State of New Mexico
Energy, Minerals and Natural Resources Department

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: 11/3/2016
Well information;
Operator WPX, Well Name and Number W Lybrook Unit 714H

API# 30-045-35802, Section 13, Township 23 (N)/S, Range 9 E/(W)

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
- o Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- o 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
- o 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.

Charlie Perrin — 2-14-2017

NMOCD Approved by Signature — Date

1220 South St. Francis Drive • Santa Fe, New Mexico 87505
Phone (505) 476-3441 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd

15

Kessee - WPX
mat 4/27/16

NOS: ______
APOP: ______
MP: ______
SMA: ______
BOND: ______
CA/PA: ______

1040007282

Form 3160-3
(March 2012)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. N0G14011878

6. If Indian, Allotee or Tribe Name: EASTERN NAVAJO

7. If Unit or CA Agreement, Name and No.: WEST LYBROOK UNIT / NMNM135216X

1a. Type of work: ☑ DRILL ☐ REENTER

8. Lease Name and Well No.: W LYBROOK UT 714H

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☑ Multiple Zone

2. Name of Operator: WPX ENERGY LLC

9. API Well No.: 30-045-35802

3a. Address: 720 S Main Aztec NM 87410

3b. Phone No. *(include area code)*: (505)333-1822

10. Field and Pool, or Exploratory: LYBROOK MANCOS W / LYBROOK MA

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface F SENW / 2036 FNL / 2492 FWL / LAT 36.228616 / LONG -107.740812
At proposed prod. zone K NESW / 2302 FSL / 1829 FWL / LAT 36.240476 / LONG -107.760897

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 13 / T23N / R9W / NMP

14. Distance in miles and direction from nearest town or post office*: 37.8 miles

12. County or Parish: SAN JUAN

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 20 feet

16. No. of acres in lease: 160

17. Spacing Unit dedicated to this well: 360

OIL CONS. DIV DIST. 3

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 2036 feet

R

19. Proposed Depth: 4760 feet / 12630 feet

20. BLM/BIA Bond No. on file: IND: B001576

JAN 31 2017

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 6700 feet

22. Approximate date work will start*: 12/01/2016

23. Estimated duration: 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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature: (Electronic Submission)
Name *(Printed/Typed)*: Lacey Granillo / Ph: (505)333-1816
Date: 11/03/2016

Title: Permitting Tech III

Approved by *(Signature)*: [signature] Manke[...]
Name *(Printed/Typed)*:
Date: 1/27/17

Title: AFM
Office: FARMINGTON

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)

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

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

NMOCD AV

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 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

OIL CONS. DIV DIST. 3

FEB 06 2017

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-045-35802	98157	LYBROOK MANCOS W

