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: 11-14-16	
Well information;	
Operator 120182 , Well Name and Number	Wlybrook Unit #758H
API#30.045.35810 Section 33, Township	
Conditions of Approval: (See the below checked and ha	ndwritten conditions)

- Notify Aztec OCD 24hrs prior to casing & cement.
- M Hold C-104 for directional survey & "As Drilled" Plat
- M 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

Date

FORM APPROVED Form 3160 - 3 OMB No. 1004-0137 Expires October 31, 2014 (March 2012) UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR N0G13121863 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. DRILL REENTER la. Type of work: INITAL MANCOS PA / NMNM135216A 8. Lease Name and Well No. lb. Type of Well: Oil Well Gas Well Other Single Zone | Multiple Zone W LYBROOK UT 758H 9. API Well No. Name of Operator WPX ENERGY LLC 30-045-35810 3a. Address 3b. Phone No. (include area code) 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.*) NWSE / 2633 FSL / 2101 FEL / LAT 36.2124 / LONG -107.7569027 SEC 23 / T23N / R9W / NMP At proposed prod. zone SESE / 330 FSL / 1148 FEL / LAT 36.191548 / LONG -107.735402 13. State 12. County or Parish 14. Distance in miles and direction from nearest town or post office* SAN JUAN NM 37.8 miles 15. Distance from proposed*
location to nearest 20 feet
property or lease line, ft.
(Also to nearest drig. unit line, if any) 17. Spacing Unit dedicated to the well ONS, DIV DIST, 3 16. No. of acres in lease DEC. 01 2016 Distance from proposed location* to nearest well, drilling, completed, 2101 feet applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. on file 4599 feet / 15051 feet IND: B001576 22. Approximate date work will start 23. Estimated duration 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: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 5. Operator certification 3. A Surface Use Plan (if the location is on National Forest System Lands, the

- SUPO must be filed with the appropriate Forest Service Office).
- Such other site specific information and/or plans as may be required by the

(Electronic Submission)	Lacey Granillo / Ph: (505)333-1816	11/14/2016
Title Permitting Tech III		
Approved by (Signature) Manke (2)	Name (Printed/Typed)	Date (1/28/18
Title AFM	Office FARMINGTON	
Application approval does not warrant of certify that the applicant h	olds legal or equitable title to those rights in the subject lease wh	ich would entitle the applicant to

a (Printed/Tomad)

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"

26 01----

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 Oistrict 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 Orive, 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 LYBROOK MANCOS W 30-045-35810 98157 Well Number Property Code Property Name **525** W LYBROOK UNIT 758H Elevation OGRID No. Operator Name 120782 WPX ENERGY PRODUCTION, LLC 6719 10 Surface Location Lot Tdn eet from the North/South Line Feet from the East/West line 23 23N 9W 2633 SOUTH 2101 EAST SAN JUAN 11 Bottom Hole From Surface If Different Location UL or lot no. Feet from the P 23N 9W 330 SOUTH 1148 EAST SAN JUAN Joint or Infill M Compolidation Code Dedicated Acres NE/4 SW/4, S/2 SE/4 4 SE/4 - Section 23 480.00 R-14051 12.807.24 Acres NW/4 SE/4 -W/2 NW/4, SE/4 NW/4, NE/4 SW/4 SE/4 SE/4 - Section 25 NF/4 NE/4 - Section 26 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 W/2 SE/4,

