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>WAX</u>, Well Name and Number <u>W Lybrack Unit #75414</u>

API# 30-045-35817, Section 14, 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.

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10-201

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

form 3160 -3 March 2012)				FORM OMB Expires	4 APPROVED No. 1004-0137 October 31, 2014
UNITED STAT DEPARTMENT OF TH BUREAU OF LAND M	FES E INTERIOR IANAGEMENT			5. Lease Serial No. NOG14031948	
				6. If Indian, Alloted	e or Tribe Name
AFFEIGATION FOR FERMIT	O DINEE OF			EASTERN NAVA.	O
a. Type of work: DRILL REE	ENTER			7 If Unit or CA Age INITIAL MANCOS	reement, Name and No. SPA / NMNM135216A
b. Type of Well: Vil Well Gas Well Other	Si	ngle Zone 🔽 Mu	altiple Zone	8. Lease Name and W LYBROOK UT	Well No. 754H
Name of Operator WPX ENERGY LLC				9. API Well No.	5-35817
a. Address 720 S Main Aztec NM 87410	3b. Phone No	(include area code)		10. Field and Pool, or	r Exploratory
	(505)333-	1822		LYBROOK MANC	OS W/LYBROOK MA
Location of Well (Report location clearly and in accordance wit	th any State requiren	ents.*)		11. Sec., T. R. M. or]	Blk. and Survey or Area
At surface NESE / 1889 FSL / 708 FEL / LAT 36.224 At proposed prod. zone SWSW / 330 FSL / 344 FWL / I	1846 / LONG -10 LAT 36.205966)7.75165 / LONG -107.73	0366	SEC 14 / T23N / F	R9W / NMP
. Distance in miles and direction from nearest town or post office* 37.8 miles			h.	12. County or Parish SAN JUAN	13. State NM
Distance from proposed* location to nearest 20 feet property or lease line, ft.	16. No. of a 160	cres in lease	17. Spacir 440.21	g Unit dedicated to this	well
Distance from proposed location*	19. Pronose	1 Denth	20. BLM/	BIA Bond No. on file	L CONS. DIV DIS
to nearest well, drilling, completed, 708 feet applied for, on this lease, ft.	4699 feet	/ 14518 feet	IND: BO	01576	JAN 31 2017
Elevations (Show whether DF, KDB, RT, GL, etc.) 6719 feet	22 Approxi 12/01/201	nate date work will 6	start*	23. Estimated duration 30 days	on
	24. Atta	chments			
ne following, completed in accordance with the requirements of Or	nshore Oil and Gas	Order No.1, must b	e attached to th	is form:	
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys	tem Lands, the	 Bond to cover Item 20 above Operator cert 	er the operatio e). ification	ns unless covered by an	n existing bond on file (see
SUPO must be filed with the appropriate Forest Service Office)		6. Such other s BLM.	ite specific inf	ormation and/or plans a	is may be required by the
5. Signature (Electronic Submission)	Name Lace	(Printed/Typed) / Granillo / Ph: (5	505)333-181	6	Date 11/03/2016
Permitting Tech III					
pproved by (Signature)	Name	(Printed/Typed)			Date
the AFM	Cffice	INGTON			1 1121117
pplication approval does not warrant or certify that the applicant induct operations thereon. onditions of approval, if any, are attached.	holds legal or equi	table title to those ri	ights in the sub	ject lease which would	entitle the applicant to
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it ates any false, fictitious or fraudulent statements or representations	a crime for any post of any matter w	erson knowingly an ithin its jurisdiction.	d willfully to n	nake to any department	or agency of the United
Continued on page 2)				*(Inst	tructions on page 2)
BLM'S API	PROVAL OR	ACCEPTAN	CE OF TH	IIS	
ACTION D	OES NOT R	ELIEVE THE	LESSEE .	AND	
OPERATO	R FROM OB	TAINING AN	Y OTHER	This action	on is subject to technic
AUTHORIZ	ZATION REC	UIRED FOR	OPERAT	and proci	edural review pursuant
ON FEDER	AL AND IN	DIAN LANDS	5	43 CFR 3	3165.3 and appeal
DIZED ARE SUBJECT TO				pursuant	to 43 CFR 3165.4

