

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: 5-15-18

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-34742-00-00	SUNRAY F	001G	HILCORP ENERGY COMPANY	G	A	San Juan	F	H	26	30	N	10	W

Application Type:

- ☐ P&A ☐ Drilling/Casing Change ☐ Location Change
☒ **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 NMOCD 24 hours prior to beginning operations.
- Hold C-104 for DHC.

NMOCD Approved by Signature

6/13/18
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMSF080751A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
NMNM103103

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
SUNRAY F 1G2. Name of Operator
HILCORP ENERGY COMPANYContact: MANDI RAY
E-Mail: mray@hilcorp.com9. API Well No.
30-045-34742-00-S13a. Address
1111 TRAVIS STREET
HOUSTON, TX 770023b. Phone No. (include area code)
Ph: 505.324.512210. Field and Pool or Exploratory Area
BASIN DAKOTA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 26 T30N R10W SENE 1350FNL 735FEL
36.783370 N Lat, 107.847480 W Lon

11. County or Parish, State

SAN JUAN COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Hilcorp Energy Company requests permission to recompleate the subject well in the Mesaverde formation and downhole commingle the existing Dakota. Please see the attached procedure, wellbore schematic and plat. A DHC application will be filed and approved prior to commingling. A closed loop system will be used.

NMOC

JUN 04 2018

DISTRICT III

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #420223 verified by the BLM Well Information System
For HILCORP ENERGY COMPANY, sent to the Farmington
Committed to AFMSS for processing by WILLIAM TAMBEKOU on 05/31/2018 (18WMT0864SE)

Name (Printed/Typed) MANDI RAY

Title OPERATIONS REGULATORY TECH

Signature (Electronic Submission)

Date 05/15/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By WILLIAM TAMBEKOU

Title PETROLEUM ENGINEER

Date 05/31/2018

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.

Office Farmington

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOC

Revisions to Operator-Submitted EC Data for Sundry Notice #420223

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	RCMPL NOI	RCMPL NOI
Lease:	NMSF080751A	NMSF080751A
Agreement:		NMNM103103 (NMNM103103)
Operator:	HILCORP ENERGY COMPANY 1111 TRAVIS ST. HOUSTON, TX 77002 Ph: 505-324-5122	HILCORP ENERGY COMPANY 1111 TRAVIS STREET HOUSTON, TX 77002 Ph: 713.209.2400
Admin Contact:	MANDI RAY OPERATIONS REGULATORY TECH E-Mail: mray@hilcorp.com Ph: 505-324-5122	MANDI RAY OPERATIONS REGULATORY TECH E-Mail: mray@hilcorp.com Ph: 505.324.5122
Tech Contact:	MANDI RAY OPERATIONS REGULATORY TECH E-Mail: mray@hilcorp.com Ph: 505-324-5122	MANDI RAY OPERATIONS REGULATORY TECH E-Mail: mray@hilcorp.com Ph: 505.324.5122
Location:		
State:	NM	NM
County:	SAN JUAN	SAN JUAN
Field/Pool:	BASIN DAKOTA	BASIN DAKOTA
Well/Facility:	SUNRAY F 1G Sec 26 T30N R10W Mer NMP SENE 1350FNL 735FEL	SUNRAY F 1G Sec 26 T30N R10W SENE 1350FNL 735FEL 36.783370 N Lat, 107.847480 W Lon



HILCORP ENERGY COMPANY
SUNRAY F 1G
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 7,318'.
3. Set a 4-1/2" cast iron bridge plug at +/- 7,100' to isolate the Dakota. Note: TOC at 1,370' by CBL.
4. Load hole with fluid and 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 @ 4,386', Bottom perforation @ 5,136')
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 7,318'. TOOH.
12. TIH and land production tubing. Get a commingled Dakota/Mesa Verde flow rate.



