State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



Tony Delfin Deputy Cabinet Secretary

NMOCD Approved by Signature

New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

BLM on the following 3100-3 APD form.
Operator Signature Date: 11-12-15 Well information;
Operator WPX , Well Name and Number W Lybrook Unit #743 API# 30-045-35729, Section 8, Township 38 N/S, Range 08 E/W
API# 30-045-35729, Section 8, Township 23 NS, Range 08 E/W
Conditions of Approval: (See the below checked and handwritten conditions)
Notify Aztec OCD 24hrs prior to casing & cement.
Hold C-104 for directional survey & "As Drilled" Plat
Hold C-104 for NSL, NSP, DHC
 Spacing rule violation. Operator must follow up with change of status notification on other wel to be shut in or abandoned
 Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
Submit Gas Capture Plan form prior to spudding or initiating recompletion operations
Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

5. Lease Serial No.

36. If Indian, Allottee or Tribe Name

N0-G-1403-1908

API	LICA	MOIL	FOR	PERMIT	10	DRILL	OR	KEENI	ER

				The state of the s		
la. Type of Work: ☑ DRILL ☐ REENTER	3	n h man	Har	The state of the s	ement, Name and No.	10-
		E			JNIT NMNM-	735
1b. Type of Well: Oil Well Gas Well Other	⊠ Si	ngle Zone Mu	Itiple Zone	8. Lease Name and W		
2. Name of Operator			aupie Zene	W LYBROOK UN	III #/43H	
				9. API Well No.	5-3572	9
WPX Energy Production, LLC 3a, Address	3b. Phone No.	(include area code)		10. Field and Pool, or	The same of the sa	-
P.O. Box 640 Aztec, NM 87410	(505) 333			LYBROOK MANCO		
Location of Well (Report location clearly and in accordance with any				11. Sec., T., R., M., or		rea
At surface 1209' FŞL & 1346' FWL SEC 8 23N 8W	OII	CONS. DIV I	r Tain	SHL: Sec 8, T23N		
H	-	a deliter bit	0101.0		* 1000 00 100 00 00 00 00 00 00 00 00 00	
At proposed prod. zone 1496' FNL & 330' FEL SEC 17 23N 8W		MAY 0 0 20	140	BHL: Sec 17, T23	N, R8W	
 Distance in miles and direction from nearest town or post office* 		MAY 0 9 20	110	12. County or Parish	13. State	
From Bloomfield NM travel approximately 38.7 miles to Mile Ma	rker 112.7				NM	
5. Distance from proposed*	16. No. of A	cres in lease		g Unit dedicated to this	vell	
location to nearest property or lease line, ft.			240-ACF	RES		
(Also to nearest drig. unit line, if any) 1209	160 acr	es				
8. Distance from proposed location*	19. Proposed Depth 20. BLM/E			BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.			A STATE OF THE STA			
20	10047 MD / 5062' TVD UTB00					
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*			23. Estimated duration		
6823' GR		per 1, 2015		1 month		
	24. Attac	chments				
he following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, shall be	attached to this	form:		
. Well plat certified by a registered surveyor.	1	A. Don'd to sever	d		intina hand on file	
. A Drilling Plan.		Item 20 above		s unless covered by an	existing bond on file	see
A Surface Use Plan (if the location is on National Forest System I	Lands, the	Operator certification				
SUPO shall be filed with the appropriate Forest Service Office).				rmation and/or plans a	s may be required by	the
Market State of the State of th		authorized off	icer.	1	-	
5. Signature	Name	(Printed/Typed)			Date 11/12/15	
TUXUT /	Lace	y Granillo			11/12/13	
Title						
Permit Technician III					0 1	
pproved by (Signature) Manlee 100	Name	(Printed/Typed)			Date 5/6/16	5
Title AFM	Office	FF	0			
Application approval does not warrant or certify that the applicant holds I	legal or equitab	ole title to those rights	in the subject	lease which would entitle	e the applicant to condu	ict
perations thereon.						
Conditions of approval, if any, are attached.						

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 reverse)

WPX Energy Production, LLC, proposes to develop the Lybrook Mancos W formation at the above described location in accordance with the attached drilling and surface use plans.

The well pad surface is under jurisdiction of the BLM and FIMO and is on lease on IA lands and will be twinned with the W LYBROOK UT #703H/704H/744H

This location has been archaeologically surveyed by LaPlata. Copies of their report have been submitted directly to the BLM, FIMO, BIA & NNHPD.

A new 764.1' on lease access road will be built on IA lands and permitted via APD.

A new 4472' on lease pipeline on IA lands will be built and permitted via the APD.







