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: 11-3-16
Well information;
Operator USPX, Well Name and Number () Lybrook Unit # 720 H
API# <u>30.045.35818</u> , Section <u>23</u> Township <u>23</u> NS, Range <u>9</u> EN
Conditions of Approval: (See the below checked and handwritten conditions)

- Notify Aztec OCD 24hrs prior to casing & cement.
- Hold C-104 for NSD, 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
- 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.

Charles Sun
NMOCD Approved by Signature

12-8-2016

Date

Form 3160-3 FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014 (March 2012) UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR N0G13121862 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER EASTERN NAVAJO 7 If Unit or CA Agreement, Name and No. REENTER DRILL la. Type of work: WEST LYBROOK UNIT / NMNM135216) 8. Lease Name and Well No. Oil Well Gas Well Other Single Zone Multiple Zone W LYBROOK UT 720H lb. Type of Well: 9. API Well No. Name of Operator WPX ENERGY LLC 30-045-3581 3b. Phone No. (include area code) 3a. Address 10. Field and Pool, or Exploratory 720 S Main Aztec NM 87410 (505)333-1822 LYBROOK MANCOS W / LYBROOK MA 11. Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) At surface NWSE / 2587 FSL / 2062 FEL / LAT 36.212272 / LONG -107.756201 SEC 23 / T23N / R9W / NMP At proposed prod. zone NWNE / 330 FNL / 2175 FEL / LAT 36,233067 / LONG -107,774511 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State Reguired SAN JUAN NM 17. Spacing Unit dedicated Whis GONS, DIV DIST, 3 15. Distance from proposed* 16. No. of acres in least location to nearest 20 feet 160 property or lease line, ft. (Also to nearest drig. unit line, if any) DEC. 0 1 2016 20. BLM/BIA Bond No. on file Distance from proposed location* to nearest well, drilling, completed, 2062 feet applied for, on this lease, ft. 19. Proposed Depth IND: B001576 4709 feet / 14398 feet 22. Approximate date work will start 23. Estimated duration 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 12/01/2016 6719 feet 30 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- 2. A Drilling Plan.

25. Signature

- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

(Electronic Submission)	Lacey Granillo / Ph: (505)333-1816	11/03/2016	
Title Permitting Tech III			
Approved by (Signature) Hunad	Name (Printed/Typed), Ch. D. Harraden	Date 11/29/16	
Title Ading AFM-Minerals	Office FARMINGTON		
Application approval does not warrant or certify that the applicant	holds legal or equitable title to those rights in the subject lease wh	ich would entitle the applicant to	

Name (Printed/Typed)

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations 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.

(Continued on page 2)

*(Instructions on page 2)

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

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4



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

State of New Mexico Energy, Minerals & Natural Resources Department

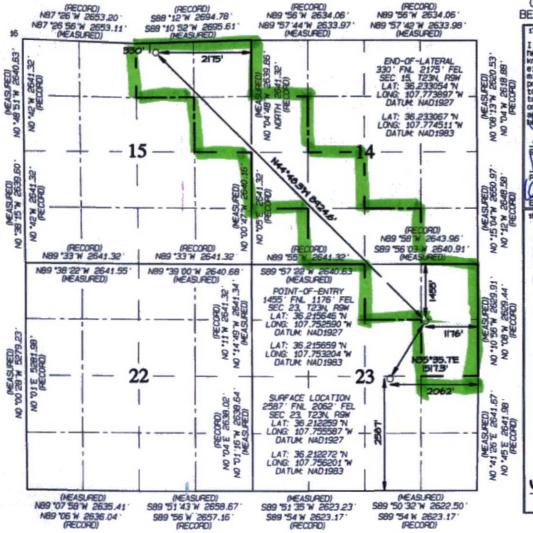
Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

