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.

Operator Signature Date: 1-3-10 Well information;
Operator WPX, Well Name and Number Wy book With #7
API#30.045-35844, Section, Township 33 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
O Submit Gas Capture Plan form prior to spudding or initiating recompletion operations
Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.
Charles 4-24.2017
NMOCD Approved by Signature 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)

LIMITED STATES

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

DEPARTMENT OF THE				5. Lease Serial No. NMNM121961	
BUREAU OF LAND 1 APPLICATION FOR PERMIT				6. If Indian, Allotee or	Tribe Name
la. Type of work:	EENTER		- July	7 If Unit or CA Agreen INITIAL MANCOS PA	
lb. Type of Well: Oil Well Gas Well Other	Si	ngle Zone Multi	ple Zone	8. Lease Name and We W LYBROOK UT 762	
Name of Operator WPX ENERGY LLC				9. API Well No.	5844
3a. Address 720 S Main Aztec NM 87410	3b. Phone No. (505)333-	o. (include area code) 1822		10. Field and Pool, or Ex LYBROOK MANCOS	
Location of Well (Report location clearly and in accordance we At surface NENW / 1121 FNL / 2446 FWL / LAT 36 At proposed prod. zone SENE / 2057 FNL / 330 FEL /	.202067 / LONG	-107.776798	57	11. Sec., T. R. M. or Blk. SEC 27 / T23N / R9V	•
14. Distance in miles and direction from nearest town or post office 37.8 miles	e*			12. County or Parish SAN JUAN	13. State NM
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 a	acres in lease	17. Spaci 440	ng Unit dedicated to this wel	NS. DIV DIST.
 Distance from proposed location* to nearest well, drilling, completed, 1121 feet applied for, on this lease, ft. 	19. Propose 4461 feet	d Depth / 15045 feet		/BIA Bond No. on file AF	PR 17 2017
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6641 feet	22. Approxi 12/01/201	mate date work will sta	urt*	23. Estimated duration 30 days	
	24. Atta	chments			
The following, completed in accordance with the requirements of 0. 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest Sysuppose Suppose Supp	ystem Lands, the	Bond to cover t Item 20 above). Operator certification.	he operation	his form: ons unless covered by an ex formation and/or plans as m	
25. Signature (Electronic Submission)		(Printed/Typed) y Granillo / Ph: (50	5)333-181		nte 1/03/2016
Permitting Tech III					
Approved by (Signature) A. Gilleger	Name	(Printed/Typed)	4. G	HCCECOS D	ate 4/10/20
Pille AFM-MINERALS	Office	MINGTON			/
Application approval does not warrant or certify that the applican conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal or equi	table title to those righ	its in the su	bject lease which would entit	tle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representation	it a crime for any pons as to any matter w	erson knowingly and vithin its jurisdiction.	willfully to	make to any department or a	gency of the United

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

*(Instructions on page 2)

(Continued on page 2)

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

NMOCDIA

District I
1625 N French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised August 1, 2011

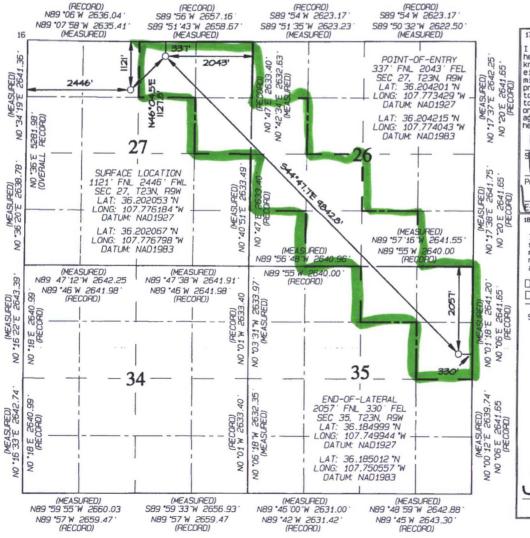
Submit one copy to Appropriate District Office