District I 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First Street, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505 Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

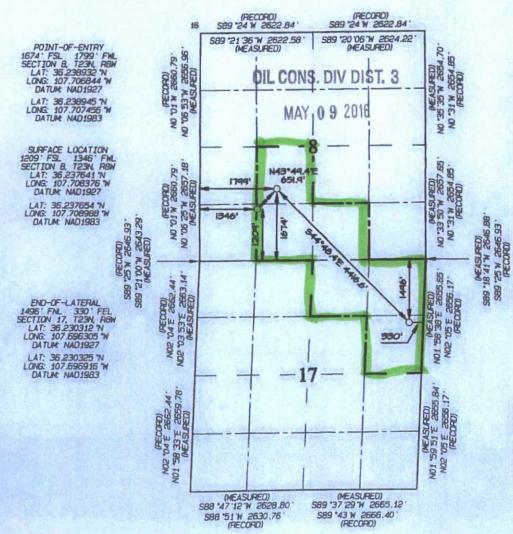
30-045-35" Property Code	*Property Name	"Well Number
31525	W LYBROOK UNIT	743H
'OGRID No.	*Operator Name	*Elevation
120782	WPX ENERGY PRODUCTION	N, LLC 6823

N 8 NES. BW 1209 SOUTH 1346 WEST SAN JUAN 11 Bottom Hole Location If Different From Surface UL or lot no. Sect ion Township Lot Ton Feet from the North/South line Feet from the East/West line County NE2 H 17 8W 1496 NORTH 330 EAST SAN JUAN Joint or Infill M Consolidation Code Order No. 240.00 R-14051 12,807.24 Acres

E/2 SW/4, SW/4 SE/4 - Section 8 N/2 NE/4, SE/4 NE/4 - Section 17

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

17 OPERATOR CERTIFICATION



I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest for to a voluntary pooling agreement or a compulsory pooling order herefologe entered by the division. Signature LACEY GRANTILLO
Printed Name LACEY.GRANILLO@WPXENERGY.COM
E-mail Address
*SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date Revised: OCTOBER 8, 2015 Date of Survey: MAY 20, 2015
Signature and Seal of Professional Surveyor
Signature and Seal of Professional Surveyor C. EDWARD MEXICO 15269 B ADDRESSION APPRESSION APPR
JASON C. EDWARDS Certificate Number 15269

WPX Energy

T23N R8W W Lybrook 2308-7B W Lybrook UT #743H - Slot A3

Wellbore #1

Plan: Design #1 23Sep15 sam

Standard Planning Report

29 September, 2015

WPX

Planning Report

COMPASS Database: WPX Energy Company: Project: **T23N R8W** W Lybrook 2308-7B Site: Well: Wellbore:

W Lybrook UT #743H Wellbore #1

Design #1 23Sep15 sam

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook UT #743H (A3) - Slot A3 KB @ 6837.00usft (Aztec 920) KB @ 6837.00usft (Aztec 920)

True

Minimum Curvature

T23N R8W Project

Map System:

Design:

Site

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

System Datum:

Mean Sea Level

Geo Datum: Map Zone:

New Mexico West 3003

Site Position: From:

Мар

W Lybrook 2308-7B

Northing: Easting:

1,906,343.71 usft 537,196.07 usft

Latitude: Longitude:

36.239225 -107.707202

Position Uncertainty:

Position Uncertainty

0.00 usft Slot Radius: 13.200 in Grid Convergence: 0.07

Well W Lybrook UT #743H - Slot A3

Well Position

+N/-S +E/-W -576.44 usft -346.34 usft 0.00 usft Northing: Easting:

1,905,766.82 usft 536,850,48 usft Wellhead Elevation: 0.00 usft Latitude: Longitude:

Ground Level:

36.237641 -107.708376 6,823.00 usft

50,029

Wellbore Wellbore #1 Model Name Declination Magnetics Sample Date Dip Angle Field Strength (°) (°) IGRF2010 9/23/2015 9.29 62.94

Design Design #1 23Sep15 sam Audit Notes: Version:

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft)

0.00

+N/-S (usft) 0.00

+E/-W (usft) 0.00

Direction (bearing) 126.84

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (*/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (*)	Target
		No. of the last							THE TEN	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
531.00	0.00	0.00	531.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,275.68	14.89	354.71	1,267.32	95.83	-8.88	2.00	2.00	0.00	354.71	
4,431.58	14.89	354.71	4,317.20	903.51	-83.72	0.00	0.00	0.00	0.00	
5,230.05	60.00	135.27	4,993.75	737.74	186.54	9.00	5.65	17.60	144.63	Start 60 tan 743H
5,290.05	60.00	135.27	5,023.75	700.83	223.11	0.00	0.00	0.00	0.00	End 60 tan 743H
5,462.10	75.49	135.27	5,088.72	588.05	334.83	9.00	9.00	0.00	0.00	
5,630.17	90.61	135.27	5,109.00	469.88	451.91	9.00	9.00	0.00	-0.01	POE 743H
10,046.97	90.61	135.27	5,062.00	-2,667.63	3,560.27	0.00	0.00	0.00	0.00	BHL 743H

