State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor	SATE OF NEW MEARS
Tony Delfin Acting Cabinet Secretary	David R. Catanach, Division Director Oil Conservation Division
New Mexico Oil Conservation Division	-1-
listed below are made in accordance with	
addition to the actions approved by BLM	on the following <u>3160-4 or 3160-5</u>
form.	
Operator Signature Date: 11/29/16 Well information:	
API WELL# Well Name Well Operator Name	Type Stat County Surf_Owner UL Sec Twp N/S Rng W/E
30-045-35727- W LYBROOK 703H WPX ENERGY PRODUCTION, LLC	O N San F N 8 23 N 8 W
Drilling/Casing Change	
Conditions of Approval: (See the below checked and additional condition	(2)
Notify Aztec OCD 24hrs prior to casing & cemen	
✓ Hold C-104 for directional survey & "As Drilled"	
✓ Hold C-104 for ✓ NSL, ☐ NSP, ☐ DHC	
Spacing rule violation. Operator must follow up shut in or abandoned	with change of status notification on other well to be
☐ Ensure compliance with 19.15.17	In the second se
the surface, the operator shall drill without interruption immediately set in cement the water protection string	
Regarding Hydraulic Fracturing, review EPA Un Oil base muds are not to be used until fresh wate from the oil or diesel. This includes synthetic oils 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 wit	h 19.15.29.8.
Additional requirements	
If cement fails to circulate on any of the stages, notif	y OCD.
Kohnie Park	
NMOCD Approved by Signature	Date

RECEIVED

Form 3160-5 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR

NOV 2 1 2016

FORM APPROVED OMB No. 1004-0137 Expires: March 31, 2007

BUREAU OF LAN	ND MANAGEMENT	Expires: March 31, 2007
		5. Lease Serial No.
SUNDRY NOTICES AND	REPORTS ON WEILL Smington Field	Office NO-G-1403-1908
Do not use this form for prop	osals to drill or to resenter and Mana 60-3 (APD) for such proposals.	6. If Indian, Allottee or Tribe Name NMNM-135216A
	TE – Other instructions on page 2.	7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well	E - Outer modulations on page 2.	W LYBROOK UNIT
Oil Well Gas Well	Other	8. Well Name and No. W LYBROOK UT #703H
2. Name of Operator WPX Energy Production, LLC		9. API Well No. 30-045-35727
3a. Address PO Box 640 Aztec, NM 87410	3b. Phone No. (include area code) 505-333-1816	10. Field and Pool or Exploratory Area Basin Mancos
4. Location of Well (Footage, Sec., T.R.M., or Surve) SHL: 1212' FSL & 1366' FWL Sec 8, T23N 8W BHL: 1044' FSL & 1970' FWL Sec 6, T23N 8W	y Description)	11. Country or Parish, State San Juan, NM
12. CHECK THE APPROPRIAT	E BOX(ES) TO INDICATE NATURE OF NOTICE	E, REPORT OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent Acidize Alter Casing		Start/Resume) Water Shut-Off
Subsequent Report Casing Repair Change Plans	☐ New Construction ☐ Recomplete ☐ Temporarily	Abandon Other
Final Abandonment Notice Convert to Injection	Plug Back Water Dispo	sal
all pertinent markers and zones. Attach the Bond usubsequent reports must be filed within 30 days for recompletion in a new interval, a Form 3160-4 murequirements, including reclamation, have been completed by the lateral new MPX requests to change the lateral new markers.	tionally or recomplete horizontally, give subsurface under which the work will be performed or provide to bllowing completion of the involved operations. If the last be filed once testing has been completed. Final Alempleted and the operator has determined that the site of the last check Directional. One plan a	locations and measured and true vertical depths of he Bond No. on file with BLM/BIA. Required e operation results in a multiple completion or bandonment Notices must be filed only after all e is ready for final inspection.)
OIL CONS.	DIV DIST. 3	IO OF ADDDOVAL
OIL CO.	CONDITION	NS OF APPROVAL
DEC	1 2016 CONDITION Adhere to prev	iously issued stipulations
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Lacey Granillo	Title Permit Tech III	· Ann
Signature O	Date 11/21/16 CE FOR FEDERAL OR STATE OFFI	CELISE
Approved by	CE FOR FEDERAL OR STATE OFFI	CE USE
Abdelga dir Zimadan: Conditions of approval, if any, are attached. Approval of the	Title PE	Date 11/29//6
conditions of approval, if any, are attached. Approval of the certify that the applicant holds legal or equitable title to the which would entitle the applicant to conduct operations the	ose rights in the subject lease Office	0
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1 United States any false, fictitious or fraudulent statements		

