State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Ken McQueen Cabinet Secretary

Matthias Sayer Deputy 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 <u>3160-3</u> APD form.

Operator Signature Date: <u>11/03/2016</u> Well information; Operator <u>WPX</u>, Well Name and Number <u>WLybrack Unit</u> 750H

API# 30-045-35804, 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
- 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.

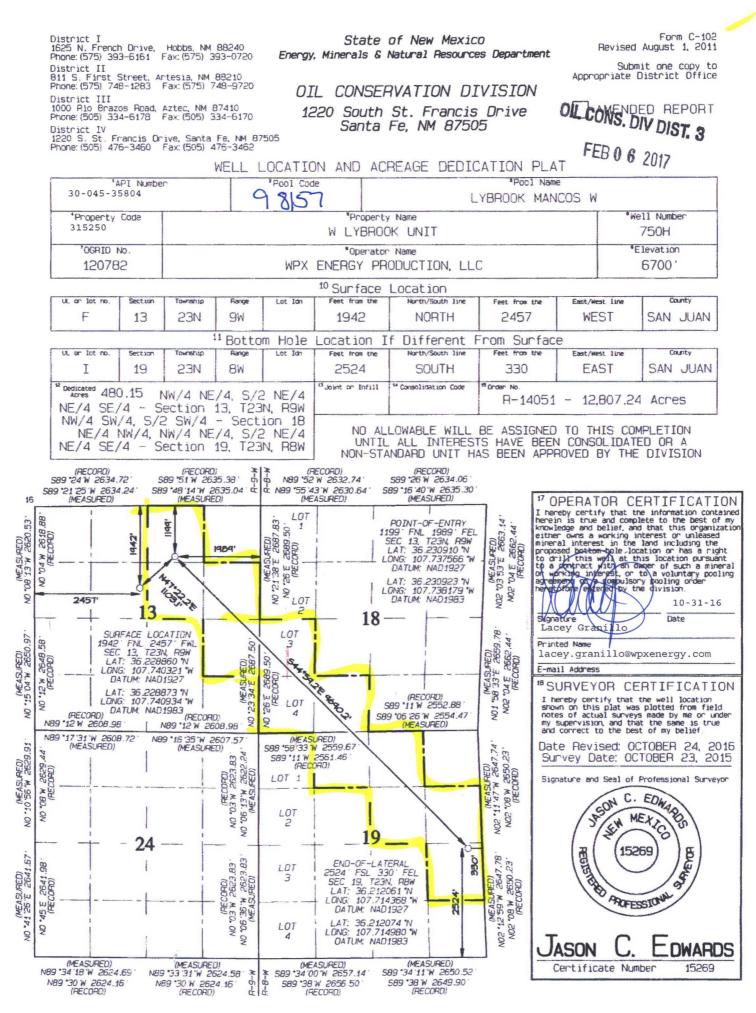
Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

