# State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Tony Delfin Acting Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



1#722H

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 <u>3160-3</u> APD form.

Operator Signature Date: <u>0.2.1.10</u> Well information;

Operator UPX, Well Name and Number W LUDYDOK I

API# 3D.045.3579, Section 23, Township 23 (NS, Range

Conditions of Approval: (See the below checked and handwritten conditions)

- X Notify Aztec OCD 24hrs prior to casing & cement.
- K Hold C-104 for directional survey & "As Drilled" Plat
- 10 Hold C-104 for NSL, NSP, DHC
- Spacing rule violation. Operator must follow up with change of status notification on other well 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.

NMOCD Approved by Signature

2-13-20/6

1220 South St. Francis Drive - Santa Fe, New Mexico 87505 Phone (505) 476-3460 - Fax (505) 476-3462 - www.emnrd.state.nm.us/ocd

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unaisterno + APOP. 5 at 12/9/15 + MP. 5 uballie site BIAN	0			ATS-FI	510-16-53
Form 3160-3 (March 2012) CA/PAC N/M 1	576			FORM OMB I Expires	APPROVED No. 1004-0137 Detober 31, 2014
DEPAR BUREA	UNITED STATES IMENT OF THE INTI OF LAND MANAGE	ERIOR		5. Lease Serial No. NOG13121862	
APPLICATION F	OR PERMIT TO DRI	LL OR REENTER		6. If Indian, Allotee EASTERN NAVAJ	or Tribe Name O
la. Type of work: DRILL	REENTER			7 If Unit or CA Agr NMNM13216X	eement, Name and No.
Ib. Type of Well: Oil Well Ga	s Well Other	Single Zone Multip	le Zone	8. Lease Name and W LYBROOK UT	Well No. 722H
2. Name of Operator WPX ENERGY LI	.C	Phone No. (include area code)		9. API Well No. 30-045	35179
720 S MAIN AZTEC NM 8	(50	5)333-1822		LYBROOK MANC	OS W
At surface LOT 0 / 2556 FSL / 203	7 FEL / LAT 36.212187 / L NL / 1362 FWL / LAT 36.3	.ONG -107.756116 233181 / LONG -107.78062	23	SEC 23 / T23N / R	9W / NMP
14. Distance in miles and direction from nearer	st town or post office*			12. County or Parish SAN JUAN	13. State NM
<ol> <li>Distance from proposed*         <ul> <li>location to nearest</li> <li>property or lease line, ft.</li> <li>(Also to nearest drig. unit line, if any)</li> </ul> </li> </ol>	16. 160	No. of acres in lease	17. Spacing 480	Unit dedicated Othis	CONS. DIV DIST
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, 2037 applied for, on this lease, ft.</li> </ol>	feet 19.	Proposed Depth 39 feet / 15663 feet	20. BLM/B	IA Bond No. on file	UEC 01 2010
21. Elevations (Show whether DF, KDB, RT 6719 feet	; GL, etc.) 22. 07	Approximate date work will star /01/2016	t*	23. Estimated duratio 30 days	n
The following completed in accordance with th	24	Attachments	tacked to this	former	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on SUPO must be filed with the appropriate Formula of the surveyor of the survey of the surveyor of the survey of the survey of the surveyor of the survey of the survey of the survey of the survey of the surveyor of the survey of</li></ol>	National Forest System Lands orest Service Office).	4. Bond to cover the Item 20 above). 5. Operator certifica 6. Such other site s BLM.	e operation ation specific infor	s unless covered by an mation and/or plans as	existing bond on file (see may be required by the
25. Signature (Electronic Submission)		Name (Printed/Typed) Lacey Granillo / Ph: (505)	)333-1816		Date 06/21/2016
Title Permitting Tech III			,		
Approved by (Signature)	lica	Name (Printed/Typed)			Date 11/28/1
Title At	=M	Office FARMINGTON			
Application approval does not warrant of certification conduct operations thereon. Conditions of approval, if any, are attached.	y that the applicant holds lega	or equitable title to those rights	s in the subje	ect lease which would e	nuite the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. States any false, fictitious or fraudulent statemet	Section 1212, make it a crime f ents or representations as to any	or any person knowingly and wi matter within its jurisdiction.	illfully to ma	ke to any department o	r agency of the United
(Continued on page 2)				*(Inst	ructions on page 2)
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	BLM'S APPROVA ACTION DOES NO OPERATOR FROM AUTHORIZATION ON FEDERAL AN	IL OR ACCEPTANCE OT RELIEVE THE LE M OBTAINING ANY ( N REQUIRED FOR OF D INDIAN LANDS	OF THI ESSEE A OTHER PERATIC	S DRII ND AUTHOR COMPLI DNS "GENE	LING OPERATIONS NZED ARE SUBJECT ANCE WITH ATTACH RAL REQUIREMENT
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NMOCD PY





