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.

	or Signature Date: 4-7-16
	nformation;
Operat	or well Name and Number (1), Lybrook Und 129H
ے#API	30-045-35771, Section 23, Township 23 N/S, Range 9 E
Condi	tions 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 NSIL, NSP, DHC
0	Spacing rule violation. Operator must follow up with change of status notification on other wel to be shut in or abandoned
0	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
0	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
0	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.
Chi	12-15-2016
NMO	CD Approved by Signature Date

la. Type of Work:

RECEIVED

APR 0 8 2016

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

Lease Serial No. POE

No-G-1312-1863 NMNM

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

REENTER

APPLICATION FOR PERMIT TO DRILL OR REENTERINGTON Fie

ENFERRINGTON Fi	eld Office	o. If Indian, Anottee of Tribe	Name
Bureau of Land N			
		7. If Unit or CA Agreement, Na	ame and No.
		NMNM 135216X	
_		8. Lease Name and Well No.	
ngle Zone Multip	ple Zone	W. Lybrook Unit #729H	
		9. API Well No.	4
		30-045-35	77/
(include area code)		10. Field and Pool, or Explorator	У
-1816		Lybrook Mancos W.	
alt cour on		11. Sec., T., R., M., or Blk. and	Survey or Area
OIL CONS. DIV	DIST.	3 SHL: Sec 23, T23N, R9W	
DEC 1 3	2010	BHL: Sec 21, T23N, R9W	
0.010	2010	12. County or Parish	13. State
550 37.8 miles to MI	M 113.4	San Juan	NM
cres in lease	17. Spacing 12,807.24	g Unit dedicated to this well acres	
s			
Donth	OO DEACH	TA D 131 61.	

☑ Oil Well ☐ Gas Well ☐ Other 1b. Type of Well: ☐ Multiple 2. Name of Operator WPX Energy Production, LLC 3a. Address 3b. Phone No. (include area code) P.O. Box 640 Aztec, NM 87410 (505) 333-1816 Location of Well (Report location clearly and in accordance with any State requiremental CONS. DIV 534' FSL & 553' FWL SEC 23, 23N 9W At proposed prod. zone 330' FNL & 278' FEL SEC 21, 23N 9W DFC 122 14. Distance in miles and direction from nearest town or post office* From intersection US HWY 550 & US HWY 64 Bloomfield, NM South HWY 550 37.8 miles to MM 15. Distance from proposed* 16. No. of Acres in lease location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 534 160 acres 18. Distance from proposed location* 19. Proposed Depth BLM/BIA Bond No. on file to nearest well, drilling, completed, applied for, on this lease, ft. 12789.56' MD / 4678' TVD B001576 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 6748' GR April 1, 2016 1 month 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall 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. Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 6. Such other site specific information and/or plans as may be required by the SUPO shall e filed with the appropriate Forest Service Office). authorized officer. 25. Signa Name (Printed/Typed) Lacey Granillo Title Permit Technician III Approved by (Signatury Name (Printed/Typed) Title Office

DRILL

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.

*(Instructions on reverse)

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

The well pad surface is under jurisdiction of the BLM and FIMO and is on lease on IA lands and will be twinned with the W. Lybrook Unit #726H/728H/759H/760H761H.

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

The new 9392.6' on lease road on Navajo Alloted surface will be built and permitted via the APD.

A new 89.4' on lease pipeline of BLM lands will be built and permitted via the APD, 4793.6' will be on Navajo Alloted surface.

The facilities for the well will be located on the Remote Facilities Pad 23-8-18D located on BLM surface and will be built & permitted via the APD.

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

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



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

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

State of New Mexico Energy, Minerals & Natural Resources Department

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

Submit one copy to Appropriate District Office

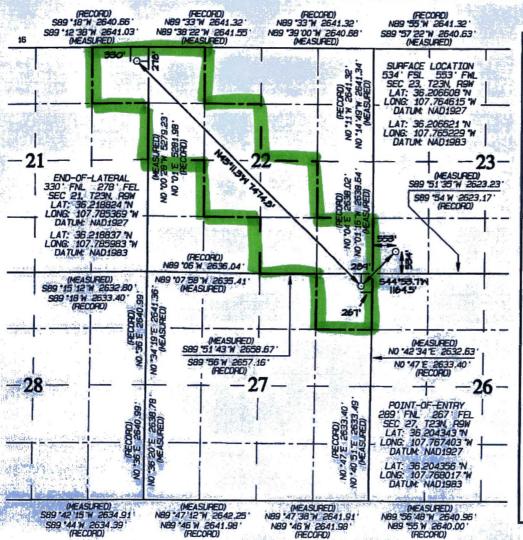
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number		ol Code	Pool Name LYBROOK MANCOS	3 W
Property Code	h h	"Property Name W LYBROOK UNI	T	"Well Number 729H
120782	100 m	*Operator Name WPX ENERGY PRODUCT:	ION, LLC	'Elevation 6748'