AMENDED REPORT

OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe. NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Name Pool Code LYBROOK MANCOS W 30-045-35844 Property Code Well Number Property Name 315250 W LYBROOK UNIT 762H OGRID No. Elevation *Operator Name WPX ENERGY PRODUCTION, LLC 120782 6641 ¹⁰ Surface Location Feet from the North/South line County Section Lot Idn Feet from the East/West line C 27 23N 9W 1121 NORTH 2446 WEST SAN JUAN ¹¹ Bottom Hole Location If Different From Surface UL or lot no North/South line County Sect ior Feet from the Feet from the Township East/West line 23N 35 9W EAST H 2057 NORTH 330 SAN JUAN Dedicated 440.00 ¹⁵ Order No. 13 Joint or Infill 14 Consolidation Code SW/4 NW/4. N/2 SW/4 R-14051 - 12.807.24 Acres SE/4 SW/4, SW/4 SE/4 - Section 26 N/2 NE/4, SE/4 NE/4 - Section 27 N/2 NE/4. SE/4 NE/4 -Section

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION "OPERATOR CERTIFICATION
I hereby certify that the information contained
herein is true and complete to the best of my
knowledge and belief, and that this organization
either owns a working interest or unleased
mineral interest in the land including the
proposed bottom-hole location or has a right
to drill this well at this location pursuant
to a contract with an owner of such a mineral
or working interest, or to a voluntary pooling
agreement or a confusion proter
hereofordements by the division. 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 und my supervision, and that the same is true and correct to the best of my belief Date Revised: OCTOBER 26, 2016 Date of Survey: MARCH 10, 2016 Signature and Seal of Professional Surveyor EDWARDS JASON C. MEXICO EW REGISTER 15269 200 SAME ADOFESSIONAL. **DWARDS** 15269 Certificate Number



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 #762H

Surface:

SH Location:

NENW Sec 27 23N-09W

Elevation: 6641' GR

BH Location:

SENE Sec 35 23N-09W

Minerals:

Measured Depth: 15,044.75

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

THE POST OF THE PERSON OF THE					
NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	193.00	193.00	POINT LOOKOUT	3,460.00	3,260.00
KIRTLAND	355.00	355.00	MANCOS	3,653.00	3,435.00
PICTURED CLIFFS	925.00	923.00	GALLUP	4,025.00	3,774.00
LEWIS	1,010.00	1,007.00	KICKOFF POINT	3,917.37	3,674.57
CHACRA	1,232.00	1,224.00	TOP TARGET	5,092.00	4,504.00
CLIFF HOUSE	2,435.00	2,331.00	LANDING POINT	5,201.84	4,513.00
MENEFEE	2,453.00	2,348.00	BASE TARGET	5,201.84	4,513.00
			TD	15,044.75	4,461.00

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"	5,201.84'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5051.84' - 15,044.75	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5051.84'	4.5"	11.6 LBS	P-110 or equiv	LTC

B. FLOAT EQUIPMENT:

1. SURFACE CASING:

9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.

2. INTERMEDIATE CASING:

7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. If losses are encountered during the drilling of the intermediate section a DV tool will be utilized and a 2 stage cement job may be planned to ensure cement circ back to surface. The DV tool will be placed 100' above the top of the Chacra formation. If cement is circulated back to surface on the first stage, a cancelation device will be dropped to shift the dv tool closed and the 2nd stage cement job will be aborted at that time, if no cement is seen at surface on the 1st stage the stage tool will be opened and a 2nd stage cement job will be pumped.

3. PRODUCTION LINER:

Run 4-1/2" Liner with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve) positioned inside the 330ft Hard line. Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers. Set seals on Liner Hanger. Test TOL to 1500 psi for 15 minutes.

C. CEMENT:

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

1. Surface:

5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC 12 hours. Test csg to 600psi. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.

2. Intermediate:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 94 bbls, 269 sks, (529 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/ +/- 205 bbl Drilling mud or water. Total Cement: 153 bbls, 523 sks, (860 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 (979 sx /1332 cuft /237 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-207bbl Fr Water. Total Cement (979 sx /1332bbls).

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 2309-27C WLU W Lybrook UT #762H - Slot A1

Wellbore #1

Plan: Design #1 26May16 sam

Standard Planning Report

31 May, 2016

WPX

Planning Report

COMPASS Database: Company: **WPX Energy T23N R9W** Project: Site: 2309-27C WLU Well: W Lybrook UT #762H Wellbore:

Wellbore #1 Design #1 26May16 sam Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook UT #762H (A1) - Slot A1 GL @ 6641.00usft (Original Well Elev) GL @ 6641.00usft (Original Well Elev)

True Minimum Curvature

Project

Design:

T23N R9W

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 2309-27C WLU

Site Position: From:

Мар

Northing: Easting:

1,892,793.57 usft 516,861.23 usft

Latitude: Longitude:

36.202053 -107.776184 0.03°

Position Uncertainty:

Slot Radius:

