State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

Ken McQueen Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



Matthias Sayer Deputy Cabinet Secretary

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.

	for Signature Date: 6/15/20/6
Operat	or well Name and Number 10 Lybrook Unit 712H
API#_	30-045-35776, Section 13, Township 33 N/S, Range 9 H/W
Condi	tions of Approval: (See the below checked and handwritten conditions) Notify Aztec OCD 24hrs prior to casing & cement.
X	Hold C-104 for directional survey & "As Drilled" Plat
X	Hold C-104 for NSL, NSP, DHC
0	Spacing rule violation. Operator must follow up with change of status notification on other well 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.
Ci	Inh Kom 2-14-2017
NMO	CD 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

Form 3160 -3				FORM	APPROVED)
(March 2012)				OMB N	No. 1004-0137 October 31, 20	1
UNITED STATES DEPARTMENT OF THE I	NTERIOR			5. Lease Serial No. NOG13121856	21,20	
BUREAU OF LAND MAN				6. If Indian, Allotee	or Tribe N	ame
APPLICATION FOR PERMIT TO	DRILL O	R REENTER		WESTERN NAVA	JO	
la. Type of work:	ER			7 If Unit or CA Agre	-1352	
lb. Type of Well: Oil Well Gas Well Other	S	ingle Zone Multi	ple Zone	8. Lease Name and W LYBROOK UT /		
Name of Operator WPX ENERGY LLC				9. API Well No.	5-2	35776
3a. Address 720 S MAIN AZTEC NM 87410	3b. Phone N (505)333-	0. (include area code) 1822		10. Field and Pool, or LYBROOK MANC	Exploratory	
4. Location of Well (Report location clearly and in accordance with an At surface LOT 0 / 1999 FNL / 2478 FWL / LAT 36.2287 At proposed prod. zone LOT 0 / 2385 FNL / 2291 FEL / LAT	19 / LONG	-107.740861	103	11. Sec., T. R. M. or B SEC 13 / T23N / R		•
14. Distance in miles and direction from nearest town or post office*				12. County or Parish SAN JUAN	1	13. State
15. Distance from proposed* location to nearest 20 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of 160	acres in lease	17. Spacin	g Unit dedicated to this		S. DIV DIST.
 Distance from proposed location* to nearest well, drilling, completed, 1999 feet applied for, on this lease, ft. 	19. Propose 4780 feet	d Depth / 12086 feet	20. BLM/I IND: B0	DIA BOILD NO. OIL THE		31 2017
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6700 feet	22. Approx 07/01/20	imate date work will sta	rt*	23. Estimated duration 30 days	n	
	24. Atta	chments				
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, must be a	ttached to the	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	Item 20 above). 5. Operator certifie	cation	ns unless covered by an		,
25. Signature (Electronic Submission)		(Printed/Typed) y Granillo / Ph: (50	5)333-1810	6	Date 06/15/20	016

Permitting Tech III

Approved by (Signature)

Title

conduct operations thereon. Conditions of approval, if any, are attached.

Name (Printed/Typed)

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

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)

Date

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

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





District I 1625 N. French Drive, Hobbs, NM 68240 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 South St. Francis Drive 1220 Santa Fe, NM 87505

Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

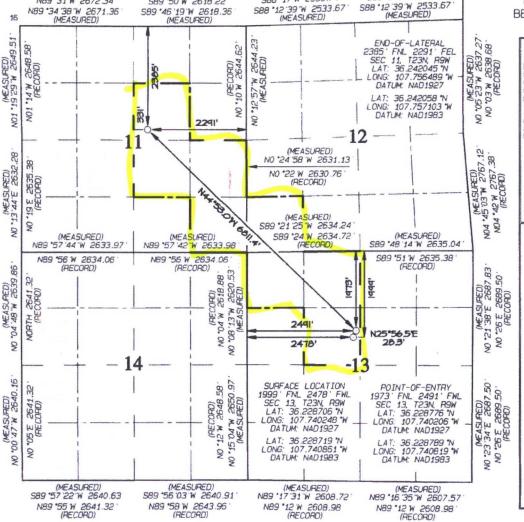
AMENDED REPORT OIL CONS. DIV DIST. 3

FEB 0 6 2017

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-35	API Numbe 776	٢	91	*Pool Coo 8157	de	L	Pool Nam YBROOK MAN		
Property 315250	Code				Property W LYBRO	Service of the servic		* h	ell Number 712H
'0GRID 12078				WPX	*Operator ENERGY PR		*Elevation 6700 '		
					10 Surface	Location			2
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		1999	NORTH	2478	WEST	SAN JUAN
		1	1 Botto	m Hole	Location I	f Different	From Surfac	е	
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	11	23N	9W		2385	NORTH	2291	EAST	SAN JUAN
Dedicated Acres 320.0	SE/4	SW/4 NE, SE/4	Sect:	ion 11	13 Joint or Infill	¹⁴ Consolidation Code	* Order No. R-14051	- 12,807	.24 Acres
	SW/4	SW/4	- Sect:	ion 12					