(RECORO) NB9 *58 *W 2643.96 * SB9 *56 *03 *W 2640.91 * (MEASURED) (RECORD) NB9 "55" W 2641.32" SB9 "57" 22" W 2640.63 (MEASURED) (RECORD) NB9 *12 W 2608.98 (RECORD) N89 *12 W 2608.98 N89 *16 :35 W 2607.57 (MEASURED) N89 *17 '31'W 2608.72 (MEASURED) (RECORD) NO '08 W 2629.44' 10 '56 W 2629.91' (NEASURED) POINT-OF-ENTRY 1893 FSL 2491 FWL SEC 23, T23N, R9W LAT: 36 210349 N LONG: 107.758043 W DATUM: NAD1927 SURFACE LOCATION 2633 FSL 2101 FEL SEC 23, T23N, R9W LAT: 36.212387 N LONG: 107.755715 W NO "06" 13" W 2622.24" NO "03" W 2623.83" (PECORD) WEASURED (RECORD) NO '11 W 2641.32 DATUM: NAD1927 LAT: 36.212400 W LONG: 107.756329 W DATUM: NAD1983 LAT: 36.210362 N LONG: 107.758657 W DATUM: NAD1983 N NO -34 8 2101 23 24 MEASURED)
NO *4126 E 2641.67 ·
NO *45 E 2641.98 ·
(RECORD) (NEASUPED) 0 '06'36"W 2623.83" NO "03 W 2623.83" (RECOPD) (MEASURED) N89 '33 '31'W 2624.58 Š NB9 *30 W 2624.16 (RECORD) (MEASURED) 34 18 W 2624.69 3 (MEASURED) 589 *51 35 W 2623 23 * 589 *54 W 2623 17 * (RECORD) END-OF-LATERAL 330' FSL 1148' FEL SEC 25, T23N, R9W LAT: 36,191534'N LONG: 107,734789'W DATUM: NAD1927 NO "07 30"W 2623.66" NO "03"W 2623.85" (PECORD) RED) 88.42.25; (RECORD) 47 E 2633,40 11.65 S.G. P. SEPL (RECORD) S89 '54 W 2623.17 NO 20E LAT: 36.191548 N LONG: 107.735402 N DATUM: NAD1983 589 '50'32'W 2622.50 (MEASURED) 2 9 ş 26 40 51 E 2633.49* NO "06 58" W 2624.61" NO "03" W 2623.83" (PECORD) NO 17 38 E 2641.75 (PECORD) NO '47 E 2633.40 20 E 2641.65 (RECORD) 2 **ASON** (MEASURED) 189 '56 '48 W 2640.96 189 '55 W 2640.00' (RECORD) (MEASURED) NB9 '57 '05 W 2644.69' NB9 '56 W 2643.30' (RECORD) (MEASURED) N89 '57'29'W 2642.59 Certificate Number N89 *55 W 2640.00 '(RECORD) N89 "56 W 2643.30" (RECORD)

" OPERATOR CERTIFICATION OPEHATOR CEHTIFICATION
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-nole 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 or a compulsory pooling order
heretoffine entered by the division. 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 und 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 C. EDNARDS SMENT ADFESSION DWARDS 15269



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 #758H

Surface:

SH Location:

NWSE Sec 23 23N-09W

Elevation: 6719' GR

BH Location:

SESE Sec 25 23N-09W

Minerals:

Measured Depth: 15,050.88'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	387.00	387.00	POINT LOOKOUT	3,550.00	3,374.00
KIRTLAND	595.00	595.00	MANCOS	3,759.00	3,561.00
PICTURED CLIFFS	971.00	971.00	GALLUP	4,146.00	3,910.00
LEWIS	1,082.00	1,082.00	KICKOFF POINT	4,048.48	3,820.46
CHACRA	1,342.00	1,341.00	TOP TARGET	5,031.00	4,599.00
CLIFF HOUSE	2,479.00	2,416.00	LANDING POINT	5,356.44	4,678.00
MENEFEE	2,534.00	2,465.00	BASE TARGET	5,356.44	4,678.00
			TD	15,050.88	4,599.00

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"	5,356.44'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5206.44' - 15,050.88'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5206.44'	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: 99 bbls, 282 sks, (555 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/ +/- 211 bbl Drilling mud or water. Total Cement: 158 bbls, 536 sks, (886 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 (965 sx /1312 cuft /234 bbls). Tail Spacer: 20 BBL of
MMCR. Displacement: Displace w/ +/-207bbl Fr Water. Total Cement (965 sx /1312bbls).

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).