13.200 in

Grid Convergence:

0.00 usft

Well **Well Position** W Lybrook UT #762H - Slot A1

+N/-S +E/-W 0.00 usft 0.00 usft

Northing: Easting:

1,892,793.57 usft 516,861,23 usft Latitude: Longitude:

36.202053 -107.776184

Position Uncertainty

0.00 usft

Wellhead Elevation:

0.00 usft

Ground Level:

6,641.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle	Field Strength
	IGRF2015	5/2/2016	9.32	62.89	49,846

Design	Design #1 26May16 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)	
	0.00	0.00	0.00	128.71	

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	
(usft)	(*)	(bearing)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	Target
0.00	0.00	0.00	0.00	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	
1,751.40	25.03	9.07	1,711.98	265.63	42.42	2.00	2.00	0.00	9.07	
3,917.37	25.03	9.07	3,674.57	1,170.51	186.91	0.00	0.00	0.00	0.00	
4,765.15	60.00	135.24	4,377.72	1,071.91	525.22	9.00	4.13	14.88	133.98	Start 60 tan #762h
4,865.15	60.00	135.24	4,427.72	1,010.42	586.20	0.00	0.00	0.00	0.00	End 60 tan #762H
5,036.81	75.45	135.24	4,492.59	897.96	697.72	9.00	9.00	0.00	0.00	
5,201.84	90.30	135.24	4,513.00	782.01	812.70	9.00	9.00	0.00	0.00	POE #762H
15.044.75	90.30	135.24	4,461.00	-6,206.94	7,743.40	0.00	0.00	0.00	0.00	BHL #762H

WPX

Planning Report

Database: Company: COMPASS WPX Energy

 Company:
 WPX Energy

 Project:
 T23N R9W

 Site:
 2309-27C WLU

Well: W Lybrook UT #762H

Wellbore: Wellbore #1
Design: Design #1 26May16 sam

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook UT #762H (A1) - Slot A1 GL @ 6641.00usft (Original Well Elev) GL @ 6641.00usft (Original Well Elev)