(Instructions on page 2)



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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION South St. Francis Drive

Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

AMENDED REPORT Santa Fe, NM 87505 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone (505) 476-3460 Fax (505) 476-3462 Lateral Change WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code 'API Number LYBROOK MANCOS W 30-045-3572 Property Code Well Number Property Name 703H W LYBROOK UNIT 31525 OGRID No. Elevation *Operator Name 6823 120782 WPX ENERGY PRODUCTION, LLC 10 Surface Location 8 23N SOUTH 1366 WEST N 8W 1212 SAN JUAN Bottom Hole Location If Different From Surface 23N WEST 6 BW 1044 SOUTH 1970 SAN JUAN N 11 Joint or Infall * Consolidation Code Dedicated 323.68 R-14051 - 12,807,24 Acres SE/4 SW/4, SW/4 SE/4 N/2 NE/4, SE/4 NE/4 N/2 SW/4, SW/4 NW/4 (Section 6) (Section 7) (Section 8) NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED (RECORD) N89 "57 W 2651.55" S89 "58 '24" W 2650.23 (MEASURED) (RECORD) S89 "32 W 2654.52" S89 "27"51"W 2653.43 (MEASURED) (RECORD) N89 '57 W 2651.55 (RECORD) N89 '57 W 2651.55 OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION S89 "59 '00 W 2650.73" (MEASURED) 589 '58 '43 W 2650.36 (MEASURED) 16 NO "03" W 2638.58" NO "05 "09" W 2638.73" (MEASURED) (NEASURED) NO.1 "30 "57" W 2645.23" (MEASURED) NO2 'D6' 01 'W 2697.32 LOT LOT LOT LOT OPERATOR CERTIFICATION LOT LOT NO2 "01 W 2700.06 (RECOPD) LOT 28 W 2641.98 (RECORD) 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 unlessed 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 arcompulsory pooling order heretofore entered by the division. Date Date LOT 32 08 W 2653.24" END-OF-LATERAL 1044 ' FSL 1970 ' FML SEC 6, T23N, PBN LAT: 36.251711 'N LONG: 107.724889 'N DATUM: NAD1927 NO "03" W 2638.68" NO "07" 33" W 2639.01" (MEASURED) NO2 '05 '00 'W 2660.60' NO1 '28 W 2655.84 (RECORD) LOT LOT 1970 DPVCA LAT: 36.251723 N ONG: 107.725502 N DATUM: NAD1983 LOT *SURVEYOR CERTIFICATION (MEASURED) S89 *20 '06 W 2624.22 S89 '21 '36 W 2622.58' I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 589 "24 W 2622.84" (RECORD) (MEASURED) NB7 "58" 25" W 2861.91 NO "03 W 2638.68" NO "05 23 W 2637.27" (MEASUPED) NO 35 35 W 2654.70 N87 '59 W 2861.76 (RECORD) POINT-OF-ENTRY 1332 ' FSL 1453 ' FWL SEC 8, T23N, RBM LAT: 36-237984 'N LONG: 107.708015 'W DATUM: NAD1927 NO 31 W 2654.85 (RECORD) Date Revised: NOVEMBER 17, 2016 Survey Date: DECEMBER 19, 2014 LOT 1 Signature and Seal of Professional Surveyor C. EDWARDS NO '06 53 LOT LAT: 36.237997 N LONG: 107.708627 W DATUM NAD1983 JASON MEXICO JEN NOA 42 W 2767.38 NOA 45 V3 W 2767.32 NOA 45 V3 W 2767.32 NO 33 50 W 2657.65 NO '01 W 2660.79" NO '06 '25 W 2657.18" NEASTRED SURFACE LOCATION 1212' FSL 1366' FWL SEC 8, T23N, RBN LAT: 36 237651'N LONG: 107.708310'N DATUM: NAD1927 LOT 3 NO 31 W 2654.85 NO5*316E 144J APOFESSION! LAT: 36.237664 'N LONG: 107.708922 'W DATUM: NAD 1983 LOT DWARDS (MEASURED) S89 *18 '41 'W 2646.88 S89 *25 W 2646.93 * (RECORO) (NEASURED) NB9 "55 43" W 2630.64" NB9 "52" W 2632.74" (RECORD) (MEASURED) 589 '16 '40 W 2635.30' (MEASURED) 589 '21 '00' W 2643.29' Certificate Number 15269