Well Name: W Lybrook UT #758H WPXENERGY. Surface Location: 2309-23J WLU . US State Plane 1927 (Exact solution) New Mexico West 3003 Azimuths to True North NAD 1927 (NADCON CONUS) Magnetic North: 9.34 Ground Elevation: 6719.00 Longitude -107.755715 +N/-S Slot Magnetic Field Strength: 49886.0snT +F/-W Northing **Fasting** Latittude 522897.35 36.212387 A2 0.00 0.00 1896559.46 Dip Angle: 62.91 GL @ 6719.00usft Date: 1/12/2016 Model: IGRF2015 W Lybrook JT #722H (A6) W Lybrook UT #720H (A4) 1350-W Lybrook UT #724H (A5) W Lybrook UT #757H (A1) W Lybrook UT #756H (A2) Start 60 Tan #758H (50 usft/in) POE #758H -1350-South(-)/North(+) (2700 usft/in) End 60 Tan #758H South(-)/North(+) W LYDROOK LY \$ 38H (A3) A3 W Lybrook UT #758H (A2) W Lybrook UT #757H (AT) W Lybrook UT #720H (A4) Project: T23N R9W Site: 2309-23J WLU Well: W Lybrook UT #758H Vellbore: Wellbore #1 Design: Design #1 6Sept16 sam -6750-West(-)/East(+) (50 usft/in) BHI #758H W Lybrook UT setback 7000 7700 1400 2100 6300 -700 700 West(-)/East(+) (1400 usft/in) **DESIGN TARGET DETAILS** Shap Easting Latitude Longitude -107.759027 Northing SLOTS Point Start 60 Tan #758H 4542.73 452,20 -977.10 1896106.48 521920.61 36,211145 plan hits target +E/-W 521981.96 36,210977 -107.758819 Point End 60 Tan #758H 1896045.36 4592.73 -513.37 1896575.10 1896559.46 15.65 -12.68 522884.6 9 5/8 0.00 522897.35 A2 A3 A4 A5 A6 0.00 POE #758H 4678.00 36.210349 -107.758043 Point (2200 usft/in) -15.65 12,40 1896543 82 522909.76 plan hits target center Start Build 2.00 -46.59 37.76 1896512.90 522935.15 529078.09 36,191534 -107.734789 Point -7589.94 6174.67 4599.00 -62.25 1896497.25 50.15 522947.55 522960,25 **ANNOTATIONS** VSect Departure 0.00 0.00 Annotation TVD Start Build 2.00 0.00 1000.00 1000.00 0.00 0.00 0.00 Hold 26.52 Inclination 26.52 26.52 60.00 60.00 -164.81 2278,94 2325,76 264,03 -31,35 -299.69 301,33 Depth 2200 264,03 3820.46 4048.48 -111.37 -1064,60 1070,41 Start Build DLS 9.00 TFO -136,64 4542.73 4592.73 134.94 -265.84 1514.11 Hold 60.00 Inclination 4917.92 -977.10 -452.20 Start Build DLS 9.00 TFO -136.64 -179.70 Start Build DLS 9.00 TFO 0.00 5017.92 1600.71 134.94 -513.38 -915,80 4656.57 75.08 134.94 -26.08 1755.16 Start DLS 9.00 TFO 0.01 5185.52 -622.48Vertical 4678.00 5356.44 90.47 -741.89 142.06 1924,21 POE at 90.47 Inc 134.94 Deg 3300 Hold 60.00 Inclination 15050.88 Start Build DLS 9.00 TFO 0.00 rue POE at 90.47 Inc 134.94 Deg 4400-Start 60. Jan #758H TD at 15050.88 **BHL #758H** POE #758 10200 1200 1800 2400 3000 4200 5400 6600 7200 7800 8400 Vertical Section at 140.87bearing (1200 usft/in)

WPX Energy

T23N R9W 2309-23J WLU W Lybrook UT #758H - Slot A2

Wellbore #1

Plan: Design #1 6Sept16 sam

Standard Planning Report

06 September, 2016

WPX

Planning Report

 Database:
 COMPASS

 Company:
 WPX Energy

 Project:
 T23N R9W

 Site:
 2309-23J WLU

 Well:
 W Lybrook UT #758H

 Wellbore:
 Wellbore #1

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

Well W Lybrook UT #758H (A2) - Slot A2 GL @ 6719.00usft GL @ 6719.00usft True

Minimum Curvature

Project T23N R9W

Map System: Geo Datum:

Design:

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

Design #1 6Sept16 sam

System Datum:

Mean Sea Level

Geo Datum: Map Zone:

New Mexico West 3003

Site 2309-23J WLU Northing: 1,896,575,10 usft 36,212430 Site Position: Latitude: Easting: 522,884.66 usft -107.755758 Longitude: From: Map **Grid Convergence:** Position Uncertainty: Slot Radius: 13,200 in 0.05 0.00 usft

Well W Lybrook UT #758H - Slot A2 +N/-S -15.65 usft 1,896,559.46 usft 36.212387 **Well Position** Northing: Latitude: +E/-W 12.68 usft Easting: 522,897,35 usft Longitude: -107,755715 0.00 usft 6,719.00 usft **Position Uncertainty** Wellhead Elevation: 0.00 usft **Ground Level:**

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

Design Design #1 6Sept16 sam **Audit Notes:** PLAN 0.00 Version: Phase: Tie On Depth: Depth From (TVD) Vertical Section: +N/-S +E/-W Direction (usft) (usft) (usft) (bearing) 0.00 0.00 0.00 140.87

								CONTRACTOR OF THE		
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	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,325.76	26,52	264.03	2,278,94	-31.35	-299.69	2.00	2.00	0.00	264,03	
4,048.48	26.52	264.03	3,820.46	-111.37	-1,064.60	0.00	0.00	0.00	0.00	. 4
4,917.92	60.00	134.94	4,542.73	-452.20	-977.10	9.00	3.85	-14.85	-136.64	Start 60 Tan #758H
5,017.92	60.00	134.94	4,592.73	-513.38	-915.80	0.00	0.00	0.00	0.00	End 60 Tan #758H
5,185.53	75.08	134.94	4,656.57	-622.48	-806.48	9.00	9.00	0.00	0.00	17.
5,356.44	90.47	134.94	4,678.00	-741.89	-686.82	9.00	9.00	0.00	0.01	POE #758H
15,050.88	90,47	134.94	4,599.00	-7,589.94	6,174.67	0.00	0.00	0.00	0.00	BHL #758H

WPX Planning Report

Database: COMPASS
Company: WPX Energy
Project: T23N R9W
Site: 2309-23J WLU
Well: W Lybrook UT #758H
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 #758H (A2) - Slot A2 GL @ 6719.00usft GL @ 6719.00usft Trus

Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Bulld	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"	BUX PERSON		STATE OF STATE	STATE OF THE STATE OF	S-1898(19)	ADDITION OF THE ST	STANKE	STATE OF THE STATE	
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	Personal Control of the Control of t	COLUMN TAXABLE	alie i 1941 de 1940 d	A SAN SAN SAN SAN SAN SAN SAN SAN SAN SA	SERVICE SECTION	e Transferra	The Park of	Marketty (Mark)	PERMANEUM
1,500.00	10.00	264.03	1,497.47	-4.53	-43.29	-23.80	2.00	2.00	0.00
2,000.00	20.00	264.03	1,979.82	-17.97	-171.83	-94,49	2.00	2.00	0.00
2,325.76	26.52	264.03	2,278.94	-31.35	-299.69	-164.81	2.00	2.00	0.00
Hold 26.52 I	and the same of the same of the same of	Carlo Medical State 1		(14 - 2 1) (14 - 4 - 4 - 1			THE SHOPPING	No. 1512Y restaused	Las et des editors
The same of the sa	Market Street, Street, St.	204.02	2 424 00	Property International Contractions			0.00	0.00	0.00
2,500.00	26.52	264.03	2,434.86	-39.44 -62.67	-377.06 -599.07	-207.36 -329.44	0.00	0.00	0.00
3,000.00	26.52	264.03	2,882.26 3,329.67	-85.89	-821.07	-329.44 -451.53	0.00	0.00	0.00
3,500.00	26.52	264.03	3,329.07	-00.09		-101,03		0.00	
4,000.00	26.52	264.03	3,777.08	-109.12	-1,043.08	-573.62	0.00	0.00	0.00
4,048.48	26.52	264.03	3,820.46	-111.37	-1,064.60	-585.45	0.00	0.00	0.00
Start Build I	OLS 9.00 TFO -13	36.64		West Rolling	2.07 图光线	Lawrence Co.	THE SHOW	1.78.45	
4,500.00	27.07	163.28	4,241.29	-225.07	-1,138.39	-543.82	9.00	0.12	-22.31
4,917.92	60.00	134.94	4,542.73	-452.20	-977.10	-265.84	9.00	7.88	-6.78
Hold 60.00 h	nclination		and the state of	Constant March	Barry Charles	E SPANISH PARTY		and the state of the	A BOOK SERVE
5,000.00	60.00	134.94	4,583.77	-502.41	-926.79	-195.14	0.00	0.00	0.00
5,017.92	60.00	134.94	4,592.73	-513.38	-915.80	-179.70	0.00	0.00	0.00
Start Build I	OLS 9,00 TFO 0,0	00							
5,185,53	75.08	134,94	4,656.57	-622.48	-806.48	-26.08	9.00	9.00	0.00
Start DLS 9.	00 TFO 0.01		e troot	ALCONOMICS OF THE	and the state of t	A A A		100000000000000000000000000000000000000	Contractions
5,356.00	90,43	134.94	4,678.00	-741.58	-687.13	141.63	9.00	9.00	0.00
7"			11,2,000		i de la		and the state of	STATEMENT OF THE STATEMENT	SELECTION CHARGE
5,356.44	90.47	134.94	4,678.00	-741.89	-686.82	142.06	9.00	9.00	0.00
and the last section of the last section and the last section of t	lanca a successive and a second		4,070.00	7771.00	1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	142.00	5.00	- Fr. 10 10 10 10 10 10 10 10 10 10 10 10 10	27 3 16 27 15 28 28 28 28 28
The last section of the last section of the	7 Inc 134.94 Deg	The second secon	4 676 99	049 90	E0E 24	204.05	0.00	0.00	0.00
5,500.00	90.47	134.94	4,676.83	-843.30	-585.21	284.85	0.00	0.00	0.00
6,000.00	90.47	134.94	4,672.76	-1,196.50	-231.33	782.16	0.00	0.00	0.00
6,500.00	90.47	134.94	4,668.68	-1,549.69	122.56	1,279.47	0.00	0.00	0.00
7,000.00	90.47	134.94	4,664.61	-1,902.89	476.45	1,776.79	0.00	0.00	0.00
7,500,00	90.47	134.94	4,660.53	-2,256.08	830.34	2,274.10	0.00	0.00	0.00
8,000.00	90.47	134,94	4,656.46	-2,609.28	1,184.23	2,771.41	0.00	0.00	0.00
8,500,00	90.47	134,94	4,652.38	-2.962.47	1,538.11	3,268,72	0.00	0.00	0.00
9,000,00	90,47	134,94	4,648.31	-3,315.67	1,892.00	3,766.03	0.00	0.00	0.00
9,500.00	90.47	134.94	4,644.23	-3,668.86	2,245.89	4,263.34	0.00	0.00	0.00
10,000.00	90.47	134,94	4,640.16	-4,022.06	2,599.78	4,760.65	0.00	0.00	0.00
10,500.00	90.47	134.94	4,636.09	-4,375.25	2,953.67	5,257.96	0.00	0.00	0.00
11,000.00	90.47	134.94	4,632.01	-4,728.45	3.307.55	5,755.27	0.00	0.00	0.00
11,500.00	90.47	134.94	4,627.94	-5,081.64	3,661.44	6,252.58	0.00	0.00	0.00
12,000.00	90.47	134.94	4,623.86	-5,434.84	4,015.33	6,749.89	0.00	0.00	0.00
12,500.00	90.47	134.94	4,619.79	-5,788.03	4,369.22	7,247.21	0.00	0.00	0.00
13,000.00	90.47	134.94	4,615.71	-6,141,23	4,723.11	7,744.52	0.00	0.00	0,00
13,500.00	90.47	134.94	4,611.64	-6,494.42	5,076.99	8,241.83	0.00	0.00	0.00
14,000.00	90.47	134.94	4,607.56	-6,847.62	5,430.88	8,739.14	0.00	0.00	0.00
14,500.00	90.47	134,94	4,603.49	-7,200.81	5,784.77	9,236.45	0.00	0.00	0.00
15,000.00	90.47	134,94	4,599,41	-7,554.01	6,138,66	9,733.76	0.00	0.00	0.00
15,050.88	90,47	134.94	4,599.00	-7,589.94	6,174.67	9,784.36	0.00	0,00	0.00