# WPX Energy

# **Operations Plan**

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

Date:	June 15, 2016	Field:	Lybrook Mancos W
Well Name:	W Lybrook UT #722H	Surface:	IA
SH Location:	NWSE Sec 23-23N-09W	Elevation:	6719' GR
<b>BH Location:</b>	NENW Sec 15-23N-09W	Minerals:	IA

Measured Depth: 15,663.34'

# I. GEOLOGY

Surface formation - NACIMIENTO

### A. FORMATION TOPS: (GL)

NAME	MD	TVD	NAME	MD	TVD	
OJO ALAMO	409	409	POINT LOOKOUT	3469	3396	
KIRTLAND	617	617	MANCOS	3663	3583	
PICTURED CLIFFS	993	993	GALLUP	4024	3932	
LEWIS	1104	1104	KICKOFF POINT	3,943.85	3,853.38	
CHACRA	1364	1363	TOP TARGET	5202	4700	
CLIFF HOUSE	2474	2438	LANDING POINT	5,207.56	4,700.00	
MENEFEE	2524	2487	BASE TARGET	5,207.56	4,700.00	
			TD	15,663.34	4,704.00	

#### **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 12-1/4" Surface hole, the 8 %" 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. BOP TESTING:**

While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The BOPE will be tested to 2,000 psi (High) for 10 minutes and the annular tested to 1,500 psi for 10 minutes. Pressure test surface casing to 1,500 psi for 30 minutes and intermediate casing to 1,500 psi for 30 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. 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"	320.00'	9.625"	36 LBS	J-55 or equiv	STC
INTERMEDIATE	8.75"	5,207.56'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5057.56' - 15,663.34'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5057.56'	4.5"	11.6 LBS	P-110 or equiv	LTC

#### **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 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. If losses are encountered during the drilling of the intermediate section a DV tool will be utalized and a 2 stage cement job may be planned to ensure cement circ back to surface. The DV tool will be placed 100' above the top of the Chacra formation. If cement is circulated back to surface on the first stage, a cancelation device will be dropped to shift the dv tool closed and the 2nd stage cement job will be aborted at that time, if no cement is seen at surface on the 1st stage the stage tool will be opend and a 2nd stage cement job will be pumped.

#### 3. PRODUCTION LINER:

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. CEMENT:

(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 cuft/100 sx/ Bbls).TOC at Surface.

#### 2. Intermediate:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 94 bbls, 269 sks, (530 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 59 bbls, 254 sks, (331 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 205 bbl Drilling mud or water. Total Cement: 153 bbls, 524 sks, (861 cuft)

#### 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 (1039 sx /1414 cuft /252 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-217bbl Fr Water. Total Cement (1039 sx /1414bbls).

#### D. COMPLETION:

**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.

If this horizontal well is 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.

#### NOTES:

A 4-1/2" 11.6# P-110 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# J-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).