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

AMENDED REPORT

District IV 1220 S. St. Francis Drive, Santa Fe. NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 OIL CONS. DIV DIST. 3 WELL LOCATION AND ACREAGE DEDICATION PLAT DEC 06 2016 Pool Code 'API Number Pool Name LYBROOK MANCOS W Property Code 98157 Well Number Property Name W LYBROOK UNIT 720H Flevation OGRID No *Operator Name 120782 WPX ENERGY PRODUCTION, LLC 6719 10 Surface Location Feet from the 23N 23 9W 2587 SOUTH 2062 EAST SAN JUAN 11 Bottom Hole Different From Surface Location If UL or lot no North/South line 23N 9W NORTH EAST SAN JUAN B 15 330 2175 Joint or Infill Consolidation Code Order No. Acres 440.0 SW/4 NW/4, N/2 SW/4 R-14051 12,807.24 Acres SE/4 SW/4, SW/4 SE/4 N/2 NE/4, SE/4 NE/4 N/2 NE/4, SE/4 NE/4 - Section 14 Section NO ALLOWABLE WILL BE ASSIGNED -Section 23 TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS (RECORD) NB7 *26 W 2653.20 (RECORD) NB9 *56 W 2634,06 ' NB9 *57 :44 W 2633.97 (MEASURED) (RECORD) NB9 "56"W 2634.06" (RECORD) \$88 12 W 2694.78 BEEN APPROVED BY THE DIVISION NB7 '26 56 W 2653.11' (MEASURED) N89 *57 '42 W 2633.98' (MEASURED) S88 '10 52'W 2695.61 (MEASURED) OPERATOR CERTIFICATION



I 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 unlessed
mineral interest in the land including the
proposed bottom-hole location or has a right
to drill this well at this location pursuent
to a contract with an owner of such a mineral
or working interest, or to a voluntary pooling
agreement or a compulsory pooling order
to a contract with an owner of such a mineral
or working interest, or to a voluntary pooling
agreement or a compulsory pooling order
to be contracted by the division. MULON 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 18, 2016 Survey Date: OCTOBER 19, 2015

Signature and Seal of Professional Surveyor



DWARDS Certificate Number 15269



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 #720H

Surface:

NWSE Sec 23-23N-09W

Elevation: 6719' GR

SH Location: **BH Location:**

NWNE Sec 15-23N-09W

Minerals:

Measured Depth: 14,398.08'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	424.00	424.00	POINT LOOKOUT	3,653.00	3,411.00
KIRTLAND	632.00	632.00	MANCOS	3,862.00	3,598.00
PICTURED CLIFFS	1,011.00	1,008.00	GALLUP	4,253.00	3,947.00
LEWIS	1,124.00	1,119.00	KICKOFF POINT	4,241.81	3,937.25
CHACRA	1,392.00	1,378.00	TOP TARGET	5,387.00	4,709.00
CLIFF HOUSE	2,580.00	2,453.00	LANDING POINT	5,473.54	4,714.85
MENEFEE	2,635.00	2,502.00	BASE TARGET	5,473.54	4,714.85
			TD	14,398.08	4,709.00

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"	5,473.54	. 7" ·	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5323.54' - 14,398.08'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5323.54'	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 cu-ft/100 sx/ Bbls).TOC at Surface.

2. Intermediate:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 102 bbls, 292 sks, (574 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, 546 sks, (905 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 (889 sx /1209 cuft /215 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-196bbl Fr Water. Total Cement (889 sx /1209bbls).

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:

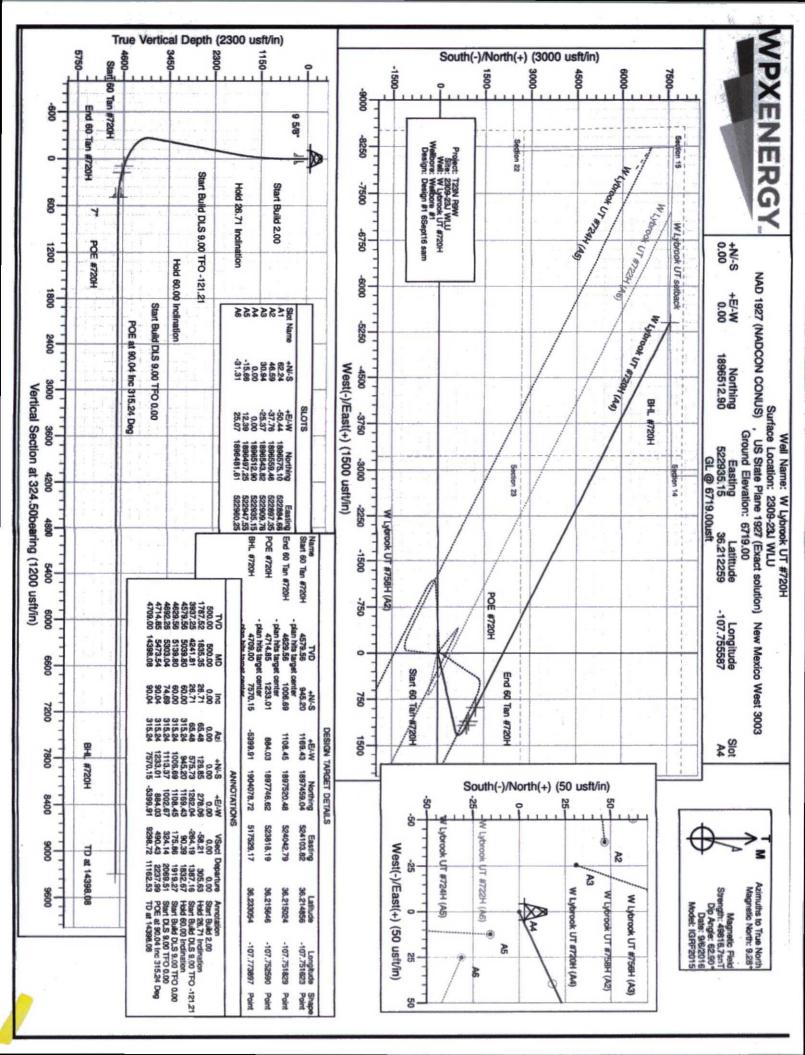
1. <u>Production Tubing:</u> Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.

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 #720H - Slot A4

Wellbore #1

Plan: Design #1 6Sept16 sam

Standard Planning Report

06 September, 2016

WPX

Planning Report

Database: COMPASS Company: **WPX Energy** Project: **T23N R9W** 2309-23J WLU Site: Well: W Lybrook UT #720H Wellbore #1 Wellbore:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well W Lybrook UT #720H (A4) - Slot A4 GL @ 6719.00usft GL @ 6719.00usft True Minimum Curvature

Design #1 6Sept16 sam Design:

Project

T23N R9W

Map System: Geo Datum:

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

System Datum:

Mean Sea Level

Map Zone:

New Mexico West 3003

Site

2309-23J WLU

Site Position: From:

Мар

+N/-S

+E/-W

Northing: Easting:

1,896,575.10 usft 522,884.66 usft

Latitude: Longitude:

36,212430 -107.755758

Position Uncertainty:

0.00 usft Slot Radius: 13,200 in

Grid Convergence:

0.05°

Well

W Lybrook UT #720H - Slot A4

Well Position

-62.24 usft 50.44 usft Northing:

Easting:

1,896,512.90 usft 522,935.15 usft Latitude: Longitude:

36.212259 -107.755587

Position Uncertainty

0.00 usft

Wellhead Elevation:

0.00 usft

Ground Level:

6,719.00 usft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) **IGRF2015** 9/6/2016 9.28 62.90 49,817

Design Design #1 6Sept16 sam **Audit Notes:** Version: PLAN Tie On Depth: 0.00 Phase: Depth From (TVD) Vertical Section: +N/-S +E/-W Direction (usft) (usft) (usft) (bearing) 0.00 0.00 0.00 324.50

lan Sections				0.000						
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
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	
1,835.35	26,71	65.48	1,787.52	126.85	278.06	2.00	2.00	0.00	65,48	
4,241.81	26.71	65.48	3,937.25	575.73	1,262.04	0.00	0.00	0.00	0.00	
5,039.80	60.00	315.24	4,579.56	945.20	1,169.43	9.00	4.17	-13.81	-121.21	Start 60 Tan #720H
5,139.80	60.00	315.24	4,629.56	1,006.69	1,108.45	0.00	0.00	0.00	0.00	End 60 Tan #720H
5,303.04	74.69	315.24	4,692.26	1,113.37	1,002.67	9.00	9.00	0.00	0.00	
5,473.54	90.04	315.24	4,714.85	1,233.01	884.03	9.00	9.00	0.00	0.00	POE #720H
14,398.08	90.04	315.24	4,709.00	7,570.15	-5,399.91	0.00	0.00	0.00	0.00	BHL #720H

WPX Planning Report

Database: Company: Project: COMPASS WPX Energy T23N R9W 2309-23J WLU W Lybrook UT #720H

Wellbore: Wellbore #1

Design:

Site:

Design #1 6Sept16 sam

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook UT #720H (A4) - Slot A4

GL @ 6719.00usft GL @ 6719.00usft

True

Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(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
9 5/8"									
500,00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2		0.00	500.00	0.00	0.00	0.00	0.00	V	0.00
1.000.00	10.00	65.48	997.47	18.06	39.60	-8.29	2.00	2.00	0.00
1,500.00	20.00	65.48	1,479.82	71.71	157.18	-32.90	2.00	2.00	0.00
1,300.00	20.00								
1,835.35	26.71	65.48	1,787.52	126.85	278.06	-58.21	2.00	2.00	0.00
Hold 26.71 l	nclination								
2,000.00	26.71	65.48	1,934.60	157.56	345.38	-72.30	0.00	0.00	0.00
2,500.00	26.71	65.48	2,381.26	250.82	549.83	-115.10	0.00	0.00	0.00
3,000.00	26,71	65.48	2,827.92	344,09	754.28	-157,89	0.00	0.00	0.00
3,500.00	26.71	65.48	3,274.58	437,35	958.72	-200.69	0.00	0.00	0.00
4 000 00	26.71	65.48	3,721.23	530.62	1,163,17	-243,49	0.00	0.00	0.00
4,000.00 4,241.81	26.71	65.48	3,721.23	575.73	1,163.17	-264.19	0.00	0.00	0.00
			3,937.20	575,75	1,202.04	-204.18	0.00	0.00	0.00
	LS 9.00 TFO -12			050.04	4 004 00	007.77	0.00	4.00	04.57
4,500.00	24.11	9.80	4,173.65	652.84	1,324.66	-237.77	9.00	-1.00	-21.57
5,000.00	56.80	317.14	4,558.71	920.75	1,192.90	56.85	9.00	6.54	-10.53
5,039.80	60.00	315.24	4,579.56	945.20	1,169.43	90.39	9.00	8.03	-4.77
Hold 60.00 le	nolination								amilian have on a
5,139.80	60.00	315.24	4,629.56	1,006.69	1,108.45	175.86	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 0.0	0							
5,303,04	74.69	315.24	4,692,26	1,113.37	1,002.67	324.14	9.00	9.00	0.00
Start DLS 9.		010,21	1,002,120	1,110.01	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	GE 11.1	0,55		
5,473.54	90.04	315.24	4,714.85	1,233.01	884.03	490.43	9.00	9.00	0.00
The second secon	Company of the Compan		4,7 14.00	1,233.01	004.03	430,43	3.00	3,00	0.00
	Inc 315,24 Deg		474405	4 000 00	000.74	400.00		0.00	0.00
5,474.00	90.04	315.24	4,714.85	1,233.33	883.71	490.88	0.00	0.00	0.00
7"					- LANGE TO THE T				THE PARTY
5,500.00	90.04	315.24	4,714.83	1,251.80	865.40	516.54	0.00	0.00	0.00
6,000.00	90.04	315.24	4,714.51	1,606.84	513.34	1,010.03	0.00	0.00	0.00
6,500.00	90.04	315.24	4,714.18	1,961.88	161.28	1,503.52	0.00	0.00	0.00
7,000.00	90.04	315.24	4,713.85	2,316.92	-190.78	1,997.00	0.00	0.00	0.00
7,500.00	90.04	315,24	4,713.52	2,671.96	-542.84	2,490.49	0.00	0.00	0.00
8,000.00	90.04	315,24	4,713.19	3,027.00	-894.90	2,983.98	0.00	0.00	0.00
					-1.246.96				
8,500.00	90.04	315,24	4,712.87	3,382.04	-1,246.96 -1,599.02	3,477.47	0.00	0.00	0.00
9,000.00	90.04	315.24	4,712.54	3,737.08		3,970.95	0.00	0.00	0.00
9,500.00	90.04	315.24	4,712.21	4,092.12	-1,951.08	4,464.44	0.00	0.00	0.00
10,000.00 10,500.00	90.04 90.04	315.24 315.24	4,711.88 4,711.56	4,447.16 4,802.20	-2,303.14 -2,655.20	4,957.93 5,451.42	0.00	0.00	0.00
10,000.00	90.04	310.24	4,711.00	4,002.20	-2,000.20	0,401.42	0.00		
11,000.00	90.04	315.24	4,711.23	5,157.24	-3,007.26	5,944.90	0.00	0.00	0.00
11,500.00	90.04	315.24	4,710.90	5,512.28	-3,359.32	6,438.39	0.00	0.00	0.00
12,000.00	90.04	315.24	4,710.57	5,867.32	-3,711.38	6,931.88	0.00	0.00	0.00
12,500.00	90.04	315.24	4,710.24	6,222.36	-4,063.44	7,425.37	0.00	0.00	0.00
13,000.00	90.04	315.24	4,709.92	6,577.40	-4,415.50	7,918.85	0.00	0.00	0.00
13,500.00	90.04	315.24	4,709.59	6,932.44	-4,767.56	8,412.34	0.00	0.00	0.00
14,000.00	90.04	315.24	4,709.39	7,287.48	-5,119.62	8,905.83	0.00	0.00	0.00
14,398.08	90.04	315.24	4,709.00	7,570.15	-5,399.91	9,298.72	0.00	0.00	0.00
TD at 14398.		510.24	4,700.00	7,070.10	-0,000.01	0,230.72			of Englishmen