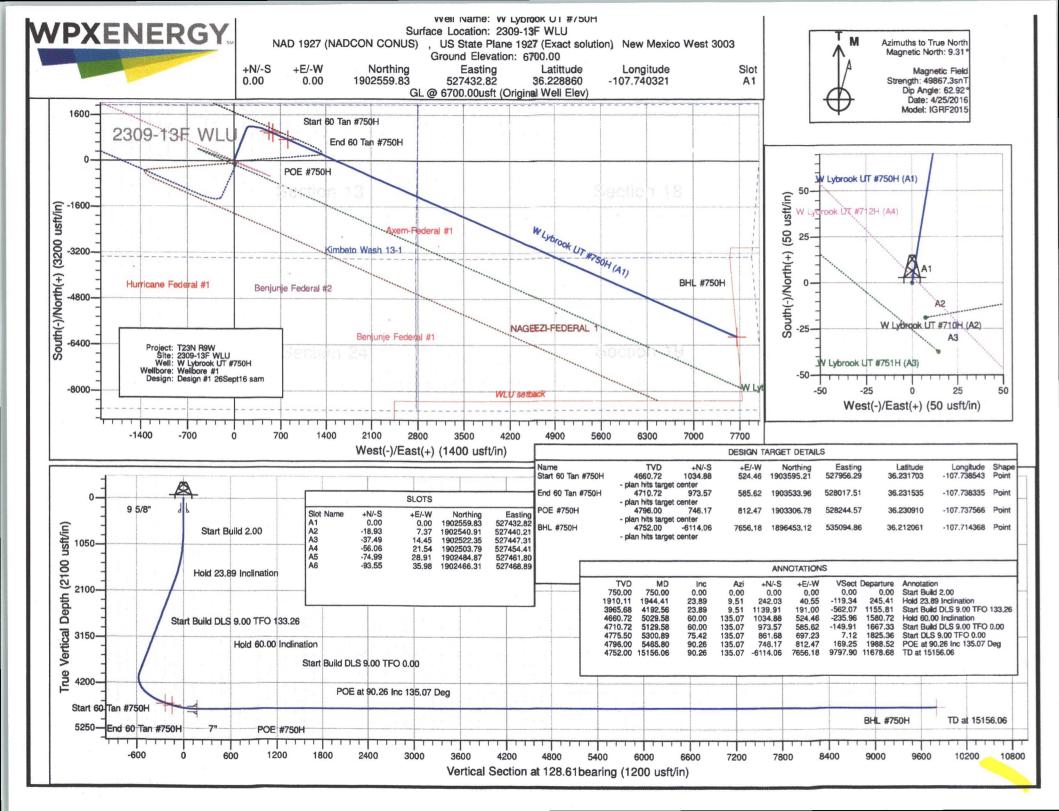
2-14-2017

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

4/27/14 APDP- B.			1	
			1040	2006728
4/27/14 APDP: B.	IL I com			
SMA NAV BIA				
Form 3160 -3 RDMD-				APPROVED 0. 1004-0137
(March 2012) CAME UNITED STATE	ES		Expires O	ctober 31, 2014
DEPARTMENT OF THE BUREAU OF LAND MA	INTERIOR		5. Lease Serial No. NOG13101841	
APPLICATION FOR PERMIT TO	D DRILL OR REENTER		6. If Indian, Allotee EASTERN, NAVAJO	
la. Type of work:	ITER		7 If Unit or CA Agree WEST LYBROOK	ement, Name and No. UNIT / NMNM13521
lb. Type of Well: 🔽 Oil Well 🔲 Gas Well 🛄 Other	Single Zone	Multiple Zone	8. Lease Name and V W LYBROOK UT 7	
2. Name of Operator WPX ENERGY LLC			9. API Well No.	-35804
3a. Address 720 S Main Aztec NM 87410	3b. Phone No. (include area co (505)333-1822	de)	10. Field and Pool, or H	Exploratory DS W / LYBROOK M
4. Location of Well (Report location clearly and in accordance with	any State requirements.*)		11. Sec., T. R. M. or B	
At surface SENW / 1942 FNL / 2457 FWL / LAT 36.22			SEC 13 / T23N / R	9W / NMP
At proposed prod. zone NESE / 2524 FSL / 330 FEL / LA	T 36.228873 / LONG -107.7	40934	2. ¹⁰	
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 20 feet	16. No. of acres in lease		g Unit dedicated to this w	
property or lease line, ft.	160	480.15		OIL CONS. D
(Also to nearest drig, unit line, if any) 18. Distance from proposed location*	19. Proposed Depth	20. BLM/	BIA Bond No. on file	
to nearest well, drilling, completed, 1942 feet applied for, on this lease, ft.	4752 feet / 15156 feet	IND: BO	01576	JAN 31
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6700 feet	22. Approximate date work w 12/01/2016	ill start*	23. Estimated duration 30 days	1
	24. Attachments			
The following, completed in accordance with the requirements of Onsh		t be attached to th	is form:	
1. Well plat certified by a registered surveyor.	4. Bond to co	over the operation	ns unless covered by an	existing bond on file (s
2. A Drilling Plan.	Item 20 ab	ove).		
 A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office). 			ormation and/or plans as	may be required by the
	BLM.			
25. Signature (Electronic Submission)	Name (Printed/Typed) Lacey Granillo / Ph:	(505)333-181		Date 11/03/2016
litle		(200)000-101	-	
Permitting Tech III				Date /
Approved by (Signature)	Name (Printed/Typed)		1	
Approved by (Signature) Manlee	Name (Printed/Typed)			1/27/1
Approved by (Signature) Allan leeve	Office			1/27/1
Title AFM	Office FARMINGTON	e rights in the sub		1/27/1
D/ Manleever	Office FARMINGTON	e rights in the sub		1/27/1
Title AFM Application approval does not warrant or certify that the applicant ho conduct operations thereon.	Office FARMINGTON olds legal or equitable title to those crime for any person knowingly	and willfully to n	ject lease which would en	1/27/1
Title Application approval does not warrant or certify that the applicant ho 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 States any false, fictitious or fraudulent statements or representations a	Office FARMINGTON olds legal or equitable title to those crime for any person knowingly as to any matter within its jurisdiction	and willfully to n on.	ject lease which would en	1/27/1
Title Application approval does not warrant or certify that the applicant hor 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 States any false, fictitious or fraudulent statements or representations a (Continued on page 2) BLM'S	Office FARMINGTON olds legal or equitable title to those crime for any person knowingly as to any matter within its jurisdicti	and willfully to n on. PTANCE O	ject lease which would en nake to any department or F THIS *(Instr	1/27/1
Title Application approval does not warrant or certify that the applicant ho 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 States any false, fictitious or fraudulent statements or representations a (Continued on page 2) BLM'S ACTION	Office FARMINGTON olds legal or equitable title to those crime for any person knowingly as to any matter within its jurisdiction	and willfully to n on. PTANCE O E THE LESS	ject lease which would en nake to any department or FTHIS SEE AND	1/27/1

