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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.*

5. Lease Serial No.
NMSF-078771

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 #642H

2. Name of Operator
WPX Energy Production, LLC

9. API Well No.
30-039-31315

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

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SHL: 975' FNL & 524' FWL, Sec 19, T31N, R5W
BHL: 1282'FNL & 22' FEL, Sec 23, 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 **Remediate Intermediate Casing-CEMENT**
	☐ 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 plans to remediate the Intermediate Casing Cement per attached preliminary procedures.

Notify NMOCD 24 hours prior to MIT

Notify NMOCD 24 hrs prior to beginning operations

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

OIL CONS. DIV DIST. 3

JAN 27 2016

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

Title Permit Tech III

Signature

Date 1/21/16

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Abdelgadir Elmadani

Title PE

Date 1/22/16

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

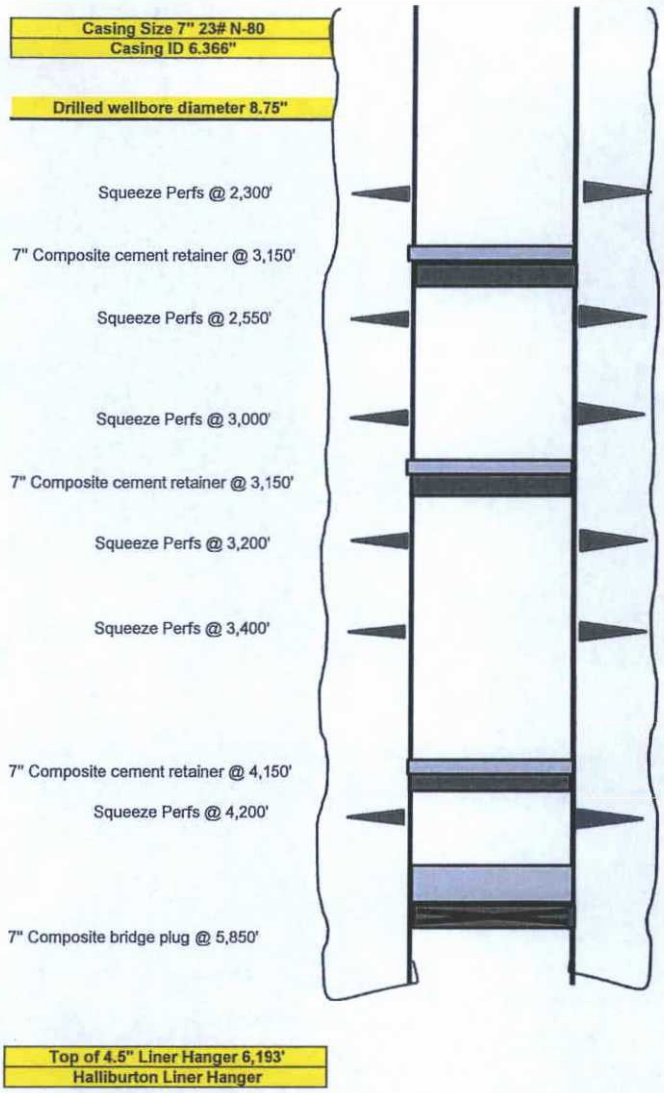
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD

4

per Amy kc

Rosa Unit 642H



4 1/2" Casing Cement

1.145 ft3/sx yield

Volume of 4 1/2"		0.0393	bbl/ft
Hole size		8.75	in
Volume of Annulus		0.0186	bbl/ft

Cement	length	bbls	ft^3	sacks
Volume in annulus	6193	115.1898	646.7	565
Total using 10% excess		**126.7088**	**711.4**	**621.3**
Total using 2% excess		**117.4936**	**659.7**	**576.1**

Displacement	length	bbls	ft^3
Surface to DV tool	6193	**243.4**	**1366.5**

SQUEEZE 3

1.145 ft3/sx yield

Volume of 7" 23# N80		0.0393	bbl/ft
Hole size		8.75	in
Volume of Annulus		0.0268	bbl/ft