4 Property Code	5 Property Name	6 Well Number
315250	W LYBROOK UNIT	714H

7 OGRID No.	8 Operator Name	9 Elevation
120782	WPX ENERGY PRODUCTION, LLC	6700'

10 Surface Location

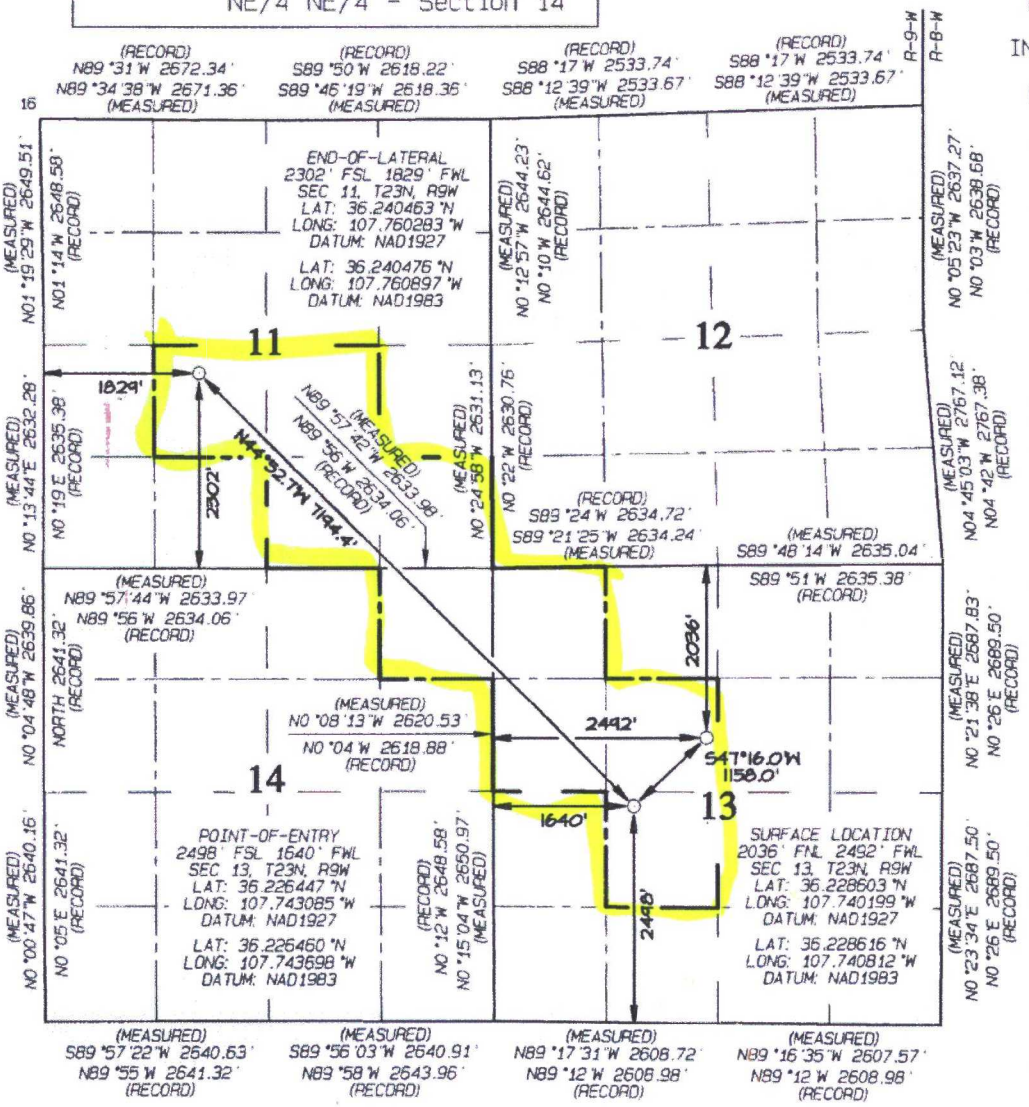
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	13	23N	9W		2036	NORTH	2492	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	11	23N	9W		2302	SOUTH	1829	WEST	SAN JUAN

12 Dedicated Acres		13 Joint or Infill	14 Consolidation Code	15 Order No.
360.00	NE/4 SW/4, W/2 SE/4 SE/4 SE/4 - Section 11 W/2 NW/4, SE/4 NW/4 NE/4 SW/4 - Section 13 NE/4 NE/4 - Section 14			R-14051 - 12,807.24 Acres

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



17 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 unleased mineral interest in the land including the proposed bottom-hole location or has 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 heretofore entered by the division.

10/31/16

Signature Date

Lacey Granillo

Printed Name

lacey.granillo@wpxenergy.com

E-mail Address

18 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 24, 2016
Survey Date: OCTOBER 23, 2015

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS

Certificate Number 15269

WPX Energy

Operations Plan

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

Date:	November 3, 2016	**Field:**	Lybrook Mancos W
Well Name:	W Lybrook Unit # 714H	**Surface:**	
SH Location:	SENW Sec 13 23N-09W	**Elevation:**	6700' GR
BH Location:	NESW Sec 11 23N-09W	**Minerals:**	

Measured Depth: 12,629.85'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	427.00	427.00	POINT LOOKOUT	3,695.00	3,494.00
KIRTLAND	589.00	589.00	MANCOS	3,889.00	3,669.00
PICTURED CLIFFS	1,158.00	1,157.00	GALLUP	4,261.00	4,008.00
LEWIS	1,243.00	1,241.00	KICKOFF POINT	4,160.18	3,914.66
CHACRA	1,465.00	1,458.00	TOP TARGET	5,329.00	4,738.00
CLIFF HOUSE	2,668.00	2,565.00	LANDING POINT	5,435.45	4,747.00
MENEFEE	2,687.00	2,582.00	BASE TARGET	5,435.45	4,747.00
			TD	12,629.85	4,760.00

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 ¾" 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"	5,435.45'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5285.45' - 12,629.85'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf. - 5285.45'	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 utilized 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 opened 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: 101 bbls, 288 sks, (568 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/ +/- 214 bbl Drilling mud or water. Total Cement: 160 bbls, 543 sks, (899 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 (720 sx /979 cuft /174 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-169bbl Fr Water. Total Cement (720 sx /979bbls).

