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Form 3160-5 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMEN Tarmington Field Office

Expires
Bureau of Land Management Lease Serial No. N0-G-1403-1908 SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an 6. If Indian, Allottee or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. SUBMIT IN TRIPLICATE - Other instructions on page 2. 7. If Unit of CA/Agreement, Name and/or No. **NMNM 135216A** 1. Type of Well 8. Well Name and No. OIL CONS. DIV DIST. 3 W Lybrook Unit 743H Oil Well Gas Well Other 2. Name of Operator 9. API Well No. APR 0 7 2017 WPX Energy Production, LLC 30-045-35729 3a. Address 3b. Phone No. (include area code) 10. Field and Pool or Exploratory Area PO Box 640 Aztec, NM 87410 505-333-1808 Lybrook Mancos W 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. Country or Parish, State SHL: 1209' FSL & 1346' FWL, Sec 8, T23N, R8W San Juan, NM BHL: 940'FNL & 335' FEL, Sec 17 T23N, R8W 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Deepen Acidize Production (Start/Resume) Water Shut-Off Notice of Intent Alter Casing Fracture Treat Reclamation Well Integrity Casing Repair New Construction Recomplete Other Lateral Change Subsequent Report Change Plans Plug and Abandon Temporarily Abandon Convert to Final Abandonment Notice Plug Back Water Disposal Injection 13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.) WPX inadvertently moved the drilling direction of the W Lybrook Unit #743H lateral from the original permitted plan previously approved in the APD and failed to submit an NOI stating the change of plans. ACCEPTED FOR RECORD Attached are the accurate plans in accordance with what was drilled. C102, Ops plan, directional plan and the planning process. 0 4 2017 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Lacey Granillo Permit Tech III Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by Title Date Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject Office lease which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the

W Lybrook #743H

The WLU 703 pad was originally planned and permitted as a 4 well pad, with 2 wells drilling to the NW (#703H & #704H) and 2 drilling to the SE (#743H & #744H). In October 2016, we decided that we wanted to do a spacing test on this pad and so 1 well was added to the NW (#711H) and 1 well to the SE (#713H). Our GIS Specialist laid out all 6 laterals point of entry and bottom hole locations and tied these to the surface locations on the pad. These data were sent to the directional planner to create new plans. To help with the anti-collision, surface locations were swapped for all but the #743H. Then the well names were swapped on the plans so that the permitted wells would keep the same surface locations and only have bottom hole sundries. The #743H plan remained unchanged as the surface and lateral location had not moved from what we provided the directional planner. Therefore, when I reviewed the wells prior to resubmittal, I only requested sundries on the #703H, #704H & #744H and new permits for the #711H & #713H.

In January 2017, we began drilling operations on this pad and drilled all 6 laterals as we had planned. It was not until we submitted our as drilled plats that the NMOCD questioned us on the location of the #743H lateral. The failure to sundry the #743H bottom hole was a simple oversight that should not have happened, and we have since been reviewing our internal processes to look for potential pitfalls. Going forward, we have added more checks to our planning process and additional sign-offs for the directional plans going to the rig, to be sure they match the APDs. In addition, we will continue to look for opportunities to improve our planning process and operations in the San Juan Basin.

		Internal Interm	ediate Planning	
		New POE &		
Well#	Original Permit OCD	BHL	Final Plans	Final permit/Sundry OCD
703	5/13/2016	Change	Change	12/12/16 (Sundry)
704	5/13/2016	Change	Change	12/12/16 (Sundry)
743	5/13/2016	Change	No Change	5/13/2016 (Original permit)
744	5/13/2016	Change	Change	12/12/16 (Sundry)
711	NA	Add	Change	12/13/2016
713	NA	Add	Change	12/13/2016
		Moved to new	BHL names	
		locations for	corrected to	
		spacing test	keep SHL's	
			consistent with	
			existing	
			permits	

Trevor Gates

WPX Geoscientist SJB

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

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

Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-04	API Number			9815		ı	LYBROOK MAN		
'Property 3152					*Propert	•			743H
'0GRID 12078				WPX	*Operato	r Name RODUCTION, LL	.C		Elevation 6823
					10 Surface	Location			
UL or lot no.	Section 8	23N	Range 8W	Lat Idn	Feet from the 1209	SOUTH	Feet from the 1346	East/Heat 15no WEST	SAN JUAN
		-	1 Botto	m Hole	Location I	f Different	From Surfac	е	
U. or lot no	Section 17	23N	Range 8W	Lot Idn	Feet from the 940	NORTH	Feet from the 335	EAST	SAN JUAN
Dedicated Acres 200.00	SE/4	4 SW/4, SE/4	 Secti 	ion 8	Doint or Infill	¹⁴ Consolidation Code	S Order No. R-14051	- 12,807	.24 Acres
	NE/4	NE/4 -	Secti	on 1/					

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

(RECORD) S89 '24 W 2522.84' (RECORD) S89 '24 W 2622.84' SB9 '20'06'W 2624.22' (HEASURED) 589 '21'36'W 2622.58 (MEASURED) 16 POINT-OF-ENTRY 1940 FSL 2069 FML SECTION 8, T23N, RBN LAT: 36.239672 N NO 101 W 2660,79 ' NO 105 N 2656,36 NEASURED) LAT: 36.239672 1 LONG: 107.705926 DATUM: NAD1927 LAT: 36.239684 N LONG: 107.706538 W DATUM: NAD1983 SUPFACE LOCATION 1209 FSL 1346' FWL SECTION 8, T23N, R8V LAT: 35-237641 RW LONG: 107.708376'W DATUR: NAD1927 NO '01 W 2650.79 ' NO '05 YE'N 2657.18 NO '06 ZE'N 2657.18 2069 LAT: 36.237654 N LONG: 107.708988 W DATUM: NAD1983 1346 2 ND2 '04 E 2662.44 NO2 '03 53 E 2663 14 (NEASURED) LAT: 35.231970 N LONG: 107.697027 W DATUM: NAD1983 END-OF-LATERAL 940' FNL 335' FEL SECTION 17, T23N, RB LAT: 35,231841 TN LONG: 107,696252 W DATUR: NAD1927 LAT: 35.231854 N LONG: 107.696864 N DATUM: NAD 1983 JASON (MEASURED) S88 '47 '12 W 2628.80 S88 '51 W 2630.76 (RECORD) (MEASURED) 589 '37 '29 'W 2665.12 S89 '43 W 2666,40 (RECORD)