'25 W 2646.93 (RECORD)



WPX Energy

Operations Plan

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

Date:

November 21, 2016

Field:

Lybrook Mancos W

Well Name:

W Lybrook # 703H

Surface:

SH Location:

SESW Sec 8 23N-08W

Elevation: 6823' GR

BH Location:

SESW Sec 6 23N-08W

Minerals:

Measured Depth: 12,697.15'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	838.00	838.00	POINT LOOKOUT	3,903.00	3,825.00
KIRTLAND	1,046.00	1,046.00	MANCOS	4,107.00	4,012.00
PICTURED CLIFFS	1,422.00	1,422.00	GALLUP	4,481.00	4,361.00
LEWIS	1,533.00	1,533.00	KICKOFF POINT	4,322.65	4,208.74
CHACRA	1,792.00	1,792.00	TOP TARGET	5,425.00	5,088.00
CLIFF HOUSE	2,874.00	2,867.00	LANDING POINT	5,645.40	5,129.00
MENEFEE	2,924.00	2,916.00	BASE TARGET	5,645.40	5,129.00
			TD	12,697.15	5,123.00

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"	5,645.40'	7" •	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5495.4' - 12,697.15'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5495.4'	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 utalized and a 2 stage cement job may be planned to ensure cement circ back to surface. The DV tool will be placed 100' above the top of the Chacra formation. If cement is circulated back to surface on the first stage, a cancelation device will be dropped to shift the dv tool closed and the 2nd stage cement job will be aborted at that time, if no cement is seen at surface on the 1st stage the stage tool will be opend and a 2nd stage cement job will be pumped.

3. PRODUCTION LINER:

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

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: 107 bbls, 306 sks, (603 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/ +/- 222 bbl Drilling mud or water. Total Cement: 166 bbls, 560 sks, (934 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 (706 sx /960 cuft /171 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-169bbl Fr Water. Total Cement (706 sx /960bbls).

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).



the constant

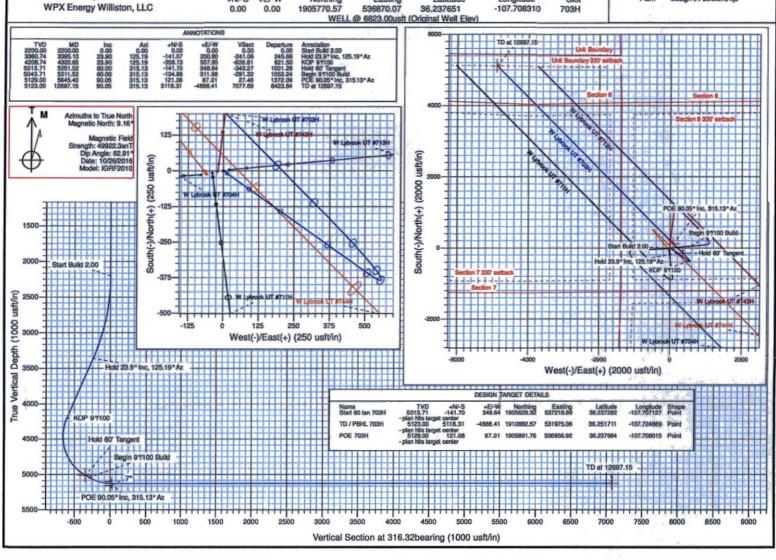
Well Name: W Lybrook UT #703H Surface Location: 2308-08N WLU

NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution) New Mexico West 3003

Ground Elevation: 6823.00

Easting Longitude +N/-S Northing Latittude

0.00 1905770.57 536870.07 36.237651 -107.708310 703H





WPX Energy

T23N R8W 2308-08N WLU W Lybrook UT #703H - Slot 703H

Wellbore #1

Plan: Design #1 26Oct16 kjs

Standard Planning Report - Geographic

28 October, 2016



Planning Report - Geographic

Database: Company:

COMPASS WPX Energy **T23N R8W**

Project: Site: 2308-08N WLU Well: W Lybrook UT #703H

Wellbore: Wellbore #1 Design: Design #1 26Oct16 kjs **Local Co-ordinate Reference:**

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook UT #703H - Slot 703H

WELL @ 6823.00usft (Original Well Elev) WELL @ 6823.00usft (Original Well Elev)

Minimum Curvature

Project

T23N R8W

Map System: Geo Datum:

Map Zone:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico West 3003

System Datum:

Mean Sea Level

Site

2308-08N WLU

Site Position: From:

Map

Northing: Easting:

1,906,343.71 usft 537,196.07 usft

Longitude:

36.239225

Position Uncertainty:

Slot Radius:

13.200 in

-107.707202

0.00 usft

Grid Convergence:

0.07

Well

W Lybrook UT #703H - Slot 703H

Well Position

+N/-S +E/-W 0.00 usft 0.00 usft Northing: Easting:

1,905,770.57 usft 536,870.07 usft Latitude: Longitude:

36.237651 -107.708310

Position Uncertainty

0.00 usft

Wellhead Elevation:

10/26/2016

0.00 usft

9.16

Ground Level:

62.91

6,823.00 usft

Wellbore Wellbore #1

Model Name

Sample Date

Declination (°)

Dip Angle (")

Field Strength (nT)

49,922

Design

Magnetics

Design #1 26Oct16 kjs

IGRF2010

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD)

+N/-S

+E/-W

Direction

(usft) 0.00

(usft) 0.00

(usft) 0.00

(bearing) 316.32

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0,00	0.00	0.00	0.00	
3,395.10	23.90	125.19	3,360.74	-141.57	200.80	2.00	2.00	0.00	125.19	
4,322.65	23.90	125,19	4,208.74	-358.13	507.95	0.00	0.00	0.00	0.00	
5,251.52	60.00	315.13	5,013.71	-141.70	348.64	9.00	3.89	-18.31	-171.35	Start 60 tan 703H
5,311.52	60.00	315.13	5,043.71	-104.88	311.98	0.00	0.00	0.00	0.00	
5,645.40	90.05	315.13	5,129.00	121.08	87.01	9.00	9.00	0.00	0.00	
12,697.15	90.05	315.13	5,123.00	5,118,31	-4,888.41	0.00	0.00	0.00	0.00	TD / PBHL 703H



Planning Report - Geographic

Database: COMPASS
Company: WPX Energy
Project: T23N R8W
Site: 2308-08N WLU

Well: W Lybrook UT #703H
Wellbore: Wellbore #1

Design #1 26Oct16 kjs

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook UT #703H - Slot 703H WELL @ 6823.00usft (Original Well Elev) WELL @ 6823.00usft (Original Well Elev)

