## 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



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.

Operator Signature Date: 11-310  Well information;  Well Name and Number 1 2 1 (1) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Operator WPX, Well Name and Number W Lybrook Unit # 790H
API#30045-3589, Section 33, Township 38 NS, RangeEW
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
<ul> <li>Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned</li> </ul>
<ul> <li>Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:</li> </ul>
<ul> <li>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</li> </ul>
<ul> <li>A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A</li> </ul>
<ul> <li>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</li> </ul>
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
o 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.
Chenh Lem 12-8-2016
NMOCD Approved by Signature Date

3

Form 3160-3 (March 2012)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014

5.	Leas	e S	erial	No.
NO	3131	21	862	4

BUKEAU OF LAND MAN	AGENIEN					
APPLICATION FOR PERMIT TO I	DRILL OR F	REENTER		6. If Indian, Alloted EASTERN NAVA.		
la. Type of work:	R			7 If Unit or CA Agreement, Name and No. WEST LYBROOK UNIT / NMNM135216)		
lb. Type of Well: Oil Well Gas Well Other	Single	Zone Multip	ole Zone	8. Lease Name and W LYBROOK UT		
2. Name of Operator WPX ENERGY LLC			A	9. API Well No.	15-35818	
3a. Address 720 S Main Aztec NM 87410	3b. Phone No. (in (505)333-182			10. Field and Pool, or	Exploratory OS W / LYBROOK MA	
4. Location of Well (Report location clearly and in accordance with any	State requirements	*)		11. Sec., T. R. M. or I	Blk. and Survey or Area	
At surface NWSE / 2618 FSL / 2088 FEL / LAT 36.21235	7 / LONG -10	7.756286		SEC 23 / T23N / F		
At proposed prod. zone SENE / 2404 FNL / 330 FEL / LAT 3	36.198458 / LC	DNG -107.73264	AND DESCRIPTIONS OF THE PERSONS ASSESSMENT ASSESSMENT OF THE PERSONS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT AS	W		
14. Distance in miles and direction from nearest town or post office*  Required	- 1			12. County or Parish SAN JUAN	13. State NM	
15. Distance from proposed* location to nearest 20 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	160			ung Unit dedicated to the CONS. DIV DIS		
18. Distance from proposed location* to nearest well, drilling, completed, 2088 feet applied for, on this lease, ft.	19. Proposed Depth 20. BLM/ 4619 feet / 14848 feet IND: B0			BIA Bond No. on file 01576	DEC 0 1 2010	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6719 feet	22 Approximate 12/01/2016	date work will star	t*	23. Estimated duration 30 days	313	
	24. Attachn	nents				
The following, completed in accordance with the requirements of Onshore	Oil and Gas Ord	er No.1, must be at	tached to thi	s form:		
Well plat certified by a registered surveyor.     A Drilling Plan.     A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service Office).		Item 20 above).  Operator certific	ation	•	existing bond on file (see	
25. Signature (Electronic Submission)	1 2	inted/Typed) ranillo / Ph: (505	)333-1816	3	Date 11/03/2016	
Title Permitting Tech III						
Approved by (Signature) Hamadu	Name (Pr	inted/Typed)	den		Date 11/29/16	
Title acting AFM - Minerals	Office FARMIN		- i- d	antlassaukish		
Application approval does not warrant or certify that the applicant holds conduct operations thereon.  Conditions of approval, if any, are attached.	legal or equitable	titue to those right	s in the subj	ect lease which would e	nuue ine applicant to	

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.