WPX Planning Report

COMPASS Database: Company: Project: Site: WPX Energy T23N R9W 2309-23J WLU W Lybrook UT #758H Wellbore #1 Design #1 6Sept16 sam

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

Survey Calculation Method:

GL @ 6719.00usft GL @ 6719.00usft True Minimum Curvature

Well W Lybrook UT #758H (A2) - Slot A2

Design Targets		Tall of							
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+EI-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 Tan #758H - plan hits target cente - Point	0.00 er	0.00	4,542.73	-452.20	-977.10	1,896,106.48	521,920.61	36.211145	-107.759027
End 60 Tan #758H - plan hits target cente - Point	0.00	0.00	4,592.73	-513.37	-915.80	1,896,045.36	521,981.96	36.210977	-107.758820
BHL #758H - plan hits target cente - Point	0.00 er	0.00	4,599.00	-7,589.94	6,174.67	1,888,974.46	529,078.09	36.191534	-107.734790
POE #758H - plan hits target cente - Point	0.00	0.00	4,678.00	-741.89	-686.82	1,895,817.02	522,211.12	36.210349	-107.758043

Casing Points	Sec. Aspects				的复数数		
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)	
	320.00	320.00	9 5/8"	top space space of the space of	9.625	12.250	Incid pro-rich parameter control
	5,356.00	4,678.00	7"		7.000	8.750	

Plan Annotations			的無理之位。		
Meas De (us		Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
1,0	00.00	1,000.00	0.00	0.00	Start Build 2.00
2,3	325.76	2,278.94	-31.35	-299.69	Hold 26.52 Inclination
4.0	048.48	3,820.46	-111.37	-1,064.60	Start Build DLS 9.00 TFO -136.64
4.9	917.92	4,542.73	-452.20	-977.10	Hold 60.00 Inclination
	017.92	4.592.73	-513.38	-915.80	Start Build DLS 9.00 TFO 0.00
17.4	185.53	4,656,57	-622,48	-806.48	Start DLS 9.00 TFO 0.01
	356.44	4,678.00	-741.89	-686.82	POE at 90,47 Inc 134,94 Deg
	050.88	4,599.00	-7,589.94	6,174.67	TD at 15050.88