N/2 NW/4, SE/4 NW/4 - Section 13 NO ALLOWABLE WILL BE ASSIGNED (RECORD) 588 17 W 2533.74 TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED (RECORD) S88 *17 W 2533.74 (RECORD) NB9 *31 W 2672.34 ' NB9 *34 '38 'W 2671.36 (MEASURED) (RECORD) 589 *50 W 2618.22 589 *46 '19 W 2618.36 (MEASURED) OR A NON-STANDARD UNIT HAS S88 12 39 W 2533.67 S88 12 39 W 2533.67 (MEASURED) BEEN APPROVED BY THE DIVISION (MEASURED) OPERATOR CERTIFICATION



"OPEHATOR CEHITFICATION
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 awner of such a mineral
on working interest of to a voluntary pooling
agreement or a compulsory spoing order
hersborde entered to the division.

6/16/16 6/16/16 Date Lacey Granill Printed Name lacey.granillo@wpxenergy.com 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: MAY 9, 2016 Survey Date: OCTOBER 23, 2015

Signature and Seal of Professional Surveyor



ASON DWARDS 15269 Certificate Number



OIL CONS. DIV DIST. 3 FEB 0 8 2017

WPX Energy

Operations Plan

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

Date:

June 16, 2016

Field:

Lybrook Mancos W

Well Name:

W Lybrook Unit #712H

Surface:

SH Location:

SENW Sec 13-23N-09W

Elevation: 6700' GR

BH Location:

SWNE Sec 11-23N-09W

Minerals:

Measured Depth: 12,086.08'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (KB)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	452	452	POINT LOOKOUT	3592	3519
KIRTLAND	614	614	MANCOS	3774	3694
PICTURED CLIFFS	1182	1182	GALLUP	4123	4033
LEWIS	1266	1266	KICKOFF POINT	4,005.99	3,917.93
CHACRA	1485	1483	TOP TARGET	5168	4763
CLIFF HOUSE	2630	2590	LANDING POINT	5,274.71	4,772.00
MENEFEE	2647	2607	BASE TARGET	5,274.71	4,772.00
			TD	12,086.08	4,780.00

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. <u>BOP TESTING:</u> 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 PROG	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
CASING TYPE	12.25"	320.00'	9.625"	36 LBS	J-55 or equiv	STC
SURFACE	8.75"	5,274.71'	7"	23 LBS	J-55 or equiv	LTC
INTERMEDIATE	6.125"	5124.71' - 12,086.08'	4.5"	11.6 LBS	P-110 or equiv	LTC
PRODUCTION	6.125"	Surf 5124.71'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIF BACK						

B. FLOAT EQUIPMI 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.

(Note: Volumes may be adjusted onsite due to actual conditions)

C. CEMENT:

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: 96 bbls, 275 sks, (542 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/ +/- 208 bbl Drilling mud or water. Total Cement: 155 bbls, 529 sks, (872 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 (682 sx /927 cuft /165 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-161bbl Fr Water. Total Cement (682 sx /927bbls).

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 entirely within applicable the 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)

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 #712H - Slot A4

Wellbore #1

OLL CONS. DIV DIST. 3
FEB 0 6 2017

Plan: Design #1 4May16 sam

Standard Planning Report

04 May, 2016

WPX

Planning Report

Database: COMPASS Company: WPX Energy T23N R9W Project: Site: 2309-13F WLU Well: W Lybrook UT #712H Wellbore: Wellbore #1 Design #1 4May16 sam Design:

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

Well W Lybrook UT #712H (A4) - Slot A4 GL @ 6700.00usft (Original Well Elev) GL @ 6700.00usft (Original Well Elev) True

Minimum Curvature

Project

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 2309-13F WLU

Site Position:

Мар

T23N R9W

Northing: Easting: Slot Radius: 1,902,559.83 usft 527,432.82 usft 13.200 in Latitude: Longitude:

36.228860 -107.740321 0.05°

Position Uncertainty:

0.00 usft

Grid Convergence:

Well W Lybrook UT #712H - Slot A4

Well Position

+N/-S +E/-W -56.06 usft 21.54 usft Northing: Easting:

1,902,503.79 usft 527,454.41 usft Latitude: Longitude:

36.228706 -107.740248

Position Uncertainty

0.00 usft

Wellhead Elevation:

0.00 usft

Ground Level:

6,700.00 usft

Wellbore	Wellbore #1	The Land Section 1997 and the Committee of the Committee			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/25/2016	9.31	62.92	49,867

Design	Design #1 4May16 sam			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(bearing)
Party Charles and	0.00	0.00	0.00	315.40

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	
1,762.93	15.26	133.30	1,753.95	-69.27	73.49	2.00	2.00	0.00	133.30	
4,005.99	15.26	133.30	3,917.93	-474.15	503.08	0.00	0.00	0.00	0.00	i
4,842.12	60.00	315.17	4,636.71	-261.33	297.46	9.00	5.35	-21.30	-178.33	Start 60 tan #712
4,942.12	60.00	315.17	4,686.71	-199.91	236.41	0.00	0.00	0.00	0.00	End 60 tan #712h
5,111.52	75.25	315.17	4,751.01	-89.14	126.30	9.00	9.00	0.00	0.00	
5,274.71	89.93	315.17	4,772.00	25.32	12.52	9.00	9.00	0.00	0.00	POE #712H
12,086.08	89.93	315.17	4.780.00	4.856.15	-4.789.33	0.00	0.00	0.00	0.00	BHL #712H

WPX

Planning Report

Database: Company: Project:

Site:

COMPASS WPX Energy T23N R9W 2309-13F WLU

Well: V
Wellbore: V

2309-13F WLU W Lybrook UT #712H Wellbore #1

Design: Design #1 4May16 sam

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook UT #712H (A4) - Slot A4

GL @ 6700.00usft (Original Well Elev) GL @ 6700.00usft (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
320.00 9 5/8"	0.00	0.00	320.00	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
1,000.00		0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build	1 2.00								
1,500.00	10.00	133.30	1,497.47	-29.85	31.67	-43.49	2.00	2.00	0.00
1,762.93	15.26	133.30	1,753.95	-69.27	73.49	-100.92	2.00	2.00	0.00
	Inclination								
2,000.00		133.30	1,982.66	-112.06	118.90	-163.27	0.00	0.00	0.00
2,500.00		133.30	2,465.03	-202.31	214.65	-294.77	0.00	0.00	0.00
3,000.00		133.30	2,947.40	-292.57	310.41	-426.27	0.00	0.00	0.00
3,500.00		133.30	3,429.78	-382.82	406.17	-557.77	0.00	0.00	0.00
4,000.00		133.30 133.30	3,912.15 3,917.93	-473.07 -474.15	501.93 503.08	-689.27 -690.85	0.00	0.00	0.00
	15.26 I DLS 9.00 TFO -17		3,917.93	-4/4.15	503.08	-690.85	0.00	0.00	0.00
4,500.00		315.70	4,396.06	-430.23	464.23	-632.30	9.00	2.82	-35.95
4,842.12		315.17	4,636.71	-261.33	297.46	-394.94	9.00	9.00	-0.16
Hold 60.00	Inclination								
4,942.12		315.17	4,686.71	-199.91	236.41	-308.34	0.00	0.00	0.00
Start Build	DLS 9.00 TFO 0.0	0							
5,000.00	65.21	315.17	4,713.33	-163.47	200.19	-256.96	9.00	9.00	0.00
5,111.52	75.25	315.17	4,751.01	-89.14	126.30	-152.15	9.00	9.00	0.00
	9.00 TFO 0.00								
5,274.71		315.17	4,772.00	25.32	12.52	9.23	9.00	9.00	0.00
	93 Inc 315.17 Deg	045.47	4 770 00	05.50	40.00				
5,275.00 7"	89.93	315.17	4,772.00	25.52	12.32	9.52	0.00	0.00	0.00
5,500.00	89.93	315.17	4,772.26	185.10	-146.30	234.52	0.00	0.00	0.00
6,000.00	89.93	315.17	4.772.85	539.72	-498.79	734.52	0.00	0.00	0.00
6,500.00		315.17	4,773.44	894.33	-851.28	1,234.51	0.00	0.00	0.00
7,000.00		315.17	4,774.03	1,248.95	-1,203.76	1,734.51	0.00	0.00	0.00
7,500.00		315.17	4,774.61	1,603.56	-1,556.25	2,234.50	0.00	0.00	0.00
8,000.00	89.93	315.17	4,775.20	1,958.18	-1,908.74	2,734.50	0.00	0.00	0.00
8,500.00	89.93	315.17	4,775.79	2,312.79	-2,261.23	3,234.49	0.00	0.00	0.00
9,000.00		315.17	4,776.38	2,667.41	-2,613.71	3,734.49	0.00	0.00	0.00
9,500.00		315.17	4,776.96	3,022.02	-2,966.20	4,234.49	0.00	0.00	0.00
10,000.00		315.17	4,777.55	3,376.64	-3,318.69	4,734.48	0.00	0.00	0.00
10,500.00	89.93	315.17	4,778.14	3,731.25	-3,671.18	5,234.48	0.00	0.00	0.00
11,000.00		315.17	4,778.72	4,085.87	-4,023.67	5,734.47	0.00	0.00	0.00
11,500.00		315.17	4,779.31	4,440.48	-4,376.15	6,234.47	0.00	0.00	0.00
12,000.00		315.17	4,779.90	4,795.10	-4,728.64	6,734.47	0.00	0.00	0.00
12,086.08	89.93	315.17	4,780.00	4,856.15	-4,789.33	6,820.55	0.00	0.00	0.00

