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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. SF-078771
	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 #651H
2. Name of Operator WPX Energy Production Company, LLC	9. API Well No. 30-039-31326
3a. Address PO Box 640 Aztec, NM 87410 3b. Phone No. *(include area code)* 505-333-1816	10. Field and Pool or Exploratory Area Basin Mancos (660')
4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SHL: 1,038' FNL & 324' FEL, sec 25, T31N, R6W BHL: 434' FNL & 560' FWL, sec 26, 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
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **CHANGE OF OPS PLANS-CEMENT**
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 change from the original cement plan to a two stage conventional cement job w/ a DV tool.

Attached: OPS Plan

OIL CONS. DIV DIST. 3

OCT 16 2015

14. I hereby certify that the foregoing is true and correct.
Name *(Printed/Typed)* Lacey Granillo Title Permit Tech III

Signature Date 10/13/15

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Abdelgadir Elmadani Title PE Date 10/13/15

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.

(Instructions on page 2)

NMOCD

KP

KC 4

WPXENERGY

WPX ENERGY

Operations Plan

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

DATE:	10/12/15	**FIELD:**	Basin Mancos
WELL NAME:	ROSA Unit # 651H	**SURFACE:**	BLM
SH Location:	NENE Sec 25-31N-06W	**ELEVATION:**	6372' GR
BH Location:	NWNW Sec 26-31N-06W Rio Arriba, NM	**MINERALS:**	BLM
MEASURED DEPTH:	16465'		

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

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	2524	2512	Point Lookout	5722	5687
Kirtland	2647	2634	Mancos	6199	6160
Picture Cliffs	3169	3152	**Kickoff Point**	6651	6620
Lewis	3556	3536	Top Target	7328	7180
Chacra	4644	4616	**Landing Point**	7713	7307
Cliff House	5472	5439	Base Target	7713	7307
Menefee	5515	5481			
			TD	16465	7160

A. **MUD LOGGING PROGRAM:** Mudlogger on location from surface csg to TD.
B. **LOGGING PROGRAM:** LWD GR from surface casing to TD.
C. **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 portion of the wellbore. A LSND (WBM) or (OBM) will be used to drill the curve and lateral portions of wellbore. 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"	6551'	7"	23#	N-80
Prod. Liner	6.125"	6401' – 16465'	4-1/2"	11.6#	P-110
Tie-Back String	N/A	Surf. - 6401'	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 for 2 stage cement job 100' above Chacra formation.**

3. PRODUCTION LINER: Run 4-1/2" Liner with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve) positioned inside the 330ft Hard line. Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers. Set seals on Liner Hanger. Test TOL to 1500 psi for 15 minutes.

4. TIE-BACK CASING: Please see **Notes** below.

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.

2. INTERMEDIATE:
Stage 1: **Spacer #1:**20 bbl (112.cu-ft) Water Spacer. **Lead Cement:** 52 bbl, 150 sks (295 cu.ft.) of 12.3 ppg 1.97 f^3/sk 10.35 gal/sk. **Tail Cement:** 17 bbl, 98 sks (75 cu ft) 13.5 ppg 1.3 f^3/sk, 5.81 gal/sk. **Displacement**: 252 bbl.

Stage 2: **Spacer #1:**20 bbl (112.cu-ft) Water Spacer. **Lead Cement:** 144 bbl, 415 sks (810 cu.ft.) of 12.3 ppg 1.95 ft^3/sk 10.35 gal/sk. **Tail Cement:** 14 bbl, 68 sks (78 cu ft) 15.8 ppg 1.15 ft^3/sk, 5.81 gal/sk. **Displacement**: 181 bbl mud.

3. PRODUCTION LINER: **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 (56 cu-ft) Water Spacer. **Lead Cement:** Extencem ™ System. Yield 1.36 cu ft/sk, 13.3 ppg, (805 sx / 1095 cu ft. / 194 bbls). **Tail Spacer:** 20 BBL of MMCR. **Displacement**: Displace w/ +/- 224 bbl Fr Water. Total Cement (1095 cu ft / 194 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 131,250# 100 mesh sand and 6,930,000# 40/70 mesh sand in 9,282,000 gallons water for 21 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 the 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.

NOTE:

Installation of RSI sleeves at Toe of Lateral.

Proposed Operations:

A 4-1/2" 11.6# P-110 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# K-55 Intermediate casing with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

After cementing and TOL clean up operations are complete, the TOL will be tested to 1500 psi (per BLM).

The Drilling Rig will be rigged down at this point and Completion operations will begin.

A 4-1/2" 11.6# P-110 tie-back string with seal assembly will be run and stung into the PBR of the liner hanger, tested to 1500 PSI and hung off at the surface.