# **WPX Energy**

T23N R9W 2309-23J WLU W Lybrook UT #722H - Slot A6

Wellbore #1

Plan: Design #1 20Apr16 sam

# **Standard Planning Report**

22 April, 2016

# WPX Planning Report

Database; Company: Project: Site: Well: Wellbore: Design:		COMP WPX T23N 2309-3 W Lyb Wellbo Design	PASS Energy R9W 23J WLU prook UT #722 pre #1 n #1 20Apr16	H sam		Local Co-ordinate Reference:       Well W Lybrook UT #722H (A6) - Slot A5         TVD Reference:       GL @ 6719.00usft         MD Reference:       GL @ 6719.00usft         North Reference:       True         Survey Calculation Method:       Minimum Curvature						
Project		T23N F	R9W				and the state of the					
Map System: Geo Datum: Map Zone:	L N N	JS State IAD 192 New Me	e Plane 1927 ( 27 (NADCON xico West 300	Exact solution CONUS) 3	ר)	System Da	ntum:	M	ean Sea Level	-		
Site		2309-2	3J WLU					SVA SAMP		Star Star		
Site Position: From: Position Uncer	tainty:	Maj	0.0	Nor Eas )0 usft Slot	thing: ting: Radius:	1,890 52:	6,575.10 usft 2,884.66 usft 13.200 in	Latitude: Longitude: Grid Converg	jence:		36.212430 -107.755758 0.05 °	
Well		W Lybr	ook UT #722H	- Slot A6								
Well Position Position Uncer	tainty	+N/-S -93.55 usft Northing: +E/-W 75.52 usft Easting: inty 0.00 usft Weilhead I				ation:	1,896,481.61 522,960.25 0.00	lusft Lat 5 usft Lor 0 usft Gro	Latitude: Longitude: Ground Level:			
Wellbore	lage 1	Wellbo	ore #1		ing salike		A.C. 1976		4. 19. 9.	(*). 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910		
Magnetics		Mo	del Name	Sam	ple Date	Declin (*)	ation	Dip /	Angle ")	Field	Strength (nT)	
			IGRF2015		4/20/2016		9.31		62.90		49,857	
Design		Design	#1 20Apr16 s	am	al. Altari	zadaresie zas		A		W. 1525764		
Audit Notes: Version:				Pha	ISO:	PLAN	Tie	o On Depth:		0.00		
Vertical Section	1:			Depth From ( (usft) 0.00	TVD)	+N/-S (usft) 0.00	+E (u	E/-W isft) .00	Direction (bearing) 316.60			
Plan Sections												
Measured Depth (usft)	Inclina (°)	tion	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (*/100usft)	Build Rate (*/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,000.00		0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,785.68		15.71	113.56	1,775.86	-42.80	98.14	2.00	2.00	0.00	113.56		
3,943.85		15.71	113.56	3,853.38	-276.46	633.89	0.00	0.00	0.00	0.00		
4,774.46		60.00	314.97	4,564.71	-31.47	456.63	9.00	5.33	-19.09	-160.88	Start 60 tan #722H	
4,874.46		00.00	314.97	4,614.71	29.73	395.36	0.00	0.00	0.00	0.00	End 60 tan #722H	
5,044.43		15.30	314.97	4,679.15	140.49	284.47	9.00	9.00	0.00	0.00	DOF #7001	
5,207.56		89.98	314.97	4,700.00	254.51	7 227 40	9.00	9.00	0.00	-0.01	PUE #/22H	
10,003.34		09.90	314.9/	4,704.00	7,043.42	-1,221.49	0.00	0.00	0.00	0.00	DIL #12211	