WPX

Planning Report

Database: Company: COMPASS

WPX Energy Project: **T23N R9W**

2309-13F WLU Site: Well: W Lybrook UT #712H

Wellbore:

Wellbore #1

Design: Design #1 4May16 sam Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference: MD Reference: North Reference: Well W Lybrook UT #712H (A4) - Slot A4 GL @ 6700.00usft (Original Well Elev)

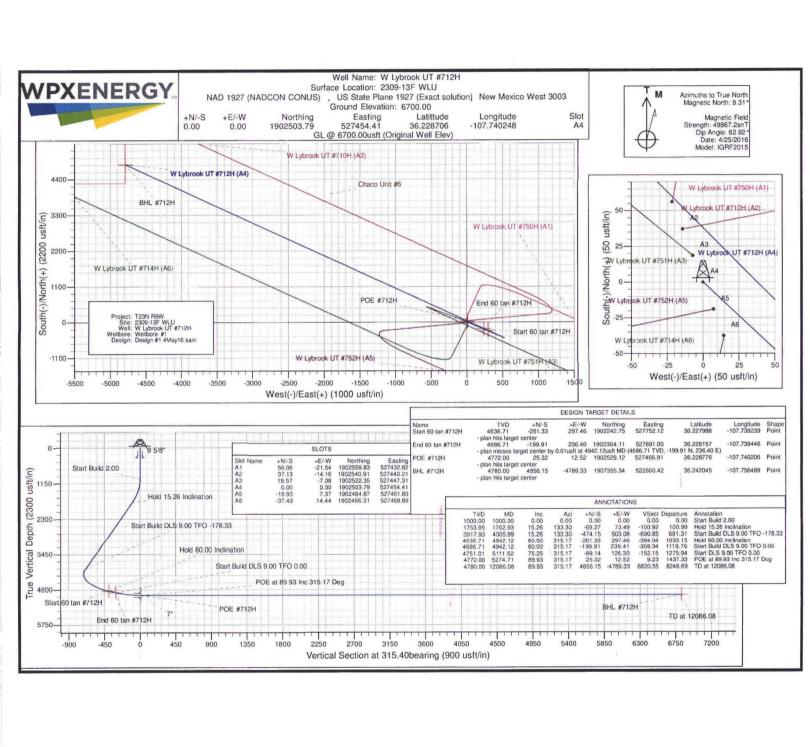
GL @ 6700.00usft (Original Well Elev) True

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 #712H - plan hits target cen - Point	0.00 ter	0.00	4,636.71	-261.33	297.46	1,902,242.75	527,752.12	36.227988	-107.73924
End 60 tan #712H - plan misses target o - Point	0.00 center by 0.01	0.00 usft at 4942	4,686.71 .12usft MD (-199.91 (4686.71 TVD,	236.40 -199.91 N, 23	1,902,304.11 86.40 E)	527,691.00	36.228157	-107.73944
POE #712H - plan hits target cent - Point	0.00 ter	0.00	4,772.00	25.32	12.52	1,902,529.12	527,466.91	36.228776	-107.74020
BHL #712H - plan hits target cent - Point	0.00 ter	0.00	4,780.00	4,856.15	-4,789.33	1,907,355.34	522,660.42	36.242046	-107.75648