(Continued on page 2)

\*(Instructions on page 2)

DRILLING OPERATIONS AUTHORIZED
ARE SUBJECT TO COMPLIANCE WITH
ATTACHED "GENERAL REQUIREMENTS"

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS



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 Orive. Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

AMENDED REPORT

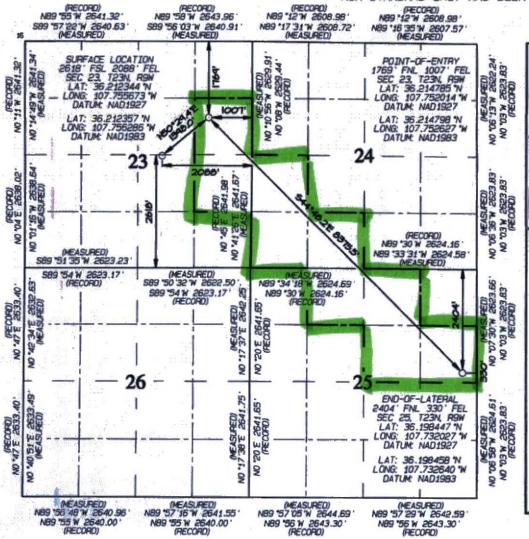
### OIL CONSERVATION DIVISION

1220 South St. Francis Drive Santa Fe. NM 87505

OIL CONS. DIV DIST. 3 WELL LOCATION AND ACREAGE DEDICATION PLAT DEC 06 2016 Pool Name API Number Pool Code LYBROOK MANCOS W 98157 Property Name Well Number 31595 W LYBROOK UNIT 756H Elevation \*Operator Name 120782 WPX ENERGY PRODUCTION, LLC 6719

10 Surface Location North/South line Feet from the 23 9W 2088 23N 2618 SOUTH EAST SAN JUAN 11 Bottom Hole Different From Surface Location If st/West line 25 23N 9W 330 EAST H 2404 NORTH SAN JUAN NE/4 NW/4, W/2 NE/4 - Section Joint or Infill Consolidation Code Acres 360.0 W/2 NE/4 Section 25 Section 23 12,807.24 Acres R-14051 SE/4 NE/4 SE/4 NE/4, NE/4 SE/4 W/2 SW/4, SE/4 SW/4 Section

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



-

Section

OPERATOR CERTIFICATION 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 organizatio
either owns a working interest or unleased
mineral interest in the land including the
proposed bottom-hole location or hes a right
to drill this well at this location pursuant
to a contract with an owner of such a mineral
or working interest or to a voluntary pooling
agreement on a compulsory pooling order
hereturore extends by the division. B 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. SURVEYOR Date Revised: OCTOBER 18, 2016 Survey Date: OCTOBER 19, 2015 Signature and Seal of Professional Surveyor C. EDWARDS JASON. MEXICO SEN SAME TOTAL ADDESSION JASON DWARDS 15269 Certificate Number



# **WPX Energy**

#### **Operations Plan**

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

Date:

November 2, 2016

Field:

Lybrook Mancos W

**Well Name:** 

W Lybrook UT #756H

Surface:

6719' GR

SH Location:

NWSE Sec 23 23N-09W

Elevation:

**BH Location:** 

SENE Sec 25 23N-09W

Minerals:

Measured Depth: 13,834.14'

#### I. GEOLOGY

Surface formation - NACIMIENTO

#### A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	424.00	424.00	POINT LOOKOUT	3,643.00	3,411.00
KIRTLAND	632.00	632.00	MANCOS	3,852.00	3,598.00
PICTURED CLIFFS	1,011.00	1,008.00	GALLUP	4,240.00	3,947.00
LEWIS	1,124.00	1,119.00	KICKOFF POINT	4,199.26	3,910.28
CHACRA	1,392.00	1,378.00	TOP TARGET	5,151.00	4,644.00
CLIFF HOUSE	2,576.00	2,453.00	LANDING POINT	5,458.37	4,714.01
MENEFEE	2,631.00	2,502.00	BASE TARGET	5,458.37	4,714.01
1 1 A 1			TD .	13,834.14	4,641.00

#### **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"	5,458.37'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5308.37' - 13,834.14	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5308.37'	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)

#### 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:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 102 bbls, 290 sks, (572 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/ +/- 215 bbl Drilling mud or water. Total Cement: 161 bbls, 545 sks, (903 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 (835 sx /1136 cuft /202 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-187bbl Fr Water. Total Cement (835 sx /1136bbls).