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WPX

Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well W Lybrook UT #750H (A1) - Slot A1
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: Wellbore:	W Lybrook UT #750H Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1 26Sept16 sam		

Design Targets			la de la constante de la	and the second	the first second				
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 #750H - plan hits target cent - Point	0.00 ter	0.00	4,660.72	1,034.88	524.46	1,903,595.22	527,956.29	36.231703	-107.73854
End 60 Tan #750H - plan hits target cent - Point	0.00 ter	0.00	4,710.72	973.57	585.62	1,903,533.96	528,017.51	36.231535	-107.73833
BHL #750H - plan hits target cent - Point	0.00 ter	0.00	4,752.00	-6,114.06	7,656.18	1,896,453.12	535,094.86	36.212061	-107.714368
POE #750H - plan hits target cent - Point	0.00 ter	0.00	4,796.00	746.17	812.47	1,903,306.78	528,244.57	36.230910	-107.737567

Casing Points

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)
320.00	320.00	9 5/8"		9.625	12.250
5,466.00	4,796.00	7"		7.000	8.750

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
750.00	750.00	0.00	0.00	Start Build 2.00
1,944.41	1,910.11	242.03	40.55	Hold 23.89 Inclination
4,192.56	3,965.68	1,139.91	191.00	Start Build DLS 9.00 TFO 133.26
5,029.58	4,660.72	1,034.88	524.46	Hold 60.00 Inclination
5,129.58	4,710.72	973.57	585.62	Start Build DLS 9.00 TFO 0.00
5,300.89	4,775.50	861.68	697.23	Start DLS 9.00 TFO 0.00
5,465.80	4,796.00	746.17	812.47	POE at 90.26 Inc 135.07 Deg
15,156.06	4,752.00	-6,114.06	7,656,18	TD at 15156.06

