State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Ken McQueen Cabinet Secretary

Matthias Sayer
Deputy Cabinet Secretary

Heather Riley, Division Director Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 5-7-18

Well information:

	frmWellFilterSub												
API WELL#	Well Name	Well #	Operator Name	Туре	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-34450-00- 00	SUNRAY F		HILCORP ENERGY COMPANY	G	A	San Juan	F	l	26	30	N	10	W

Appli	cation Type: P&A Drilling/Casing Change Location Change
0	Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84; Submit Gas Capture Plan form prior to spudding or initiating recompletion operations)
	Other:

Conditions of Approval:

- Notify OCD 24hrs prior to beginning operations.
- Density exception must be approved prior to producing from the Blanco Mesaverde.
- Provide the agencies the planned footage for the remediation footages prior to performing the remedial sqz.
- Provide the agencies a copy of the CBL for review/approval after the remedial squeeze prior to continuing the completion.

NMOCD Approved by Signature

5/29/18 Date Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

SUNDRY	3.	NMSF080750				
Do not use thi abandoned wel	6.	If Indian, Allottee o	r Tribe Name			
SUBMIT IN	7.	7. If Unit or CA/Agreement, Name and/or No. NMNM103103				
1. Type of Well	8.	Well Name and No.				
☐ Oil Well Gas Well ☐ Oth	ner			SUNRAY F 1F		
2. Name of Operator HILCORP ENERGY COMPAN	Contact: NY E-Mail: pshorty@h	PRISCILLA SHORTY nilcorp.com	9.	9. API Well No. 30-045-34450-00-S1		
3a. Address 1111 TRAVIS STREET HOUSTON, TX 77002		3b. Phone No. (include area cod Ph: 505-324-5188	le) 10	Field and Pool or I BASIN DAKOTA		
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)	11	. County or Parish,	State	
Sec 26 T30N R10W NESE 25 36.782884 N Lat, 107.847995				SAN JUAN COL	JNTY, NM	
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICATE NATURE	OF NOTICE, RE	PORT, OR OTH	HER DATA	
TYPE OF SUBMISSION		ТҮРЕ	OF ACTION			
Notice of Intent	☐ Acidize	☐ Deepen	☐ Production	(Start/Resume)	☐ Water Shut-Off	
☑ Notice of Intent	☐ Alter Casing	☐ Hydraulic Fracturing	Reclamation	n	■ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	■ New Construction	Recomplete	:	☐ Other	
☐ Final Abandonment Notice	☐ Change Plans	ange Plans		y Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disp	Disposal		
Describe Proposed or Completed Op. If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Attach that the site is ready for fill the proposed in the prop	ally or recomplete horizontally, rk will be performed or provide loperations. If the operation re bandonment Notices must be fil inal inspection. s to recomplete the subject a with the Mesaverde. At	give subsurface locations and mea the Bond No. on file with BLM/B sults in a multiple completion or re ed only after all requirements, included ect well in the Mesaverde for ached is the Mesaverde plat	sured and true vertica IA. Required subseq completion in a new uding reclamation, ha mation and down t and recomplete	al depths of all pertinuent reports must be interval, a Form 316 ive been completed a hole	ent markers and zones. filed within 30 days 0-4 must be filed once	
Please note that this well is	pending approval of well	density exemption		NMOCD	7 Sair-Ant Municipal Salarini	
				MAY 0 9 201	8	
,			D 1 :	STRICT II		
	Electronic Submission # For HILCORP E	419115 verified by the BLM W NERGY COMFANY, sent to the cessing by JACK SAVAGE on	ne Farmington 05/09/2018 (18JW	(S0123SE)	-	
Name (Printed/Typed) PRISCILL	A SHORTY	Title OPER	ATIONS REGUL	ATORY TECH		
Signature (Electronic S	Submission)	Date 05/07/	2018			

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

_Approved By _JACK SAVAGE _____

Office Farmington

TitlePETROLEUM ENGINEER

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.

Date 05/09/2018

(Instructions on page 2)
** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

THIS SPACE FOR FEDERAL OR STATE OFFICE USE





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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

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

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

Santa Fe, NM 87505

Form C-102 August 1, 2011

Permit 250145

VAZET I	I OCATIONI AN	D ACREAGE DEDICATION PL	AT

1. API Number 30-045-34450	2. Pool Code 72319	3. Pool Name BLANCO-MESAVERDE (PRORATED GAS)
4. Property Code	5. Property Name	6. Well No.
318747	SUNRAY F	001F
7. OGRID No.	8. Operator Name	9. Elevation
372171	HILCORP ENERGY COMPANY	6252

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
1	26	30N	10W		2565	S	885	E		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
12. Dedicated 317.22			13. Joint or Infi	1	14. Consolidation	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

SALL WAS DEFINED 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: Priscilla Shorty
Title: Operations Regulatory Technician
Date: 3/20/2018
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 bes of my belief.
Surveyed By: David Russell
Date of Survey: 6/1/2007
Configurate Numbers 10201



HILCORP ENERGY COMPANY SUNRAY F 1F MESA VERDE RECOMPLETION SUNDRY

JOB PROCEDURES

- 1. MIRU service rig and associated equipment; NU and test BOP.
- 2. TOOH with 2 3/8" tubing set at 7,244'.
- 3. Set a 4-1/2" cast iron bridge plug at +/- 7,100" to isolate the Dakota. Note: TOC at 4,500" by CBL.
- 4. Perforate hole(s) in 4-1/2" casing, set a 4-1/2" cmt retainer below perforations, and squeeze 70 sxs (14.6 bbls) of cement inbetween 7" and 4-1/2" casings.
- 3. WOC, estimated new annulus TOC @ 3,800'. Drill out cement to CIBP.
- 4. Load hole with fluid and run CBL to determine new TOC.
- 4. Pressure test the casing to frac pressure.
- 5. N/D BOP, N/U frac stack and test frac stack to frac pressure.
- 6. Perforate and frac the Mesa Verde in two or three stages. (Top perforation @ 4,325', Bottom perforation @ 5,480')
- 7. Isolate frac stages with a composite bridge plug and set top isolation plug once frac is completed.
- 8. Nipple down frac stack, nipple up BOP and test.
- 9. TIH with a mill and drill out top isolation plug and Mesa Verde frac plugs.
- 10. Clean out to Dakota isolation plug and, when water and sand rates are acceptable, flow test the Mesa Verde.
- 11. Drill out Dakota isolation plug and cleanout to PBTD of 7,369'. TOOH.
- 12. TIH and land production tubing. Get a commingled Dakota/Mesa Verde flow rate.



HILCORP ENERGY COMPANY SUNRAY F 1F MESA VERDE RECOMPLETION SUNDRY