#### D. COMPLETION:

Run CCL for perforating

#### A. PRESSURE TEST:

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:

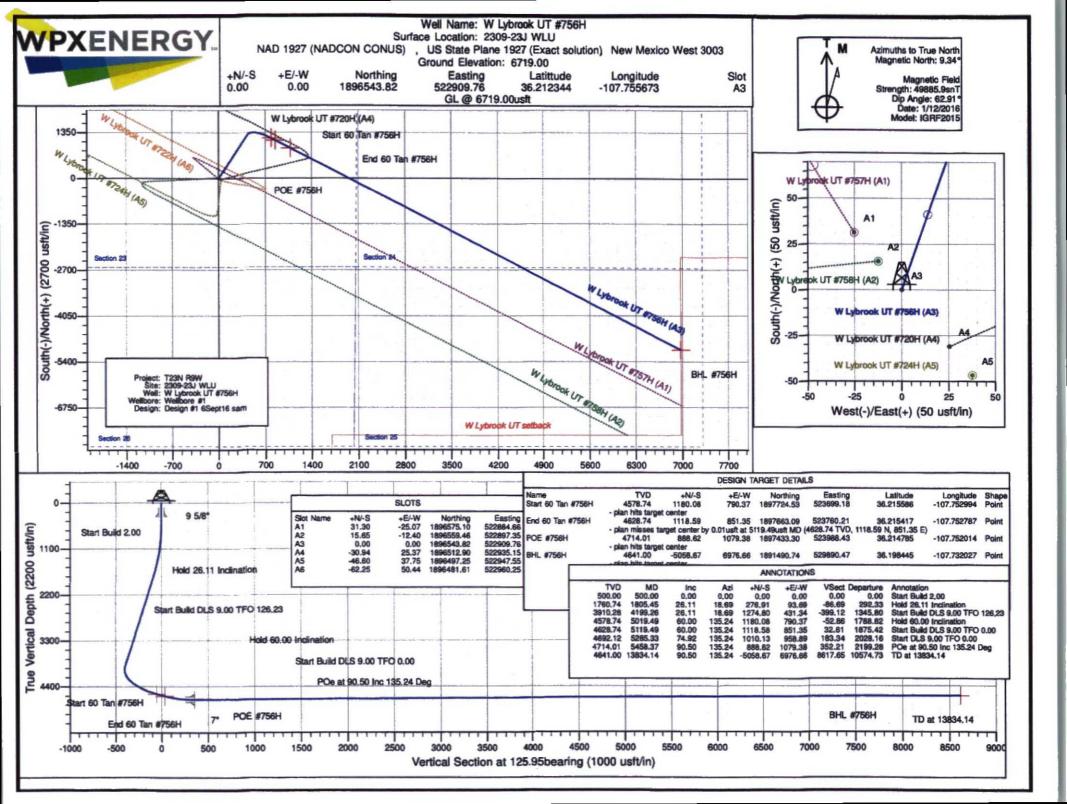
1. <u>Production Tubing:</u> Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.

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 #756H - Slot A3

Wellbore #1

Plan: Design #1 6Sept16 sam

# **Standard Planning Report**

06 September, 2016

#### WPX

#### **Planning Report**

COMPASS Database: Company: Project: WPX Energy **T23N R9W** 2309-23J WLU Site: W Lybrook UT #756H Well: Wellbore #1

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

Survey Calculation Method:

Well W Lybrook UT #756H (A3) - Slot A3 GL @ 6719.00usft GL @ 6719,00usft True

Minimum Curvature

**T23N R9W** Project

Map System: Geo Datum:

Design:

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

0.00 usft

25.07 usft

Design #1 6Sept16 sam

System Datum:

Mean Sea Level

New Mexico West 3003 Map Zone:

2309-23J WLU Site

Site Position: From:

Northing: Easting: Slot Radius: 1,896,575.10 usft 522,884.66 usft 13.200 in Latitude: Longitude: **Grid Convergence:** 

36,212430 -107.755758 0.05 °

W Lybrook UT #756H - Slot A3 Well **Well Position** -31.30 usft Northing:

1,896,543.82 usft Easting: 522,909.76 usft Longitude: -107.755673

**Position Uncertainty** 

**Position Uncertainty:** 

0.00 usft Wellhead Elevation: 0.00 usft

Ground Level:

6,719.00 usft

36.212344

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (") (nT) (7) 9.34 **IGRF2015** 1/12/2016 62.91 49,886

Design #1 6Sept16 sam Design **Audit Notes:** Version:

+E/-W

PLAN

Tie On Depth:

0.00

**Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (bearing) 0.00 125.95 0.00 0.00

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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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,805.45	26,11	18.69	1,760.74	276.91	93.69	2.00	2.00	0.00	18,69	
4,199.26	26.11	18.69	3,910.28	1,274.80	431.34	0.00	0.00	0.00	0.00	A STATE OF THE STA
5,019.49	60.00	135.24	4,578.74	1,180.08	790.37	9.00	4.13	14.21	126.23	Start 60 Tan #756H
5,119.49	60.00	135.24	4,628.74	1,118.58	851.35	0.00	0.00	0.00	0.00	End 60 Tan #756H
5,285.33	74.92	135.24	4,692.12	1,010.13	958.89	9.00	9.00	0.00	0.00	
5,458.37	90.50	135.24	4,714.01	888.62	1,079.38	9.00	9.00	0.00	0.00	POE #756H
13,834,14	90.50	135.24	4,641.00	-5,058.67	6,976.66	0.00	0.00	0.00	0.00	BHL #756H

# WPX

#### **Planning Report**

Database: Company: Project: Site:

Wellbore:

Design:

Well:

COMPASS WPX Energy T23N R9W 2309-23J WLU

W Lybrook UT #756H Wellbore #1

Design #1 6Sept16 sam

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well W Lybrook UT #756H (A3) - Slot A3

