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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. **NMNM109399** 6. If Indian, Allottee or Tribe Name 7. If Unit of CA/Agreement, Name and/or No. **NMNM 135216A** 8. Well Name and No. **W Lybrook Unit 701H**
2. Name of Operator WPX Energy Production, LLC	9. API Well No. **30-045-35725**
3a. Address PO Box 640 Aztec, NM 87410 3b. Phone No. *(include area code)* 505-333-1808	10. Field and Pool or Exploratory Area **Lybrook Mancos W**
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)* **SHL: 393' FSL & 728' FWL, Sec 9, T23N, R8W** **BHL: 330' FNL & 1763' FWL, Sec 8 T23N, R8W**	11. Country or Parish, State **San Juan, 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 Casing Design**
	☒ 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.)

OIL CONS. DIV DIST. 3

JAN 17 2017

WPX requests to change the casing design per attached OPS Plan.

WPX plans to use an annular preventer to drill the intermediate section, a full BOP will be used for the production section as per attached.

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

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations

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

Signature Date 12/22/16

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by AG Elmadani Title PE Date 1/10/17

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

WPX Energy

Operations Plan

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

Date:	**January 10, 2017**	**Field:**	**Lybrook Mancos W**
Well Name:	**W LYBROOK UT #701H**	**Surface:**	
SH Location:	**SWSW Sec 9 23N-08W**	**Elevation:**	**6930' GR**
BH Location:	**NENW Sec 8 23N-08W**	**Minerals:**	

Measured Depth: **10274.73'**

I. **GEOLOGY:** SURFACE FORMATION - NACIMIENTO

A. FORMATION TOPS (GL)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	992	990	POINT LOOKOUT	4101	3977
KIRTLAND	1205	1198	MANCOS	4296	4164
PICTURED CLIFFS	1596	1574	GALLUP	4659	4513
LEWIS	1712	1685	KICKOFF POINT	5,437.06	5,165.71
CHACRA	1982	1944	TOP TARGET	5601	5240
CLIFF HOUSE	3102	3019	LANDING POINT	5,831.25	5,281.00
MENEFEE	3153	3068	BASE TARGET	5,831.25	5,281.00
			TD	10,275	5,275.00

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 17-1/2" Surface hole, the 12-1/4" Directional Vertical hole, and the 8-3/4" curve portion of the wellbore. A LSND (WBM) will be used to drill 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 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Pressure test surface casing to **600 psi 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. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results. Annular BOP will be utilized for intermediate section. Full BOP (annular, pipe, blind) will be utilized after 9-5/8" intermediate is set.**

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	17.5"	220'	13.375"	54.5 LBS	J-55 or equiv	LTC
INTERMEDIATE	12.25"	3,203	9.625"	36 LBS	J-55 or equiv	LTC
PRODUCTION	8.75"	10,275	5.5"	23 LBS	P-110 or equiv	LTC

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 13-3/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.

2. INTERMEDIATE CASING: 9-5/8" 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 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.

3. PRODUCTION CASING: Run 5-1/2" with cement nose guide Float Shoe + 2jts. of 5-1/2" casing + Landing Collar + 5-1/2" pup joint + 1 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.

C. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions, all sections have cement to surface)

1. Surface

Fluid #	Fluid Type	Fluid Name	Surface Density	Downhole Volume
1	SPACER	Fresh Water	8.33	10 bbl
2	CEMENT	HalCem	15.8	62 bbl
3	MUD	Displacement	9.00	27.1 bbl

Cement Volumes	Sks	Cu. Ft	Yield
	295	346	1.174

2.Intermediate

Fluid #	Fluid Type	Fluid Name	Surface Density	Downhole Volume
1	SPACER	FW Spacer	8.33	10 bbl
2	SPACER	Chemical Wash	8.4	20 bbl
3	CEMENT	HalCem	12.3	250 bbl
4	CEMENT	HalCem	15.8	51 bbl
5	SPACER	FW Spacer	8.33	10 bbl
6	SPACER	WBM Disp.	9.0	120 bbl

Cement Volumes	Sks	Cu. Ft.	Yield
Lead	720	1411	1.960
Tail	250	287	1.148

3. Production

Fluid #	Fluid Type	Fluid Name	Surface Density	Downhole Volume
1	SPACER	Fresh Water	8.33	10 bbl
2	SPACER	Tuned Spacer III	9.5	40 bbl
3	SPACER	Fresh Water	8.33	10 bbl
4	CEMENT	Lead Cement	12.3	288 bbl
5	CEMENT	Extenda Cem	13.3	280 bbl
6	SPACER	MMCR Disp	8.4	20 bbl
7	SPACER	KCL Disp	8.4	197 bbl

Cement Volumes	Sks	Cu. Ft.	Yield
Lead	815	1619	1.987
Tail	1165	1577	1.354

I.
COMPLETION

A. **CBL**

Run CCL for perforating

A. **PRESSURE TEST**

1. Pressure test 5-1/2" casing to 4500 psi max, hold at 1500 psi for 30 minutes. Increase pressure to Open RSI sleeves.

B. **STIMULATION**

1. Stimulate with approximately 2,805,000# 20/40 mesh sand and 340,000# 16/30 mesh sand in 619,113 gallons water with 42,696 mscf N2 for 17 stages.
2. Isolate stages with flow through frac plug.
3. Drill out frac plugs and flowback lateral.

C. **RUNNING TUBING**

1. *Production Tubing:* Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near 80 deg into 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.