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	
	5,275.00	4,772.00	7"		7.000	8.750	

Mea	asured	Vertical	Local Coord	dinates			
	epth usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment		
1	1,000.00	1,000.00	0.00	0.00	Start Build 2.00		
1	1,762.93	1,753.95	-69.27	73.49	Hold 15.26 Inclination		
4	4,005.99	3,917.93	-474.15	503.08	Start Build DLS 9.00 TFO -178.33		
4	4,842.12	4,636.71	-261.33	297.46	Hold 60.00 Inclination		
4	4,942.12	4,686.71	-199.91	236.41	Start Build DLS 9.00 TFO 0.00		
	5,111.52	4,751.01	-89.14	126.30	Start DLS 9.00 TFO 0.00		
5	5,274.71	4,772.00	25.32	12.52	POE at 89.93 Inc 315.17 Deg		
12	2,086.08	4,780.00	4,856,15	-4,789.33	TD at 12086.08		



- An existing pond in the southeast quarter of the southwest quarter of Section 13, Township 23 North, Range 09 West is proposed to be cleaned out. Excavated material would be used as fill material on the proposed new road construction. To access the pond, an existing twotrack road would be utilized.
- Noise stipulations would be applied due to proximity of nearby residence.
- 5 All project activities will be confined to permitted areas only.
- 6 Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, and a dozer.
- 7 If drilling has not been initiated on the wellpads within 120 days of the wellpads being constructed, the operator will consult with the BLM to address a site-stabilization plan.

D. Production Facilities

- Production facilities for the W Lybrook UT Nos. 710H, 712H, 714H, 716H, 718H, 719H, 750H, 751H, 752H, 753H, 754H, and 755H oil and natural gas wells will be located on the W Lybrook UT Nos. 716H, 718H, 719H, 753H, 754H, and 755H wellpad. Facilities will be located on the north-northeastern corner of the wellpad within an irregular shaped 270-foot by 105-foot facility area (see Figure 8, Appendix B) to allow for maximum interim reclamation and revegetation of the two wellpads.
- 2 As practical, access road on the wellpads will be a teardrop-shape through the area so that the center may be revegetated.
- 3 Within 90 days of installation, production facilities would be painted.
 - The production facilities associated with the W Lybrook UT Nos. 710H, 712H, 714H, 750H, 751H, and 752H oil and natural gas wells project will be painted Covert Green to blend with the natural color of the landscape surrounding the wellpad and would be located in efforts to the extent practical, to reasonably minimize visual impact.
 - The production facilities associated with the W Lybrook UT Nos. 716H, 718H, 719H, 753H, 754H, and 755H oil and natural gas wells project will be painted Juniper Green to blend with the natural color of the landscape surrounding the wellpad and would be located in efforts to the extent practical, to reasonably minimize visual impact.
- 4 Berms will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks. Berm walls will be compacted with appropriate equipment to assure containment.