WPX Energy

T23N R9W 2309-13F WLU W Lybrook UT #750H - Slot A1

Wellbore #1

Plan: Design #1 26Sept16 sam

Standard Planning Report

26 September, 2016

WPX

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	T23N 2309- W Lyt Wellb	Energy		gymma of a though smalled balling	TVD Refe MD Refer North Ref	ence:		Well W Lybrook GL @ 6700.00u GL @ 6700.00u True Minimum Curva	sft (Original V sft (Original V	Vell Elev)
Project	T23N	R9W								
Map System: Geo Datum: Map Zone:	NAD 19	e Plane 1927 (I 27 (NADCON C xico West 3003	CONUS)		System Da	tum:	М	ean Sea Level		
Site	2309-1	3F WLU	an a	ne je voganja Gravanjaj godi položil Aprilana u stani odrata uz Asti bilana						
Site Position: From: Position Uncertaint	Northing: Map Easting: y: 0.00 usft Slot Radius:					2,559.83 usft 7,432.82 usft 13.200 in	Latitude: Longitude: Grid Converg	ence:		36,22886 -107,74032 0.05
Well	W Lybr	ook UT #750H	- Slot A1							
Well Position	+N/-S +E/-W			orthing: asting:		1,902,559.83 527,432.82		itude: ngitude:		36.22886
Position Uncertaint				eilhead Elevat	ion:			und Level:		6,700.00 us
Wellbore Magnetics	Wellbo	ore #1 odel Name	Samp	le Date	Deciin: (")		Dip 4	and the second		Strength (nT)
			al another	le Date 4/25/2016			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second		
	Mc	odel Name		Anna ann anna Anna		i Antičnosti posta	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	")		(Tn)
Magnetics	Mc	iGRF2015		4/25/2016		9.31	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	62.92		(Tn)
Magnetics Design Audit Notes:	Mc	iGRF2015 #1 26Sept16 s	Sam Phas Depth From (T (usft)	4/25/2016 e: F	(") PLAN +N/-S (usft)	9.31 Tie +E (u	On Depth: /-W sft)	") 62.92 Din (be	0.00 ection aring)	(Tn)
Magnetics Design Audit Notes: Version: Vertical Section:	Mc	iGRF2015 #1 26Sept16 s	sam Phas Depth From (T	4/25/2016 e: F	(*) PLAN +N/-S	9.31 Tie +E (u	On Depth:	") 62.92 Din (be	0.00 ection	(Tn)
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured	Mc	iGRF2015 #1 26Sept16 s	Sam Phas Depth From (T (usft)	4/25/2016 e: F	(") PLAN +N/-S (usft)	9.31 Tie +E (u	On Depth: /-W sft)	") 62.92 Din (be	0.00 ection aring)	(Tn)
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Inc (usit) 0.00	Ma Design Unation (*) 0.00	odel Name IGRF2015 #1 26Sept16 s	sam Phas Depth From (T (usft) 0.00 Vertical Depth (usft) 0.00	4/25/2016 ee: F VD) +N/-S (usft) 0.00	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00	9.31 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00	On Depth: 54W 5ft) 00 Build Rate	") 62.92 Din (be 12 Turn Rate	0.00 ection aring) 28.61	(nT) 49,867
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Inc (usft) 0.00 750.00	Ma Design :lination (*) 0.00 0.00	Azimuth (bearing) 0.00 0.00	sam Phas Depth From (T (usft) 0.00 Vertical Depth (usft) 0.00 750.00	4/25/2016 te: F VD) +N/-S (usft) 0.00 0.00	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00	9.31 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00 0.00	Con Depth: (") 62.92 Din (be 12 Tum Rate (*/100usft) 0.00 0.00	0.00 ection aring) 28.61 TFO (*) 0.00 0.00	(nT) 49,867
