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 OI 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>11/3/2016</u> Well information; Operator <u>WPX</u>, Well Name and Number <u>Whende Unrt</u> 7164

API# <u>30 -045 - 358/3</u>, Section <u>14</u>, Township <u>23</u> N/S, Range <u>9</u> 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.

2-10-20,

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

where we before the						
Form 3160-3 (March 2012) DEPARTMENT OF THE	S		7	FORM A OMB No. Expires Octo 5. Lease Serial No.	PPROVED 1004-0137 sber 31, 2014	
BUREAU OF LAND MAI	NAGEMENT			N0G14031948		
APPLICATION FOR PERMIT TO	6. If Indian, Allotee or EASTERN NAVAJO	Tribe Name				
la. Type of work: DRILL REENT	FER			7 If Unit or CA Agreen INITAL MANCOS PA	ient, Name and No. / NMNM135216A	
lb. Type of Well: Oil Well Gas Well Other	Sir	ngle Zone 🗹 Multi	ple Zone	8. Lease Name and We W LYBROOK UT 716	ll No. 5H	
2. Name of Operator WPX ENERGY LLC				9. API Well No. 30-045-	35813	
3a. Address 720 S Main Aztec NM 87410	3b. Phone No. (505)333-1	. (include area code) 1822		10. Field and Pool, or Exp LYBROOK MANCOS	ploratory W / LYBROOK MA	
 Location of Well (Report location clearly and in accordance with a At surface NESE / 1835 FSL / 624 FEL / LAT 36.22469 At proposed prod. zone NWSW / 2179 FSL / 330 FWL / LA 	iny State requirem 97 / LONG -10 AT 36.240144	ents.*))7.751365 4 / LONG -107.765	982	11. Sec., T. R. M. or Blk. SEC 14 / T23N / R9V	and Survey or Area V / NMP	
 Distance in miles and direction from nearest town or post office* 37.8 miles 				12. County or Parish SAN JUAN	13. State NM	
 Distance from proposed* location to nearest 20 feet property or lease line, fl. (Also to nearest drig. unit line, if any) 	16. No. of acres in lease 17. Spacin 160 320			ng Unit dedicated to this wel	CONS. DIV DIS	
 Distance from proposed location* to nearest well, drilling, completed, 624 feet applied for, on this lease, ft. 	19. Proposed Depth 20. BLM/ 4764 feet / 12393 feet IND: BC			BIA Bond No. on file JAN 31 2017		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6719 feet	22. Approximate date work will start* 12/01/2016			23. Estimated duration 30 days		
	24. Attac	hments				
 he following, completed in accordance with the requirements of Onsh 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). 	ore Oil and Gas (n Lands, the	 Order No.1, must be a 4. Bond to cover the Item 20 above). 5. Operator certified 6. Such other site BLM. 	ttached to the he operation cation specific inf	nis form: ons unless covered by an ex formation and/or plans as m	isting bond on file (see ay be required by the	
25. Signature (Electronic Submission)	Name Lacey	(Printed/Typed) Granillo / Ph: (505	5)333-181	Date 0 11/03/2016		
itle	2					
	Nomo	(Drinted/Tuned)			1 /	
pproved by (stenature)		Name (Printed Typed) Date $\frac{127}{17}$				
AEM	FARM	INGTON				
Application approval does not warrant or certify that the applicant hol onduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equit	able title to those righ	ts in the sub	oject lease which would entit	tle the applicant to	
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a tates any false, fictitious or fraudulent statements or representations as	crime for any pe s to any matter w	erson knowingly and v ithin its jurisdiction.	villfully to n	nake to any department or a	gency of the United	
(Continued on page 2)				*(Instruc	ctions on page 2)	
BLM'S AP	PROVAL	OR ACCEPTAN	CE OF	THIS	*	

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and 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

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

NMOCD r





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 716H	Surface:	
SH Location:	NESE Sec 14 23N-09W	Elevation:	6719' GR
BH Location:	SWSW Sec 11 23N-09W	Minerals:	