True

Minimum Curvature

ned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
200.00	0.00	0.00	200.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
351.00	0.00	0.00	351.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
9 5/8"									
400.00	0.00	0.00	400.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
600.00	0.00	0.00	600.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
800.00	0.00	0.00	800.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
1,200.00	0.00	0.00	1,200.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
1,400.00	0.00	0.00	1,400.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
1,600.00	0.00	0.00	1,600.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
1,800.00	0.00	0.00	1,800.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
2,000.00	0.00	0.00	2,000.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
2,200.00	0.00	0.00	2,200.00	0.00	0.00	1,905,770.57	536,870.07	36.237651	-107.70
Start Bui	PART SHARE S					STATISTICS A			
2,400.00	4.00	125.19	2,399.84	-4.02	5.70	1,905,766.56	536,875.78	36.237640	-107.70
2,600.00	8.00	125.19	2,598.70	-16.07	22.79	1,905,754.54	536,892.88	36.237607	-107.70
2,800.00	12.00	125.19	2,795.62	-36.07	51.16	1,905,734.57	536,921.28	36.237552	-107.70
3,000.00	16.00	125,19	2,989.64	-63.95	90.70	1,905,706.74	536,960.85	36.237476	-107.70
3,200.00	20.00	125.19	3,179.82	-99.55	141.20	1,905,671.20	537,011.40	36.237378	-107.70
3,395.10	23.90	125.19	3,360.74	-141.57	200.80	1,905,629.26	537,071.05	36.237262	-107.70
	° Inc, 125.19°								Contract of the
3,400.00	23.90	125.19	3,365.22	-142.71	202.42	1,905,628.12	537,072.67	36.237259	-107.70
3,600.00	23.90	125.19	3,548.06	-189.41	268.65	1,905,581.51	537,138.96	36.237131	-107.70
3,800.00	23.90	125.19	3,730.91	-236.10	334.88	1,905,534.90	537,205.25	36,237003	-107.70
4,000.00	23.90	125.19	3,913.76	-282.80	401.11	1,905,488.29	537,271.54	36.236874	-107.70
4,200.00	23.90	125.19	4,096.61	-329.49	467.33	1,905,441.68	537,337.83	36.236746	-107.70
4,322.65	23.90	125,19	4,208.74	-358,13	507.95	1,905,413.10	537,378.48	36,236667	-107.70
KOP 9°/1				S SOUTH BUILDING					
4,400.00	17.05	121.62	4,281.16	-373.12	530.44	1,905,398.14	537,400.99	36.236626	-107.70
4,600.00	3.73	22.66	4,478.18	-382.57	558.14	1,905,388.72	537,428.71	36.236600	-107.70
4,800.00	19.60	322.98	4,673.78	-349.51	540.30	1,905,421.76	537,410.82	36,236691	-107.70
5,000.00	37.44	317.68	4,848.83	-277.18	478.66	1,905,494.01	537,349.09	36.236890	-107.70
5,200.00	55.37	315.52	4,986.18	-172.65	379.25	1,905,598.41	537,249.55	36.237177	-107.70
5,251.52	60.00	315.13	5,013.71	-141.70	348.64	1,905,629.32	537,218.90	36.237262	-107.70
Hold 60'	THE RESERVE TO A PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	045.40	5.040.74	404.00	044.00	1.005.000.10	F07.400.40	00 007000	
5,311.52	60.00	315.13	5,043.71	-104.88	311.98	1,905,666.10	537,182.19	36.237363	-107.70
Begin 9°/	the state of the s	045.40	E 000 46	40.00	255.00	4 005 700 00	507 400 50	00 00000	
5,400.00	67.96	315.13	5,082.49	-48.58	255.93	1,905,722.32	537,126.06	36.237518	-107.70
5,600.00	85.96	315.13	5,127.42	88.93	119.02	1,905,859.66	536,988.97	36.237896	-107.70
5,645.40	90.05	315.13	5,129.00	121.08	87.01	1,905,891.76	536,956.93	36.237984	-107.70
	5° Inc, 315.13		E 400.00	404.60	20.50	4.005.000.40	500 OFC 50	00.007005	407.70
5,646.00	90.05	315,13	5,129.00	121.50	86.59	1,905,892.19	536,956.50	36.237985	-107.70
7"	00.05	045.40	E 450 07	000.01		4 000 004 40	F00 0 17 70	00 00000	
5,800.00	90.05	315.13	5,128.87	230.64	-22.07	1,906,001.18	536,847.70	36.238285	-107.70
6,000.00	90.05	315.13	5,128.70	372.37	-163.18	1,906,142.73	536,706.41	36.238674	-107.70
6,200.00	90.05	315,13	5,128.53	514.10	-304.29	1,906,284.28	536,565.12	36.239064	-107.70
6,400.00	90.05	315.13	5,128.36	655.83	-445.41	1,906,425.82	536,423.82	36.239453	-107.70
6,600.00	90.05	315.13	5,128.19	797.56	-586.52	1,906,567.37	536,282.53	36.239842	-107.71
6,800.00	90.05	315.13	5,128.02	939.29	-727.63	1,906,708.92	536,141.23	36.240232	-107.71
7,000.00	90.05	315.13	5,127.85	1,081.02	-868.74	1,906,850.47	535,999.94	36.240621	-107.71
7,200.00	90.05	315.13	5,127.68	1,222.75	-1,009.85	1,906,992.02	535,858.64	36.241010	-107.71
7,400.00	90.05	315.13	5,127.51	1,364.48	-1,150.96	1,907,133.56	535,717.35	36.241400	-107.71