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Inc (usft) 0.00 750.00 1,944.41	Ma Design Contraction (*) 0.00 0.00 23.89	Azimuth (bearing) 0.00 0.51	sam Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 750.00 1,910.11	4/25/2016 te: F VD) +N/-S (usft) 0.00 0.00 242.03	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 40.55	9.31 Tie +E (u 0. Dogieg Rate (*/100usft) 0.00 0.00 2.00	Con Depth: () 62.92 Din (be 12 Turn Rate (*/100usft) 0.00 0.00 0.00	0.00 ection aring) 28.61 TFO (") 0.00 0.00 9.51	(nT) 49,867
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Inc (usft) 0.00 750.00 1,944.41 4,192.56	Ma Design CDesign (*) 0.00 0.00 23.89 23.89	Azimuth (bearing) 0.00 0.01 0.01 0.01 0.01 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	Sam Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 750.00 1,910.11 3,965.68	4/25/2016 te: F VD) +N/-S (usft) 0.00 0.00 242.03 1,139.91	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 40.55 191.00	9.31 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00	Con Depth: (") 62.92 Dim (be 12 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00	0.00 ection aring) 28.61 TFO (*) 0.00 0.00 9.51 0.00	(nT) 49,867 Target
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Inc (usft) 0.00 750.00 1,944.41	Ma Design Contraction (*) 0.00 0.00 23.89	Azimuth (bearing) 0.00 0.51	sam Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 750.00 1,910.11	4/25/2016 te: F VD) +N/-S (usft) 0.00 0.00 242.03	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 40.55	9.31 Tie +E (u 0. Dogieg Rate (*/100usft) 0.00 0.00 2.00	Con Depth: () 62.92 Din (be 12 Turn Rate (*/100usft) 0.00 0.00 0.00	0.00 ection aring) 28.61 TFO (*) 0.00 0.00 9.51 0.00 133.26	(nT) 49,867
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Inc (usft) 0.00 750.00 1,944.41 4,192.56 5,029.58	Ma Design Contraction (*) 0.00 0.00 23.89 23.89 60.00	Azimuth (bearing) 0.00 0.00 0.01 0.01 0.00 0.00 0.00 0.0	Sam Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 750.00 1,910.11 3,965.68 4,660.72	4/25/2016 te: F VD) +N/-S (usft) 0.00 0.00 242.03 1,139.91 1,034.88	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0	9.31 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 9.00	(On Depth: (") 62.92 Din (be 12 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 ection aring) 28.61 TFO (*) 0.00 0.00 9.51 0.00 133.26	(nT) 49,867 Target Start 60 Tan #750H
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth (usft) 0.00 750.00 1,944.41 4,192.56 5,029.58 5,129.58	Ma Design Contraction (*) 0.00 0.00 23.89 23.89 60.00 60.00	Azimuth (bearing) 0.00 0.00 0.00 0.51 9.51 135.07 135.07	Sam Phas Depth From (T (usft) 0.00 Vertical Depth (usft) 0.00 750.00 1,910.11 3,965.68 4,660.72 4,710.72	4/25/2016 te: F VD) +N/-S (usft) 0.00 0.00 242.03 1,139.91 1,034.88 973.57	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0	9.31 Tie (u 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 9.00 0.00	(On Depth: (") 62.92 Din (be 12 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 15.00 0.00	0.00 action aring) 28.61 TFO (*) 0.00 0.00 9.51 0.00 133.26 0.00 0.00 0.00	(nT) 49,867 Target Start 60 Tan #750H