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



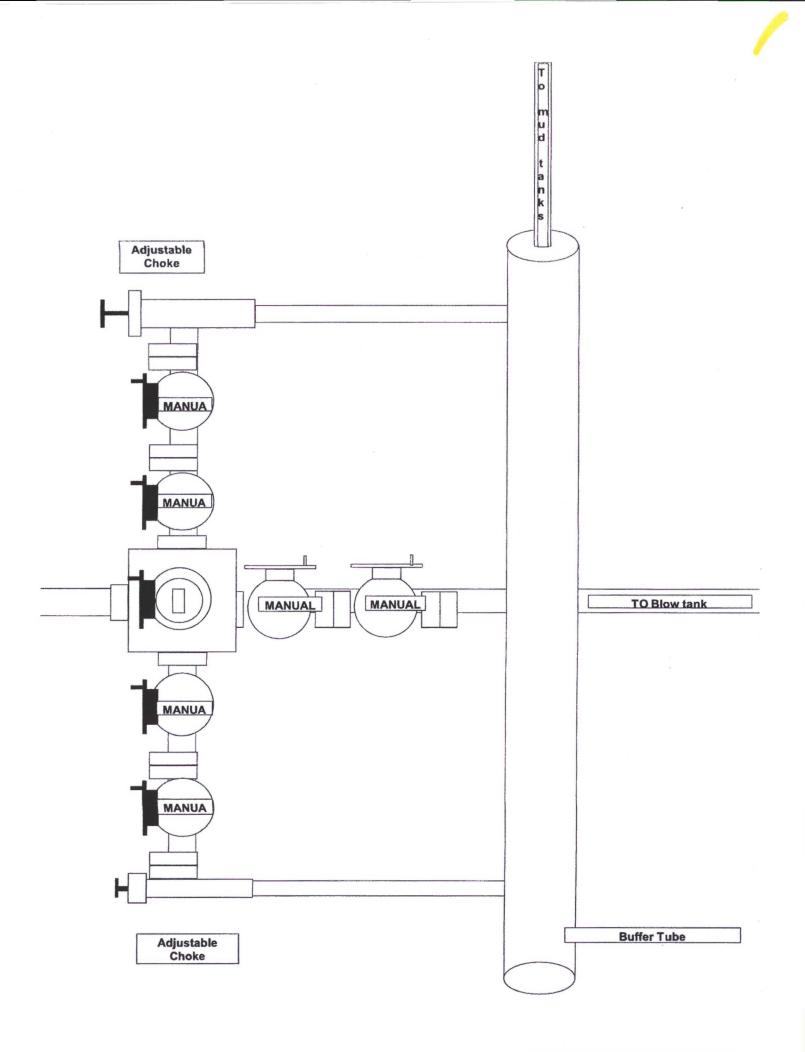
A. Cuttings

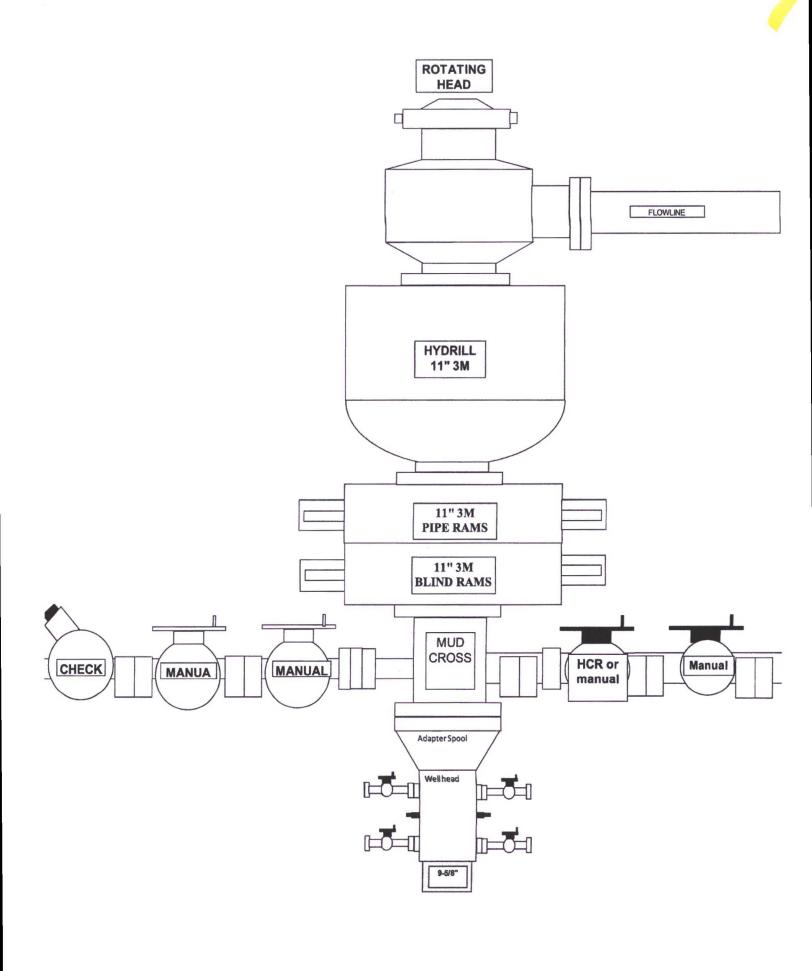
- Drilling operations will utilize a closed-loop system. Drilling of the horizontal laterals will be accomplished with water-based mud. All cuttings will be placed in roll-off bins and hauled to a commercial disposal facility or land farm. WPX will follow Onshore Oil and Gas Order No. 1 regarding the 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





<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #712H 1999' FNL & 2478' FWL, Section 13, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.228719°N Longitude: 107.740861°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 #712H location.