S	990'	W	San Juan	
	1			8. Proposed	Bottom I	Hole Location			<u> </u>	
UL - Lot L	Section 21	Township 31N	Range 09W	Lot Idn	Feet from 1455'	n N/S Line S	Feet From 990'	E/W Line	County San Juan	
				9. Pool	Informa	tion				
				Pool N Basin Fruit					Pool Code 71629	
						4 •			71029	
11. Woı	k Type		12. Well Type	Additional	13. Cable/Rot		14. Lease Type	15	Ground Level Elevation	
	A		G		18 79		P		6208' 20. Spud Date	
^{16.} M	ıltıple		^{17.} Proposed Depth ~2658' – 3043'	Basin Fru	16. Formatio uitland Coal					
pth to Grou	pth to Ground water Distance from nearest fresh water					ell	Distan	ce to nearest surf	face water	
Туре	Hole	e Size	^{21.} P	Casing Wei		Setting Depth	Sacks	of Cement	Estimated TOC	
			Casina	/Coment Pres	mam. Ada	ditional Commen	.ta			
			Casing	/Cement Prog	grain: Auc	unionai Commen	us			
			22. P	roposed Blow	out Preve	ention Program				
	Type		7	Working Pressure		Test P	ressure		Manufacturer	
23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC and/or				OIL CONSERVATION DIVISION						
19.15.14.9 (B) NMAC , if applicable. Signature:					Approved By:					
gnature:	Outle					Title:				
gnature:	<i>CubLir</i> Amanda W	/alker				Title:	1			
gnature: inted name:		/alker ory Tech Sr.				Title: Approved Date:		Expiration Dat	e:	
gnature:	ons Regulat		n					Expiration Dat	e:	



Prepared by:	Scott Anderson		
Preparation Date:	November 4, 2024		

WELL INFORMATION					
Well Name:	SUNRAY G 1R	State:	NM		
API #:	3004527494	County:	SAN JUAN		
Area:	04	Location:	1455' FSL & 990' FWL - Unit L - Section 21 - T 031N - R 009W		
Route:	0408	Latitude:	36.88018 N		
Spud Date:	11/1/1989	Longitude:	-107.79031 W		

PROJECT DESCRIPTION

Isolate the Mesaverde, perforate and stimulate the UPE Fruitland Coal in 1-2 stages. Commingle the Fruitland Coal production with the existing Mesa Verde production. Strip facilities if necessary; repair production eqmt as needed, upgrade automation

	C	CONTACTS	
Title	Name	Office Phone #	Cell Phone #
Engineer	Scott Anderson		248-761-3965
Area Foreman	Colter Faverino		326-9758
Lead	Calen Wilkins		947-4844
Artificial Lift Tech	Rivver Higgins		419-6075
Rover	Dustin Titus		860-5059
Compression Lead	Jon Sandoval		787-7688
Operator	JJ Griego		330-9038

