

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-045-10676
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. FEE
7. Lease Name or Unit Agreement Name Harper
8. Well Number 2
9. OGRID Number 372171
10. Pool name or Wildcat Basin Dakota

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
HILCORP ENERGY COMPANY

3. Address of Operator
382 Road 3100, Aztec, NM 87410

4. Well Location

Unit Letter P 790 feet from the South line and 790 feet from the East line

Section 14 Township 31N Range 12W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6168'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☒ RECOMPLETE

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Hilcorp Energy Company plans to recomplete the subject well in the Mesaverde formation and downhole commingle the existing Dakota with the Mesaverde. Attached is the MC plat, recomplete procedure, updated schematic and Gas Capture Plan. A DHC application will be filed and approved prior to commingling. A Closed Loop system will be used.

- Notify NMOCD 24hrs prior to beginning operations.
- Set cast iron bridge plug (CIBP) inside of cemented casing and at least 500' below the bottom of the proposed perforations. To show adequate formation/cement isolation.
- Perform and submit a cement bond log (CBL) to the agencies for review and approval prior to perforating the formation.
- If needed, submit proposed remediation to the agencies for review and approval prior to starting remediation.

NMOCD

JUN 20 2018

DISTRICT III

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Amanda Walker

TITLE Operations / Regulatory Technician DATE 6/19/2018

Type or print name Amanda Walker

E-mail address: mwalker@hilcorp.com

PHONE: 505-324-5122

For State Use Only

APPROVED BY:

Bryan Russell

TITLE

Deputy Oil & Gas Inspector
District #3

DATE 7/2/18

Conditions of Approval (if any):



**HILCORP ENERGY COMPANY
HARPER 2
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 **7,297'**
3. Set a **4-1/2"** cast iron bridge plug at +/- **5,400'** to isolate the Dakota.
4. Load hole with fluid and run a CBL on the 4-1/2" casing. Verify cement bond within the Mesa Verde and TOC is above 3,700'. Squeeze cement if needed. (TOC per Temp Survey at 3,715')
5. (If needed) WOC, drill out cement to CIBP. Load casing and run CBL to determine new TOC.
6. RU wireline and perforate the Mesa Verde.
7. TIH with 2-7/8" frac tubing string with packer. Pressure test frac string to frac pressure.
8. N/D BOP, N/U frac stack and test frac stack to frac pressure.
9. Frac the **Mesa Verde** in two or three stages. (Top perforation @ 4,200', Bottom perforation @ 5,300')
10. Nipple down frac stack, nipple up BOP and test. TOOH with frac tubing string and packer and LD.
11. TIH with a mill and clean out to Dakota isolation plug and, when water and sand rates are acceptable, flow test the Mesa Verde.
12. Drill out Dakota isolation plug and cleanout to PBTD of **7,332'**. TOOH.
13. TIH and land production tubing. Get a commingled **Dakota/Mesa Verde** flow rate.



