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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

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.  
NMSF - 078894

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.  
NMNM78407E

8. Well Name and No.  
Rosa Unit #312A

9. API Well No.  
30-039-29908

10. Field and Pool or Exploratory Area  
Basin Fruitland Coal

11. Country or Parish, State  
Rio Arriba, NM

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
WPX Energy Production, LLC

3a. Address  
PO Box 640 Aztec, NM 87410

3b. Phone No. (include area code)  
505-333-1806

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2060' FNL & 1050' FWL – SEC. 28 T31N, R4W

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"/> 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 type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>P&amp;A</b>
	<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.)

WPX Energy plans to Plug and Abandon the above mentioned well per attached procedure and diagrams.

**Approved as to plugging of the well bore. Liability under the Lease Agreement. ACTION DOES NOT RELIEVE THE LESSEE FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS**

**Notify NMOCD 24 hrs prior to beginning operations**

**SEE ATTACHED FOR CONDITIONS OF APPROVAL**

**OIL CONS. DIV DIST. 3**

**FEB 26 2016**

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

Name (Printed/Typed)  
Lacey Granillo

Title Permit Tech III

Signature

Date 2/15/16

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title **PE**

Date **2/22/16**

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**



## PLUG AND ABANDONMENT PROCEDURE

February 4, 2016

### Rosa Unit #312A

Basin Fruitland Coal

2060' FNL, 1050' FWL, Section 28, T31N, R4W, Rio Arriba County, New Mexico

API 30-039-29908 / Lat: \_\_\_\_\_ / Long: \_\_\_\_\_

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 14.8 ppg with a 1.18 cf/sx yield.

1. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
2. Rods: Yes\_\_\_\_, No\_\_\_\_, Unknown\_\_\_\_.  
Tubing: Yes X, No\_\_\_\_, Unknown\_\_\_\_, Size 2-7/8", Length 3859'.  
Packer: Yes\_\_\_\_, No X, Unknown\_\_\_\_, Type\_\_\_\_.  
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
3. **Plug #1 (Fruitland Coal perforations and Fruitland, Kirtland and Ojo Alamo tops, 3694' – 3223')**: Round trip scraper (or mill) to 3694', or as deep as possible. RIH and set 5.5" cement retainer at 3694'. Pressure test tubing to 1000 PSI. Load casing with water and circulate well clean. Pressure test casing to 800#. **If the casings do not test, then spot or tag subsequent plugs as appropriate.** Circulate well clean. Mix 99 sxs Class B cement inside casing above CR to isolate the Fruitland Coal perforations and cover through the Ojo Alamo tops. TOH.
4. **Plug #2 (Nacimiento top, 2065' – 1965')**: Mix 29 sxs Class B cement and spot a balanced plug inside the casing to cover the Nacimiento top. PUH.
5. **Plug #3 (8-5/8" casing shoe and surface, 388' – 0')**: Attempt to pressure test the bradenhead annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 80 sxs cement and spot a balanced plug from 388' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casings to surface. Shut in well and WOC.
6. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. Cut off anchors and clean up location. Restore location per BLM stipulations.

**ROSA UNIT #312A  
BASIN FRUITLAND COAL**

Spud: 07/31/06

Completed: 09/26/06

1<sup>st</sup> Delivered: 10/04/06

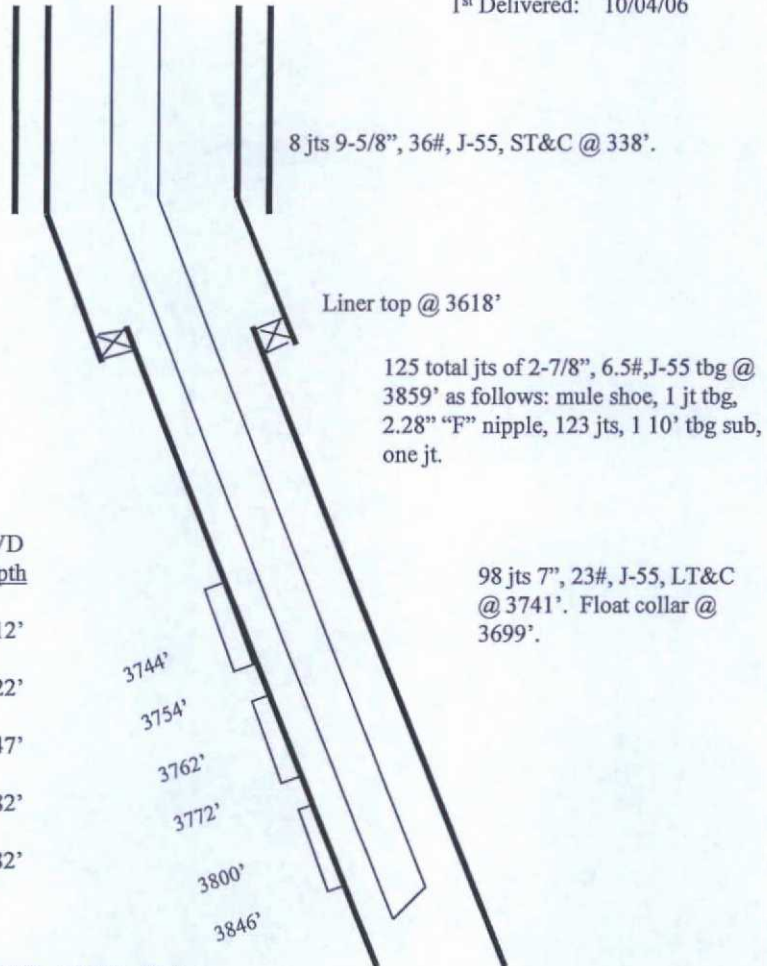
Surface Location:

2060' FNL and 1050' FWL  
SW/4 NW/4 Sec 28(E), T31N, R04W  
Rio Arriba, NM

Bottom Hole Location:

1273' FNL and 1967' FWL  
NE/4 NW/4 Sec 28(C), T31N, R04W  
Rio Arriba, NM

Elevation: 6728' GR  
API # 30-039-29908



Top	MD Depth	TVD Depth
Ojo Alamo	3273'	3012'
Kirtland	3386'	3122'
Fruitland	3613'	3347'
Base of Coal	3848'	3582'
Pictured Cliffs	3853'	3682'

Perf. Basin FC, w/3 1/8 HSC, .54 Dia. Holes,  
GTM Charge 11, 4 shots P/F

TD @ 3947' MD

Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	9-5/8", 36#	200 sxs	282 cu.ft.	Surface
8-3/4"	7", 23#	515 sxs	1047 cu.ft.	Surface



# ROSA UNIT #312A BASIN FRUITLAND COAL

## Surface Location:

2060' FNL and 1050' FWL  
SW/4 NW/4 Sec 28(E), T31N, R04W  
Rio Arriba, NM

## Bottom Hole Location:

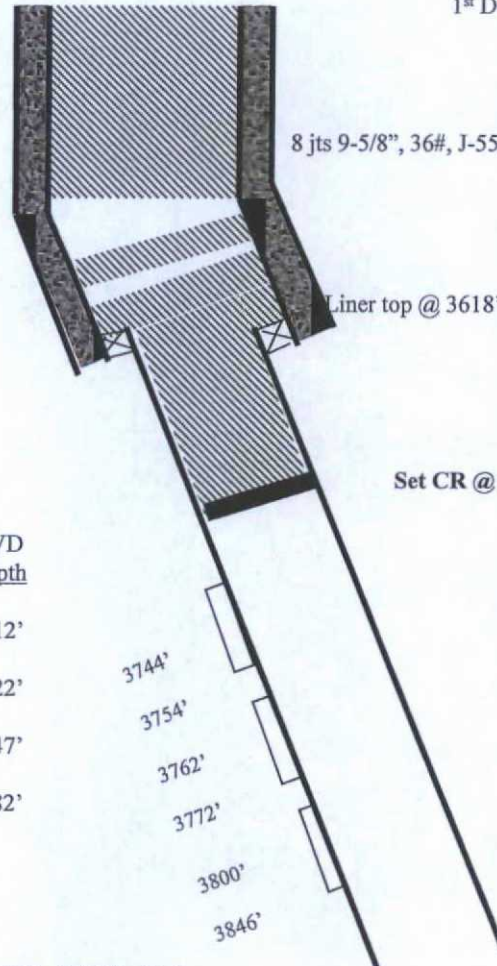
1273' FNL and 1967' FWL  
NE/4 NW/4 Sec 28(C), T31N, R04W  
Rio Arriba, NM

Elevation: 6728' GR  
API # 30-039-29908

Spud: 07/31/06

Completed: 09/26/06

1<sup>st</sup> Delivered: 10/04/06



**Plug #3: 388' – 0'**  
Class B cement, 80 sxs

8 jts 9-5/8", 36#, J-55, ST&C @ 338'.

98 jts 7", 23#, J-55, LT&C  
@ 3741'.

Liner top @ 3618'

**Plug #2: 2065' – 1965'**  
Class B cement, 29 sxs

**Plug #1: 3694' – 3223'**  
Class B cement, 99 sxs

**Set CR @ 3694'**

5.5", 17#, N-80 casing liner  
from 3618' to 3867'.

Top	MD Depth	TVD Depth
Ojo Alamo	3273'	3012'
Kirtland	3386'	3122'
Fruitland	3613'	3347'
Base of Coal	3848'	3582'

Perf. Basin FC, w/3 1/8 HSC, .54 Dia. Holes,  
GTM Charge 11, 4 shots P/F

TD @ 3746' MD  
CO @ 3847' MD

Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	9-5/8", 36#	200 sxs	282 cu.ft.	Surface
8-3/4"	7", 23#	515 sxs	1047 cu.ft.	Surface

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

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Rosa Unit #312A

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
  - a) Bring the top of plug #1 to **2896 ft.** to cover the Ojo Alamo top. **BLM picks top of Ojo Alamo at 2946 ft.** Adjust cement volume accordingly.
  - b) Set plug #2 **(1786-1686) ft.** to cover the Nacimiento top. **BLM picks top of Nacimiento at 1736 ft.**

Although H<sub>2</sub>S has not been reported at this location, high to very high concentrations of H<sub>2</sub>S (331 - approx. 8,000 ppm GSV) have been reported in wells within a 1 mile radius of this location. It is imperative that H<sub>2</sub>S monitoring and safety equipment be on location during P&A operations at this well site.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

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