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Farmington Field Office
Bureau of Land Management

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

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	5. Lease Serial No. NMSF-078767
	6. If Indian, Allottee or Tribe Name
	7. If Unit of CA/Agreement, Name and/or No. NMNM 78407E
	8. Well Name and No. Rosa Unit #641H
2. Name of Operator WPX Energy Production, LLC	9. API Well No. 30-039-31314
3a. Address PO Box 640 Aztec, NM 87410 3b. Phone No. *(include area code)* 505-333-1808	10. Field and Pool or Exploratory Area Basin Mancos
4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SHL: 966' FNL & 526' FWL, Sec 19, T31N, R5W BHL: 623'FNL & 231' FWL, Sec 24 T31N, R6W	11. Country or Parish, State Rio Arriba, NM

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 **After the Fact NOI**
	☐ 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 made a change to the cement job design from a single stage Foam Cement job to a two stage conventional w/ a DV tool.

Attached: OPS Plan

OIL CONS. DIV DIST. 3
SEP 23 2015

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* Marie E. Jaramillo	Title Permit Tech
Signature	Date 9/17/15

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Abdelgadir Elmadani	Title PE	Date 09/21/15
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.

NMOCD

WPXENERGY

WPX ENERGY

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE: 9/8/15 **FIELD:** Basin Mancos

WELL NAME: ROSA UT #641H **SURFACE:** BLM

SH Location: NWNW Sec 19-31N-05W **ELEVATION:** 6305' GR

BH Location: NWNW Sec 24-31N-06W Rio Arriba, NM **MINERALS:** BLM

MEASURED DEPTH: 12313'

I. **GEOLOGY:** Surface formation – San Jose

A. **FORMATION TOPS:** (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	2436	2428	Point Lookout	5661	5638
Kirtland	2533	2525	Mancos	5968	5944
Picture Cliffs	3362	3350	**Kickoff Point**	6586	6567
Lewis	3635	3621	Top Target	7365	7172
Chacra	4591	4573	**Landing Point**	7640	7242
Cliff House	5388	5366	Base Target	7641	7242
Menefee	5433	5411			
			TD	12313	7134

B. **MUD LOGGING PROGRAM:** Mudlogger on location from surface csg to TD.

C. **LOGGING PROGRAM:** LWD GR from surface casing to TD.

D. **NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. **DRILLING**

A. **MUD PROGRAM:** LSND mud (WBM) will be used to drill the 12-1/4" Surface hole and the 8 ¾" Directional Vertical hole of the wellbore. A LSND (WBM) or (OBM) will be used the curve portion to drill and the lateral portion of well. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.

B. **BOP TESTING:** While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 5000 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **5000 psi (High) for 10 minutes**. Pressure test surface casing to **1500psi for 30 minutes** and intermediate casing to **1500 psi for 30 minutes.** Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. **All tests and inspections will be recorded in the tour book as to time and results.**

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25"	320'+	9.625"	36#	J-55
Intermediate	8.75"	6485'	7"	23#	N-80
Long string	6.125"	12313'	4-1/2"	11.6#	P-110

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.

2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. Run 7" DV tool placed 100' into Lewis Formation.

3. PRODUCTION CASING: Run 4-1/2" csg with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve). Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers.

4. TIE-BACK CASING: 4-1/2" Tie back to surface.

C. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

1. SURFACE: 5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC 12 hours. Test csg to 600psi. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.

INTERMEDIATE:

2. Stage 1: **Spacer #1:**20 bbl (112.cu-ft) Water Spacer. **Lead Cement:** 54 bbl, 154 sks (322 cu.ft.) of 12.3 ppg 1.97 ft^3/sk 10.35 gal/sk. **Tail Cement:** 17 bbl, 98 sks (78 cu ft) 13.5 ppg 1.3 ft^3/sk, 5.81 gal/sk. **Displacement**: 256 bbl mud.

   Stage 2: **Spacer #1:**20 bbl (112.cu-ft) Water Spacer. **Lead Cement:** 141 bbl, 407 sks (793 cu.ft.) of 12.3 ppg 1.95 ft^3/sk 10.35 gal/sk. **Tail Cement:** 10 bbl, 50 sks (58 cu ft) 15.8 ppg 1.15 ft^3/sk, 5.81 gal/sk. **Displacement**: 176 bbl mud.

3. PRODUCTION CASING: **Spacer #1:**10 bbl (56.cu-ft) Water Spacer. **Spacer #2:** 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. **Spacer #3:** 10 bbl Water Spacer. **Lead Cement:** Extencem ™ System. Yield 1.29 cu ft/sk, 13.5 ppg, (505 sx / 652 cu ft. / 116 bbls). **Tail Spacer:** 20 BBL of MMCR. **Displacement**: Displace w/ +/- 170 bbl Fr Water. Total Cement (652 cu ft / 116 bbls).

IV. COMPLETION

A. CBL

1. Run CCL for perforating.

B. PRESSURE TEST

1. Pressure test 4-1/2" casing to 4500 psi max, hold at 1500 psi for 30 minutes. Increase pressure to Open RSI sleeves.

C. STIMULATION

1. Stimulate with approximately 87,500# 100 mesh sand and 4,620,000# 40/70 mesh sand in 6,188,000 gallons water for 14 stages.
2. Isolate stages with flow through frac plug.
3. Drill out frac plugs and flowback lateral.

D. RUNNING TUBING

1. *Production Tubing:* Run 2-3/8", 4.7#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing in curve.

- Although this horizontal well will be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC,will be entirely within the applicable setbacks . This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 B(2) NMAC, 19.15.16.15 B(2)NMAC, and 19.15.16.15. B(4) NMAC.

NOTES:

Installation of RSI sleeves at Toe of Lateral.