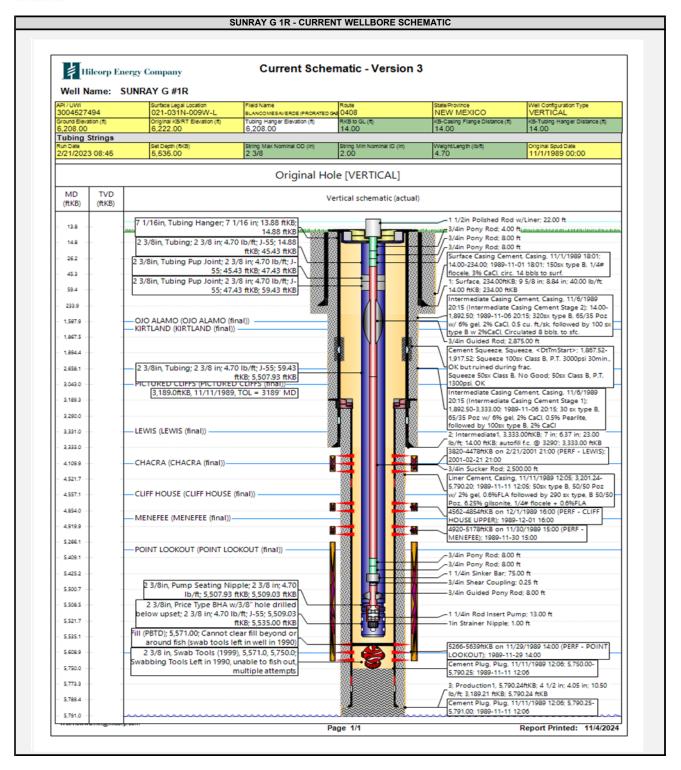


	JOB PROCEDURES
	NMOCD Contact OCD 24 hrs prior to MIRU. Record and document all casing pressures daily, including BH, IC (if present) and PC. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.
1.	MIRU service rig and associated equipment. Pull insert pump and rods
2.	Nipple down 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 at 4,507' to isolate the Mesaverde formation.
5.	RU pressure test truck. Perform a Mechanical Integrity Test on the wellbore above the plug at 4,507'. Chart record the MIT test (notify BLM and NMOCD +24hr before actual test).
6.	RU wireline. Run a CBL f/ 4,507' to surface. Remediate with cement, if necessary, to achieve 150' of cement coverage above the top proposed FRC perforation.
7.	RU E-line crew. Perforate the Fruitland Coal. (Top perforation @ 2,658', Bottom perforation @ 3,043'). NOTE: perforation interval subject to change. All changes will be communicated to the Regulatory Agencies prior to perforating.
8.	Run frac string and packer, hydrotest the frac string to 8,000 psi and set the packer 50' above the proposed top perf
9.	ND wellhead, NU frac stack. PT frac stack to 8,000 psi
10.	RU stimulation crew. Frac the Fruitland Coal in one or more stages via a frac string.
11.	MIRU service rig. Nipple down frac stack, nipple up BOP and test. Kill well with fluid, if necessary
12.	POOH w/ frac string and packer.
13.	Pending C107A approval, drill out the stage, Mesaverde, and Dakota isolation plugs. Clean out to PBTD at 5,571'

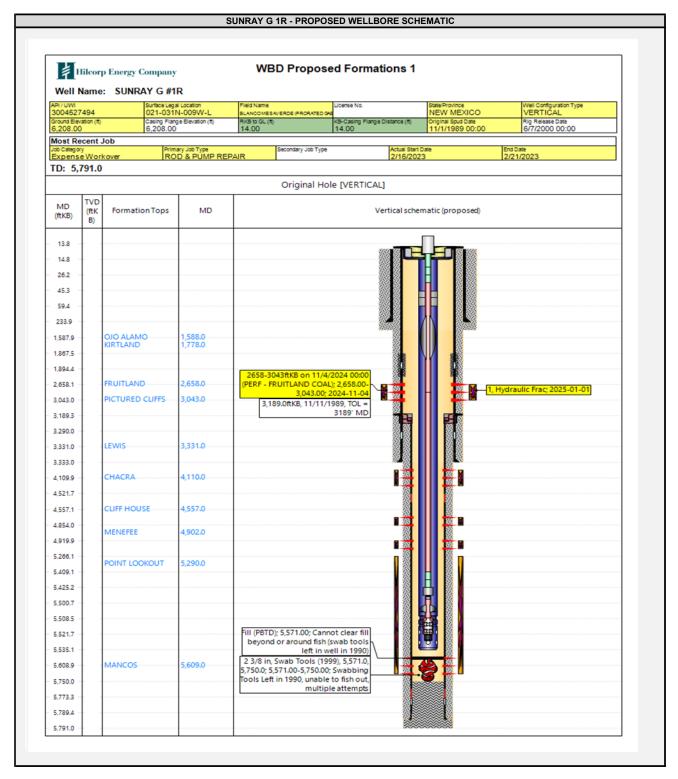
14. TIH and land 2-3/8" production tubing. Run pump and rods, install pumping unit.

15. Flowback well thru flowback separator and sand trap. Get a commingled Fruitland Coal / Mesa Verde flow rate.









Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462

General Information Phone: (505) 629-6116

Online Phone Directory Visit:

https://www.emnrd.nm.gov/ocd/contact-us/

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

Revised July 9, 2024
Submit Electronically
via OCD Permitting

	☐ Initial Submittal
Submittal Type:	☐ Amended Report
	☐ As Drilled

					WELL LOCA	TION INFORMATION	ſ				
API Nu			Pool Code			Pool Name					
30-045-			71629			Basin Fruitland Coal			l		
Property			Property Na	ame					Well Numb	er	
318748			Sunray G						1R		
OGRID	No.		Operator N							el Elevation	
372171			Hilcorp Ene	ergy Compai	ny				6208'		
Surface	Owner: 🗆 S	State ⊠ Fee □	Tribal 🗆 Fee	deral		Mineral Owner:	☐ State ☐ Fee	□ Tribal □ I	Federal		
					Sur	face Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	1.	ongitude	County	
L	21	31N	09W	Lot	1455' S	990' W	36.880249		07.7909775	San Juan	
L	21	3110	09 0		1433 3	990 W	30.000245	, -1	07.7909773	San Juan	
		1	I.	1	Botton	n Hole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County	
		•							C		
				_							
Dedicated Acres				Overlapping Spacia	Overlapping Spacing Unit (Y/N) Consolidation Code						
317.01		Infill		3004526	954	No C					
				_	1 0	_					
Order Numbers.					Well setbacks are u	inder Common (Jwnership: 🛭	Yes ⊔No			
					Kick (Off Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County	
		· · · · · ·	8						8	,	
	•	•		•	First T	Take Point (FTP)	•	•			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County	
					Last T	ake Point (LTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County	
Unitize	d Area or Ar	ea of Uniform I	nterest	Spacing	Unit Type □ Hor	izontal ⊠ Vertical	Grou	nd Floor Elev	ation:		
5				Spacing	ome Type in 1101	izonai 🖾 🗸 onicai	Siou				
				1			I				
OPER A	TOR CERT	IFICATIONS				SURVEYOR CERTIF	FICATIONS				
OPERATOR CERTIFICATIONS				SON ELON CERTIFICATIONS							

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval with pe located or obtained a compulsory pooling order from the division.