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. *Production Tubing:* 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
2309-13F WLU
W Lybrook UT #714H - Slot A6

Wellbore #1

Plan: Design #1 26Sept16 sam

Standard Planning Report

26 September, 2016

WPX
Planning Report

Database:	COMPASS	**Local Co-ordinate Reference:**	Well W Lybrook UT #714H (A6) - Slot A6
Company:	WPX Energy	**TVD Reference:**	GL @ 6700.00usft (Original Well Elev)
Project:	T23N R9W	**MD Reference:**	GL @ 6700.00usft (Original Well Elev)
Site:	2309-13F WLU	**North Reference:**	True
Well:	W Lybrook UT #714H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 26Sept16 sam		

Project	T23N R9W		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	2309-13F WLU				
Site Position:		**Northing:**	1,902,559.83 usft	**Latitude:**	36.228860
From:	Map	**Easting:**	527,432.82 usft	**Longitude:**	-107.740321
Position Uncertainty:	0.00 usft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.05 °

Well	W Lybrook UT #714H - Slot A6					
Well Position	**+N/-S**	-93.55 usft	**Northing:**	1,902,466.31 usft	**Latitude:**	36.228603
	+E/-W	35.98 usft	**Easting:**	527,468.89 usft	**Longitude:**	-107.740199
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	6,700.00 usft

Wellbore	Wellbore #1			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	4/25/2016	9.31	62.92	49,867

Design	Design #1 26Sept16 sam			
Audit Notes:				
Version:	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (bearing)**
	0.00	0.00	0.00	306.09

Plan Sections

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	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,012.04	25.24	190.85	1,971.62	-268.63	-51.47	2.00	2.00	0.00	190.85	
4,160.18	25.24	190.85	3,914.66	-1,168.29	-223.85	0.00	0.00	0.00	0.00	
5,003.27	60.00	315.18	4,611.71	-1,071.28	-566.64	9.00	4.12	14.75	132.49	Start 60 Tan #714H
5,103.27	60.00	315.18	4,661.71	-1,009.85	-627.69	0.00	0.00	0.00	0.00	End 60 Tan #714H
5,266.61	74.70	315.18	4,724.44	-903.22	-733.66	9.00	9.00	0.00	0.00	
5,435.45	89.90	315.18	4,747.00	-784.89	-851.25	9.00	9.00	0.00	-0.01	POE #714H
12,629.85	89.90	315.18	4,760.00	4,317.93	-5,922.77	0.00	0.00	0.00	0.00	BHL #714H

Database:	COMPASS	**Local Co-ordinate Reference:**	Well W Lybrook UT #714H (A6) - Slot A6
Company:	WPX Energy	**TVD Reference:**	GL @ 6700.00usft (Original Well Elev)
Project:	T23N R9W	**MD Reference:**	GL @ 6700.00usft (Original Well Elev)
Site:	2309-13F WLU	**North Reference:**	True
Well:	W Lybrook UT #714H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 26Sept16 sam		