WPX

Planning Report

Database: Company: Project: COMPASS WPX Energy T23N R8W W Lybrook 2308-7B W Lybrook UT #743H

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well W Lybrook UT #743H (A3) - Slot A3 KB @ 6837.00usft (Aztec 920) KB @ 6837.00usft (Aztec 920)

True

Minimum Curvature

 Site:
 W Lybrook 2

 Well:
 W Lybrook U

 Wellbore:
 Wellbore #1

Design: Design #1 23Sep15 sam

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00 351.00	0.00	0.00	0.00 351.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00	0.00
9 5/8"									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
531.00	0.00	0.00	531.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2									
1,000.00	9.38	354.71	997.91	38.14	-3.53	-25.70	2.00	2.00	0.00
1,275.68	14.89	354.71	1,267.32	95.83	-8.88	-64.57	2.00	2.00	0.00
Hold 14.89 Ir	clination								
1,500.00	14.89	354.71	1,484.11	153.24	-14.20	-103.25	0.00	0.00	0.00
2,000.00	14.89	354.71	1,967.31	281.21	-26.06	-189.47	0.00	0.00	0.00
2,500.00	14.89	354.71	2,450.51	409.17	-37.91	-275.69	0.00	0.00	0.00
3,000.00	14.89	354.71	2,933.71	537.13	-49.77	-361.91	0.00	0.00	0.00
3,500.00	14.89	354.71	3,416.92	665.10	-61.63	-448.13	0.00	0.00	0.00
4,000.00	14.89	354.71	3,900.12	793.06	-73.49	-534.35	0.00	0.00	0.00
4,431.58	14.89	354.71	4,317.20	903.51	-83.72	-608.77	0.00	0.00	0.00
	LS 9.00 TFO 14								
4,500.00	10.48	14.66	4,383.96	918.30	-82.96	-617.03	9.00	-6.45	29.17
5,000.00	39.71	129.81	4,846.13	856.86	58.59	-466.91	9.00	5.84	23.03
5,230.05	60.00	135.27	4,993.75	737.74	186.54	-293.09	9.00	8.82	2.37
Hold 60.00 In		100.27	4,555.75	131.14	100.54	-233.03	9.00	0.02	2.01
5,290.05	60.00	135.27	5,023.75	700.83	223.11	-241.69	0.00	0.00	0.00
	LS 9.00 TFO 0.0		0,020.70	700.03	223.11	-241.05	0.00	0.00	0.00
5,462.10	75.49	135.27	5,088.72	588.05	334.83	-84.66	9.00	9.00	0.00
Start DLS 9.0		100.21	3,000.72	300.03	334.03	-04.00	5.00	9.00	0.00
5,500.00	78.90	135.27	5,097.12	561.80	360.84	-48.10	9.00	9.00	0.00
5,630.00	90.59	135.27	5,109.00	470.00	451.79	79.73	9.00	9.00	0.00
7"	50.55	100.27	0,100.00	47 0.00	401.70	70.70	3.00	3.00	0.00
5,630.17	90.61	135.27	5,109.00	469.88	451.91	79.90	9.00	9.00	0.00
	Inc 135.27 deg	133.27	5,109.00	409.00	451.91	79.90	9.00	9.00	0.00
6,000.00	90.61	135.27	5,105.06	207.16	712.18	445.72	0.00	0.00	0.00
6,500.00	90.61	135.27	5,099.74	-148.01	1,064.06	940.30	0.00	0.00	0.00
7,000.00	90.61	135.27	5,094.42	-503.19	1,415.94	1,434.87	0.00	0.00	0.00
7,500.00	90.61	135.27	5,089.10	-858.37	1,767.82	1,929.45	0.00	0.00	0.00
200000000000000000000000000000000000000					All the second second				
8,000.00	90.61	135.27	5,083.78	-1,213.55	2,119.70	2,424.03	0.00	0.00	0.00
8,500.00	90.61	135.27	5,078.46	-1,568.73	2,471.58	2,918.61	0.00	0.00	0.00
9,000.00	90.61	135.27	5,073.14	-1,923.91	2,823.46	3,413.18	0.00	0.00	0.00
9,500.00	90.61 90.61	135.27 135.27	5,067.82 5,062.50	-2,279.09 -2,634.27	3,175.34 3,527.22	3,907.76 4,402.34	0.00	0.00	0.00
10,046.97	90.61	135.27	5,062.00	-2,667.63	3,560.27	4,448.80	0.00	0.00	0.00