Signature Date

Amanda Walker
Printed Name

mwalker@hilcorp.com
Email Address

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.

Neale Edwards

Signature and Seal of Professional Surveyor

6857

Certificate Number

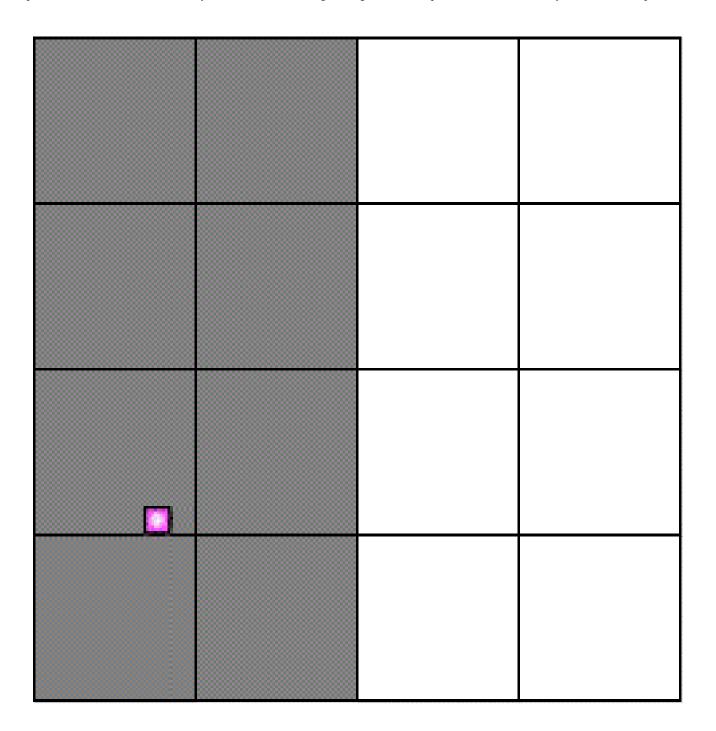
9/9/1989 Date of Survey

Released to Imaging: 12/9/2024 2:13:24 PM

Note: 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.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



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: Hilcor	p Energy Company		0	OGRID: <u>3</u>	72171 I	Date: <u>11/11/20</u>	<u>24</u>
II. Type: ⊠ Origina	al 🗆 Amendment du	ue to □ 19.15.27.9	9.D(6)(a) NMA	AC □ 19.15.	27.9.D(6)(b) N	MAC □ Other.	
If Other, please descri	ribe:						
III. Well(s): Provide be recompleted from					set of wells pro	oposed to be dril	led or proposed to
Well Name	API	ULSTR	Foota	ages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Sunray G 1R	30-045-27494	L-21-31N-09W	1455' FSL 9	990' FWL	0	200	1
V. Anticipated Sche proposed to be recon	edule: Provide the for	ollowing informati e well pad or conn	on for each nev	ral delivery	point.	et of wells propos	
Well Name	API	Spud Date	TD Reached Date		npletion cement Date	Initial Flow Back Date	First Production Date
Sunray G 1R	30-045-27494						
				_			
VII. Operational Prosubsection A through VIII. Best Manager during active and plant	ractices: Attach h F of 19.15.27.8 NN ment Practices:	a complete descri	ption of the ac	ctions Opera	ator will take to	comply with th	e requirements of

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	e capacity to gather	100% of the a	nticipated nati	ural 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 portio	n, 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'	e nlan t	o manage	production	in reconnec	to the i	nergaead 1	line pressure
 Attach v	Oberator	s bian i	o manage	production	in response	e to the t	ncreased i	ime bressure

XIV. Confidentiality: Uperator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information providentiality.	ided 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 infor	rmation
for which confidentiality is asserted and the basis for such assertion.	

(h) (i)

Section 3 - Certifications <u>Effective May 25, 2021</u>

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; power generation for grid; **(b)** (c) compression on lease; (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery;

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: Allasker
Printed Name: Amanda Walker
Title: Operations Regulatory Tech Sr.
E-mail Address: mwalker@hilcorp.com
Date: 11/11/2024
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.

Sante Fe Main Office Phone: (505) 476-3441

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Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 401454

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	401454
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	DHC must be approved prior to commingling production from this well.	12/9/2024