Cement	length	bbls	ft^3	sacks
Volume in casing	50	1.965	11.0	10
Volume in annulus	250	6.7	37.6	33
Total using 10% excess		**9.335**	**52.4**	**45.8**

Displacement	length	bbls	ft^3
Surface to cement retainer	3050	**119.9**	**673.0**

SQUEEZE 2

1.145 ft3/sx yield

Volume of 7" 23# N80		0.0393	bbl/ft
Hole size		8.75	in
Volume of Annulus		0.0268	bbl/ft

Cement	length	bbls	ft^3	sacks
Volume in casing	50	1.965	11.0	10
Volume in annulus	200	5.36	30.1	26
Total using 10% excess		**7.861**	**44.1**	**38.5**

Displacement	length	bbls	ft^3
Surface to cement retainer	3150	**123.8**	**695.1**

SQUEEZE 1

1.145 ft3/sx yield

Volume of 7" 32# P110		0.0393	bbl/ft
Hole size		8.75	in
Volume of Annulus		0.0268	bbl/ft
10% excess			

Cement	length	bbls	ft^3	sacks
Volume in casing	50	1.965	11.0	10
Volume in annulus	800	21.44	120.4	105
Total using 10% excess		**25.549**	**143.4**	**125.3**

Displacement	length	bbls	ft^3
Surface to cement retainer	4150	**163.1**	**915.7**

WPXENERGY

New Well Completion Procedure
Well: Rosa Unit 642H
API: 30-039-31315
AFE: WT41628
Production Field: Rosa
Date: 1/18/16

7" 23# N-80 6,351
4.5" Liner Top 6,193' Halliburton

Prepared By: Taylor Levon
Cell Phone: 720-506-6090

A frac liner will be required after a squeeze so be sure to get a latch down type seal assembly to avoid buckling issues