Planned Survey

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
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,000.00	5.00	190.85	999.68	-10.71	-2.05	-4.65	2.00	2.00	0.00
1,500.00	15.00	190.85	1,491.46	-95.87	-18.37	-41.64	2.00	2.00	0.00
2,000.00	25.00	190.85	1,960.71	-263.61	-50.51	-114.48	2.00	2.00	0.00
2,012.04	25.24	190.85	1,971.61	-268.63	-51.47	-116.66	2.00	2.00	0.00
Hold 25.24 Inclination									
2,500.00	25.24	190.85	2,412.98	-472.99	-90.63	-205.41	0.00	0.00	0.00
3,000.00	25.24	190.85	2,865.25	-682.40	-130.75	-296.35	0.00	0.00	0.00
3,500.00	25.24	190.85	3,317.51	-891.80	-170.87	-387.29	0.00	0.00	0.00
4,000.00	25.24	190.85	3,769.77	-1,101.20	-210.99	-478.23	0.00	0.00	0.00
4,160.18	25.24	190.85	3,914.66	-1,168.29	-223.85	-507.36	0.00	0.00	0.00
Start Build DLS 9.00 TFO 132.49									
4,500.00	22.30	272.32	4,233.15	-1,238.51	-303.80	-484.13	9.00	-0.87	23.97
5,000.00	59.73	315.05	4,610.07	-1,073.28	-564.64	-176.01	9.00	7.49	8.55
5,003.27	60.00	315.18	4,611.71	-1,071.28	-566.64	-173.22	9.00	8.38	3.78
Hold 60.00 Inclination									
5,103.27	60.00	315.18	4,661.71	-1,009.85	-627.69	-87.70	0.00	0.00	0.00
Start Build DLS 9.00 TFO 0.00									
5,266.61	74.70	315.18	4,724.44	-903.22	-733.66	60.75	9.00	9.00	0.00
Start DLS 9.00 TFO -0.01									
5,435.00	89.86	315.18	4,747.00	-785.21	-850.94	225.03	9.00	9.00	0.00
7"									
5,435.45	89.90	315.18	4,747.00	-784.89	-851.25	225.48	9.00	9.00	0.00
POE at 89.90 Inc 315.18 Deg									
5,500.00	89.90	315.18	4,747.12	-739.11	-896.76	289.22	0.00	0.00	0.00
6,000.00	89.90	315.18	4,748.02	-384.47	-1,249.22	782.95	0.00	0.00	0.00
6,500.00	89.90	315.18	4,748.92	-29.83	-1,601.68	1,276.68	0.00	0.00	0.00
7,000.00	89.90	315.18	4,749.83	324.81	-1,954.15	1,770.41	0.00	0.00	0.00
7,500.00	89.90	315.18	4,750.73	679.45	-2,306.61	2,264.14	0.00	0.00	0.00
8,000.00	89.90	315.18	4,751.63	1,034.08	-2,659.07	2,757.87	0.00	0.00	0.00
8,500.00	89.90	315.18	4,752.54	1,388.72	-3,011.54	3,251.60	0.00	0.00	0.00
9,000.00	89.90	315.18	4,753.44	1,743.36	-3,364.00	3,745.32	0.00	0.00	0.00
9,500.00	89.90	315.18	4,754.34	2,098.00	-3,716.46	4,239.05	0.00	0.00	0.00
10,000.00	89.90	315.18	4,755.25	2,452.64	-4,068.93	4,732.78	0.00	0.00	0.00
10,500.00	89.90	315.18	4,756.15	2,807.28	-4,421.39	5,226.51	0.00	0.00	0.00
11,000.00	89.90	315.18	4,757.06	3,161.92	-4,773.85	5,720.24	0.00	0.00	0.00
11,500.00	89.90	315.18	4,757.96	3,516.56	-5,126.32	6,213.97	0.00	0.00	0.00
12,000.00	89.90	315.18	4,758.86	3,871.20	-5,478.78	6,707.70	0.00	0.00	0.00
12,500.00	89.90	315.18	4,759.77	4,225.84	-5,831.24	7,201.43	0.00	0.00	0.00
12,629.85	89.90	315.18	4,760.00	4,317.93	-5,922.77	7,329.65	0.00	0.00	0.00
TD at 12629.85									

Database:	COMPASS	**Local Co-ordinate Reference:**	Well W Lybrook UT #714H (A6) - Slot A6
Company:	WPX Energy	**TVD Reference:**	GL @ 6700.00usft (Original Well Elev)
Project:	T23N R9W	**MD Reference:**	GL @ 6700.00usft (Original Well Elev)
Site:	2309-13F WLU	**North Reference:**	True
Well:	W Lybrook UT #714H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 26Sept16 sam		

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 #714H - plan hits target center - Point	0.00	0.00	4,611.71	-1,071.28	-566.64	1,901,394.49	526,903.28	36.225660	-107.742120
End 60 Tan #714H - plan misses target center by 0.01usft at 5103.27usft MD (4661.71 TVD, -1009.85 N, -627.69 E) - Point	0.00	0.00	4,661.71	-1,009.85	-627.68	1,901,455.86	526,842.18	36.225829	-107.742327
POE #714H - plan hits target center - Point	0.00	0.00	4,747.00	-784.89	-851.25	1,901,680.60	526,618.39	36.226447	-107.743085
BHL #714H - plan hits target center - Point	0.00	0.00	4,760.00	4,317.93	-5,922.77	1,906,778.55	521,541.97	36.240463	-107.760284

Casing 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
5,435.00	4,747.00	7"	7.000	8.750

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
750.00	750.00	0.00	0.00	Start Build 2.00
2,012.04	1,971.61	-268.63	-51.47	Hold 25.24 Inclination
4,160.18	3,914.66	-1,168.29	-223.85	Start Build DLS 9.00 TFO 132.49
5,003.27	4,611.71	-1,071.28	-566.64	Hold 60.00 Inclination
5,103.27	4,661.71	-1,009.85	-627.69	Start Build DLS 9.00 TFO 0.00
5,266.61	4,724.44	-903.22	-733.66	Start DLS 9.00 TFO -0.01
5,435.45	4,747.00	-784.89	-851.25	POE at 89.90 Inc 315.18 Deg
12,629.85	4,760.00	4,317.93	-5,922.77	TD at 12629.85