WELLBORE SCHEMATIC

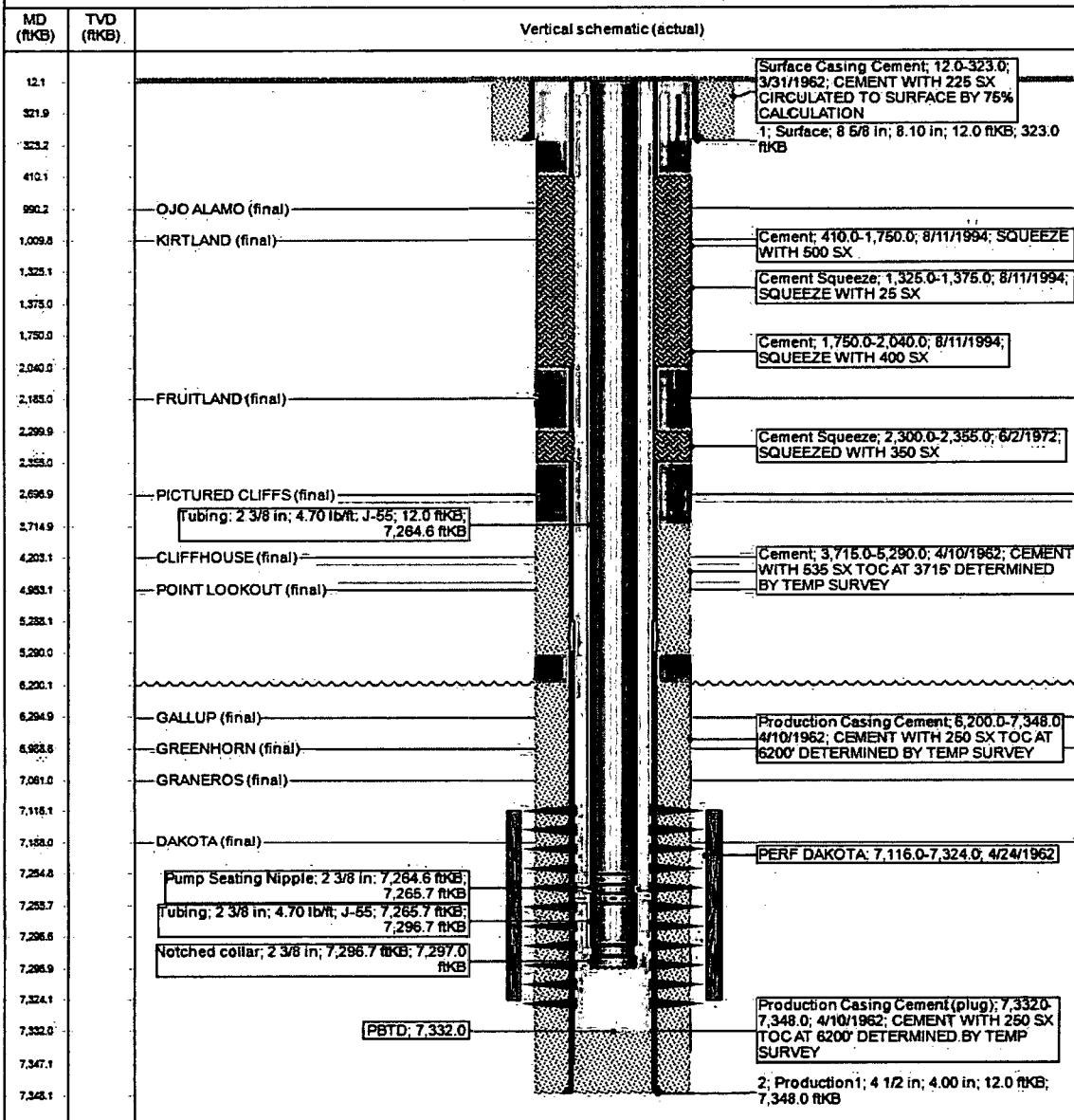
Hilcorp Energy Company

Current Schematic - Version 3

Well Name: HARPER #2

API / UWI 3004510676	Surface Legal Location 014-031N-012W-P	Field Name BSN DK (PRO GAS)	License No #0062	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 6,168.00	Original KBRT Elevation (ft) 6,180.00	KB-Ground Distance (ft) 12.00	KB-Casing Storage Distance (ft)	KB-Tubing Storage Distance (ft)	

Original Hole, 6/14/2018 5:11:55 PM



District I

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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 253829

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-045-10676	2. Pool Code 72319	3. Pool Name BLANCO-MESAVERDE (PRORATED GAS)
4. Property Code 319174	5. Property Name HARPER	6. Well No. 002
7. OGRID No. 372171	8. Operator Name HILCORP ENERGY COMPANY	9. Elevation 6168

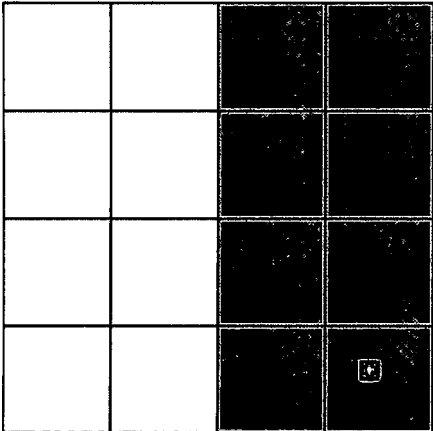
10. Surface Location

UL - Lot P	Section 14	Township 31N	Range 12W	Lot Idn	Feet From 790	N/S Line S	Feet From 790	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 309.70	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

	<p style="text-align: center;">OPERATOR CERTIFICATION</p> <p><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></p> <p>E-Signed By: <i>Amanda Walker</i> Title: Operations/Regulatory Tech Date: 6/19/2018</p> <hr/> <p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p><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></p> <p>Surveyed By: John Vealy Date of Survey: 2/15/1962 Certificate Number: 598</p>
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