

Submit 1 Copy To Appropriate District  
Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
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District III - (505) 334-6178  
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District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
Revised August 1, 2011

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> 2. Name of Operator WPX ENERGY PRODUCTION, LLC. 3. Address of Operator 721 SOUTH MAIN AZTEC NM 4. Well Location Unit Letter <u>I</u> : <u>1478'</u> feet from the <u>SOUTH</u> line and <u>280'</u> feet from the <u>EAST</u> line Section <u>16</u> Township <u>22N</u> Range <u>6W</u> NMPM County <u>SANDOVAL</u> 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 7194'	WELL API NO. 30-043-21166 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> 6. State Oil & Gas Lease No. V092100 7. Lease Name or Unit Agreement Name 8. Well Number CHACO 2206-16I #223H 9. OGRID Number 120782 10. Pool name or Wildcat LYBROOK GALLUP

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐

OTHER: **CHANGE OF OPS PLANS**  
☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

WPX plans to adjust the surface depth from 400' to ~320'. Attached is an updated Operational Plan.

*Hdd C-104 for NSL*



Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE PERMIT TECH III DATE 2/11/15

Type or print name \_\_\_\_\_ E-mail address: \_\_\_\_\_ PHONE: \_\_\_\_\_

**For State Use Only**

APPROVED BY: [Signature] SUPERVISOR DISTRICT #3 DATE FEB 20 2015  
Conditions of Approval (if any): AV

**WPX ENERGY**

**Operations Plan**

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

**DATE:** 8/12/13 **FIELD:** Lybrook Gallup

**WELL NAME:** Chaco 2206-161 #223H **SURFACE:** State

**SH Location:** NESE Sec 16-22N-6W **ELEVATION:** 7,194' GR

**BH Location:** NWSW Sec 16-22N-6W **MINERALS:** State  
Sandoval, NM

**MEASURED DEPTH:** 10,088' **LEASE #:** V09210

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

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

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1,266	1,264	Point Lookout	4,163	4,153
Kirtland	1,435	1,432	Mancos	4,258	4,248
Pictured Cliffs	1,832	1,828	<b>Kickoff Point</b>	<b>4,878</b>	<b>4,867</b>
Lewis	1,977	1,972	Target Top	5,463	5,335
Chacra	2,181	2,175	<b>Landing Point</b>	<b>5,706</b>	<b>5,388</b>
Cliff House	3,325	3,318	Target Base	5,915	5,539
Menefee	3,365	3,355			
			<b>TD</b>	<b>10,088</b>	<b>5,305</b>

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

**C. LOGGING PROGRAM:** LWD GR from KOP to TD. LWD GR / Sonic will be run in Lateral.

**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 3/4" Directional Vertical hole and drill the curve portion of the wellbore. (OBM) 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 1500 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.**

**NOTE:** Vertical portion of the well (8-3/4 in.) will be vertically/directionally drilled as per attached Directional Plan to +/- 4,878' MD / 4,867' (TVD). The 8-3/4 in. Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 5,706' (MD) / 5,388' (TVD). 7 in. csg will be set at this point. Will drill the lateral (6-1/8 in. hole) as per the attached Directional Plan to +/- 10,088'(MD) / 5,305' (TVD). Will run 4-1/2 in. Production Casing to TD and Cement.

**III. MATERIALS****A. CASING PROGRAM:**

Surface		12.25"		+/-320'		9 5/8		36#	J-55
Intermediate		8.75"		5,706'		7		23#	K-55
Longstring		6.125"		10,088'		4 1/2		11.6#	N-80

**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.
3. PRODUCTION CASING: Run 4-1/2" casing with cement nose guide Float Shoe + 1 joint 4-1/2" csg.+ Float Collar. Centralizer program will be determined when Lateral is evaluated by Geoscientists and Reservoir Engineers.

**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: 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: 850 sx Foamed 50/50 Poz Cement. 13.0 ppg (Yield :1.43 cu-ft/ sk. / Vol: 1216 cu-ft) + 0.1% Halad 766 + 0.2% Versaset + 1.5% Chem-Foamer 760 + TAIL: 100 sx 13.5 #/gal. (Yield: 1.28 cu-ft / sk / Vol: 128 cu-ft) + 0.2% Versaset + 0.15% HALAD-766. + F. Water Displacement (1,511 cu-ft) + 100 sx Top-Out Cement Premium: Yield: (1.17 cu-ft/ sk (Vol: 117 cu-ft). Est TOC: Surface. Test Casing to 1500 PSI for 30 minutes. Total Volume: (2021 cu-ft/1050 sx/260 bbls).
3. PRODUCTION CASING: **STAGE 1**: 40 bbl (224.6 cu-ft) KCL water Spacer + **STAGE 2**:10 bbl (56.cu-ft) Fr Water Spacer.+ **STAGE 3**:40 bbl 10 ppg . (224.6 cu-ft) Tuned Spacer III + 0.2 gal/bbl Musol + 38.7 ppb Barite + 0.5 gal/bbl SEM-7. + **STAGE 4**: 10 bbl Fr Water Spacer.+ **STAGE 5**: Lead Cement, 70 sx Premium cmt + 0.1% Halad-766, Yield 1.16 cu ft/sk, 15.8 #/gal, (70 sx / 81.2 cu ft. / 14.46 bbls) **STAGE 6**: Foamed Lead Cement: 240 sx. 50/50 Poz Standard + 0.2% Versaset + 0.2% HALAD-766 + 1.5% Chem-Foamer 760. Yield 1.43 cu-ft/sk ,13.0 ppg. (240sx / 343.2 cu-ft / 61.1bbls) + **STAGE 7**: Tail Cement : 110 sx 50/50 Poz Premium + 0.2% Versaset + .05% HALAD-766 + .05% SA-1015,Yield 1.3 cu-ft/sk,13.5 ppg. (110 sx / 143 cu ft. / 25.46 bbls) **STAGE 8**: Displace w/+/-162 bbl KCL Water. Total Cement (420 sx / 568.5 cu ft / 101.2 bbls). Mix w/ +/- 98,000 SCF Nitrogen. Est. TOC +/- 4,600 ft. Total Volume: (567.4 cu-ft / 420 sx / 101.1 bbls).

#### **IV. COMPLETION**

##### **A. CBL**

1. Run Cement Bond Log and ensure top of cement is above 7" casing shoe.

##### **B. PRESSURE TEST**

1. Pressure test 4-1/2" casing to 5000 psi max, hold at 1500 psi for 30 minutes.

##### **C. 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 N<sub>2</sub> for 17 stages.
2. Isolate stages with flow through frac plug.
3. Drill out frac plugs with CTU and flowback lateral.

##### **D. RUNNING TUBING**

1. Production Tubing: Run 2-3/8", 4.7#, N-80, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing at landing point of curve (~5,700' MD).

- 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.
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