WPXENERGY

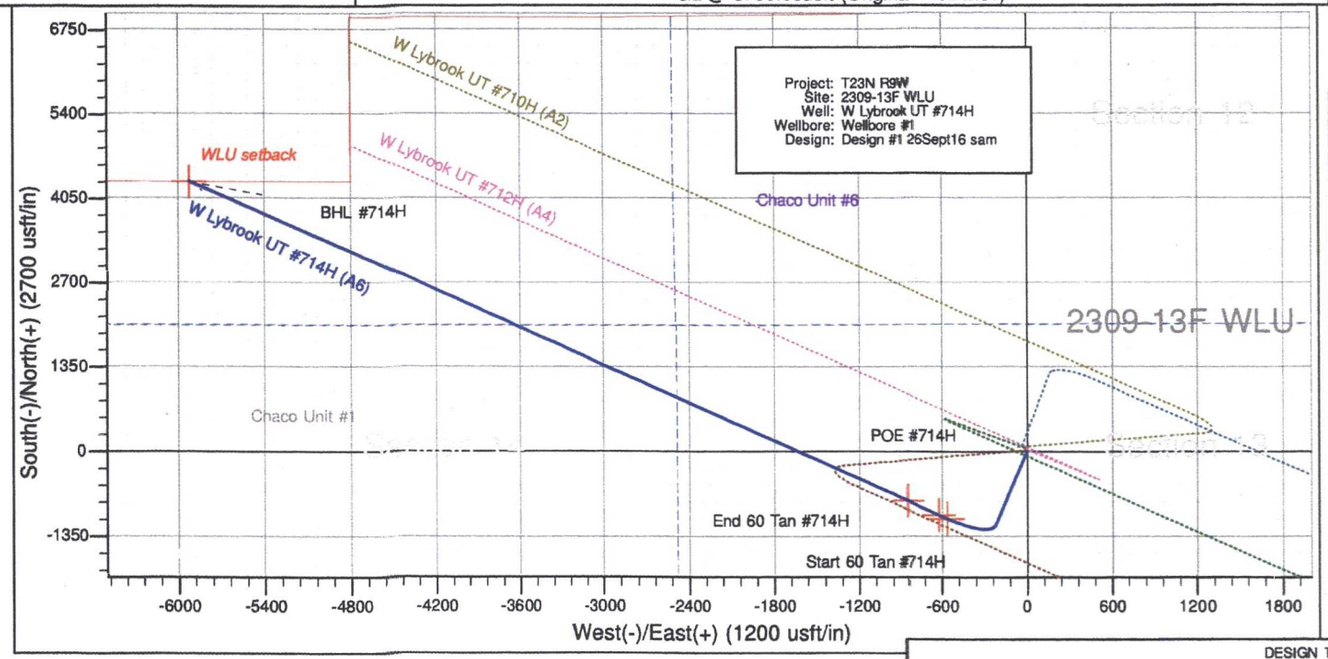
Well Name: W Lybrook UT #714H
Surface Location: 2309-13F WLU
NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New M ico West 3003
Ground Elevation: 6700.00

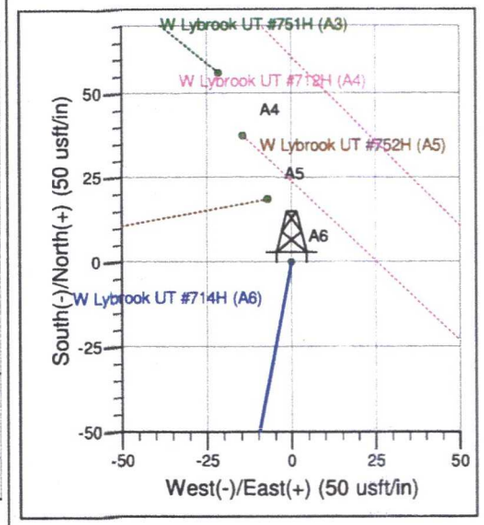
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1902466.31	527468.89	36.228603	-107.740199	A6

