

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

5. Lease Serial No.

NMSF077651

6. If Indian, Allottee or Tribe Name

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

Hilcorp Energy Company

3a. Address

382 Road 3100, Aztec, NM 87410

3b. Phone No. (include area code)

505-599-3400

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

Richardson 8E

9. API Well No.

30-045-24019

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

Surface Unit H (SE/NE) 1590' FNL & 1070' FEL, Sec. 10, T31N, R12W

11. Country or Parish, State

San Juan, New Mexico

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

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☒ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

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 and downhole trimingle with the existing Dakota and Gallup formations. Attached is the procedure, wellbore diagram, plat, and gas capture plan. A DHC application will be filed and approved prior to commingling. A closed loop system will be used. Interim reclamation will be performed afer surface disturbing activities.

Well pending density approval

HOLD C104 FOR DHC
Density
Exception

NMOCD

JUN 17 2019

DISTRICT III

Notify NMOCD 24 hrs
prior to beginning
operations

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Priscilla Shorty

Title **Operations/Regulatory Technician - Sr.**

Signature

Priscilla Shorty

Date

5/6/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Petr. Eng

Title

Petr. Eng

Date

6/14/19

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

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.

(Instruction on page 2)

NMOCD

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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

Form C-102
August 1, 2011

Permit 263614

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-045-24019	2. Pool Code 72319	3. Pool Name BLANCO-MESAVERDE (PRORATED GAS)
4. Property Code 318679	5. Property Name RICHARDSON	6. Well No. 008E
7. OGRID No. 372171	8. Operator Name HILCORP ENERGY COMPANY	9. Elevation 6183

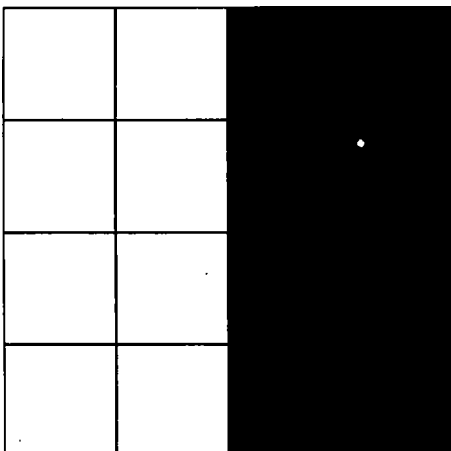
10. Surface Location

UL - Lot H	Section 10	Township 31N	Range 12W	Lot Idn	Feet From 1590	N/S Line N	Feet From 1070	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 320.00			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>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.</i>
	E-Signed By: <i>Priscilla Shorty</i> Title: Operations Regulatory Technician - Sr. Date: 02/12/2019
	SURVEYOR CERTIFICATION <i>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.</i>
	Surveyed By: Fred Kerr Date of Survey: 10/11/1979 Certificate Number: 3950



HILCORP ENERGY COMPANY
RICHARDSON 8E
MESA VERDE RECOMPLETION SUNDRY

API #:

3004524019

JOB PROCEDURES

- | | | |
|-------------------------------------|-------|--|
| <input checked="" type="checkbox"/> | NMOCD | Contact OCD and BLM (where applicable) 24 hrs prior to MIRU. Record and document all casing pressures <u>daily</u> , including |
| <input checked="" type="checkbox"/> | BLM | BH, IC (if present) and PC. Comply with all NMOCD, BLM (where applicable), and HEC safety and environmental regulations. |
1. MIRU workover rig and associated equipment; NU and test BOP.
 2. TOOH with **2 3/8"** tubing set at **7,330'**.
 3. Set a **4-1/2"** cast iron bridge plug at +/- **5,894'** to isolate the **Dakota and Mancos**
 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 **Mesa Verde** and confirm TOC. Review CBL results with the regulatory agencies and perform cmt remediation, as required.
 5. Perform a witnessed MIT test on the csg with the appropriate regulatory agencies to 600 psi
 6. Perforate the **Mesa Verde**. (Top perforation @ 4,468', Bottom perforation @ 5,290')
 7. RIH w/ BHA (frac string, packer, burst disc sub), set packer @ ~4,350'.
 8. ND BOPs, NU frac stack. PT frac stack to 9,000#. PT frac string to 9,000#, PT backside to 300# (to insure packer is set).
NOTE: frac string is 2-7/8" 6.5# P110 with BTS-8 connections. PT is to max anticipated treating pressure (~60% of burst)
 9. Break disc with slickline
 10. Frac the **Mesa Verde** in 1-2 stages down the frac string.
 11. Flowback well for 1-3 days as required
 12. MIRU workover rig. Nipple down frac stack, nipple up BOPs and test.
 13. Release packer and POOH w/ frac string
 14. TIH w/ mill and clean down to the top of the **DK/MN isolation plug** at **5,894'**. Take **Mesa Verde** gas samples and send for analysis
 15. Drill out **DK/MN isolation plug** and cleanout to PBTD at **7,420'**. POOH.
 16. TIH and land production tubing. ND BOPs and NU tree. Pump off expendable check.
 17. RDMO. Get a trimingled **Dakota/Mancos/Mesa Verde** flow rate.