True

Minimum Curvature

jn:	Design #1 26N	nay to sain	Consumer San makest cuderentes	and the second second			and the state of t	and the state of t	
ned 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
Start Build 2	.00								
1,000.00	10.00	9.07	997.47	42.98	6.86	-21.53	2.00	2.00	0.00
1,500.00	20.00	9.07	1,479.82	170.61	27.24	-85.45	2.00	2.00	0.00
1,751.40	25.03	9.07	1,711.98	265.63	42.42	-133.04	2.00	2.00	0.00
Hold 25.03 h	nclination								
2,000.00	25.03	9.07	1,937.24	369.49	59.00	-185.06	0.00	0.00	0.00
2,500.00	25.03	9.07	2,390.29	578.38	92.36	-289.68	0.00	0.00	0.00
3,000.00	25.03	9.07	2,843.34	787.26	125.71	-394.30	0.00	0.00	0.00
3,500.00	25.03	9.07	3,296.39	996.14	159.07	-498.92	0.00	0.00	0.00
3,917.37	25.03	9.07	3,674.57	1,170.51	186.91	-586.25	0.00	0.00	0.00
	LS 9.00 TFO 13								
4,000.00	20.53	24.48	3,750.80	1,201.00	195.68	-598.47	9.00	-5.45	18.64
4,500.00	38.26	121.96	4,204.82	1,198.72	372.52	-459.07	9.00	3.55	19.50
4,765.15	60.00	135.24	4,377.72	1,071.91	525.22	-260.61	9.00	8.20	5.01
Hold 60.00 Ir 4,865.15	60.00	135.24	4,427.72	1,010.42	586.20	-174.57	0.00	0.00	0.00
	LS 9.00 TFO 0.0		7 1 1 1 1 1 1 1 1 1	TO I VIEW	500.20	-117.01	0.00	0.00	0.00
5,000.00	72.14	135.24	4,482.32	923.06	672.83	-52.33	9.00	9.00	0.00
5,000.00	75.45	135.24	4,492.59	897.96	697.72	-52.33	9.00	9.00	0.00
Start DLS 9.0		100.24	4,432.00	057.50	037.72	-11.22	3.00	3.00	0.00
5,201.84	90.30	135.24	4,513.00	782.01	812.70	145.02	9.00	9.00	0.00
	Inc 135,24 Deg		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.2	. ,			
5,202.00	90.30	135.24	4,513.00	781.90	812.81	145.18	0.00	0.00	0.00
7"			,						
5,500.00	90.30	135.24	4,511.42	570.30	1,022.64	441.24	0.00	0.00	0.00
6,000.00	90.30	135.24	4,508.78	215.28	1,374.71	938.00	0.00	0.00	0.00
6,500.00	90.30	135.24	4,506.14	-139.75	1,726.78	1,434.75	0.00	0.00	0.00
7,000.00	90.30	135.24	4,503.50	-494.77	2,078.84	1,931.51	0.00	0.00	0.00
7,500.00	90.30	135.24	4,500.86	-849.80	2,430.91	2,428.26	0.00	0.00	0.00
8,000.00	90.30	135.24	4,498.22	-1,204.82	2,782.97	2,925.02	0.00	0.00	0.00
8,500.00	90.30	135.24	4,495.58	-1,559.85	3,135.04	3,421.77	0.00	0.00	0.00
9,000.00	90.30	135.24	4,492.93	-1,914.87	3,487.11	3,918.52	0.00	0.00	0.00
9,500.00	90.30	135.24	4,490.29	-2,269.90	3,839.17	4,415.28	0.00	0.00	0.00
10,000.00	90.30	135.24	4,487.65	-2,624.92	4,191.24	4,912.03	0.00	0.00	0.00
10,500.00	90.30	135.24	4,485.01	-2,979.95	4,543.30	5,408.79	0.00	0.00	0.00
11,000.00	90.30	135.24	4,482.37	-3,334.97	4,895.37	5,905.54	0.00	0.00	0.00
11,500.00	90.30	135.24	4,479.73	-3,690.00	5,247.43	6,402.30	0.00	0.00	0.00
12,000.00	90.30	135.24	4,477.09	-4,045.02	5,599.50	6,899.05	0.00	0.00	0.00
12,500.00	90.30	135.24	4,474.44	-4,400.05	5,951.57	7,395.80	0.00	0.00	0.00
13,000.00	90.30	135.24	4,471.80	-4,755.07	6,303.63	7,892.56	0.00	0.00	0.00
13,500.00	90.30	135.24	4,469.16	-5,110.10	6,655.70	8,389.31	0.00	0.00	0.00
14,000.00	90.30	135.24	4,466.52	-5,465.12	7,007.76	8,886.07	0.00	0.00	0.00
14,500.00	90.30	135.24	4,463.88	-5,820.14	7,359.83	9,382.82	0.00	0.00	0.00
15,000.00	90.30	135.24	4,461.24	-6,175.17	7,711.90	9,879.58	0.00	0.00	0.00
15,044.75	90.30	135.24	4,461.00	-6,206.94	7,743.40	9,924.03	0.00	0.00	0.00
TD at 15044.7	75								

WPX

Planning Report

 Database:
 COMPASS

 Company:
 WPX Energy

 Project:
 T23N R9W

 Site:
 2309-27C WLU

 Well:
 W Lybrook UT #762H

 Wellbore:
 Wellbore #1

Design:

Design #1 26May16 sam

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well W Lybrook UT #762H (A1) - Slot A1 GL @ 6641.00usft (Original Well Elev) GL @ 6641.00usft (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 #762H - plan hits target cent - Point	0.00 ter	0.00	4,377.72	1,071.91	525.22	1,893,865.79	517,385.82	36.204998	-107.774404
End 60 tan #762H - plan hits target cent - Point	0.00 er	0.00	4,427.72	1,010.42	586.20	1,893,804.34	517,446.84	36.204829	-107.774197
BHL #762H - plan hits target cent - Point	0.00 er	0.00	4,461.00	-6,206.94	7,743.40	1,886,591.19	524,608.29	36.184999	-107.749945
POE #762H - plan hits target cent - Point	0.00 er	0.00	4,513.00	782.01	812.70	1,893,576.06	517,673.47	36.204201	-107.773430

Casing Points							
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)	
	320.00 5,202.00	320.00 4,513.00	9 5/8" 7"		9.625 7.000	12.250 8.750	

Measured	Vertical	Local Goor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
500.00	500.00	0.00	0.00	Start Build 2.00
1,751.40	1,711.98	265.63	42.42	Hold 25.03 Inclination
3,917.37	3,674.57	1,170.51	186.91	Start Build DLS 9.00 TFO 133.98
4,765.15	4,377.72	1,071.91	525.22	Hold 60.00 Inclination
4,865.15	4,427.72	1,010.42	586.20	Start Build DLS 9.00 TFO 0.00
5,036.81	4,492.59	897.96	697.72	Start DLS 9.00 TFO 0.00
5,201.84	4,513.00	782.01	812.70	POE at 90.30 Inc 135.24 Deg
15,044.75	4.461.00	-6.206.94	7,743.40	TD at 15044.75