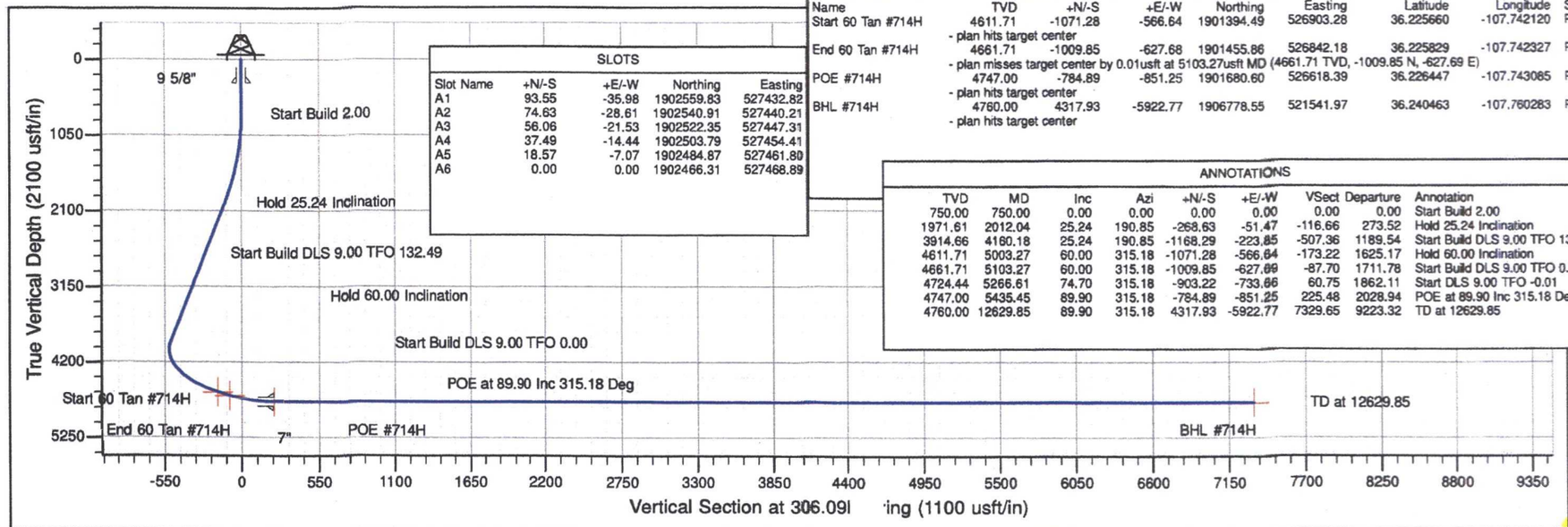
GL @ 6700.00usft (Original Well Elev)

Azimuths to True North
Magnetic North: 9.31°

Magnetic Field
Strength: 49867.2snT
Dip Angle: 62.92°
Date: 4/25/2016
Model: IGRF2015







SLOTS

Slot Name	+N/-S	+E/-W	Northing	Easting
A1	93.55	-35.98	1902559.83	527432.82
A2	74.63	-28.61	1902540.91	527440.21
A3	56.06	-21.53	1902522.35	527447.31
A4	37.49	-14.44	1902503.79	527454.41
A5	18.57	-7.07	1902484.87	527461.80
A6	0.00	0.00	1902466.31	527468.89

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Start 60 Tan #714H	4611.71	-1071.28	-566.64	1901394.49	526903.28	36.225660	-107.742120	Point
	- plan hits target center							
End 60 Tan #714H	4661.71	-1009.85	-627.68	1901455.86	526842.18	36.225829	-107.742327	Point
	- plan misses target center by 0.01usft at 5103.27usft MD (4661.71 TVD, -1009.85 N, -627.69 E)							
POE #714H	4747.00	-784.89	-851.25	1901680.60	526618.39	36.226447	-107.743085	Point
	- plan hits target center							
BHL #714H	4760.00	4317.93	-5922.77	1906778.55	521541.97	36.240463	-107.760283	Point
	- plan hits target center							

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
750.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1971.61	2012.04	25.24	190.85	-268.63	-51.47	-116.66	273.52	Hold 25.24 Inclination
3914.66	4160.18	25.24	190.85	-1168.29	-223.85	-507.36	1189.54	Start Build DLS 9.00 TFO 132.49
4611.71	5003.27	60.00	315.18	-1071.28	-566.64	-173.22	1625.17	Hold 60.00 Inclination
4661.71	5103.27	60.00	315.18	-1009.85	-627.69	-87.70	1711.78	Start Build DLS 9.00 TFO 0.00
4724.44	5266.61	74.70	315.18	-903.22	-733.66	60.75	1862.11	Start DLS 9.00 TFO -0.01
4747.00	5435.45	89.90	315.18	-784.89	-851.25	225.48	2028.94	POE at 89.90 Inc 315.18 Deg
4760.00	12629.85	89.90	315.18	4317.93	-5922.77	7329.65	9223.32	TD at 12629.85

(Lat/Long) is recorded and full drill log report is completed and filed with WPX. The bed will not be energized for a minimum of 45 days.

After the completion phases and pipeline installation, portions of the project area not needed for operation will be reclaimed. When the wells are plugged, final reclamation will occur within the remainder of the project area. Reclamation is described in detail in the Surface Use Reclamation Plan (Appendix A).