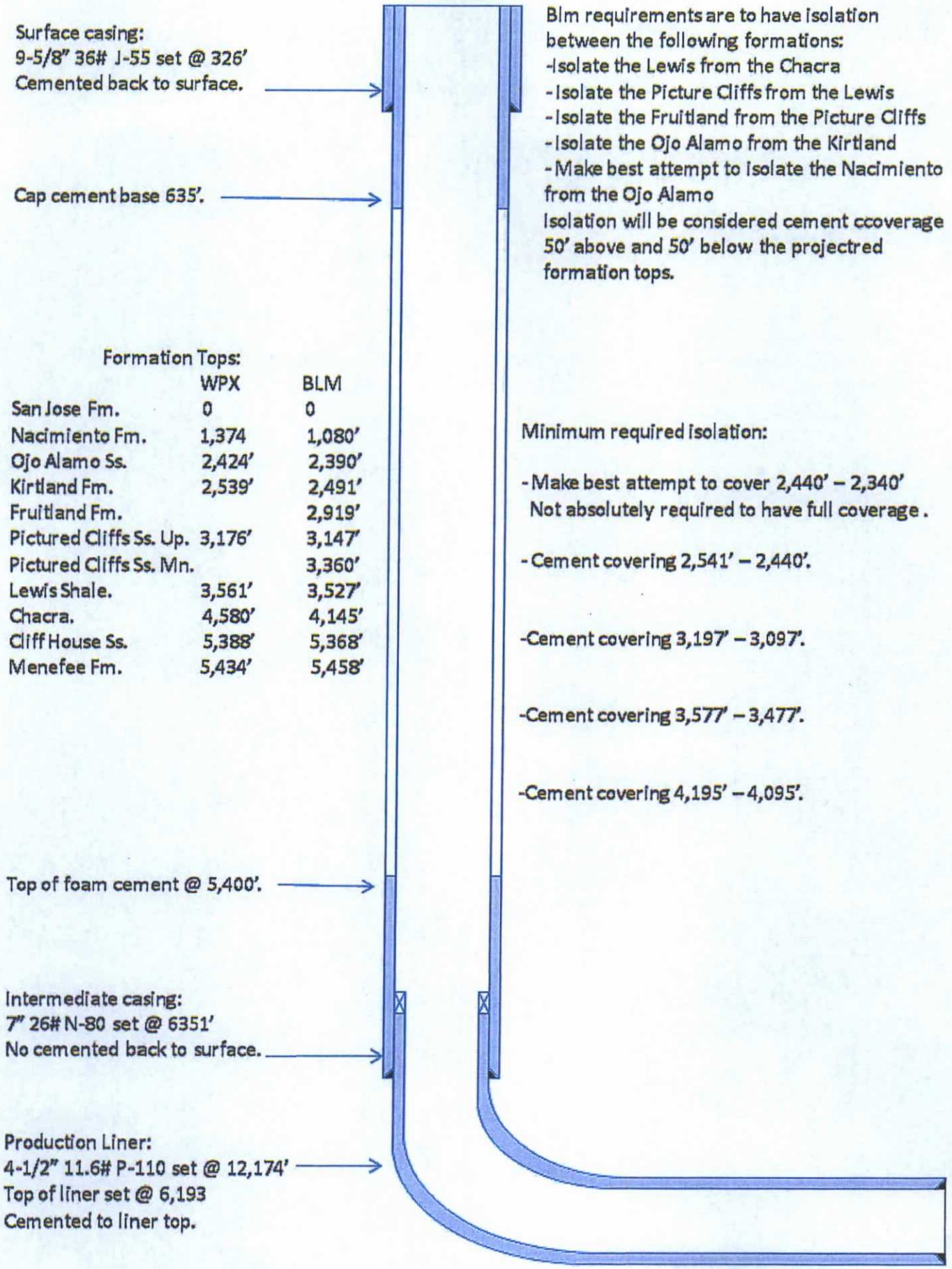
TOC currently @ 5850' (good) TOC (trace) @ 5500 Cement: 14 ppg 1.40 yield

MIRU Workover Rig. Nipple up BOP & Test
MIRU Wireline to RIH w/7" RBP & set at 5,880'. Dump 3sx sand on top of RBP.
RU to pressure test casing to 2000psi and hold for 15 minutes to ensure we have a good seal with the RBP.
Shoot 2 squeeze holes with 180 deg phasing at about 4,200'
Shoot 2 holes with 180 deg phasing at about 3,400'
Option 1: PU 7" Baker Model K-1 Cement Retainer & TIH w/tbg work string & set @ 4,150'
Option 2: PU 7" Baker Model K-1 Composite Drillable Cement Retainer & RIH to set at 4,150'.
Depending on Option we will move forward accordingly.
RIH with tubing and stab into cement retainer.
Perform injection test to ensure we have circulation and record rate and pressure in OpenWells. Report rate and pressure to Halliburton cement engineer.
Establish circulation out the top, leaving the tubing/7" annulus and surface casing valve open.
Pump 26 bbls of 15.8 ppg class G cement
Reverse circulate out any remaining cement in the tubing.
If circulation was achieved WOC 12 hours
Run CBL down as close to the cement retainer as possible and log up to at least 3400' (planned TOC)
Depending on results of CBL plan will change accordingly
ASSUMING good cement from 4,200-3,400