GL @ 6719.00usft GL @ 6719,00usft True

Minimum Curvature

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Bulld Rate	Turn Rate
(usft)	(P)	(bearing)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
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
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1,000,00	10.00	18.69	997.47	41.23	13.95	-12.91	2.00	2.00	0.00
1,500.00	20.00	18.69	1,479.82	163.65	55.37	-51.24	2.00	2.00	0.00
1,805.45	26.11	18.69	1,760.74	276.91	93.69	-86.69	2.00	2.00	0.00
Hold 26.11 l	nclination				A STATE OF	经历代基础			
2,000.00	26.11	18.69	1,935.43	358.01	121.14	-112.09	0.00	0.00	0.00
2,500.00	26.11	18.69	2,384.41	566.44	191.66	-177.34	0.00	0.00	0.00
3,000.00	26.11	18,69	2,833.39	774.87	262,19	-242.60	0.00	0.00	0.00
3,500.00	26,11	18.69	3,282.37	983.30	332.71	-307.85	0.00	0.00	0.00
4,000.00	26,11	18.69	3,731.35	1,191.74	403.24	-373.11	0.00	0.00	0.00
4,199,26	26.11	18.69	3,910.28	1,274.80	431.34	-399.12	0.00	0.00	0.00
	LS 9.00 TFO 12		14 - 11 1,5601504401546	- 201-201-201-201-201-201-201-201-201-201-	Ser ser and allegate Dues	The District Control	all the second and second	Q4. 子5.1.0Es.克斯斯纳日報为日	STATE CONTRACTOR
4,500.00	23.37	86.41	4,188.53	1,342.48	513.62	-372.24	9.00	-0.91	22.52
5,000.00	58.40	134.40	4,568.76	1,191.88	778.49	-69.40	9.00	7.01	9.60
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Hold SUAS	icinauon .	easternation and	CONTRACTOR SERVICES	head well have been		CALL SELECT	NEW COLUMN PARK		
5,119.49	60.00	135.24	4,628.74	1,118.58	851.35	32.61	0.00	0.00	0.00
Start Build I	DLS 9.00 TFO 0.0	)0	4244			1000	<ul><li>() () () () () () () () () () () () () (</li></ul>		
5,285.33	74.92	135.24	4,692.12	1,010.13	958.89	183,34	9,00	9.00	0.00
Start DLS 9.	00 TFO 0.00	AND STREET	THE STREET		A THE RESERVE	the season	<b>中国中国的</b>		
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7"	EXAMELACIDADES LA	C 0 20 Kg/C			SERVICE SERVICE	CONTROL OF	ata raha-keraa	NAME OF THE PERSON OF THE PERS	STATE OF STA
5,458.37	90.50	135.24	4,714.01	888.62	1,079.38	352.21	9.00	9.00	0.00
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5,500.00	90.50	135.24	4,713.65	859.06	1,108.69	393.29	0.00	0.00	0.00
5,000.00	30.30	133.24	4,7 13.00	005,00	1,100.03	333.25	. 0.00	0.00	0.00
6,000.00	90.50	135.24	4,709.29	504.03	1,460.73	886.70	0.00	0.00	0.00
6,500.00	90.50	135.24	4,704.93	149.00	1,812.78	1,380.12	0.00	0.00	0.00
7,000.00	90.50	135.24	4,700.57	-206.03	2,164.82	1,873.53	0.00	0.00	0.00
7,500.00	90.50	135.24	4,696.21	-561.06	2,516.87	2,366.95	0.00	0.00	0.00
8,000.00	90.50	135.24	4,691.86	-916.08	2,868.91	2,860.36	0.00	0.00	0,00
8,500.00	90.50	135.24	4,687.50	-1,271,11	3,220.95	3,353,77	0.00	0.00	0.00
9,000.00	90.50	135.24	4,683.14	-1,626.14	3,573.00	3,847.19	0.00	0.00	0.00
9,500.00	90.50	135.24	4,678.78	-1,981.17	3,925.04	4,340.60	0.00	0.00	0.00
10,000.00	90.50	135.24	4,674.42	-2,336.20	4,277.09	4,834.01	0.00	0.00	0.00
10,500.00	90.50	135.24	4,670.06	-2,691.23	4,629.13	5,327.43	0.00	0.00	0.00
11 000 00	00.50	126.24	A 885 70	2 046 26		A Committee of the			
11,000.00	90.50	135.24	4,665.70	-3,046.26	4,981.17	5,820.84	0.00	0.00	0.00
11,500.00	90.50	135.24	4,661.35	-3,401.29	5,333.22	6,314.26	0.00	0.00	0.00
12,500.00	90.50	135.24	4,656.99	-3,756.32	5,685.26	6,807.67	0.00	0.00	0.00
13,000.00	90.50	135.24	4,652.63	-4,111.35 -4.466.38	6,037.31	7,301.08	0.00	0.00	0.00
13,000,00	90.50	135.24	4,648.27	-4,466.38	6,389.35	7,794.50	0.00	0.00	0.00
13,500.00	90.50	135.24	4,643.91	-4,821.41	6,741.40	8,287.91	0.00	0.00	0.00
13,834.14	90.50	135.24	4,641.00	-5,058.67	6,976.66	8,617.65	0.00	0.00	0.00

#### **WPX**

#### **Planning Report**

Database: COMPASS
Company: WPX Energy
Project: T23N R9W
Site: 2309-23J WLU
Well: W Lybrook UT #756H
Wellbore: Wellbore #1
Design: Design #1 6Sept16 sam

Local Co-ordinate Reference: TVD Reference; MD Reference: North Reference: Survey Calculation Method: Well W Lybrook UT #756H (A3) - Slot A3 GL @ 6719,00usft GL @ 6719,00usft True