7. METHODS FOR HANDLING WASTE

A. Cuttings
   1 Drilling operations will utilize a closed-loop system. Drilling of the horizontal laterals will be accomplished with water-based mud. All cuttings will be placed in roll-off bins and hauled to a commercial disposal facility or land farm. WPX will follow Onshore Oil and Gas Order No. 1 regarding the placement, operation, and removal of closed-loop systems. No blow pit will be used.
   2 Closed-loop tanks will be adequately sized for containment of all fluids.

B. Drilling Fluids
   1 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.

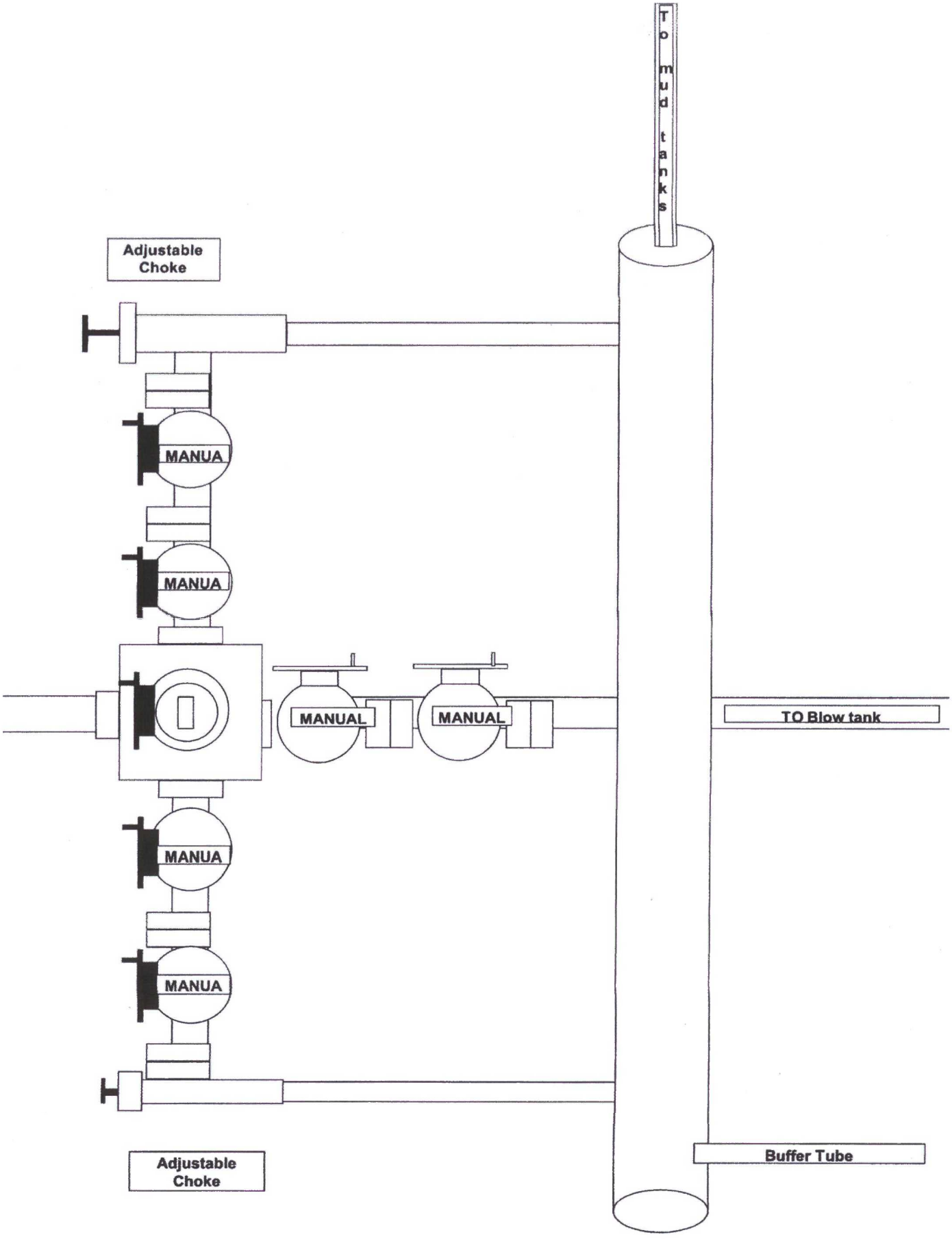
C. Spills
   1 Any spills of non-freshwater fluids will be immediately cleaned up and removed to an approved disposal site.

D. Sewage
   1 Portable toilets will be provided and maintained during construction, as needed (see Figures 3, 4, 6 and 7 in Appendix B for the location of toilets per wellpad).

