

RECEIVED

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 24 2018

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

5. Lease Serial No. **SF-078502-A**

Farmington Field Office

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.

6. Field Name, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well
 Oil Well Gas Well Other

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

8. Well Name and No. **Hardie 4E**

2. Name of Operator **Hilcorp Energy Company**

9. API Well No. **30-045-24938**

3a. Address **382 Road 3100, Aztec, NM 87410**

3b. Phone No. (include area code) **505-599-3400**

10. Field and Pool or Exploratory Area **Basin Dakota / Blanco Mesaverde**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface Unit E (SWNW) 1800'FNL & 790' FWL, Sec. 24, T29N, R08W

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	TYPE OF ACTION			
<input 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 checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<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 recomplate 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 recompletion 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.)

4/13/2018 MIRU Black Hawk 37. BD well. ND WH. NU BOP. Test BOP, Test-Good. PU tbg & tag fill @ 4520'. (PBD @ 7579'. Secure well, SDFD.

4/16/2018 BD well to flowback tank. Scan tbg. TOH & LD tbg. Make up string mill assembly. Tripped out to 6020'. Pulled tbg/mill to 5060'. Secure well and SDFD.

4/17/2018 BD well. Continue to TOOH mill/tbg. Make up 4-1/2" CIBP. TIH & set CIBP @ 5600'. Pull tbg up to 5590'. Circ tbg & 4-1/2" csg w/ 90 bbls of treated fresh water. Shut pipe rams & test csg & CIBP to 1,000 psi. Test-Good. TOOH w/ tbg/setting tool. MIRU WRLN. Run CBL from 5,600' to surface w/ 1000 psi. RD WRLN. Secure well, SDFD.

ACCEPTED FOR RECORD

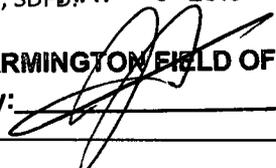
MAY 10 2018

NMCOO

FARMINGTON FIELD OFFICE

Continued on next page

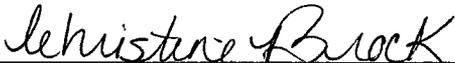
JUN 01 2018

By: 

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

Christine Brock

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

Signature 

Date **5/24/2018**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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.

NMCOO

4/18/2018 BD well. TIH w/ tbg, LAD tbg. ND BOP, ND Tbg head. NU 5K tbg head & frac valve. PT from 5600' to frac valve. Unable to reach 4000 psi w/ test pump. SD @2250 psi bleed down to 1250 psi in 5 min. PT w/ rig pump. SD @ 2750 psi bleed down to 750 psi in 3 min. Est injection rate of 2.5 gal/min @ 2500 psi. ND frac valve NU BOP. Secure well, SDFD. **CBL submitted recv'd BLM (William Tambekou) & OCD (Brandon Powell) permission to perforate.**

4/19/2018 BD well. PU 4-1/2" pkr. Set pkr @ 35'. PT csg 35'-0 to 2300 psi. Test-Good. PT csg from 5600'-35'. Establish injection rate of ½ BPM @ 1750 psi. Unset pkr. PU & set pkr @ 2661'. PT csg from 2661'-0 to 2300 psi. Test-Good. Unset pkr. PU tbg, set pkr @ 3600'. PT csg from 3600'-0 to 2300 psi. Test-Good. Unset pkr. PU tbg & set pkr @ 4629'. PT csg from 4629'-0' to 2300 psi. Test-Good. Unset pkr. PU tbg. Set pkr @ 5505'. PT csg from 5505'-0' to 2300 psi. Test-Good. Unset pkr. Isolated csg leak from **4815' -4784'**. Unset pkr. TOH w/ tbg. LD pkr. TIH, land tbg w/ 146 jts, 2-3/8", 4.7#, J-55 @ 4571'. RD RR@19:00.

4/20/2018 Reported to BLM (William Tambekou) & OCD (Brandon Powell) slow leak off. Requested **permission to count as perforation & recv'd verbal approval.**

5/1/2018 MIRU MIRU. Lay pump & flow line. NP frac valve, NU BOPE. PT BOP, Test-Good. Pull & LD tbg hanger. Shut in & secure well, SDFD.