# WPX Planning Report

ibase: ipany: ject: : l: lbore: ign:	COMPASS WPX Energy T23N R9W 2309-23J WLU W Lybrook UT Wellbore #1 Design #1 20/	J #722H Apr16 sam		Local Co-ordinate Reference: Well W Lybrook UT #722H (A6) - Slot A6 TVD Reference: GL @ 6719.00usft MD Reference: GL @ 6719.00usft North Reference: True Survey Calculation Method: Minimum Curvature						
inned Survey			$V_{2}(\eta) = C_{2}(\eta)$				New States			
Measured			Vertical			Vertical	Dogleg	Build	Turn	
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate	
(usft)	(9)	(bearing)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(*/100usft)	(*/100usft)	
					A PARTY AND					
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00	
9 5/8"	的人物理论	的合理的思想			民族的代表的					
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2	.00			是1999年1999年1993年1	<b>《东京》来和汉法法的</b>	也不得我们最高的。			<b>医生活的 计数本 </b> 留作	
1.500.00	10.00	113.56	1,497,47	-17.40	39.89	-40.05	2.00	2.00	0.00	
1,785.68	15.71	113.56	1,775.86	-42.80	98.14	-98.52	2.00	2.00	0.00	
Hold 15.71 In	nclination	编队和中国人		的非常加强的						
2,000.00	15.71	113.56	1,982.18	-66.00	151.34	-151.94	0.00	0.00	0.00	
2,500.00	15.71	113.56	2,463.49	-120.14	275.46	-276.55	0.00	0.00	0.00	
3,000.00	15.71	113.56	2,944.81	-174.27	399,59	-401.17	0.00	0.00	0.00	
3,500.00	15.71	113.56	3,426.12	-228,41	523.71	-525.78	0.00	0.00	0.00	
2 042 85	15 71	112 56	2 952 29	276 46	622.80	626 40	0.00	0.00	0.00	
3,343.00	13.71	113.30	<b>J,OJJ.JO</b>	-270.40	033.09	-030.40	U.UU			
Start Build D	LS 9.00 TFO -16	50.88 Marking St.00	<b>《56月》的问题中的</b> 的	法研究的制度制度	1933年月 <b>期日期時間日</b> 期	<b>同时时来到1993年</b>	1.567 (Selferration	<b>决制和财务</b> 为我的关键和	這個和影響的影響	
4,000.00	11.06	104.91	3,908.00	-280.89	646.07	-647.99	9.00	-8.29	-15.41	
4,500.00	35.49	319.20	4,381.51	-178.04	594.92	-538.11	9.00	4.89	-29.14	
4,774.46	60.00	314.97	4,564.71	-31.47	456.63	-336.60	9.00	8.93	-1.54	
Hold 60.00 In	clination		1.111年代,1月1日日月1日日月1日 1.111日日月1日日日日日日日日日日日日日日日日日日	制。这些的人是不是	的法规制度的问题。	是通知思想的学习。			Section 201	
4,874.46	60.00	314.97	4,614.71	29.73	395.36	-250.03	0.00	0.00	0.00	
Start Build D	LS 9.00 TFO 0.0	10							でなる問題を認	
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5,000.00	75.30	314.97	4,000.39	140.40	314.57	-135.09	9.00	9.00	0.00	
5,044.45	75.50	JI4.97	4,0/8.15	140.49	194441 2940-2055	<b>10.05-</b> 1009868 (1998)	<b>9.00</b> 21.201	<b>9.00</b>	0.00	
Start DLS 9.0	0 TFO -0.01		的中国地图相关和国际	的行为的情况的问题。	利用的問題問題的思念	的复数形式建筑				
5,207.56	89,98	314.97	4,700.00	254.51	170.31	67.91	9.00	9.00	0.00	
POE at 89.98	Inc 314.97 Deg						in least and the second		1.00	
5,208.00	89.98	314.97	4,700.00	254.83	170.00	68.36	0.00	0.00	0.00	
7"				的政治和法律法律						
5,500.00	89.98	314.97	4,700.11	461.18	-36.60	360.24	0.00	0.00	0.00	
6 000 00	80.00	314 07	4 700 20	914 59	200.20	960.02	0.00	0.00	0.00	
6,000.00	03.30	314.97	4,700.30	1 167 96	-390.30	1 260 92	0.00	0.00	0.00	
7,000,00	89.98	314.97	4,700.49	1,107.80	-744.13	1,359.83	0.00	0.00	0.00	
7,000.00	89.98	314.97	4,700.09	1,521.20	-1,097.90	1,009.03	0.00	0.00	0.00	
7,500.00	69,98	314.97	4,700.88	1,874.54	-1,451.66	2,359.42	0.00	0.00	0.00	
6,000.00	09.90	314.97	4,701.07	2,221.88	-1,805.43	2,859.22	0.00	0.00	0.00	
8,500.00	89.98	314.97	4,701.26	2,581.22	-2,159.19	3,359.01	0.00	0.00	0.00	
9,000.00	89.98	314.97	4,701.45	2,934.56	-2,512.96	3,858.81	0.00	0.00	0.00	
9,500.00	89.98	314.97	4,701.64	3,287.90	-2,866.73	4,358.61	0.00	0.00	0.00	
10,000.00	89.98	314.97	4,701.83	3,641.24	-3,220.49	4,858.40	0.00	0.00	0.00	
10,500.00	89.98	314.97	4,702.02	3,994.58	-3,574.26	5,358.20	0.00	0.00	0.00	
11 000 00	80.08	314 07	4 702 22	4 347 03	-3 028 02	5 857 00	0.00	0.00	0.00	
11 500.00	80.00	314.97	4 702.22	4 704 07	-3,520.02	6 357 70	0.00	0.00	0.00	
12,000,00	80.00	314.97	4 702.41	5 054 61	-4,201.19	6 867 50	0.00	0.00	0.00	
12,000.00	09.90	314.97	4,702.00	5,034.01	-4,030.00	7 257 29	0.00	0.00	0.00	
12,000,00	09,96	314.97	4,702.19	5,407.95	-4,989.32	7,557.38	0.00	0.00	0.00	
13,000.00	89.98	314.97	4,702.98	5,761.29	-5,343.09	7,857.18	0.00	0.00	0.00	
13,500.00	89.98	314.97	4,703.17	6,114.63	-5,696.85	8,356.97	0.00	0.00	0.00	
14.000.00	89.98	314.97	4,703.36	6,467.97	-6.050.62	8,856,77	0.00	0.00	0.00	
14.500.00	89.98	314.97	4,703.56	6,821.31	-6,404.39	9.356.57	0.00	0.00	0.00	
15,000,00	89.98	314.97	4,703,75	7,174 65	-6,758 15	9,856.36	0.00	0.00	0.00	
15,500,00	89 98	314.97	4,703,94	7.527.99	-7.111 92	10.356.16	0.00	0.00	0.00	
							0,00	0.00	0.00	
	00.00	01107								