Measured Depth: 12,393.37'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	428.00	428.00	POINT LOOKOUT	3,647.00	3,495.00
KIRTLAND	590.00	590.00	MANCOS	3,837.00	3,670.00
PICTURED CLIFFS	1,158.00	1,158.00	GALLUP	4,204.00	4,009.00
LEWIS	1,277.00	1,277.00	KICKOFF POINT	4,122.09	3,932.06
CHACRA	1,461.00	1,459.00	TOP TARGET	5,263.00	4,764.00
CLIFF HOUSE	2,636.00	2,566.00	LANDING POINT	5,407.24	4,780.00
MENEFEE	2,654.00	2,583.00	BASE TARGET	5,407.24	4,780.00
			TD	12,393.37	4,764.00

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 ³/⁴" 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"	5,407.24'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5257.24' - 12,393.37'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5257.24'	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: 100 bbls, 286 sks, (563 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/ +/- 213 bbl Drilling mud or water. Total Cement: 159 bbls, 540 sks, (894 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 (699 sx /951 cuft /169 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-165bbl Fr Water. Total Cement (699 sx /951bbls).

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).

WPX Energy

T23N R9W 2309-14I WLU W Lybrook UT #716H - Slot A5

Wellbore #1

Plan: Design #1 28Sept16 sam

Standard Planning Report

28 September, 2016

WPX

Planning Report



Database: Company: Project: Site: Well: Wellbore: Design:		COMPASS WPX Energy T23N R9W 2309-14I WLU W Lybrook UT #716H Wellbore #1 Design #1 28Sept16 sam				Local Co TVD Ref MD Refe North Re Survey (o-ordinate Refe erence: rence: vference: Calculation Me	rrence: thod:	Well W Lybrook UT #716H (A5) - Slot A5 GL @ 6719.00usft (Original Well Elev) GL @ 6719.00usft (Original Well Elev) True Minimum Curvature			
Project	T2:	3N R9	w									
Map System: Geo Datum: Map Zone:	US S NAE New	State I 1927 Mexi	Plane 1927 (E / (NADCON C co West 3003	Exact solutio CONUS)	n)	System D	atum:	м	ean Sea Level			
Site	23	09-14	IWLU		a constante proposa da constante da la	an de la companya de la casa de la	Anna an Anna	an a				
Site Position: From: Position Uncer	tainty:	Мар	0.0	No Eas 0 usft Sio	rthing: sting: st Radius:	1,90 52	1,091.09 usft 4,273.81 usft 13.200 in	Latitude: Longitude: Grid Conver	gence:		36.224833 -107.751036 0.05 °	
Well	WI	Lybroc	ok UT #716H	- Slot A5								
Well Position	+N +E	/-S /-W	-54.: 84.	24 usft 06 usft	Northing: Easting:		1,901,036.9 524,357.9	2 usft La 2 usft Lo	titude: ngitude:	anona intervi linteraaliitiiseesesse	36.224684 -107.750751	
Position Uncer	tainty		0.0	00 usft	Wellhead Eleva	ation:	0.0	0 usft Gr	ound Level:		6,719.00 usft	
Wellbore	W	ellbor	e #1	nandense som som a spor	anan a san ang	ning palan ing managing and a part of the second		na ngangana ngangana ngangangan ngangangan ngangangan ngangangan ngangangan ngangangan ngangangan ngangangan n Nganggangganggangganggangganggangganggan	an sayan na sana mangana sa			
Magnetics		Mod	el Name	San	nple Date	Decilir (°	ation)	Dip	Angle ")	Field	Strength (nT)	
		1	IGRF200510		12/31/2009	den de la constance.	9.99		63.07		50,612	
Design	De	sign #	1 28Sept16 s	am								
Audit Notes: Version:				Ph	850:	PLAN	Ti	e On Depth:		0.00		
Vertical Sectio	n:		٥	epth From (usft)	(TVD)	+N/-S (usft)	+1 (L	E/-W usft)	Din (be	aring)		
				0.00		0.00	U	1.00	32	2.53		
Plan Sections Measured Depth (usft)	Inclination (°)	n (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.	20	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	00.0		
4.122.09	23.	20	86.89	3,932.06	5 54.43	1.002.98	0.00	0.00	0.00	0.00		
4,972.45	60.	00	315.24	4,644.7	373.96	894.27	9.00	4.33	-15.48	-138.29	Start 60 Tan #716H	
5,072.45	60.	00	315.24	4,694.71	435.46	833.29	0.00	0.00	0.00	0.00	End 60 Tan #716H	
5,235.87	74.	71	315.24	4,757.46	542.26	727.39	9.00	9.00	0.00	0.00		
5,407.24	90.	13	315.25	4,780.00	662.52	608.14	9.00	9.00	0.00	0.01	POE #716H	
12,393.37	90.	13	315.25	4,764.00	5,623.52	-4,310.61	0.00	0.00	0.00	0.00	BHL #716H	