HILCORP ENERGY COMPANY
SUNRAY F 1G
MESA VERDE RECOMPLETION SUNDRY

SUNRAY F 1G - CURRENT WELLBORE SCHEMATIC

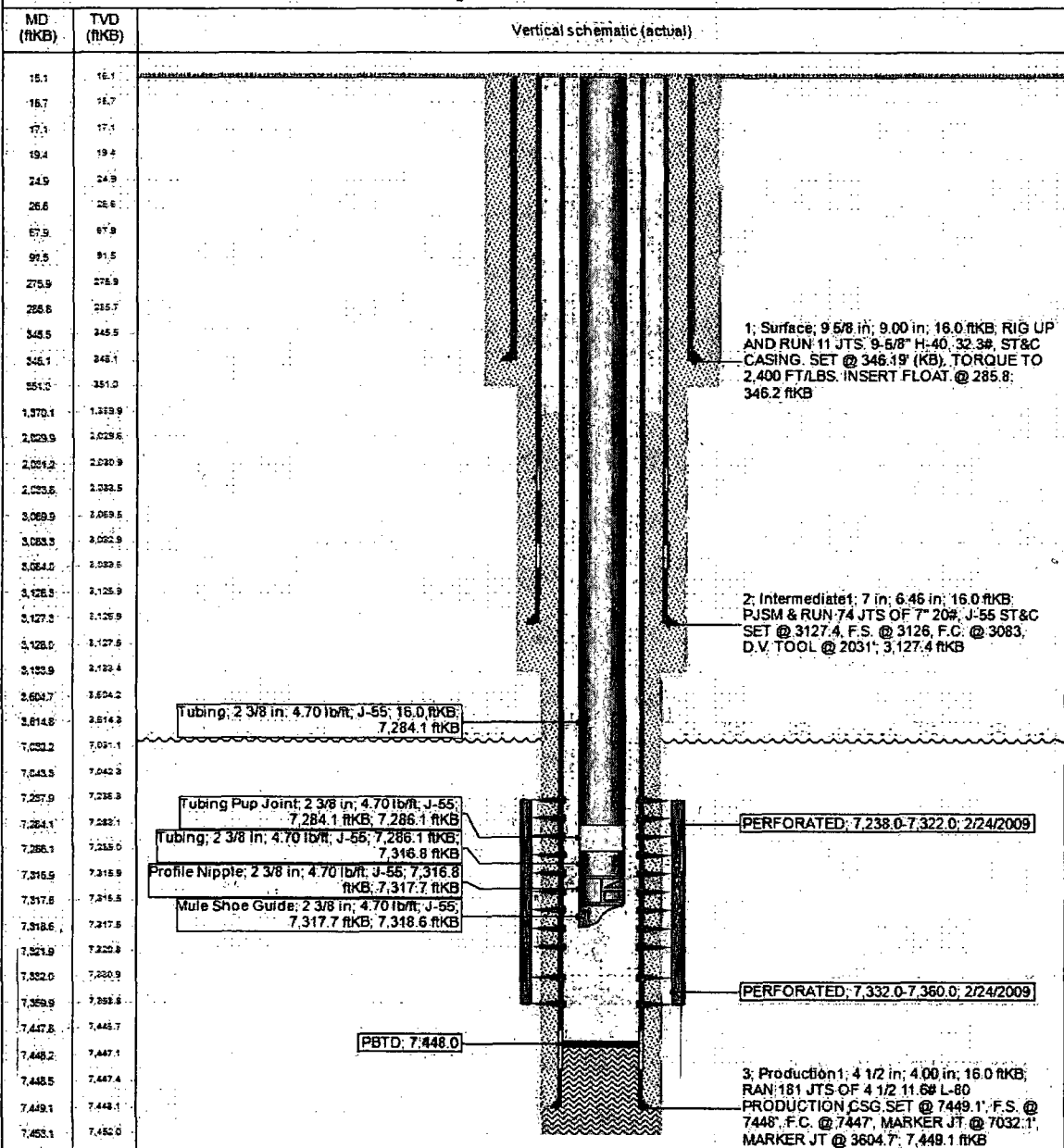


Current Schematic - Version 1

Well Name: SUNRAY F #1G

API / UVA 3004534742	Surface Legal Location 026-030N-010W-H	Field Name BASIN DAKOTA	License No	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,289.00	Original GSRT Elevation (ft) 6,305.00	GS Ground Distance (ft) 16.00	GS Casing Large Distance (ft) 16.00	GS Tubing Large Distance (ft) 16.00	

VERTICAL, Original Hole, 5/10/2018 11:06:39 AM



District I1625 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 3004534742	2. Pool Code 72319	3. Pool Name BLANCO-MESAVERDE (PRORATED GAS)
4. Property Code 318747	5. Property Name SUNRAY F	6. Well No. 001G
7. OGRID No. 372171	8. Operator Name HILCORP ENERGY COMPANY	9. Elevation 6292

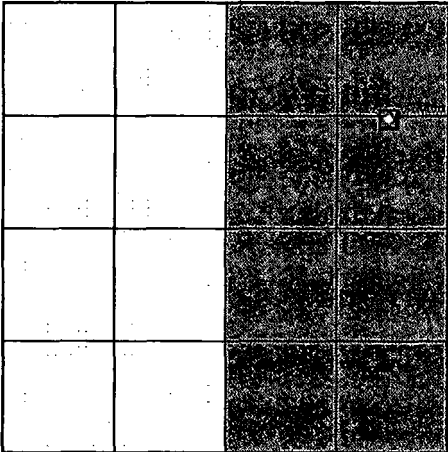
10. Surface Location

UL - Lot H	Section 26	Township 30N	Range 10W	Lot Idn	Feet From 1350	N/S Line N	Feet From 735	E/W Line E	County SAN JUAN
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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 317.22				13. 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

	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: <i>Amanda Roy</i> Title: Operations/Regulatory Tech Date: 5/15/2018	
	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 best of my belief.		
Surveyed By: David Russell Date of Survey: 10/3/2007 Certificate Number: 10201		