¹⁰ Sunface Location Lot Ido eet from the Feet from the East/West line County 23 **23N** 9W SOUTH 534 553 WEST SAN JUAN Bottom Hole Location If Different From Surface UL or lot no. Feet from the Feet from the East/West line A 21 23N 9W 330 NORTH 278 EAST SAN JUAN Dedicated Acry Joint or Infill NE/4 NE/4 - Section 21 360.0 R-14051 - 12,807.24 Acres W/2 NW/4, SE/4 NW/4, NE/4 SW/4 W/2 SE/4, SE/4 SE/4 - Section 22

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



I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this welf of this location pursuant to a contract with an owner of such a mineral or whiching interest, or to a voluntary pooling agreement are cognitiony pooling order have hove entered the division.

Signature

Printed Name

LACEY GRANVIII

Date

Printed Name

Lacey.granillo@wpxenergy.com

E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location 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 pest of my belief:

Date Revised: FEBRUARY 4, 2016

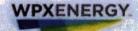
Survey Date: SEPTEMBER 10, 2015

Signature and Seal of Professional Surveyor

C. EDWARDS

Certificate Number

15269



WPX Energy

Operations Plan

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

Date:

April 14, 2016

Field:

Lybrook Mancos W

Well Name:

W Lybrook Unit 729H

IA

SWSW Sec 23 23N-09W

Surface:

6748' GR

SH Location: **BH Location:**

NENE Sec 21 23N-09W

Elevation: Minerals:

Measured Depth: 12,789.56'

I. GEOLOGY

Surface formation - NACIMIENTO

A FORMATION TOPS: (KR)

A. PORIVIATION	101 3. (IND)	Annual of the Control			
NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	307	307	POINT LOOKOUT	3567	3374
KIRTLAND	469	469	MANCOS	3758	3549
PICTURED CLIFFS	1040	1037	GALLUP	4128	3888
LEWIS	1162	1156	KICKOFF POINT	4,091.97	3,854.85
CHACRA	1350	1338	TOP TARGET	5087	4618
CLIFF HOUSE	2552	2445	LANDING POINT	5,314.74	4,659.00
MENEFEE	2570	2462	BASE TARGET	5,314.74	4,659.00
	14 May 1		TD	12,789.56	4,678.00

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 3/" 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"	5,314.74'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5164.74' - 12,789.56	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5164.74'	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: 98 bbls, 278 sks, (548 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/ +/- 209 bbl Drilling mud or water. Total Cement: 157 bbls, 533 sks, (879 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 (747 sx /1016 cuft /181 bbls). Tail Spacer: 20 BBL of
MMCR. Displacement: Displace 'Planned WBD'!w/+/-172 ,bbl Fr Water. Total Cement

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:

- 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:

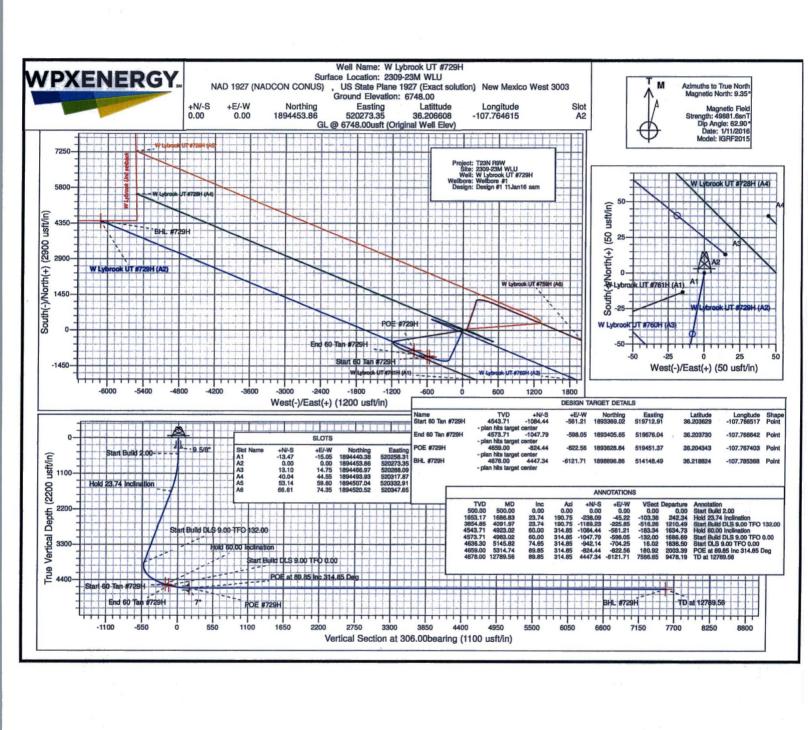
1. <u>Production Tubing:</u> Run 2-7/8", 6.5#, 1-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.