WPX

Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well W Lybrook UT #716H (A5) - Slot A5
Company:	WPX Energy	TVD Reference:	GL @ 6719.00usft (Original Well Elev)
Project:	T23N R9W	MD Reference:	GL @ 6719.00usft (Original Well Elev)
Site:	2309-14I WLU	North Reference:	True
Well:	W Lybrook UT #716H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 28Sept16 sam		

Planned Survey

Depth (usft)	Inclination (°)	Azimuth (bearing)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (*/100usft)	Rate (°/100usft)	Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.0
9 5/8"									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.0
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.0
Start Build 2	.00				a line of a straight of			S. Maria	
1,500.00	10.00	86.89	1,497.47	2.36	43.46	-24.57	2.00	2.00	0.0
2,000.00	20.00	86.89	1,979.82	9.36	172.51	-97.52	2.00	2.00	0.0
2,159.75	23.20	86.89	2,128.33	12.55	231.22	-130.71	2.00	2.00	0.0
Hold 23.19 In	clination								
2,500.00	23.20	86.89	2,441.08	19.81	365.04	-206.35	0.00	0.00	0.0
3,000.00	23,20	86.89	2,900.66	30.48	561.68	-317.51	0.00	0.00	0.0
3,500.00	23.20	86.89	3,360.25	41.15	758,32	-428.67	0.00	0.00	0.0
4,000.00	23.20	86.89	3,819.83	51.83	954.96	-539.83	0.00	0.00	0.0
4,122.10	23.20	86.89	3,932.06	54.43	1,002.98	-566.98	0.00	0.00	0.0
Start Build D	LS 9.00 TFO -13	8.29							
4,500.00	22.12	348.14	4,291.39	130.34	1,064.48	-544.15	9.00	-0.28	-26.1
4,972.45	60.00	315.24	4,644.71	373.96	894.27	-247.25	9.00	8.02	-6.9
Hold 60.00 In	clination								
5,000.00	60.00	315.24	4,658.48	390.90	877.47	-223.58	0.00	0.00	0.0
5,072.45	60.00	315.24	4,694.71	435.46	833.29	-161.34	0.00	0.00	0.0
Start Build D	LS 9.00 TFO -0.	01							
5,235.87	74.71	315.24	4,757.46	542.26	727.39	-12.16	9.00	9.00	0.0
5,235.90	74.71	315.24	4,757.47	542.28	727.37	-12.12	0.00	0.00	0.0
Start DLS 9.0	00 TFO 0.01								
5,407.00	90.11	315.24	4,780.00	662.35	608.32	155.60	9.00	9.00	0,0
7"									
5,407.24	90.13	315.25	4,780.00	662.52	608.14	155.84	9.00	9.00	0.0
POE at 90.13	inc 315.24 Deg								
5,500.00	90.13	315.25	4,779.79	728.39	542.84	247.85	0.00	0.00	0.0
6,000.00	90.13	315.25	4,778.64	1,083.45	190.80	743.81	0.00	0.00	0.0
6,500.00	90.13	315.25	4,777.50	1,438.51	-161.24	1,239.78	0.00	0.00	0.0
7,000.00	90.13	315.25	4,776.35	1,793.57	-513,27	1,735.74	0.00	0.00	0.0
7,500.00	90.13	315.25	4,775.21	2,148.03	-805,31	2,231.71	0.00	0.00	0.0
8,000.00	90.13	315.25	4,774.06	2,503.70	-1,217.35	2,727.67	0.00	0.00	0.00
8,500.00	90.13	315.25	4,772.92	2,858.76	-1,569.39	3,223.63	0.00	0.00	0.00
9,000.00	90.13	315.25	4,771.77	3,213.82	-1,921.42	3,719.60	0.00	0.00	0.00
9,500.00	90.13	315.25	4,770,63	3,508.88	-2,2/3.40	4,215.56	0.00	0.00	0.00
10,000.00	90.13	315.25	4,/09.48	3,823.84	-2,025.50	4,711.53	0.00	0.00	0.00
10,500.00	90.13	315.25	4,768.34	4,279.00	-2,977.54	5,207.49	0.00	0.00	0.00
11,000.00	90.13	315.25	4,767.19	4,634.06	-3,329.57	5,703.45	0.00	0.00	0.00
11,500.00	90.13	315.25	4,766.05	4,989.12	-3,681.61	6,199.42	0.00	0.00	0.0
12,000.00	90.13	315.20	4,764.90	5,544.10	-4,033.00	7 085 58	0.00	0.00	0.0
12,000.01	30,13	010.20	4,704.00	0,020,02	-,010.01	1,000.00	0.00	0.00	0.0