Planning Report - Geographic

Database: Company: Project: Site: Well: COMPASS WPX Energy T23N R8W 2308-08N WLU W Lybrook UT #703H

Well: W Lybrook UT #703H
Wellbore: Wellbore #1
Design: Design #1 26Oct16 kjs

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook UT #703H - Slot 703H WELL @ 6823.00usft (Original Well Elev) WELL @ 6823.00usft (Original Well Elev)

True

Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,600.00	90.05	315.13	5,127.34	1,506.21	-1,292.08	1,907,275.11	535,576.05	36.241789	-107.71
7,800.00	90.05	315.13	5,127.17	1,647.94	-1,433.19	1,907,416.66	535,434.76	36.242178	-107.71
8,000.00	90.05	315.13	5,127.00	1,789.67	-1,574.30	1,907,558.21	535,293.47	36.242568	-107.71
8,200.00	90.05	315.13	5,126.83	1,931.40	-1,715.41	1,907,699.76	535,152.17	36.242957	-107.71
8,400.00	90.05	315.13	5,126.66	2,073.13	-1,856.52	1,907,841.31	535,010.88	36.243346	-107.71
8,600.00	90.05	315.13	5,126.49	2,214.86	-1,997.63	1,907,982.85	534,869.58	36.243736	-107.71
8,800.00	90.05	315.13	5,126.32	2,356.59	-2,138.75	1,908,124.40	534,728.29	36.244125	-107.71
9,000.00	90.05	315.13	5,126.15	2,498.32	-2,279.86	1,908,265.95	534,586.99	36.244514	-107.71
9,200.00	90.05	315.13	5,125.98	2,640.05	-2,420.97	1,908,407.50	534,445.70	36.244904	-107.71
9,400.00	90.05	315.13	5,125.81	2,781.78	-2,562.08	1,908,549.05	534,304.41	36.245293	-107,71
9,600.00	90.05	315.13	5,125.64	2,923.51	-2,703.19	1,908,690.59	534,163.11	36.245682	-107.71
9,800.00	90.05	315.13	5,125.47	3,065.24	-2,844.30	1,908,832.14	534,021.82	36,246072	-107.71
10,000.00	90.05	315.13	5,125.30	3,206.97	-2,985.42	1,908,973.69	533,880.52	36.246461	-107.71
10,200.00	90.05	315.13	5,125.13	3,348.70	-3,126.53	1,909,115.24	533,739.23	36,246850	-107.71
10,400.00	90.05	315.13	5,124.95	3,490.43	-3,267.64	1,909,256.79	533,597.93	36.247240	-107.71
10,600.00	90.05	315.13	5,124.78	3,632.16	-3,408.75	1,909,398.33	533,456.64	36.247629	-107.71
10,800.00	90.05	315.13	5,124.61	3,773.89	-3,549.86	1,909,539.88	533,315.34	36.248018	-107.72
11,000.00	90.05	315.13	5,124.44	3,915.62	-3,690.97	1,909,681.43	533,174.05	36.248407	-107.72
11,200.00	90.05	315.13	5,124.27	4,057.35	-3,832.09	1,909,822.98	533,032.76	36.248797	-107.72
11,400.00	90.05	315.13	5,124.10	4,199.08	-3,973.20	1,909,964.53	532,891.46	36.249186	-107.72
11,600.00	90.05	315.13	5,123.93	4,340.81	-4,114.31	1,910,106.08	532,750.17	36.249575	-107.72
11,800.00	90.05	315.13	5,123.76	4,482.54	-4,255.42	1,910,247.62	532,608.87	36.249965	-107.72
12,000.00	90.05	315.13	5,123.59	4,624.27	-4,396.53	1,910,389.17	532,467.58	36.250354	-107.72
12,200.00	90.05	315.13	5,123.42	4,766.00	-4,537.64	1,910,530.72	532,326.28	36.250743	-107.72
12,400.00	90.05	315.13	5,123.25	4,907.73	-4,678.76	1,910,672.27	532,184.99	36.251133	-107.72
12,600.00	90.05	315.13	5,123.08	5,049.47	-4,819.87	1,910,813.82	532,043.70	36.251522	-107.72
12,697.15	90.05	315.13	5,123.00	5,118.31	-4,888.41	1,910,882.57	531,975.06	36,251711	-107.72

