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Form 3160-5 (February 2005)	UNITED S DEPARTMENT OF BUREAU OF LAND	THE INTERIOR 13	2015	FORM APPROVED OMB No. 1004-0137 Expires: March 31, 2007	
SUNDRY NOTICES AND REPORTS ON WELLS				5. Lease Serial No. , ;N0-G-0207-1610	
	use this form for proposa and well. Use Form 3160-3	als. Na	If Indian, Allottee or Tribe Name Ivajo Allotment		
1. Type of Well	SUBMIT IN TRIPLICATE -	Other instructions on page 2.		If Unit of CA/Agreement, Name and/or No. 33482x	
Oil Well Gas Well Other				Well Name and No. V LYBROOK UT #132H	
2. Name of Operator WPX Energy Produc	ction LLC			API Well No.	
3a. Address	Aztec, NM 87410	3b. Phone No. <i>(include area code)</i> 505-333-1816		30-045-35625 10. Field and Pool or Exploratory Area Lybrook Unit NW HZ	
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SHL: 1910' FNL & 1569' FWL SEC 36 24N 8W BHL: 2170' FNL & 230' FWL SEC 35 24N 8W				11. Country or Parish, State San Juan, NM	
1:	2. CHECK THE APPROPRIATE BC)X(ES) TO INDICATE NATURE	OF NOTICE, REPOI	RT OR OTHER DATA	
TYPE OF SUBMI	ISSION	TYP	E OF ACTION	· · · · · · · · · · · · · · · · · · ·	
Notice of Intent	Acidize	Deepen	(Start/Resume)	Water Shut-Off	
	Alter Casing	Fracture Treat	Reclamatio	m Well Integrity	
Subsequent Report	Casing Repair	New Construction	Recomplete	CHANGE OF OPS PLANS	
Final Abandonmen	t Notice	Plug and Abandon	Abandon		
all pertinent marke subsequent reports recompletion in a requirements, inclu	ers and zones. Attach the Bond under s must be filed within 30 days followi	which the work will be performed ing completion of the involved ope filed once testing has been comple- ted and the operator has determine	l or provide the Bond rations. If the operati- eted. Final Abandonm ed that the site is ready		
Wi X plans to adju			``````````````````````````````````````		
CONDITIONS (1	/ RECEIVED	\ AC	M'S APPROVAL OR ACCEPTANCE OF TI TION DOES NOT RELIEVE THE LESSEI ERATOR FROM OBTAINING ANY OTHE	
Adhere to previously	y issued stipulations	FEB 2 0 2015	. AU	THORIZATION REQUIRED FOR OPERA I FEDERAL AND INDIAN LANDS	
14. I hereby certify that t Name (Printed/Typed) LACEY GRANILL	the foregoing is true and correct.	DISTRICT IL	PERMITTING	TECH III	
Signature	a della	Dat	e 2/11/15		
Approved by	THIS SPACE	FOR FEDERAL OR STA			
Conditions of approval, i the applicant holds legal	m <u>Tambekon</u> if any, are attached. Approval of this not or equitable title to those rights in the su	tice does not warrant or certify that ubject lease which would entitle the	Petroleum Title Engine Office FFO	er Date 2-17-2015	
	1001 and Title 43 U.S.C. Section 1212,		ingly and willfully to m	nake to any department or agency of the	
United States any false it	fictitious or fraudulent statements or rer	presentations as to any matter within	its jurisdiction.	•	
United States any false, f	fictitious or fraudulent statements or rep	presentations as to any matter within	its jurisdiction.	·	

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WPX ENERGY

Operations Plan

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

DATE:	10/23/2014	FIELD:	Lybrook Unit'NW HZ (Oil)
WELL NAME:	NW Lybrook UT #132H	SURFACE:	State
SH Location:	SENW Sec 36 -24N -08W	ELEVATION:	6871' GR
BH Location:	SWNW Sec 35 -24N -08W San Juan CO., NM	MINERALS:	State/Indian Allotted
MEASURED DEPTH:	11,174	LEASE #:	NO-G-0207-1610

I. <u>GEOLOGY:</u> Surface formation – Naciemiento

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
			· · · ·		
Ojo Alamo	1212	·1206	Point Lookout	4342	4194
Kirtland	1326	1316	Mancos	4577	4424
Picture Cliffs	1874	1839	Kickoff Point	5001	4846
Lewis	2006	1965	Top Target	5640	5383
Chacra	2307	2252	Landing Point	6069	5513
Cliff House	3413	3306	Base Target	6069	5513
Menefee	3480	3370			
			TD	11174	5444

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. <u>MUD PROGRAM</u>: LSND mud (WBM) will be used to drill the 12-1/4" Surface hole, the 8 ¾" Directional Vertical hole, and the curve portion of the wellbore. A LSND (WBM) or (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. <u>BOP TESTING</u>: 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.