WPX

Planning Report

Database: COMPASS WPX Energy T23N R9W Company: Project: 2309-23J WLU Site: Well: W Lybrook UT #720H Wellbore: Wellbore #1

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

GL @ 6719.00usft GL @ 6719.00usft

True

Survey Calculation Method:

Minimum Curvature

Well W Lybrook UT #720H (A4) - Slot A4

Design #1 6Sept16 sam Design:

Design Targets	10.00			and the same of the same of					
Target Name - hit/miss target - Shape	Olp Angle (°)	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 Tan #720H - plan hits target cente - Point	0.00 r	0.00	4,579.56	945.20	1,169.43	1,897,459.04	524,103.82	36.214856	-107.751623
End 60 Tan #720H - plan hits target cente - Point	0.00	0.00	4,629.56	1,006.69	1,108.45	1,897,520.48	524,042.79	36,215025	-107.751830
BHL #720H - plan hits target cente - Point	0.00	0.00	4,709.00	7,570.15	-5,399.91	1,904,078.72	517,529.17	36.233054	-107.773897
POE #720H - plan hits target center - Point	0.00	0.00	4,714.85	1,233.01	884.03	1,897,746.62	523,818.19	36.215646	-107.752590

ing Points						
	Measured	Vertical			Casing	Hole
	Depth	Depth			Diameter	Diameter
	(usft)	(usft)		Name	(in)	(in)
THE STATE OF THE S	320.00	320.00	9 5/8"	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	9.625	12.250
	5,474.00	4,714.85	7"		7.000	8.750

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
500.00	500.00	0.00	0.00	Start Build 2.00
1,835.35	1,787.52	126.85	278.06	Hold 26.71 Inclination
4,241.81	3,937.25	575.73	1,262.04	Start Build DLS 9.00 TFO -121.21
5,039.80	4,579.56	945.20	1,169.43	Hold 60.00 Inclination
5,139.80	4,629.56	1,006.69	1,108.45	Start Build DLS 9.00 TFO 0.00
5,303.04	4,692.26	1,113.37	1,002.67	Start DLS 9.00 TFO 0.00
5,473.54	4,714.85	1,233.01	884.03	POE at 90.04 Inc 315.24 Deg
14,398.08	4,709.00	7,570.15	-5,399.91	TD at 14398.08