DRILLING OPENATIONE AUTHORIZED ARE GUENECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

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NMOCD PY





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 754H	Surface:	
SH Location:	NESE Sec 14 23N-09W	Elevation:	6719' GR
BH Location:	SWSW Sec 19 23N-08W	Minerals:	

Measured Depth: 14,517.52'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	405.00	405.00	POINT LOOKOUT	3,551.00	3,472.00
KIRTLAND	567.00	567.00	MANCOS	3,733.00	3,647.00
PICTURED CLIFFS	1,135.00	1,135.00	GALLUP	4,085.00	3,986.00
LEWIS	1,254.00	1,254.00	KICKOFF POINT	4,009.98	3,912.99
CHACRA	1,438.00	1,436.00	TOP TARGET	4,999.00	4,699.00
CLIFF HOUSE	2,584.00	2,543.00	LANDING POINT	5,276.44	4,757.00
MENEFEE	2,602.00	2,560.00	BASE TARGET	5,276.44	4,757.00
			TD	14,517.52	4,699.00

B. MUD LOGGING PROGRAM:

Mudlogger on location from surface csg to TD.

C. LOGGING PROGRAM:

LWD GR from surface casing to TD.

D. NATURAL GAUGES:

Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

A. MUD PROGRAM:

LSND mud (WBM) will be used to drill the 12-1/4" Surface hole, the 8 ³/" Directional Vertical hole, and the curve portion of the wellbore. A LSND (WBM) or (OBM) will be used to drill the lateral portion of well. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.

B. BOP TESTING:

While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The BOPE will be tested to 2,000 psi (High) for 10 minutes and the annular tested to 1,500 psi for 10 minutes. Pressure test surface casing to 1,500 psi for 30 minutes and intermediate casing to 1,500 psi for 30 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. All tests and inspections will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	12.25"	320.00'	9.625"	36 LBS	J-55 or equiv	STC
INTERMEDIATE	8.75"	5,276.44'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5126.44' - 14,517.52'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5126.44'	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: 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, (873 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 (920 sx /1252 cuft /223 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-199bbl Fr Water. Total Cement (920 sx /1252bbls).

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 #754H - Slot A1

Wellbore #1

Plan: Design #1 28Sept16 sam

Standard Planning Report

28 September, 2016

WPX

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	COM WPX T23N 2309- W Lyl Wellb Desig	PASS Energy R9W 14I WLU prook UT #754 ore #1 n #1 28Sept1	1H 6 sam		Local Co TVD Refe MD Refe North Re Survey C	-ordinate Refe erence: rence: ference: talculation Met	thod:	Well W Lybrook GL @ 6719.00u GL @ 6719.00u True Minimum Curva	UT #754H (A1) Isft (Original Well Isft (Original Well ture	- Slot A1 Elev) Elev)
Project	T23N	R9W					the states and the states of t			
Map System: Geo Datum: Map Zone:	US Stat NAD 19 New Me	e Plane 1927 27 (NADCON exico West 300	(Exact solu CONUS) 03	tion)	System Da	itum:	M	ean Sea Level		
Site	2309-	14I WLU								
Site Position: From: Position Uncertaint	Ma y:	р 0.	N E 00 usft S	lorthing: asting: lot Radius:	1,90 ⁻ 524	1,091.09 usft 4,273.81 usft 13.200 in	Latitude: Longitude: Grid Converg	gence:		36.224833 -107.751036 0.05 °
Well	W Lybr	ook UT #754	I - Slot A1		na an a					
Well Position	+N/-S +E/-W	(0.00 usft 0.00 usft	Northing: Easting:		1,901,091.09 524,273.8	Busft Lat	itude: ngitude:		36.224833 -107.751036
Wellbore	Wellb	ore #1				0.00				0,7 10,00 031
Magnetics	M	odel Name	8	ample Date	Declin (°)	ation	Dip / (Angle °)	Field Str (nT)	ength)
		IGRF20051	0	12/31/2009		9.99		63.07		50,612
Design	Design	#1 28Sept16	sam	ning and a second s			plantakonstructuren auro			
Audit Notes: Version:			F	Phase:	PLAN	Tie	e On Depth:		0.00	-
Vertical Section:			Depth From (usf) 0.00	n (TVD) t)	+N/-S (usft) 0.00	+E (u 0	E/-W I sft) .00	Dir (be 1:	ection aring) 37.58	
Plan Sections	States.	1.		s						
Measured Depth Inc (usft)	lination (°)	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 1,804.80	0.00	0.00 288.92	1,000. 1,794.	00 0.00 26 36.42	0.00 -106.24	0.00	0.00	0.00	0.00 288.92	