WPX

Planning Report

Database: Company: Project: Site: Weil: Weilbore: Design:	COMPASS WPX Energy T23N R9W 2309-14I WLU W Lybrook UT Wellbore #1 Design #1 285	J *#716H Sept16 sam			Local Co-or TVD Refere MD Referen North Refer Survey Calo	dinate Reference: nce: ence: ence: sulation Method:	Well W Lybri GL @ 6719. GL @ 6719. True Minimum Cu	ook UT #716H (A5) - 00usft (Original Well E 00usft (Original Well E rvature	Slot A5 Elev) Elev)
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 #716H - plan hits target co - Point	0.00 enter	0.00	4,644.71	373.96	894.27	1,901,411.64	525,251.87	36.225711	-107.747719
End 60 Tan #716H - plan misses targe - Point	0.00 et center by 0.01	0.00 Jusft at 5072	4,694.71 45usft MD (435.45 4694.71 TVD,	833.29 435.46 N, 83	1,901,473.08 3.29 E)	525,190.84	36.225880	-107.747926
BHL #716H - plan hits target co - Point	0.00 enter	0.00	4,764.00	5,623.52	-4,310.61	1,906,656.77	520,042.52	36.240132	-107.765369
POE #716H - plan hits target co - Point	0.00 enter	0.00	4,780.00	662.52	608.14	1,901,699.96	524,965.50	36.226504	-107.748689
Casing Points						P.			
M	easured Depth (usft)	Vertical Depth (usft)			Name		Casin Diame (in)	ig Hole ter Diameter (in)	
	320.00 5,407.00	320.00 4,780.00	9 5/8" 7"					0.625 12.250 7.000 8.750)

Plan Annotations					
Mea D (1	epth usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
. 1	,000.00	1,000.00	0.00	0.00	Start Build 2.00
2	,159.75	2,128.33	12.55	231.22	Hold 23.19 Inclination
4	122.10	3,932.06	54.43	1,002.98	Start Build DLS 9.00 TFO -138.29
4	972.45	4,644.71	373.96	894.27	Hold 60.00 Inclination
5	072.45	4,694.71	435.46	833.29	Start Build DLS 9.00 TFO -0.01
5	,235.90	4,757,47	542.28	727.37	Start DLS 9.00 TFO 0.01
5	407.24	4,780.00	662.52	608.14	POE at 90.13 Inc 315.24 Deg
12	393.37	4,764.00	5.623.52	-4,310.61	TD at 12393.37





(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.

W Lybrook UT Nos. 710H, 712H, 714H, 716H, 718H, 719H, 751H, 752H, 752H, 753H, 754H, & 755H Oil & Natural Gas Webs Project October 2015





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

in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #716H

1835' FSL & 624' FEL, Section 14, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.224697°N Longitude: 107.751365°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 WPX W Lybrook Unit #710H proposed access on right-hand side:

Go Right (North-westerly) along WPX W Lybrook Unit #710H proposed access for 3412.5° to fork in proposed access;

Go Left (South-westerly) continuing for 1344.8° to staked WPX W Lybrook Unit #716H location.