WPX

Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well W Lybrook UT #750H (A1) - Slot A1	
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 #750H	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 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
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2		0.00	,	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	5.00	9.51	999.68	10.75	1.80	-5.30	2.00	2.00	0.00
1,500.00	15.00	9.51	1,491.46	96.27	16.13	-47.47	2.00	2.00	0.00
1,944.41	23.89	9.51	1,910.11	242.03	40.55	-119.34	2.00	2.00	0.00
Hold 23.89 In		0.54	4 000 00	004.00	44.07	400.00	0.00	0.00	0.00
2,000.00	23.89	9.51	1,960.93	264.23	44.27	-130.29	0.00	0.00	0.00
2,500.00	23.89	9.51	2,418.10	463.93	77.74	-228.75	0.00	0.00	0.00
3,000.00	23.89	9.51	2,875.27	663.62	111.20	-327.22	0.00	0.00	0.00
3,500.00	23.89	9.51	3,332.44	863.31	144.66	-425.69	0.00	0.00	0.00
4,000.00	23.89	9.51	3,789.61	1,063.01	178.12	-524.15	0.00	0.00	0.00
4,192.56	23.89	9.51	3,965.68	1,139.91	191.00	-562.07	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 13	3.26							
4,500.00	20.18	88.19	4,256.18	1,204.23	255.54	-551.78	9.00	-1.21	25.59
5,000.00	57.50	134.00	4,645.38	1,052.62	506.44	-261.12	9.00	7.47	9.16
5,029.58	60.00	135.07	4,660.72	1.034.88	524.46	-235.96	9.00	8.45	3.63
Hold 60.00 In		100.01	1,000112	1,001.00	021.10	200.00	0.00	0.40	0.00
5,129.58	60.00	135.07	4,710.72	973.57	585.62	-149.91	0.00	0.00	0.00
A DAY ANY ANY ANY ANY ANY ANY ANY ANY ANY A			4,/10.72	313.51	305.02	-143.31	0.00	0.00	0.00
5,300.89	LS 9.00 TFO 0.0 75.42	135.07	4,775.50	861.68	697.23	7.12	9.00	9.00	0.00
		135.07	4,775.50	001.00	097.23	7.12	9.00	9,00	0.00
Start DLS 9.0		105.07	1 700 00			100.05			
5,465.80	90,26	135.07	4,796.00	746.17	812.47	169.25	9.00	9.00	0.00
	Inc 135.07 Deg								
5,466.00	90.26	135.07	4,796.00	746.03	812.61	169.44	0.00	0.00	0.00
7"									
5,500.00	90.26	135.07	4,795.84	721.96	836.62	203.23	0.00	0.00	0.00
6,000.00	90.26	135.07	4,793.57	367.98	1,189.74	700.05	0.00	0.00	0.00
6,500.00	90.26	135.07	4,791.30	14.01	1,542.87	1,196.87	0.00	0.00	0.00
7,000.00	90,26	135.07	4,789.03	-339.97	1,895,99	1,693.69	0.00	0.00	0.00
7,500.00	90,26	135.07	4,786.76	-693.94	2,249.11	2,190.51	0.00	0.00	0.00
8,000.00	90.26	135.07	4,784.49	-1,047.92	2,602.24	2 697 33	0.00	0.00	0.00
8,500.00	90.26	135.07	4,784.49	-1,047.92	2,002.24	2,687.33 3,184.16	0.00	0.00	0.00
9,000.00	90.26	135.07	4,779.95	-1,755.87	3,308.48	3,680.98	0.00	0.00	0.00
9,500.00	90.26	135.07	4,777.68	-2,109.85	3,661.61	4,177.80	0.00	0.00	0.00
10,000.00	90.26	135.07	4,775.41	-2,463.82	4,014.73	4,674.62	0.00	0.00	0.00
10,500.00	90.26	135.07	4,773.14	-2,817.80	4,367.85	5,171.44	0.00	0.00	0.00
11,000.00 11,500.00	90.26 90.26	135.07	4,770.87	-3,171.77	4,720.98	5,668.26	0.00	0.00	0.00
12,000.00	90.26	135.07 135.07	4,768.60 4,766.33	-3,525.75 -3,879.73	5,074.10	6,165.08	0.00	0.00	0.00
12,500.00					5,427.22	6,661.90	0.00	0.00	0.00
	90.26	135.07	4,764.06	-4,233.70	5,780.35	7,158.73	0.00	0.00	0.00
13,000.00	90.26	135.07	4,761.79	-4,587.68	6,133.47	7,655.55	0.00	0.00	0.00
13,500.00	90.26	135.07	4,759.52	-4,941.65	6,486.59	8,152.37	0.00	0.00	0.00
14,000.00	90.26	135.07	4,757.25	-5,295.63	6,839.72	8,649.19	0.00	0.00	0.00
14,500.00	90.26	135.07	4,754.98	-5,649.60	7,192.84	9,146.01	0.00	0.00	0.00
15,000.00	90.26	135.07	4,752.71	-6,003.58	7,545.96	9,642.83	0.00	· 0.00	0.00
15,156.06	90.26	135.07	4,752.00	-6,114.06	7,656.18	9,797.90	0.00	0.00	0.00
TD at 15156.0									0.00