Minimum Curvature

Design Targets		0.4757444	100				(三角)型音に合物		
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (bearing	TVD (usft)	+N/-5 (usft)	+EJ-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 Tan #756H - plan hits target ce - Point	0.00 enter	0.00	4,578.74	1,180.08	790.37	1,897,724.53	523,699.19	36.215586	-107.752994
End 60 Tan #756H - plan misses targe - Point	0.00 et center by 0.0		4,628.74 .49usft MD (	1,118.59 4628.74 TVD,	851.35 1118.59 N, 85	1,897,663.09 61.35 E)	523,760.22	36.215417	-107.752787
BHL #756H - plan hits target ce - Point	0.00 enter	0.00	4,641.00	-5,058.67	6,976.66	1,891,490.74	529,890.47	36.198445	-107.732028
POE #756H - plan hits target ce - Point	0.00 enter	0.00	4,714.01	888.62	1,079.38	1,897,433.31	523,988.43	36.214785	-107.752014

Casing Points		7.75	<b>斯斯特美兴</b>				
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)	
	320.00 5,458.00	320.00 4,714.01	9 5/8" 7"		9.625 7.000	12.250 8.750	47.

Plan Annotations					· 1000年1月1日 - 1000年1日 - 1	
	leasured Depth (usft)	Vertical Depth (usft)	Local Coon +N/-S (usft)	dinates +E/-W (usft)	Comment	
NAME OF TAXABLE PARTY.	500.00	500.00	0.00	0.00	Start Build 2.00	
	1,805.45	1,760.74	276.91	93.69	Hold 26.11 Inclination	
	4,199.26	3,910.28	1,274.80	431.34	Start Build DLS 9.00 TFO 126.23	
	5,019.49	4,578.74	1,180.08	790.37	Hold 60.00 Inclination	
ši.	5,119.49	4,628.74	1,118.58	851.35	Start Build DLS 9.00 TFO 0.00	
	5,285,33	4,692,12	1,010.13	958.89	Start DLS 9.00 TFO 0.00	
	5,458.37	4,714.01	888.62	1,079.38	POe at 90.50 Inc 135.24 Deg	
	13,834,14	4,641.00	-5,058.67	6,976.66	TD at 13834.14	

## 7. 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 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

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

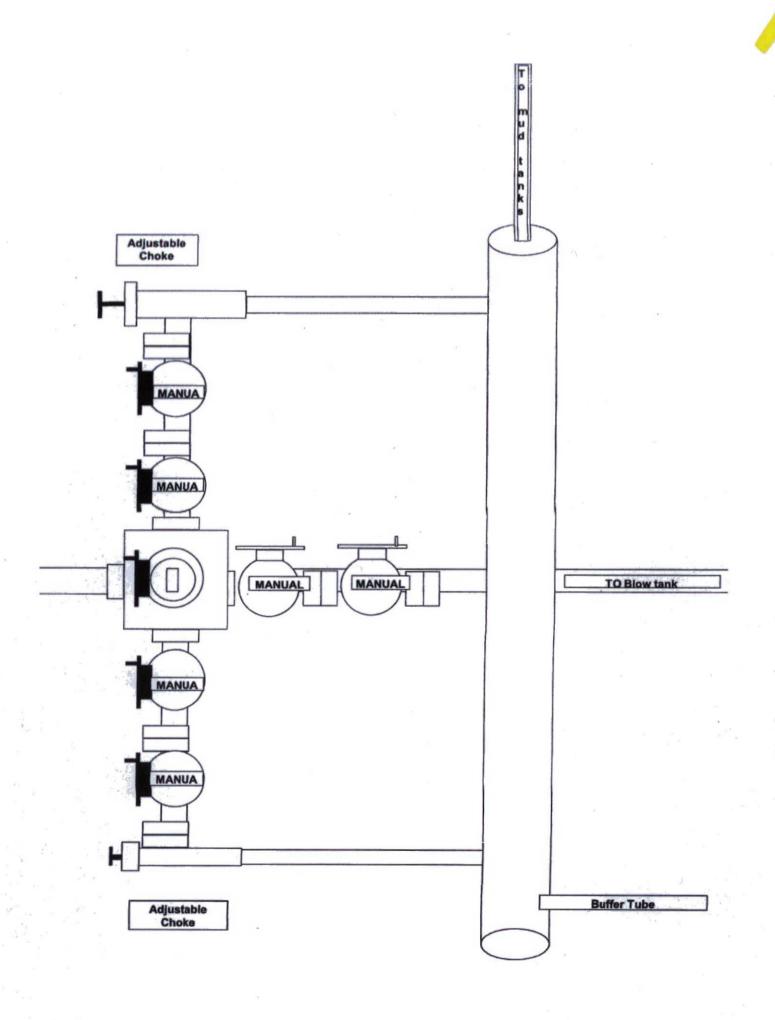
- No chemicals subject to reporting under Superfund Amendments and Reauthorization Act Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
- 2 No extremely 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.
- 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.