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 2309-23M WLU W Lybrook UT #729H - Slot A2

Wellbore #1

Plan: Design #1 11Jan16 sam

Standard Planning Report

12 January, 2016

WPX

Planning Report

Database: Company: Project: Site:

COMPASS **WPX Energy T23N R9W**

2309-23M WLU W Lybrook UT #729H Wellbore #1

Design #1 11Jan16 sam

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook UT #729H (A2) - Slot A2 GL @ 6748.00usft (Original Well Elev) GL @ 6748.00usft (Original Well Elev)

Minimum Curvature

Design: Project

Well:

Wellbore:

T23N R9W

Map System: Geo Datum:

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

System Datum:

Mean Sea Level

Map Zone:

Site Position:

From:

Well

New Mexico West 3003

Site

2309-23M WLU

Map

Northing: Easting: **Slot Radius:** 1,894,520.52 usft 520,347.65 usft

Latitude: Longitude:

36.206791 -107.764363

Position Uncertainty:

0.00 usft

13.200 in

Grid Convergence:

0.04°

Well Position

W Lybrook UT #729H - Slot A2

+N/-S +E/-W -66.61 usft Northing: -74.35 usft

Easting:

1,894,453.86 usft 520,273.35 usft

9.34

Latitude: Longitude:

36.206608 -107.764615

Position Uncertainty

0.00 usft

Wellhead Elevation:

0.00 usft

Ground Level:

62.90

6,748.00 usft

Wellbore **Magnetics**

Wellbore #1

IGRF2015

Sample Date 1/11/2016 Declination (°)

Dip Angle (°)

Field Strength (nT)

49,882

Design

Design #1 11Jan16 sam

Model Name

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft)

0.00

+N/-S (usft) 0.00

+E/-W (usft) 0.00

Direction (bearing) 306.00

Plan Sections Vertical Build Measured Dogleg Turn Depth Inclination Azimuth +N/-S +E/-W TFO (usft) (bearing) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) **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 1,686.83 23.74 190.75 1,653.17 -238.09 -45.22 2.00 2.00 0.00 190.75 4,091.97 23.74 190.75 3,854.85 -1,189.23 -225.85 0.00 0.00 0.00 0.00 4,923.02 60.00 314.85 4,543.71 -1,084.44 -561.21 9.00 4.36 14.93 132.00 Start 60 Tan #729H 4,983.02 60.00 314.85 4,573.71 -1,047.79 -598.05 0.00 0.00 0.00 0.00 End 60 Tan #729H 5,145.82 74.65 314.85 4,636.30 -942.14 -704.25 9.00 9.00 0.00 0.00 0.00 POE #729H 5,314.74 89.85 314.85 4,659.00 -824.44 -822.56 9.00 9.00 0.00 12,789.56 89.85 314.85 4,678.00 4,447.34 -6,121.71 0.00 0.00 0.00 0.00 BHL #729H

WPX

Planning Report

Database: COMPASS
Company: WPX Energy
Project: T23N R9W
Site: 2309-23M WLU
Well: W Lybrook UT #

Wellbore:

W Lybrook UT #729H Wellbore #1

Design #1 11Jan16 sam

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook UT #729H (A2) - Slot A2 GL @ 6748.00usft (Original Well Elev) GL @ 6748.00usft (Original Well Elev)