HILCORP ENERGY COMPANY
RICHARDSON 8E
MESA VERDE RECOMPLETION SUNDRY

RICHARDSON 8E - CURRENT WELLBORE SCHEMATIC



Schematic - Current

Well Name: RICHARDSON #8E

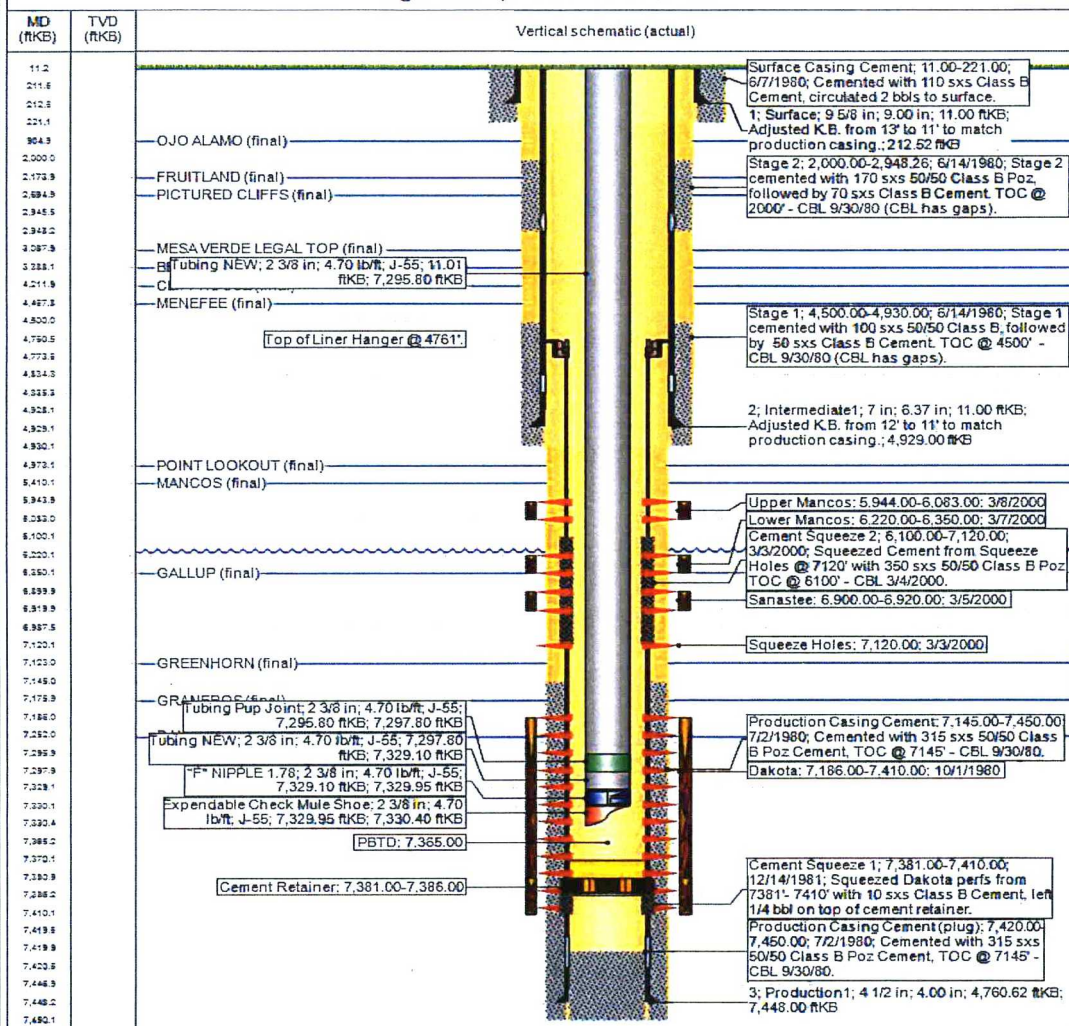
API Well 3004524019	Surface Legal Location 010-031N-012W-H	Field Name WILDCAT	License No.	State/Province NEW MEXICO	Well Configuration Type
Original KBRT Elevation (ft) 6,194.00	GS Ground Distance (ft) 11.00	Original Spud Date 6/7/1980 00:00	Log Release Date 11/19/2000 12:00	PSTD (A) (BOS) Original Hole - 7,365.0	Total Depth (ft) (BOS)

Most Recent Job

Job Category WELL INTERVENTION	Primary Job Type TUBING REPAIR	Secondary Job Type	Actual Start Date 2/9/2011	End Date 2/15/2011
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TD: 7,450.0

Original Hole, 5/4/2019 6:34:06 AM



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of Intent to
Recomplete and Commingle
Well: Richardson 8E

CONDITIONS OF APPROVAL

1. Contact BLM Inspection and Enforcement @ (505) 564-7750, 24 hours prior to conducting MIT work so an Inspector can be present to witness the MIT.

Contact Jim Lovato, Petroleum Engineer @ (505) 564-7746 or Cell # @ (505) 320-7378 to discuss failed MIT results and/or your remedial action and isolation plans.

Submit the electronic copy of the MIT Test Chart and CBL for verification to the following addresses: jlovato@blm.gov and Brandon.Powell@state.nm.us

2. The following modifications to your recompletion program are to be made:
 - a) Upon rigging up, record Bradenhead pressure and monitor same during recompletion operations. Notify BLM and NMOCD if anomalous pressure changes occur. Provide monitoring results on the Subsequent Report of Operations.
 - b) Casing pressure test for fracture stimulation operations cannot exceed the internal yield strength of the casing including a 20% safety factor unless a waiver is granted. Stimulation operations cannot exceed this test pressure.
3. File Well test and Recompletion results within 30 days of completing recompletion operations.

Office Hours: 7:45 a.m. to 4:30 p.m.