Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

RECEIVED
NOV 20 2015
Farmington Field Office
Bureau of Land Management

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.*

5. Lease Serial No.
SF-078767

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.
NMNM 78407E

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

8. Well Name and No.
Rosa Unit #116

2. Name of Operator
WPX ENERGY , LLC

9. API Well No.
30-039-23484

3a. Address
PO Box 640 Aztec, NM 87410

3b. Phone No. *(include area code)*
505-634-4206

10. Field and Pool or Exploratory Area
Basin Mancos / Basin Dakota

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
Sur: 1050' FNL & 790' FEL, sec 24, T31N, R6W

11. Country or Parish, State
Rio Arriba

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **DFIT test & Dakota Plug-back.**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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.)

WPX Energy request to perf 4 SPF @ 6650' in the Mancos for a Diagnostic Fracture Injection Test and will set a CIBP within 50' above the top perf of the Dakota to plug-back per the attached procedure..

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

SEE ATTACHED FOR CONDITIONS OF APPROVAL

OIL CONS. DIV DIST. 3
NOV 30 2015

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

Title Permit Tech III

Signature

Date 11/20/15

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Troy Salyers

Title PE

Date 11/24/2015

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 FFO

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)

NMOCD RV

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations

Rosa Unit 116 Workover and DFIT Procedures

Wellhead Isolation Procedure

1. MIRU workover rig. ND wellhead. NU BOP.
2. Release Arrow Set 1 packer set at 7334'. TOH standing back tubing.
3. MU casing scraper and TIH to ±7,400'. TOH standing back tubing.
4. MU retrievable packer and bridge plug. TIH and set RBP at ±4,950'. TOH and LD one joint. Set packer at ±4,920'. Test RBP to 1,000 psi. Release packer and POOH laying down tubing. TIH with remainder of tubing in derrick. TOH laying down. Send tubing in for inspection.
5. Load hole with 2% KCl above bridge plug. ND BOP. NU wellhead. RDMO workover rig.

Diagnostic Fracture Injection Test (DFIT) Procedure

1. MIRU workover rig. ND wellhead. NU BOP.
2. MU bridge plug retrieving head. TIH to top of bridge plug. Equalize pressure across the bridge plug before releasing. Note: Well may be abnormally pressured due to offset frac. Take necessary precautions and ensure surface equipment and personnel are prepared as needed. Release bridge plug. TIH with bridge plug and set bridge plug at ±6,708', roughly half way between the proposed Red/Green perfs (6,650') and the top of the Gallup perfs (6,766'-7,266'). Lay down one joint, set packer and test RBP to 1,000 psi.
3. TOH with bridge plug retrieving tool standing back tubing. Load hole with 2% KCl.
4. MIRU WLU. Run CBL from RBP to 6,600 or above. POH and LD CBL tools.
5. Ensure there is a good cement bond across the proposed Red/Green perforations at 6,650'. MU and RIH with perforating gun and perforate 6,650' 4 spf, 0° phasing. POH with and LD perforating gun. RDMO WLU.
6. Set 2 L&R-supplied memory gauges to 0.01 psi resolution, one reading per second. Install gauges in gauge carrier. MU gauge carrier below packer. MU packer on tubing. TIH with tubing, packer and gauges. Set packer at ±6,650'.
7. MIRU Halliburton DFIT pumping and measurement equipment. Load hole with 2% KCl.
8. Begin to pump DFIT. Ensure breakdown of formation has occurred
    a. If a good break is not seen within the first 10 bbls, increase rate in 2 bpm increments until a maximum of 15 bpm or max pressure is reached.
    b. If no breakdown occurs, call engineer (Brad Randall, 918.605.2915)
    c. If breakdown occurs, continue to pump DFIT per procedure
9. Pump DFIT
    a. After initial break, pump at 8-10 bpm for 5 minutes. (Note: obtaining a *constant* rate is more important than achieving a *specific* rate). Do **NOT** change rate during DFIT.
    b. Perform step rate test at end of job. Step down rate for 3 steps @ 2.5 bbls per step.
    c. Get ISIP, 5, 10 and 15-minute pressures

d. Make sure ISIP is a hard shut in.

10. RDMO Halliburton DFIT equipment.
11. Leave gauges in for minimum of 5 days.
12. Release packer and TOH with packer gauge carrier and gauges. LD gauge carrier and gauges. Return gauges to L&R to download data from both primary and backup gauges. E-mail data in a CSV format to anthony.yeboah@wpxenergy.com, mark.graeve@wpxenergy.com, donald.kundert@halliburton.com, mitch.kabrick@halliburton.com, and brad.randall@wpxenergy.com.
13. MU bridge retrieving tool and TIH. .TIH to top of bridge plug. Equalize pressure across the bridge plug before releasing. Note: Well may be abnormally pressured due to offset frac. Take necessary precautions and ensure surface equipment and personnel are prepared as needed. Release bridge plug. TOH w/ RBP and retrieving tool. LD same.
14. **Notify BLM/NMOCD 24 hrs. before setting plug and capping with cement.**
15. MIRU WLU. MU and RIH w/ wireline set cast iron bridge plug (CIBP).at 7,800', or within 50' of Dakota perfs at 7,832'-7,988'. POH with wireline setting tool. LD same. RDMO WLU. MU packer. TIH with packer and test CIBP to 1,000 psi. TOH w/ packer. LD same. Dump bail minimum of 35' of cement on top of CIBP.
16. TIH with packer and set at ±6,600", above the Mancos Red/Green and Gallup perfs.
17. ND BOP. NU wellhead. RDMO workover rig. Turn well to production.

BLM CONDITION OF APPROVAL

CASING REPAIR, WORKOVER AND RECOMPLETION OPERATIONS:

1. If casing repair operations are needed, obtain prior approval from this office before commencing repairs. If a CBL or other logs are run, provide this office with a copy.

2. After any casing repair operations, test cement squeeze to a minimum of 500# for 30 minutes with no more than 10 % pressure fall off in the 30 minute test period. Provide test chart with your subsequent report of operations

3. A properly functioning BOP and related equipment must be installed prior to commencing workover, casing repair, and/or recompletion operations.

4. Contact this office at (505) 564-7750 prior to conducting any cementing operations

SPECIAL STIPULATIONS:

1. **Pits will be fenced during work-over operation.**

2. **All disturbance will be kept on existing pad.**

3. **All pits will be pulled and closed immediately upon completion of the recompletion and work-over activities.**

4. **Pits will be lined with an impervious material at least 12 mils thick.**