True

Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	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	AND DESCRIPTION OF THE PARTY OF								
1,000.00	10.00	190.75	997.47	-42.76	-8.12	-18.56	2.00	2.00	0.00
1,500.00	20.00	190.75	1,479.82	-169.73	-32.23	-73.68	2.00		0.00
1,686.83	23.74	190.75	1,653.17	-238.09	-45.22	-103.36	2.00	2.00	0.00
Hold 23.74 Ir	AND DESCRIPTION OF STREET, SANDERS OF STREET, SANDE								
2,000.00	23.74	190.75	1,939.85	-361.94	-68.74	-157.12	0.00	0.00	0.00
2,500.00	23.74	190.75	2,397.55	-559.67	-106.29	-242.96	0.00	0.00	0.00
3,000.00	23.74	190.75	2,855.25	-757.40	-143.84	-328.79	0.00	0.00	0.00
3,500.00	23.74	190.75	3,312.96	-955.13	-181.39	-414.63	0.00	0.00	0.00
4,000.00	23.74	190.75	3,770.66	-1,152.86	-218.94	-500.47	0.00	0.00	0.00
4,091.97	23.74	190.75	3,854.85	-1,189.23	-225.85	-516.26	0.00	0.00	0.00
The second second second second	LS 9.00 TFO 13								
4,500.00	26.52	286.36	4,237.34	-1,246.22	-332.25	-463.67	9.00	0.68	23.43
4,923.02	60.00	314.85	4,543.71	-1,084.44	-561.21	-183.34	9.00	7.91	6.74
Hold 60.00 In	and the second s								
4,983.02	60.00	314.85	4,573.71	-1,047.79	-598.05	-132.00	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 0.0	10							
5,000.00	61.53	314.85	4,582.00	-1,037.35	-608.55	-117.37	9.00	9.00	0.00
5,145.82	74.65	314.85	4,636.30	-942.14	-704.25	16.02	9.00	9.00	0.00
Start DLS 9.0	0 TFO 0.00								
5,314.74	89.85	314.85	4,659.00	-824.44	-822.56	180.92	9.00	9.00	0.00
POE at 89.85	Inc 314.85 Deg								
5,315.00	89.85	314.85	4,659.00	-824.26	-822.75	181.17	0.00	0.00	0.00
7"									
5,500.00	89.85	314.85	4,659.47	-693.78	-953.90	363.97	0.00	0.00	0.00
6,000.00	89.85	314.85	4,660.74	-341.14	-1,308.37	858.01	0.00	0.00	0.00
6,500.00	89.85	314.85	4,662.01	11.49	-1,662.83	1,352.05	0.00	0.00	0.00
7,000.00	89.85	314.85	4,663.28	364.13	-2,017.30	1,846.09	0.00	0.00	0.00
7,500.00	89.85	314.85	4,664.55	716.76	-2,371.77	2,340.13	0.00	0.00	0.00
8,000.00	89.85	314.85	4,665.83	1,069.40	-2,726.23	2,834.17	0.00	0.00	0.00
8,500.00	89.85	314.85	4,667.10	1,422.03	-3,080.70	3,328.21	0.00	0.00	0.00
9,000.00	89.85	314.85	4,668.37	1,774.67	-3,435.17	3,822.25	0.00	0.00	0.00
9,500.00	89.85	314.85	4,669.64	2,127.31	-3,789.63	4,316.29	0.00	0.00	0.00
10,000.00	89.85	314.85	4,670.91	2,479.94	-4,144.10	4,810.33	0.00	0.00	0.00
10,500.00	89.85	314.85	4,672.18	2,832.58	-4,498.57	5,304.38	0.00	0.00	0.00
11,000.00	89.85	314.85	4,673.45	3,185.21	-4,853.03	5,798.42	0.00	0.00	0.00
11,500.00	89.85	314.85	4,674.72	3,185.21	-4,853.03 -5,207.50	6,292.46	0.00	0.00	0.00
12,000.00	89.85	314.85	4,675.99	3,890.48	-5,561.96	6,786.50	0.00	0.00	0.00
12,500.00	89.85	314.85	4,677.26	4,243.12	-5,916.43	7,280.54	0.00	0.00	0.00
12,789.56	89.85	314.85	4,678.00	4,447.34	-6,121.71	7,566.65	0.00	0.00	0.00
12,700.00	00.00	014.00	4,070.00	7,777.07	0,141.71	7,000.00	0.00	0.00	0.00

WPX

Planning Report

Database: Company: Project:

Wellbore:

Design:

Site:

COMPASS WPX Energy T23N R9W 2309-23M WLU

2309-23M WLU
W Lybrook UT #729H
Wellbore #1
Design #1 11Jan16 sam

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook UT #729H (A2) - Slot A2 GL @ 6748.00usft (Original Well Elev) GL @ 6748.00usft (Original Well Elev)