4,009.98 16.10 288.92 3,912.99 234.67 -684.58 0.00 0.00 0.00 0.00 -156.53 Start 60 Tan #754H 4,839.11 60.00 135.24 4,621.72 -20.06 -515.97 9.00 -18.54 5.30 4,939.11 60.00 135.24 4,671.72 -81.55 -454.99 0.00 0.00 0.00 End 60 Tan #754H 0.00 5,104.25 74.86 135.24 4,734.92 -189.53 -347.92 9.00 0.00 9.00 0.00 5,276.44 90.36 135.24 4,757.00 -310.41 -228.04 9.00 9.00 0.00 0.00 POE #754H 14,517.52 90.36 135.24 4,699.00 -6,871.98 6,278.87 0.00 0.00 0.00 BHL #754H 0.00

WPX

Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well W Lybrook UT #754H (A1) - Slot A1
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 #754H	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
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								
1,500.00	10.00	288.92	1,497.47	14.11	-41.17	-38.19	2.00	2.00	0.0
1,804.80	16.10	288.92	1,794.26	36.42	-106.24	-98.54	2.00	2.00	0.0
Hold 16.10 In	nclination								
2,000.00	16.10	288.92	1,981.80	53.97	-157.43	-146.03	0.00	0.00	0.0
2,500.00	16.10	288.92	2,462.20	98.92	-288.56	-267.67	0.00	0.00	0.0
3,000.00	16.10	288,92	2,942.60	143.87	-419.70	-389.31	0.00	0.00	0.0
3,500.00	16.10	288.92	3,423.00	188,82	-550.83	-510.95	0.00	0.00	0.0
4,000.00	16.10	288.92	3,903.40	233.77	-681.97	-632.59	0.00	0.00	0.0
4,009.98	16.10	288.92	3,912.99	234.67	-684.58	-635.01	0.00	0.00	0.0
Start Build D	LS 9.00 TFO -1	56.53							
4,500.00	29.90	142.70	4,384.31	155.61	-674.34	-569.74	9.00	2.82	-29.8
4,839.11	60.00	135.24	4,621.72	-20.06	-515.97	-333.23	9.00	8.88	-2.2
Hold 60.00 In 4 939 11	nclination	135 24	4 671 72	-81 55	454 00	-248 70	0.00	0.00	0.0
Start Build D	LS 9.00 TFO 0.0	00	4,071.72	-01.00	-101.00	-2-10.10	0,00	0.00	0.0
5,000.00	65.48	135.24	4,699.60	-119.97	-416.89	-192.64	9.00	9.00	0.0
5,104.25	74.86	135.24	4,734.92	-189.53	-347.92	-94.76	9.00	9.00	0.0
Start DLS 9.0	00 TFO 0.00								
5,276.00	90.32	135.24	4,757.00	-310.10	-228.35	74,90	9.00	9.00	0.0
7"									
5,276.44	90.36	135.24	4,757.00	-310.41	-228.04	75.33	9.00	9.00	0.0
POE at 90.36	i Inc 135.24 Deg								
5,500.00	90.36	135.24	4,755.60	-469.15	-70.63	298.70	0.00	0.00	0.0
6,000.00	90.36	135.24	4,752.46	-824.17	281.44	798.28	0.00	0.00	0.0
6,500.00	90.36	135.24	4,749.32	-1,179.19	633.50	1,297.85	0.00	0.00	0.00
7,000.00	90.36	135.24	4,746.18	-1,534.21	985.57	1,797.42	0.00	0.00	0.00
7,500.00	90,36	135,24	4,743.04	-1,889.23	1,337.63	2,296.99	0.00	0.00	0.00
8,000.00	90.36	135.24	4,739.91	-2,244.26	1,689.70	2,796.57	0.00	0.00	0.00
8,500.00	90.36	135.24	4,736.77	-2,599.28	2,041.76	3,296.14	0.00	0.00	0.00
9,000.00	90.36	135.24	4,733.63	-2,954.30	2,393.82	3,795.71	0.00	0.00	0.00
9,500.00	90.36	135.24	4,730.49	-3,309.32	2,745.89	4,295.28	0.00	0.00	0.00
10,000.00	90.36	135.24	4,727.35	-3,664.34	3,097.95	4,794.86	0.00	0.00	0.00
10,500.00	90.36	135.24	4,724.22	-4,019.37	3,450.02	5,294.43	0.00	0.00	0.00
11,000.00	90.36	135.24	4,721.08	-4,374.39	3,802.08	5,794.00	0.00	0.00	0.00
11,500.00	90.36	135.24	4,717.94	-4,729.41	4,154.15	6,293.57	0.00	0.00	0.00
12,000.00	90.36	135.24	4,714.80	-5,084.43	4,506.21	6,793.14	0.00	0.00	0.00
12,500.00	90.36	135.24	4,711.66	-5,439.46	4,858.28	7,292.72	0.00	0.00	0.00
13,000.00	90.36	135,24	4,708.52	-5,794.48	5,210.34	7,792.29	0.00	0.00	0.00
13,500.00	90.36	135.24	4,705.39	-6,149.50	5,562.40	8,291.86	0.00	0.00	0.00
14,000.00	90.36	135.24	4,702.25	-6,504.52	5,914.47	8,791.43	0.00	0.00	0.00
14,500.00	90.36	135.24	4,699.11	-6,859.54	6,266.53	9,291.01	0.00	0.00	0.00
14,517.52	90.36	135.24	4,699.00	-6,871.98	6,278.87	9,308.51	0.00	0.00	0.00
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WPX