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 # 750H	Surface:	
SH Location:	SENW Sec 13 23N-09W	Elevation:	6700' GR
BH Location:	NESE Sec 19 23N-08W	Minerals:	

Measured Depth: 15,156.06'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	476.00	476.00	POINT LOOKOUT	3,730.00	3,543.00
KIRTLAND	638.00	638.00	MANCOS	3,922.00	3,718.00
PICTURED CLIFFS	1,208.00	1,206.00	GALLUP	4,291.00	4,057.00
LEWIS	1,293.00	1,290.00	KICKOFF POINT	4,192.56	3,965.68
CHACRA	1,516.00	1,507.00	TOP TARGET	5,225.00	4,752.00
CLIFF HOUSE	2,714.00	2,614.00	LANDING POINT	5,465.80	4,796.00
MENEFEE	2,733.00	2,631.00	BASE TARGET	5,465.80	4,796.00
			TD	15,156.06	4,752.00

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"	5,465.80'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5315.8' - 15,156.06'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5315.8'	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 cuft/100 sx/ Bbls).TOC at Surface.

2. Intermediate:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 102 bbls, 291 sks, (573 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 59 bbls, 254 sks, (331 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 215 bbl Drilling mud or water. Total Cement: 161 bbls, 545 sks, (904 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 (964 sx /1311 cuft /234 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-208bbl Fr Water. Total Cement (964 sx /1311bbls).

D. COMPLETION:

Run CCL for perforating

A. PRESSURE TEST:

1. Pressure test 4-1/2" casing to 4500 psi max, hold at 1500 psi for 30 minutes. Increase pressure to Open RSI sleeves.

B. STIMULATION:

1. Stimulate with approximately 2,805,000# 20/40 mesh sand and 340,000# 16/30 mesh sand in 619,113 gallons water with 42,696 mscf N2 for 17 stages.

2. Isolate stages with flow through frac plug.

3. Drill out frac plugs and flowback lateral.

C. RUNNING TUBING:

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

If this horizontal well is drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC,will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 B(2) NMAC, 19.15.16.15 B(2)NMAC, and 19.15.16.15. B(4) NMAC.

NOTES:

A 4-1/2" 11.6# P-110 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# J-55 Intermediate casing with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

After cementing and TOL clean up operations are complete, the TOL will be tested to 1500 psi (per BLM).

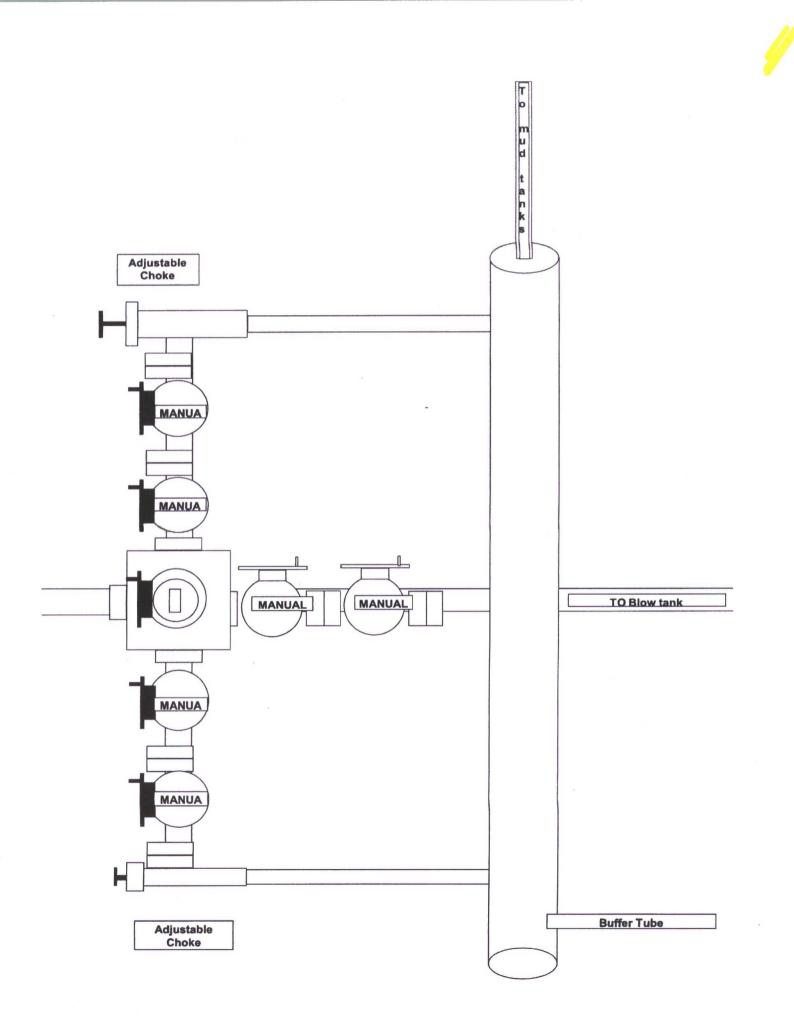
(Lat/Long) is recorded and full drill log report is completed and filed with WPX. The bed will not be energized for a minimum of 45 days.