True

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 Tan #729H - plan hits target ce - Point	0.00 nter	0.00	4,543.71	-1,084.44	-561.21	1,893,369.02	519,712.91	36,203629	-107.766517
End 60 Tan #729H - plan hits target ce - Point	0.00 nter	0.00	4,573.71	-1,047.79	-598.05	1,893,405.65	519,676.04	36.203730	-107.766642
POE #729H - plan hits target cei - Point	0.00 nter	0.00	4,659.00	-824.44	-822.56	1,893,628.84	519,451.37	36.204343	-107.767403
BHL #729H - plan hits target cer - Point	0.00 nter	0.00	4,678.00	4,447.34	-6,121.71	1,898,896.86	514,148.49	36.218824	-107.785369

asing Points						
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)
	320.00	320.00	9 5/8"		9,625	12.250
	5,315.00	4,659.00	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	
1,686.83	1,653.17	-238.09	-45.22	Hold 23.74 Inclination	
4,091.97	3,854.85	-1,189.23	-225.85	Start Build DLS 9.00 TFO 132.00	
4,923.02	4,543.71	-1,084.44	-561.21	Hold 60.00 Inclination	
4,983.02	4,573.71	-1,047.79	-598.05	Start Build DLS 9.00 TFO 0.00	
5,145.82	4,636.30	-942.14	-704.25	Start DLS 9.00 TFO 0.00	
5,314.74	4,659.00	-824.44	-822.56	POE at 89.85 Inc 314.85 Deg	
12,789,56	4,678.00	4,447.34	-6,121.71	TD at 12789.56	

1000

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

1. Portable toilets will be provided and maintained during construction, as needed (see Figures 4 and 5 in Appendix B for the location of toilets).

E. Garbage and other water material

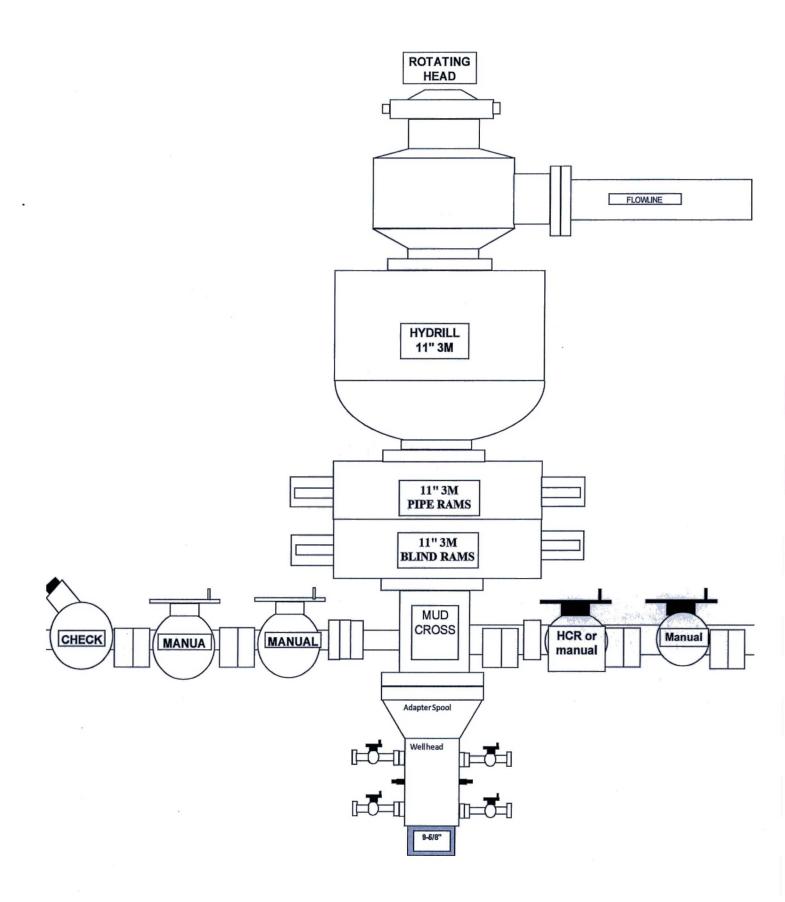
1. All garbage and trash will be placed in a metal trash basket. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed.

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.
- 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.

G. Produced Water:

- WPX Energy will dispose of produced water from this well at one of the following facilities:
 - a. 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
 - b. 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
 North, Range 11 West
 - d. 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.



<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #729H 534' FSL & 553' FWL, Section 23, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.206621°N Longitude: 107.765229°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 WPX W Lybrook Unit #720H proposed access on right-hand side of County Road #7890;

Go Right (Westerly) exiting County Road #7890 following along WPX W Lybrook Unit #720H proposed access for 3123.1' to fork in proposed access;

Go Left (Westerly) which is straight, continuing for 4605.4' to staked WPX W Lybrook Unit #729H location.