RU to pressure test casing to 2000psi and hold for 15 minutes to ensure we have a good seal with the CIBP.
Shoot 2 squeeze holes with 180 deg phasing at about 3,200' near the center of a joint and not in a connection.
Shoot 2 holes with 180 deg phasing at about 3,000' near the center of a joint and not in a connection
Option 1: PU 7" Baker Model K-1 Cement Retainer & TIH w/tbg work string & set @ 3,150'
Option 2: PU 7" Baker Model K-1 Composite Drillable Cement Retainer & RIH to set at 3,150.
Depending on Option we will move forward accordingly.
RIH with tubing and stab into cement retainer.
Perform injection test to ensure we have circulation and record rate and pressure in OpenWells. Report rate and pressure to Halliburton cement engineer.
Establish circulation out the top, leaving the tubing/7" annulus and surface casing valve open.
Pump 8 bbls of 15.8 ppg class G cement
Pull up to 2500' and reverse circulate out any remaining cement in the tubing.
If circulation was achieved WOC 12 hours
Run CBL down as close to the cement retainer as possible and log up to at least 2800'
Wait on engineering review of CBL before moving forward
ASSUMING good cement from 3,000-3,200

RU to pressure test casing to 2000psi and hold for 15 minutes to ensure we have a good seal with the CIBP.
Shoot 2 squeeze holes with 180 deg phasing at about 2,500' near the center of a joint and not in a connection.
Shoot 2 holes with 180 deg phasing at about 2,300' near the center of a joint and not in a connection
Option 1: PU 7" Baker Model K-1 Cement Retainer & TIH w/tbg work string & set @ 2,450'
Option 2: PU 7" Baker Model K-1 Composite Drillable Cement Retainer & RIH to set at 2,450.
Depending on Option we will move forward accordingly.
RIH with tubing and stab into cement retainer.
Perform injection test to ensure we have circulation and record rate and pressure in OpenWells. Report rate and pressure to Halliburton cement engineer.
Establish circulation out the top, leaving the tubing/7" annulus and surface casing valve open.
Pump 9.5 bbls of 15.8 ppg class G cement
Pull up to 2500' and reverse circulate out any remaining cement in the tubing.
If circulation was achieved WOC 12 hours
Run CBL down as close to the cement retainer as possible and log up to at least 2800'
Wait on engineering review of CBL before moving forward
ASSUMING good cement from 3,000-3,200

RIH with tri-cone bit to drill out retainers, circulate bottoms up prior to each retainer drilled to ensure a clean wellbore
POOH with tubing and tri-cone
Attempt to pressure test to lower standard first - hold 1000 psi for minimun of 15 min. Then Step up to 1500 psi for 30 mins charted if casing holds
Retrieve RBP @ 5,850'.
Release RBP and TOOH
RIH with 4 1/2" tieback string with DV to LT @ 6,193'
Cement liner w/ 118 bbls of 15.8 ppg cement. **If bad test pump 127 bbls.**
Pump fresh water displacement
WOC 12 hours
Conduct 30 minuted 1500 psi charted pressure test
RDMO Workover rig



Blm requirements are to have isolation between the following formations:
-Isolate the Lewis from the Chacra
- Isolate the Picture Cliffs from the Lewis
- Isolate the Fruitland from the Picture Cliffs
- Isolate the Ojo Alamo from the Kirtland
- Make best attempt to isolate the Nacimiento from the Ojo Alamo
Isolation will be considered cement ccoverage 50' above and 50' below the projectred formation tops.

Formation Tops:

	WPX	BLM
San Jose Fm.	0	0
Nacimiento Fm.	1,374	1,080'
Ojo Alamo Ss.	2,424'	2,390'
Kirtland Fm.	2,539'	2,491'
Fruitland Fm.		2,919'
Pictured Cliffs Ss. Up.	3,176'	3,147'
Pictured Cliffs Ss. Mn.		3,360'
Lewis Shale.	3,561'	3,527'
Chacra.	4,580'	4,145'
Cliff House Ss.	5,388'	5,368'
Menefee Fm.	5,434'	5,458'

Minimum required isolation:

- Make best attempt to cover 2,440' – 2,340'
Not absolutely required to have full coverage.

- Cement covering 2,541' – 2,440'.

-Cement covering 3,197' – 3,097'.

-Cement covering 3,577' – 3,477'.

-Cement covering 4,195' – 4,095'.