COMPASS 5000.1 Build 78

# WPX

## **Planning Report**

Database: Company: Project: Site: Well: Wellbore: Design:	base:     COMPASS       npany:     WPX Energy       iect:     T23N R9W       :     2309-23J WLU       I:     W Lybrook UT #722H       Ibore:     Wellbore #1       Ign:     Design #1 20Apr16 sam					Local Co TVD Refe MD Refer North Ref Survey C	-ordinate Reference: vrence: ence: ference: alculation Method:	Well W Lybrook UT #722H (A8) - Slot A8 GL @ 6719.00usft GL @ 6719.00usft True Minimum Curvature			
Design Targets	Marcal	No.	and the second					an an an an Air an Air			
Target Name - hit/miss targe - Shape	t Dip Ar (*)	ngle	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Start 60 tan #722H - plan hits targ - Point	l let center	0.00	0.00	4,564.71	-31.47	456.63	1,896,450.51	523,416.91	36.212087	-107.753954	
End 60 tan #722H - plan misses - Point	target center b	0.00 y 0.01	0.00 Iusft at 4874	4,614.71 .46usft MD (4	29.74 4614.71 TVD	395.36 , 29.73 N, 39	1,896,511.67 95.36 E)	523,355.59	36.212255	-107.754162	
POE #722H - plan hits targ - Point	et center	0.00	0.00	4,700.00	254.51	170.31	1,896,736.26	523,130.36	36.212872	-107.754925	
BHL #722H - plan hits targ - Point	et center	0.00	0.00	4,704.00	7,643.42	-7,227.49	1,904,119.23	515,726.63	36.233168	-107.780009	
Casing Points											
	Measured Depth (usft)		Vertical Depth (usft)			Name		Casing Diamete (in)	Hole Tolameter		
	320.00 5,208.00		320.00 4,700.00	9 5/8" 7"			·	9. 7.	625 12.250 000 8.750		
Plan Annotations							72				
	easured Depth (usft)	Verti Dep (us:	ical nth ft)	Local +N/-S (usft)	Coordinates +E	E/-W Isft)	Comment				
	1,000.00 1,785.68 3,943.85 4,774.46 4,874.46	1,0 1,7 3,8 4,5 4,6	00.00 75.86 53.38 64.71 14.71	0.00 -42.80 -276.46 -31.47 29.73		0.00 98.14 633.89 456.63 395.36	Start Build 2.00 Hold 15.71 Inclination Start Build DLS 9.00 Hold 60.00 Inclination Start Build DLS 9.00	n TFO -160.88 n TFO 0.00			