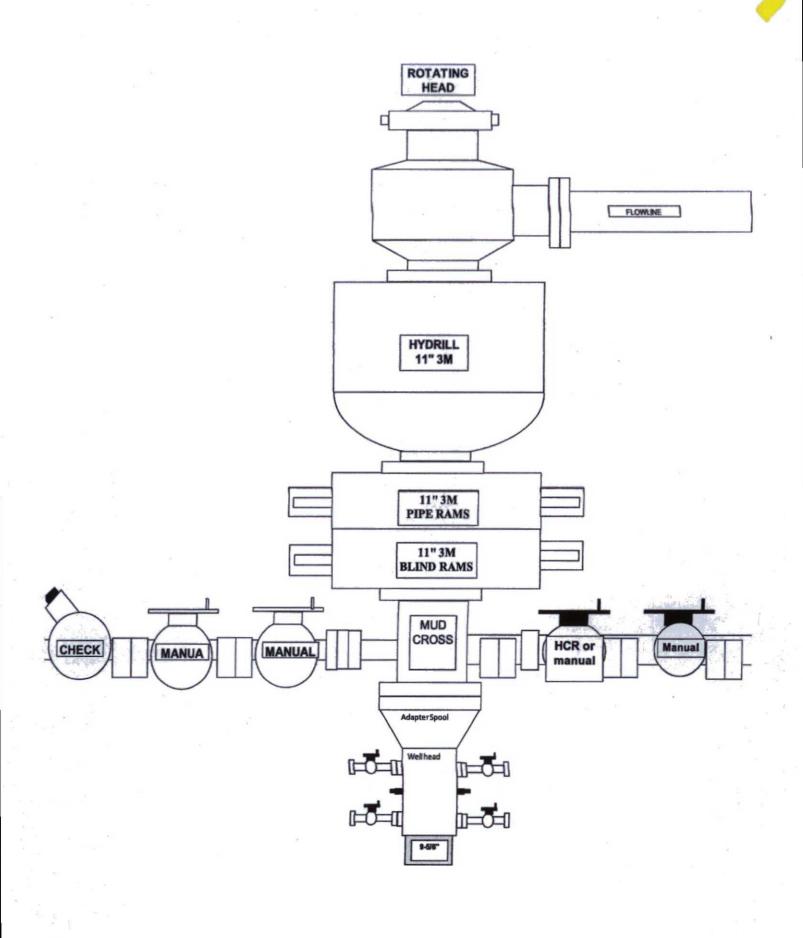
#### A. Produced Water:

- 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
- 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.





# Directions from the Intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #756H 2618' FSL & 2088' FEL, Section 23, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.212357°N Longitude: 107.756286°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 which continues for 6451.2' to staked WPX W Lybrook Unit #756H location.