WPXENERGY ... +N/-1

Well Name: W Lyb k UT #762H

Surface Location: 2309-27C WLU

NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico W

Ground Elevation: 6641.00

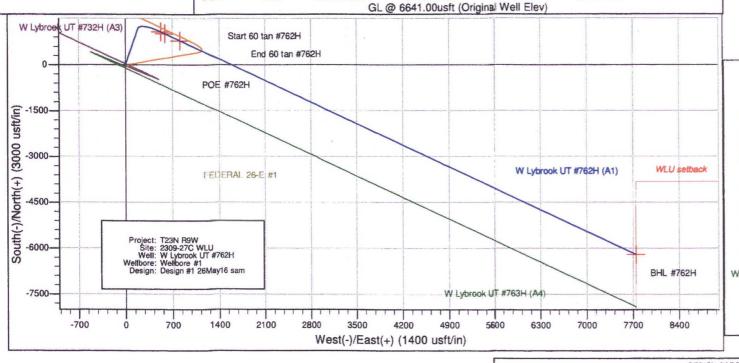
+N/-S +E/-W Northing 0.00 0.00 1892793.57

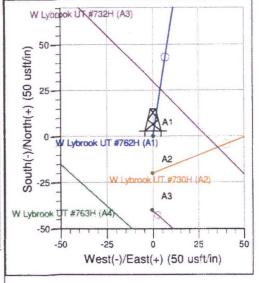
Easting Latittude 516861.23 36.202053

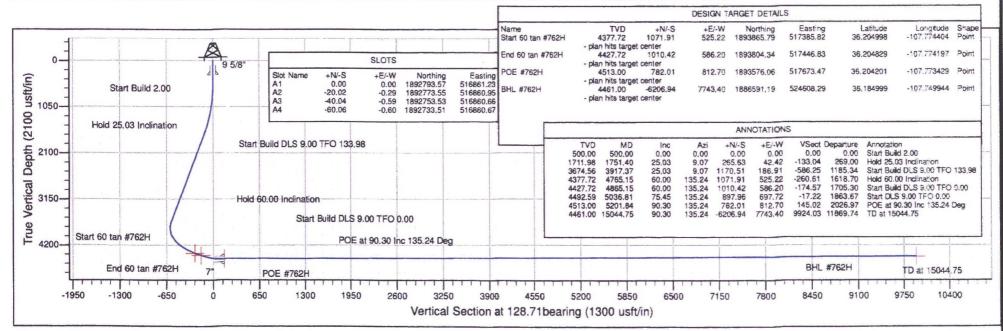
Longitude -107.776184

Slot A1 Azimuths to True North Magnetic North: 9.325

Magnetic Field Strength: 49845.7snT Dip Angle: 62.89* Date: 5/2/2016 Model: IGRF2015







- 2 As practical, the access road on the well pad will be a teardrop-shape through the area so that the center may be revegetated.
- Within 90 days of installation, production facilities would be painted.
 - The production facilities will be painted Juniper Green to blend with the natural color of the landscape surrounding the well pad 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

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

D. Sewage

Portable toilets will be provided and maintained during construction, as needed (see Figures 3 & 4 in Appendix B for the location of toilets).

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

- 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:

- 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 1/4, Section 14, Township 23 North, Range 7 West
 - Jillson Federal #1, NMOCD order #R-10168, operated by ConocoPhillips, located in NW
 ½, 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

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

in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #762H

1121' FNL & 2446' FWL, Section 27, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.202067°N Longitude: 107.776798°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 four-way intersection:

Go Left (South-easterly) remaining on County Road #7890 for 0.6 miles to fork in roadway:

Go Right (South-westerly) remaining on County Road #7890 for 0.5 miles to WPX W Lybrook Unit #720H proposed access on right-hand side of County Road #7890;

Go Right (Westerly) exiting County Road #7890 following along WPX W Lybrook Unit #720H proposed access for 3123.1° to fork in proposed access:

Go Left (Westerly) which is straight, following along WPX W Lybrook Unit #726H proposed access for 3937.3° to fork in proposed access:

Go Left (Westerly) which is straight, continuing for 10,437.9' to staked WPX W Lybrook Unit #762H location.