284.47 170.31

-7,227.49

POE at 89.98 Inc 314.97 Deg

Start DLS 9.00 TFO -0.01

TD at 15663.34

4,874.46 5,044.43

5,207.56

15,663.34

4,679.15

4,700.00

4,704.00

140.49

254.51

7,643.42

# 7. METHODS FOR HANDLING WASTE

#### A. Cuttings

- 1 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 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

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 3 and Figure 4 in Appendix B for the location of toilets).
- E. Garbage and other water material
  - 1 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
  - 1 No chemicals subject to reporting under Superfund Amendments and Reauthorization Act Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
  - 2 No extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
  - 3 All fluids (i.e., scrubber cleaners) used during washing of production equipment will be properly disposed of to avoid ground contamination or hazard to livestock or wildlife.

#### A. Produced Water:

- 1 WPX Energy will dispose of produced water from this well at one of the following facilities:
  - Lybrook Yard WDW #1, API #30-039-27533, NMOCD permit #SWD-907, operated by Elm Ridge Resources, located in NE ¼, Section 14, Township 23 North, Range 7 West
  - Jillson Federal #1, NMOCD order #R-10168, operated by ConocoPhillips, located in NW ¼, Section 8, Township 24 North, Range 3 West
  - Basin Disposal, permit #NM-01-005, located in the NW ¼, Section 3, Township 29 North, Range 11 West
  - Sunco SWD #001, API #30-045-28653, NMOCD permit SWD-457, operated by Key Energy, located in NW ¼, Section 2, Township 29 North, Range 12 West
- 2 Water will be hauled by truck. Some produced water may also be used in drilling and completion operations as an alternative disposal method.

# 8. ANCILLARY FACILITIES

Standard drilling operation equipment that will be on location includes drilling rig with associated equipment, temporary trailers equipped with sleeping quarters necessary for company personnel, toilet facilities, and trash containers.

W Lybrook UT Nos. 720H, 722H, 724H, 756H, 757H & 758H Oil & Natural Gas Wells Project

May 2016





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# Directions from the Intersection of US Hwy 550 & US Hwy 64

# in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #722H

# 2556' FSL & 2037' FEL, Section 23, T23N, R9W, N.M.P.M., San Juan County, NM

#### Latitude: 36.212187°N Longitude: 107.756116°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 37.8 miles to Mile Marker 113.4;

Go Right (South-westerly) on County Road #7890 for 0.8 miles to fork in roadway;

Go Left (Southerly) remaining on County Road #7890 for 1.3 miles to four-way intersection;

Go Left (South-easterly) remaining on County Road #7890 for 0.6 miles to fork in roadway;

Go Right (South-westerly) remaining on County Road #7890 for 0.5 miles to begin proposed access on right-hand side of existing roadway which continues for 6451.2' to staked WPX W Lybrook Unit #722H location.