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

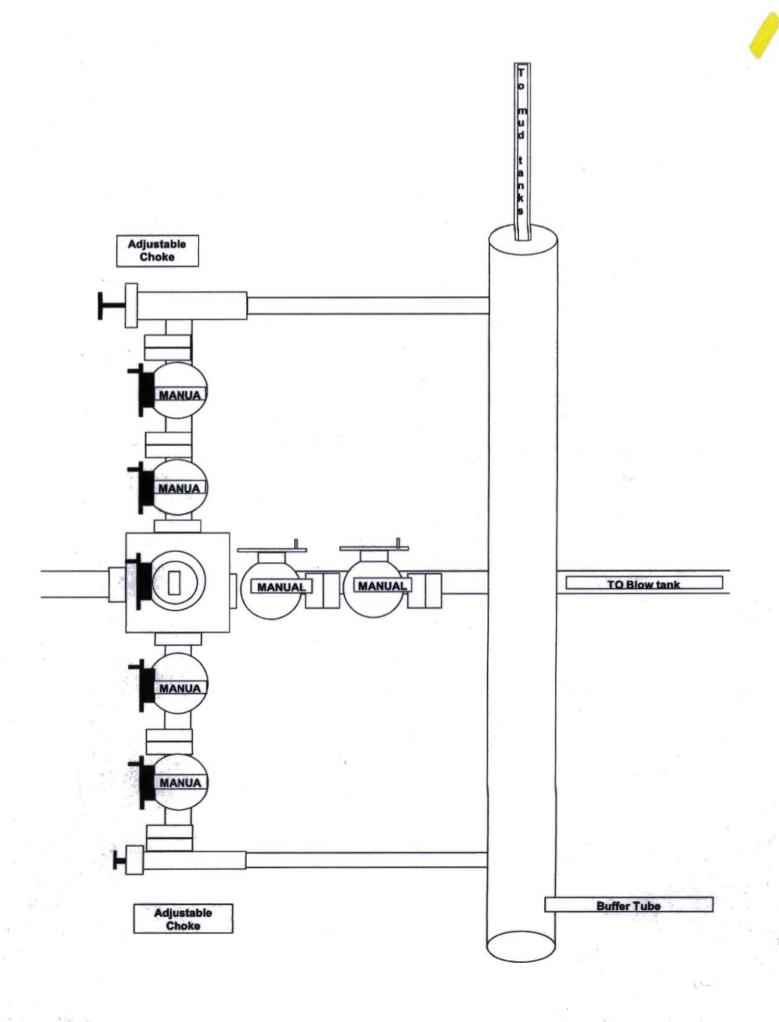
- No chemicals subject to reporting under Superfund Amendments and Reauthorization Act Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
- 2 No extremely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

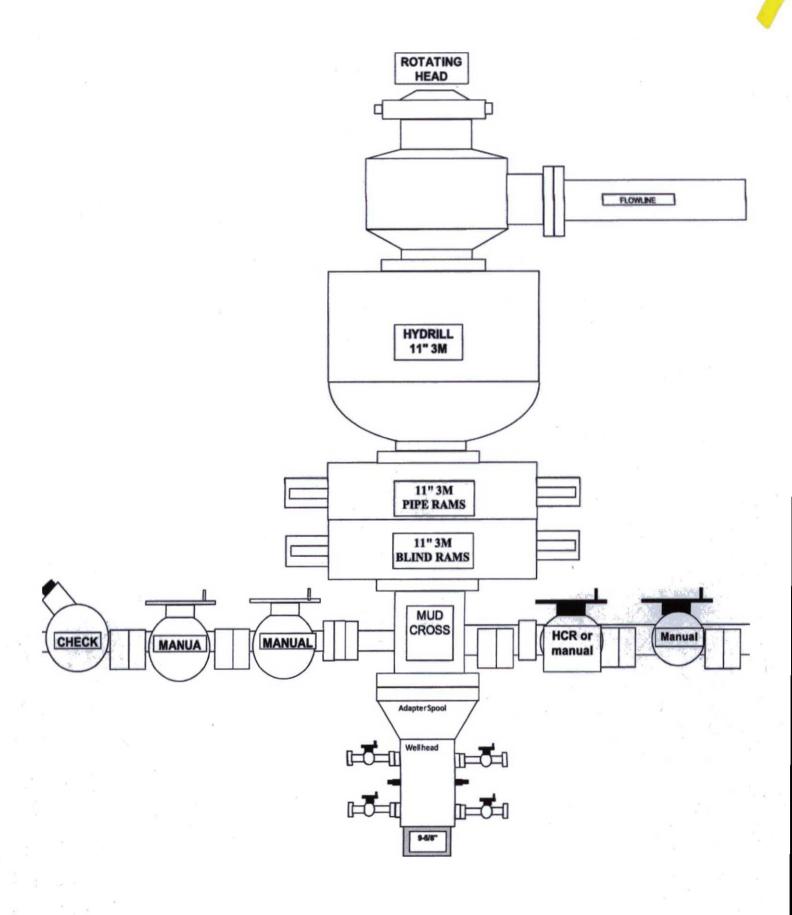
A. Produced Water:

- 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 1/4, 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 Hwv 550 & US Hwv 64 in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #758H 2633' FSL & 2101' FEL, Section 23, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.212400°N Longitude: 107.756329°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.