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 703H - plan hits target cente - Point	0.00	0.00	5,013.71	-141.70	348.64	1,905,629.32	537,218.90	36.237262	-107.707128
TD / PBHL 703H - plan hits target cente - Point	0.00 er	0.00	5,123.00	5,118.31	-4,888.41	1,910,882.57	531,975.06	36.251711	-107.724889
POE 703H - plan hits target cente - Point	0.00 er	0.00	5,129.00	121.08	87.01	1,905,891.76	536,956.92	36.237984	-107.708015

sing Points							
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)	
	351.00	351.00	9 5/8"		9.625	13.500	-
	5,646.00	5,129.00	7"		7.000	7.500	



Planning Report - Geographic

Database: Company: Project: Site:

Well:

Wellbore:

COMPASS WPX Energy T23N R8W 2308-08N WLU

W Lybrook UT #703H Wellbore #1

Design #1 26Oct16 kjs

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook UT #703H - Slot 703H

WELL @ 6823.00usft (Original Well Elev) WELL @ 6823.00usft (Original Well Elev)

True

Minimum Curvature

lan Annotati	THE REST OF THE REST					
	Measured	Vertical	Local Coor	dinates		
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
	2,200.00	2,200.00	0.00	0.00	Start Build 2.00	
	3,395.10	3,360.74	-141.57	200.80	Hold 23.9° Inc, 125.19° Az	
	4,322.65	4,208.74	-358.13	507.95	KOP 9°/100	
	5,251.52	5,013.71	-141.70	348.64	Hold 60' Tangent	
	5,311.52	5,043.71	-104.88	311.98	Begin 9°/100 Build	
	5,645.40	5,129.00	121.08	87.01	POE 90.05° Inc, 315.13° Az	
	12,697.15	5,123.00	5,118.31	-4,888.41	TD at 12697.15	

<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC W Lybrook Unit #703H 1212' FSL & 1366' FWL, Section 8, T23N, R8W, N.M.P.M., San Juan County, NM

Latitude: 36.237664°N Longitude: 107.708922°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 38.7 miles to Mile Marker 112.7;

Go Right (Southerly) on County Road #7900 for 0.2 miles to begin proposed access on right-hand side of County Road #7900 which continues for 764.1' to staked WPX W Lybrook Unit #703H location.