5/2/2018 TOOH. RU WRLN. **Perf Menefee** w/ .34 diam, 1spf @ 4923', 4935', 4941', 4954', 4963', 4971', 4976', 4989', 4994', 5003', 5048', 5055', 5068', 5071', 5087', 5099', 5110', 5137', 5156', 5169', 5184', 5205', 5212', 5222', 5226' = **25 shots**. RD WRLN. Shut in & secure well, SDFD.

5/4/2018 PU mill & TIH picking up tbg. Tag CIBP @ **5600'**. PU, RU pwr swivel, lay flowline to flow back tank. PT air lines. Establish circ with air mist. **Drill CIBP @5600'**. Continue TIH. Shut in & secure well, SDFD.

5/7/2018 Chase CIBP to 7540'. TOOH w/ mill. PU CIBP & TIH, **set CIBP @ 7301'**. TOOH laying down tbg. PU CIBP & pkr, TIH. **Set CIBP @ 5595'**. **Pump 20 bbls H2O**, set pkr @ 5565'. PT CIBP & Pkr to 1500 psi, No test, pkr would not test. Shut in & secure well, SDFD.

5/8/2018 TIH w/ pkr, set pkr @ 5433'. PT CIBP to 1500 psi, Test-Good. TOH w/ tbg. PU fill bore pkr & TIH picking up frac string. Shut in & secure well, SDFD.

5/9/2108 TIH w/ Pkr, XN nipple w/ tested plug in place & TIH picking up tbg. Set Pkr @ 4833' & land tbg w/ 154, 2-7/8", 6.5#, RTS-8 @ 4833'. ND BOP, NU frac stack. PT annulus to 500 psi lost 120 psi in 1 minute du to csg leak @ 4815'. PT Frac string & Frac stack to 8000 psi. Test good. RU RU Slickline, run in hole & puncture disk. Pull plug from XN nipple. RD RR @ 18:30 hours.

5/12/2018 RU Drake Acid equipment. Acidize Menefee Perfs (4923'-5226') w/ 1000 gal of acid. Shut in & secure well. RD, Release Drake Acid equipment.

5/14/2018 MIRU Frac equipment. Load, prime equipment. Test fluid lines to 8500 psi. Test-Good. **Frac Menefee** w/ 119,890 gals 70Q N2 20# Foam Gel, 150,420 #'s 20/40 AZ sand, 1,265,000 scf N2, 29 bbls flush. Shut in & secure well. RD, Release Frac & Nitrogen equipment. MIRU Flowback, flowback overnight.

5/15/2018 MIRU Baywater 104. Lubricate 2-way check in hanger. ND frac stack. NU BOP. PT BOP. Test-Good. PT blind rams & pipe rams to 500 psi (low) and 1800 psi (high) for 10 minutes. Test-Good. Shut in & secure well, SDFD.

5/16/2018 PU F-nipple, TOO H w/ collar & flow through plug. Tag fill @ 5470'. PU tbg swivel. KI air & establish circ w/ 12 bbls/hr water, 1 gal soap, 1 gal CI. Clean out fill from 5470' – 5595' (CIBP). Returns showed a trace of sand per sample. LD tbg swivel. TOO H to above perms. Shut in & secure well, SDFD.

5/17/2018 TIH. Tag fill @ 5565' (30' of fill). PU tbg swivel. KI air & establish circ w/ 12 bbl/hr water, 1 gal soap, 1 gal CI. CO fill from 5565' – 5595' (CIBP). Returns showed ¼ bucket of sand per 5 gal. Bucket sample down to a trace of sand. TOO H to above perms. Shut in & secure, SDFD.

5/18/2018 TIH to 5595' (PBSD), No fill. Establish circ w/ 12 bbl/hr water, 1 gal soap, 1 gal CI & circ well clean. LD tbg. Flow test up csg. Flowing @ 3 psi, recovered 2.2 bbls of water. **Land tbg w/ 165 jts, 2-3/8", 4.7 #, J-55, EUE & notched collar @ 5157', F-nipple @ 5155'.**

This well is currently producing MV with an approved Test Allowable C-104 & is waiting on RC C-104 approval.

Well is currently producing only the MV-Menefee formation. CIBP is @ 7,301' & 5595' to isolate the DK formation.