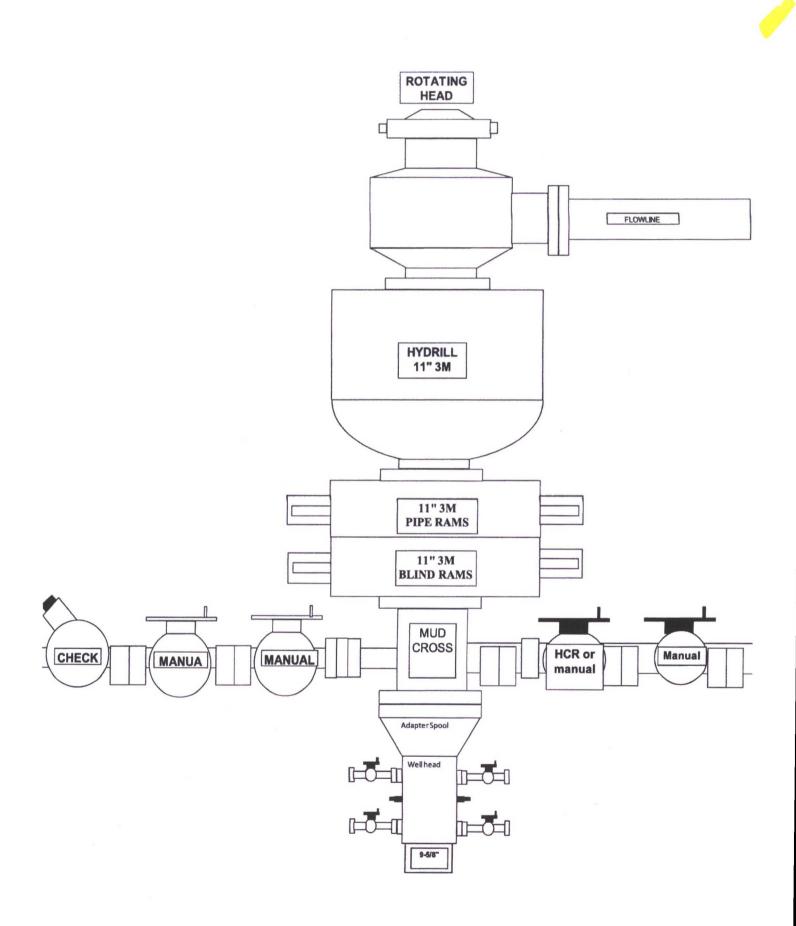
After the completion phases and pipeline installation, portions of the project area not needed for operation will be reclaimed. When the wells are plugged, final reclamation will occur within the remainder of the project area. Reclamation is described in detail in the Surface Use Reclamation Plan (Appendix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

7. METHODS FOR HANDLING WASTE

A. Cuttings

- 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
 - 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.





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

in Bloomfield, NM to WPX Energy Production, LLC W Lybrosk Unit #750H

1942' FNL & 2457' FWL, Section 13, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.228873°N Longitude: 107.740934°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 #750H location.