WPX

Planning Report

Database: Company: Project:

Site:

COMPASS WPX Energy

T23N R8W W Lybrook 2308-7B W Lybrook UT #743H

 Well:
 W Lybrook UT #743H

 Wellbore:
 Wellbore #1

 Design:
 Design #1 23Sep15 sam

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook UT #743H (A3) - Slot A3

KB @ 6837.00usft (Aztec 920) KB @ 6837.00usft (Aztec 920)

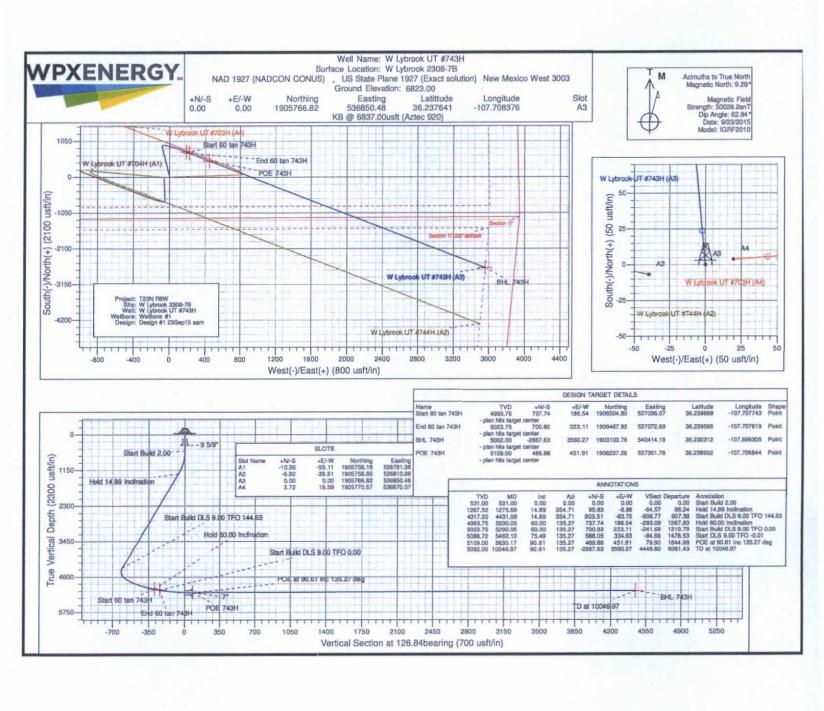
True

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 tan 743H - plan hits target cente - Point	0.00	0.00	4,993.75	737.74	186.54	1,906,504.80	537,036.07	36.239668	-107.707744
End 60 tan 743H - plan hits target cente - Point	0.00	0.00	5,023.75	700.82	223.11	1,906,467.93	537,072.69	36.239566	-107.707620
BHL 743H - plan hits target cente - Point	0.00 er	0.00	5,062.00	-2,667.63	3,560.27	1,903,103.78	540,414.19	36.230312	-107.696305
POE 743H - plan hits target cente - Point	0.00	0.00	5,109.00	469.88	451.91	1,906,237.28	537,301.78	36.238932	-107.706844

sing Points						
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)
	351.00	351.00	9 5/8"		9.625	12.250
	5,630.00	5,109.00	7"		7.000	8.750

lan Annotations					
	Measured Depth (usft)	Vertical Depth (usft)	Local Coon +N/-S (usft)	dinates +E/-W (usft)	Comment
	531.00	531.00	0.00	0.00	Start Build 2.00
	1,275.68	1,267.32	95.83	-8.88	Hold 14.89 Inclination
	4,431.58	4,317.20	903.51	-83.72	Start Build DLS 9.00 TFO 144.63
	5,230.05	4,993.75	737.74	186.54	Hold 60.00 Inclination
	5,290.05	5,023.75	700.83	223.11	Start Build DLS 9.00 TFO 0.00
	5,462,10	5.088.72	588.05	334.83	Start DLS 9.00 TFO -0.01
	5,630.17	5,109.00	469.88	451.91	POE at 90.61 Inc 135.27 deg
	10,046.97	5,062.00	-2,667,63	3,560.27	TD at 10046.97





WPX Energy

Operations Plan

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

Date:

November 12, 2015

Field:

LYBROOK MANCOS W

Well Name:

W Lybrook UT #743H

Surface:

10

SH Location:

SESW Sec 8-23N-08W

Elevation:

i: 6823' GR

BH Location:

SENE Sec 17-23N-08W

Minerals:

IA

Measured Depth: 10,046.97

I. GEOLOGY:

SURFACE FORMATION - NACIMIENTO

A. FORMATION TOPS (KB)

A. ION	IVIATION TOT	5(110)			
NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	868	867	POINT LOOKOUT	3952	3854
KIRTLAND	1078	1075	MANCOS	4146	4041
PICTURED CLIFFS	1484	1451	GALLUP	4506	4390
LEWIS	1581	1562	KICKOFF POINT	5,230.05	4,993.75
CHACRA	1849	1821	TOP TARGET	5377	5082
CLIFF HOUSE	2961	2896	LANDING POINT	5,630.17	5,109.00
MENEFEE	3012	2945	BASE TARGET	5,630.17	5,109.00
			TD	10,046.97	5,062.00

- B. MUD LOGGING PROGRAM: Mudlogger on location from surface csg to TD.
- C. LOGGING PROGRAM: LWD GR from surface casing to TD.
- D. <u>NATURAL GAUGES</u>: 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 3/4" 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.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	12.25"	320'	9.625"	36 LBS	J-55 or equiv	STC
INTERMEDIATE	8.75"	5,630.17	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5480.17 - 10,046.97	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5480.17	4.5"	11.6 LBS	P-110 or equiv	LTC

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.
- 2. <u>INTERMEDIATE CASING:</u> 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 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.
- 3. <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.

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.
- 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: 1001 cu-ft / 178.3 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). WOC 12 hrs. Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (900 sx / 1246 cu-ft / 222 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
- 3. PROD. LINER: Spacer #1:10 bbl (56.cu-ft) Water Spacer. Spacer #2: 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. Spacer #3: 10 bbl Water Spacer. Lead Cement: Extencem ™ System. Yield 1.36 cuft/sk 13.3 ppg (447 sx /608 cuft /108 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (447 sx /608bbls).

I. COMPLETION

A. CBL

Run CCL for perforating

A. 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.

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. <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.
- 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:

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 with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

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

No Tie back string will be ran in this well. All stimulation will be performed down the 7" casing.

- c. The construction zone near corner 6 of the West Lybrook UT Nos. 701H & 702H well pad may be shortened to accommodate drainage and badland hills.
- 5. All project activities will be confined to permitted areas only.
- Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, and a dozer.
- 7. If drilling has not been initiated on the well pads within 120 days of the well pads being constructed, the operator will consult with the BLM to address a site-stabilization plan.

D. Production Facilities

- 1. As practical, accesses will be a teardrop-shaped road through the production area so that the center may be revegetated.
- Within 90 days of installation, production facilities would be painted Juniper Green to blend with the natural color of the landscape and would be located on the Remote Facilities Pad, to minimize visual impact to the extent practicable.
- Berms will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks. Berm walls will be compacted with appropriate equipment to assure containment.

After the completion phases and pipeline installation, portions of the project areas not needed for operation will be reclaimed. When the well is plugged, final reclamation will occur within the remainder of the project areas. Reclamation is described in detail in the Reclamation Plan (Appendix C).



7.0 Methods for Handling Waste

A. Cuttings

- Drilling operations will utilize a closed-loop system. Drilling of the horizontal laterals will be
 accomplished with water-based mud. All cuttings will be placed in roll-off bins and hauled to
 a commercial disposal facility or a land farm. WPX will follow Onshore Oil and Gas Order No.
 1 regarding the placement, operation, and removal of closed-loop systems. No blow pit will
 be used.
- 2. Closed-loop tanks will be adequately sized for containment of all fluids.

B. Drilling Fluids

 Drilling fluids will be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as practical. All residual fluids will be hauled to a commercial disposal facility.

C. Spills

1. Any spills of non-freshwater fluids will be immediately cleaned up and removed to an approved disposal site.

D. Sewage

- Portable toilets will be provided and maintained during construction, as needed (see Figure 4 in Appendix B for the location of toilets).
- E. Garbage and other water material
 - All garbage and trash will be placed in a metal trash basket. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed.
- F. Hazardous Waste

<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #743H 1209' FSL & 1346' FWL, Section 8, T23N, R8W, N.M.P.M., San Juan County, NM

Latitude: 36.237654°N Longitude: 107.708988°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 38.7 miles to Mile Marker 112.7;

Go Right (Southerly) on County Road #7900 for 0.2 miles to begin proposed access on right-hand side of County Road #7900 which continues for 764.1' to staked WPX W Lybrook Unit #743H location.