Planning Report

Design:	Design #1 28Sept16 sam		
Weilbore:	Wellbore #1		
Well:	W Lybrook UT #754H	Survey Calculation Method:	Minimum Curvature
Site:	2309-14I WLU	North Reference:	True
Project:	T23N R9W	MD Reference:	GL @ 6719.00usft (Original Well Elev)
Company:	WPX Energy	TVD Reference:	GL @ 6719.00usft (Original Well Elev)
Database:	COMPASS	Local Co-ordinate Reference:	Well W Lybrook UT #754H (A1) - Slot A1

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 #754H - plan hits target cent - Point	0.00 er	0.00	4,621.72	-20.06	-515.97	1,901,070.59	523,757.86	36.224778	-107.752786
End 60 Tan #754H - plan hits target cent - Point	0.00 er	0.00	4,671.72	-81.55	-454.99	1,901,009.16	523,818.89	36.224609	-107.752579
BHL #754H - plan hits target cent - Point	0.00 er	0.00	4,699.00	-6,871.98	6,278.87	1,894,224.44	530,558.51	36.205953	-107.729754
POE #754H - plan hits target cent - Point	0.00 er	0.00	4,757.00	-310.41	-228.04	1,900,780.49	524,046.03	36.223980	-107.751809

Casing Points							
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diamater (in)	
	320.00 5,276.00	320.00 4,757.00	9 5/8" 7"	n La transmonen sistematura dan fanan da sistema su kun kun su kun kun da sistema sistema sistema sistema siste	9.625 7.000	12.250 8.750	

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,000.00	1,000.00	0.00	0.00	Start Build 2.00
1,804.80	1,794.26	36.42	-106.24	Hold 16.10 Inclination
4,009.98	3,912.99	234.67	-684.58	Start Build DLS 9.00 TFO -156.53
4,839.11	4,621.72	-20.06	-515.97	Hold 60.00 Inclination
4,939.11	4,671.72	-81.55	-454.99	Start Build DLS 9.00 TFO 0.00
5,104.25	4,734,92	-189.53	-347.92	Start DLS 9.00 TFO 0.00
5,276.44	4,757.00	-310.41	-228.04	POE at 90.36 Inc 135.24 Deg
14,517.52	4,699.00	-6,871.98	6.278.87	TD at 14517.52

1

(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
 - 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 Lybrook Unit #754H

1889' FSL & 708' FEL, Section 14, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.224846°N Longitude: 107.751650°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 #754H location.