NOTE: Vertical portion of the well (8-3/4 in.) will be directionally drilled as per attached Directional Plan to +/- 5,001' (MD) / 4,846' (TVD). Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 6,069' (MD) / 5,513' (TVD). 7 in. csg will be set at this point. A 6-1/8" Lateral will be drilled as per the attached Directional Plan to +/- 11,174' (MD) / 5,440' (TVD). Will run 4-1/2 in. Production Liner from +/- 5,919 ft. to TD and cemented. Liner will be tied back to surface w / 4-1/2" Casing for stimulation / testing, then removed from the well.

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"	6,069'	7"	23#	K-55
Prod. Liner	6.125"	5,919 - 11,174'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf 5,919'	4-1/2"	11.6#	N-80

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING</u>: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 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.
- <u>PRODUCTION LINER</u>: 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: None

C. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

- <u>SURFACE</u>: 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.
- INTERMEDIATE: 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: +/- 700 sx Foamed 50/50 Poz Cement. 13.0 ppg + 0.1% Halad 766 + 0.2% Versaset + 1.5% Chem-Foamer 760 (Yield :1.43 cu-ft/ sk. / Vol: 1216 cu-ft / 216.5 Bbls.) + TAIL: 100 sx 13.5 #/gal. + 0.2% Versaset + 0.15% HALAD-766 (Yield: 1.28 cu-ft / sk / Vol: 128 cu-ft / 22.8 Bbls.). + Fresh Water Displacement (1,362 cu-ft / +/- 242 Bbls) + 100 sx Top-Out Cement Premium: Yield: (1.17 cu-ft/ sk / (Vol: 117 cu-ft / 20.8 Bbls). Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (1050 sx / 1461 cu-ft / 260 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
- <u>PRODUCTION LINER</u>: STAGE 1:10 bbl (56.cu-ft) Fr Water Spacer. STAGE 2:40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III + 0.5 gal/bbl Musol + 38.75 ppb Barite + 0.5 gal/bbl SEM-7. STAGE 3: 10 bbl Fr Water Spacer. STAGE 4: Lead Cement: 50 / 50 Poz Premium + 0.2% Versaset + 0.2% Halad -766, Yield 1.43 cu ft/sk, 13.0 ppg, (10 sx / 14.3 cu ft. / 2.5 bbls). STAGE 5: 200 sx. Foamed Lead Cement: 50 / 50 Poz Standard + 0.2% Versaset + 0.2% HALAD-766 + 1.5% Chem-Foamer 760. Yield 1.97 cu-ft/sk. 13.0 ppg (200 sx / 394 cu-ft. / 70.2 bbls.). STAGE 6: Tail Cement : 100 sx. 50/50 Poz Standard + 0.2% Versaset + 0.05% HALAD-766 + .05% SA-1015, Weight: 13.5 ppg (100 sx / Yield 1.28 cu ft/sk. / 128 cu ft. / 22.8 bbls) STAGE 7: Displace w/ +/- 137 bbl Fr Water. Total Cement (536.3 cu ft / 95.5 bbls). Mix Foamed Cement w/ +/- 75,000 SCF Nitrogen. Est. TOC +/- 5,644 ft.

IV. COMPLETION

A. <u>CBL</u>

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 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.

D. RUNNING TUBING

- 1. <u>Production Tubing</u>: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner point of curve (~5,800' 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.

NOTE:

Installation of RSI sleeves at Toe of Lateral.

Proposed Operations:

A 4-1/2" 11.6# N-80 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# K-55 Intermediate casing (set at 6,094 ft. MD) with a Liner Hanger and pack-off assembly then cemented to +/- 300 ft above the liner hanger. TOL will be +/- 5,944 ft. (MD) +/- 78 degree angle. TOC: +/- 5,644 ft. (MD).

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

A 4-1/2" 11.6# N-80 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.

The Drilling Rig will be rigged down at this point and Completion operations will begin. After Stimulation and Testing operations are complete the 4-1/2" tie-back string will be removed from the well.

Note: Changes to formation tops, casing landing points, well TD and Directional Plan.