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Form 3160-5
(February 2005)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 21 2013

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

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)

505-333-1808

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sur: 1236' FSL & 287' FWL, sec 19, T23N, R6W - BHL: 340' FSL & 340' FWL, Sec 24, T23N, R7W

5. Lease, Serial No.

NMSF-078360

6. If Indian, Allottee or Tribe Name

RCUD MAR 26 '13

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

OIL CONS. DIV.

8. Well Name and No.

DIST. 3

Chaco 2306-19M #191H

9. API Well No.

30-043-21139

10. Field and Pool or Exploratory Area

Lybrook Gallup

11. Country or Parish, State

Sandoval County, NM

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 <u>9-5/8" Casing design</u>
	<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 recompleat 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 recompleat 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.)

Due to a setting depth of 4460' TVD for the 9-5/8", 36#, K-55, LT&C intermediate casing on this well, WPX plans to maintain a column of fluid at all times inside the casing. Attached is a casing design showing collapse factor with 8.33 ppg fresh water inside casing.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

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

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

Name (Printed/Typed)

Larry Higgins

Title Permit Supervisor

Signature

Date 3/21/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Solvers

Title Petroleum Eng

Date 3/22/2013

Office

FFO

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.

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)

NMOCDA

Well name:	CHACO 2306-19M #191H	
Operator:	WPX Energy	Project ID:
String type:	Intermediate	CHACO HOR
Location:	Lybrook	

Design parameters:

Collapse

Mud weight: 9.500 ppg
 Internal fluid density: 8.330 ppg ✓

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 75 °F
 Bottom hole temperature: 137 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 440 ft
 Minimum Drift: 8.750 in

Burst

Max anticipated surface pressure: 176 psi
 Internal gradient: 0.454 psi/ft
 Calculated BHP: 2,201 psi

Annular backup: 8.33 ppg

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on buoyed weight.
 Neutral point: 3,833 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 4,460 ft
 Next mud weight: 9.500 ppg
 Next setting BHP: 2,201 psi
 Fracture mud wt: 10.000 ppg
 Fracture depth: 4,460 ft
 Injection pressure: 2,317 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	4460	9.625	36.00	K-55	LT&C	4460	4460	8.765	317.6

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	271	2020	7.452 ✓	271	3520	12.99	138	489	3.54 J

Prepared GCS
 by: Williams Production

Date: March 20, 2013
 Tulsa, Oklahoma

Larger Casing Program: CHACO 2306-19M #191-H
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
 Collapse is based on a vertical depth of 4460 ft, a mud weight of 9.5 ppg. An internal gradient of .433 psi/ft was used for collapse from TD to
 Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.