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

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

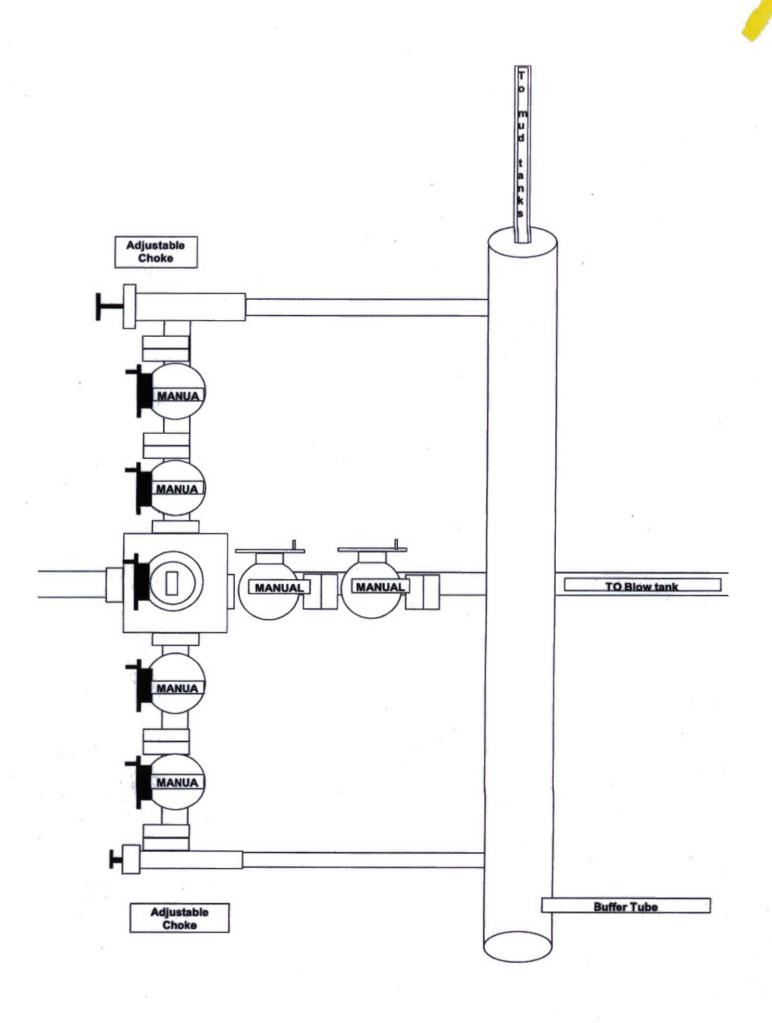
- No chemicals subject to reporting under Superfund Amendments and Reauthorization Act Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
- No extremely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

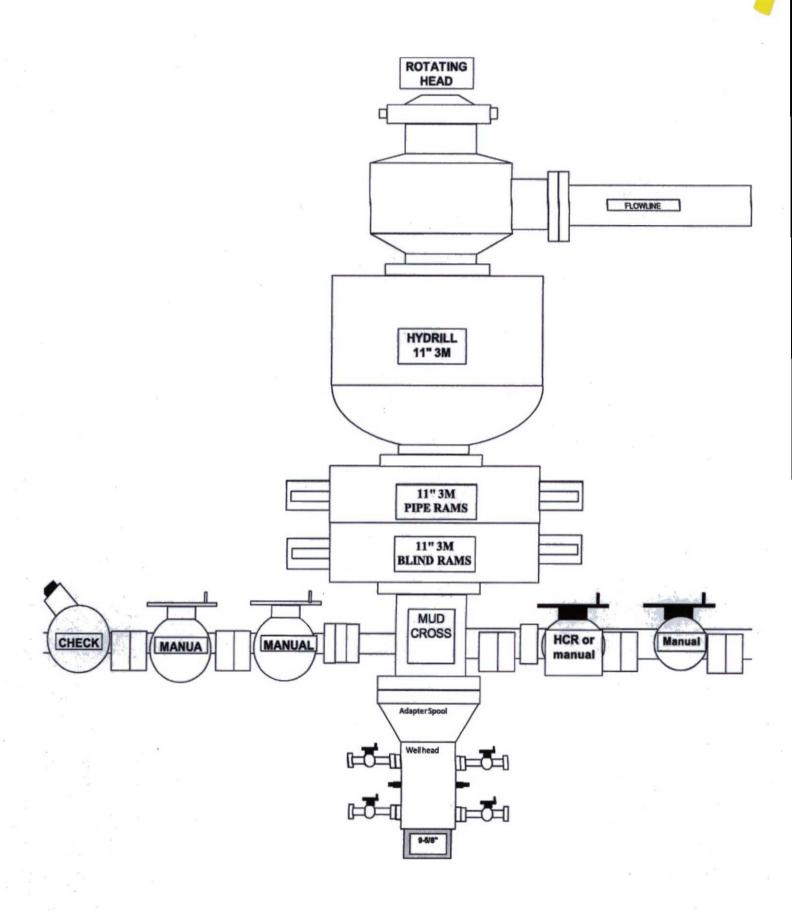
A. Produced Water:

- 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
- 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 #720H 2587' FSL & 2062' FEL, Section 23, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.212272°N Longitude: 107.756201°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 #758H location.