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

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

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


To mud tacks
Adjustable Choke
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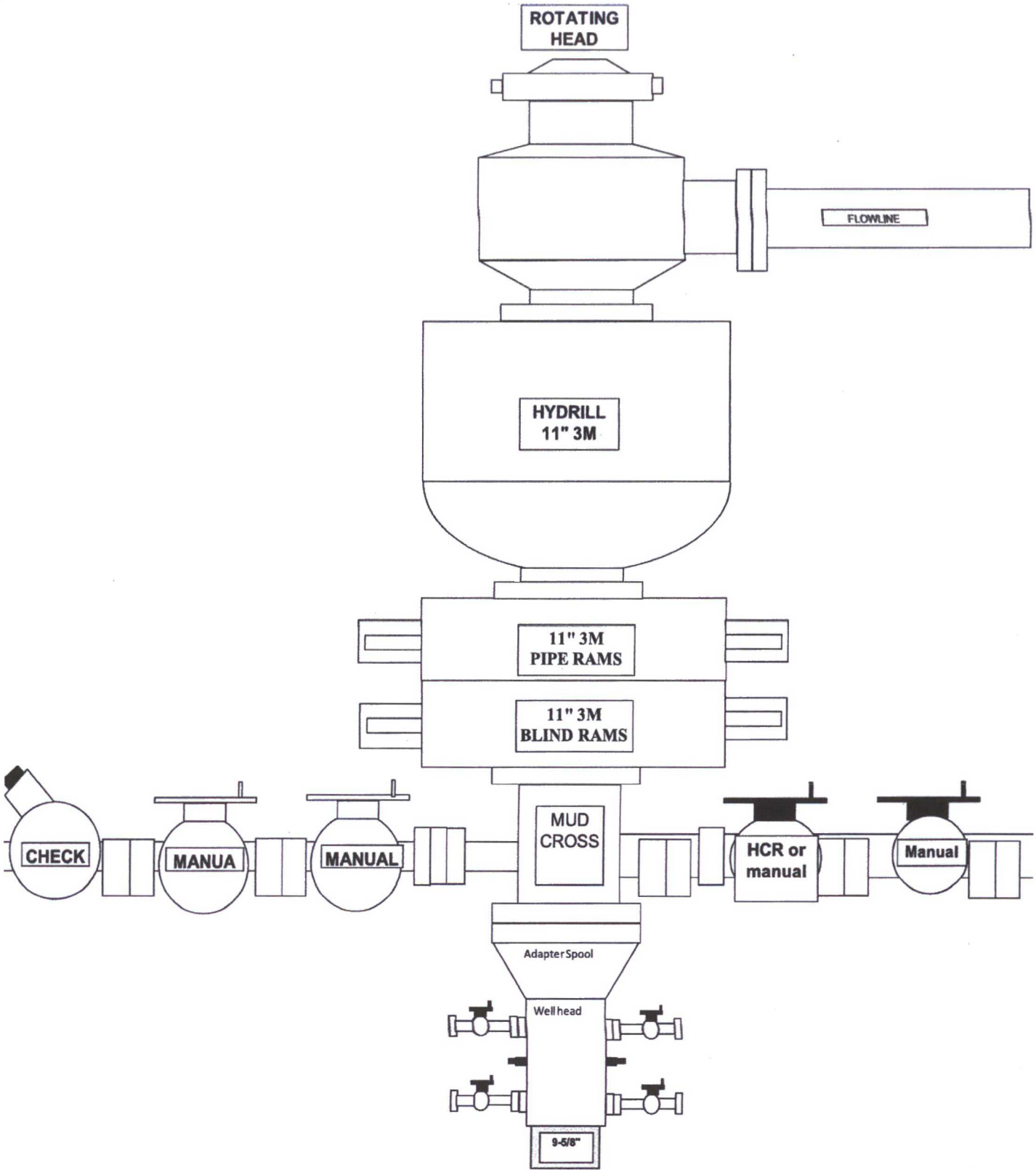
Adjustable Choke


ROTATING HEAD
FLOWLINE
HYDRILL 11" 3M
11" 3M PIPE RAMS
11" 3M BLIND RAMS
CHECK
MANUA
MANUAL
MUD CROSS
HCR or manual
Manual
Adapter Spool
Well head
9-5/8"

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

in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #714H

2036' FNL & 2492' FWL, Section 13, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.228616°N Longitude: 107.740812°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 begin access on right-hand side of roadway;

Go Right (North-westerly) continuing for 5799.2' to staked WPX W Lybrook Unit #714H location.