1	"OPERATOR CERTIFICATION	
	I hereby certify that the information contained herein is true and complete to the best of my	
۱	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	
	appearent or a compulsory pooling order heretprore entered by the division	
	2 -70-17	
1	UNIX 0 1 1 3 30 1 1	
1	Signature - Date	
	lacey Gran 10	
1	accupation unanced	_
	E-mail Aboress	
	SURVEYOR CERTIFICATION	
1	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	
	Data Davidson MADOU OO 0047	

Date Revised: MARCH 20, 2017 Date of Survey: MAY 20, 2015

Signature and Seal of Professional Surveyor



DWARDS Certificate Number



Operations Plan

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

Date:

March 28, 2017

Field:

Lybrook Mancos W

Well Name:

W Lybrook UT 743H

Surface:

SH Location:

SESW Sec 8 23N-08W

Elevation: 6823' GR

BH Location:

NENE Sec 17 23N-08W

Minerals:

Measured Depth: 9,827.02'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	ΜD	TVD
OJO ALAMO	858.00	858.00	POINT LOOKOUT	4,022.00	3,845.00
KIRTLAND	1,066.00	1,066.00	MANCOS	4,225.00	4,032.00
PICTURED CLIFFS	1,443.00	1,442.00	GALLUP	4,605.00	4,381.00
LEWIS	1,555.00	1,553.00	KICKOFF POINT	4,552.62	4,332.35
CHACRA	1,820.00	1,812.00	TOP TARGET	5,452.00	5,063.00
CLIFF HOUSE	2,978.00	2,887.00	LANDING POINT	5,800.83	5,149.00
MENEFEE	3,031.00	<i>2,936.00</i>	BASE TARGET	<i>5,8</i> 00.83	5,149.00
			TD	9,827.02	5,063.00

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"	5,800.83'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5650.83' - 9,827.02'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5650.83'	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 600ps. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.

2. Intermediate:

Spacer #1: 20 bb! (112 cuft) Chemwash. Lead Cement: 112 bbls, 319 sks, (629 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/ +/- 228 bbl Drilling mud or water. Total Cement: 171 bbls, 573 sks, (959 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 (409 sx /556 cuft /99 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-124bbl Fr Water. Total Cement (409 sx /556bbls).

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 R8W 2308-08N WLU W Lybrook UT #743H - Slot 743H

Wellbore #1

Plan: Plan #2 26Oct16 kjs

Standard Planning Report - Geographic

28 October, 2016



WPX

Planning Report - Geographic

Database: COMPASS WPX Energy Company: **T23N R8W** Project: Site: 2308-08N WLU Well: W Lybrook UT #743H

Wellbore: Wellbore #1 Plan #2 26Oct16 kjs Design:

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference: **Survey Calculation Method:** Well W Lybrook UT #743H - Slot 743H GL @ 6823.00usft (Original Well Elev) GL @ 6823.00usft (Original Well Elev)

True

Minimum Curvature

T23N R8W Project

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

2308-08N WLU Site

Site Position: From:

Map

Northing: Easting:

1,906,343.71 usft 537,196.07 usft Latitude:

Longitude:

36.239225 -107.707202

Position Uncertainty:

0.00 usft Slot Radius: 13.200 in

Grid Convergence:

0.07°

Well W Lybrook UT #743H - Slot 743H

Well Position

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

Northing: Easting:

1,905,766.82 usft 536,850.48 usft Latitude: Longitude:

36,237641 -107.708376

Position Uncertainty

0.00 usft

Wellhead Elevation:

0.00 usft

Ground Level:

6,823.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle	Field Strength (nT)
	IGRF2010	9/23/2015	9.29	62.94	50,029

Plan #2 260ct16 kjs Design **Audit Notes:** Phase: PLAN Tie On Depth: 0.00 Version: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (bearing) (usft) (usft) 0.00 0.00 0.00 120.33

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	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,270.88	23.42	7.03	2,238.55	234.19	28.87	2.00	2.00	0.00	7.03	
4,552.62	23:42	7.03	4,332.35	1,134.21	139.83	0.00	0.00	0.00	0.00	
5,393.90	60.00	135.06	5,033.85	1,026.03	466.58	9.00	4.35	15.22	135.26	Start 60 tan 743H
5,453.90	60.00	135.06	5,063.85	989.25	503.28	0.00	0.00	0.00	0.00	
5,800.83	91.22	135.06	5,149.00	754.29	737.71	9.00	9.00	0.00	0.00	
9,827.02	91.22	135.06	5,063.00	-2,095.23	3,580.78	0.00	0.00	0.00	0.00	BHL 743H



WPX

Planning Report - Geographic

 Database:
 COMPASS

 Company:
 WPX Energy

 Project:
 T23N R8W

 Site:
 2308-08N WLU

 Well:
 W Lybrook UT #743H

 Wellbore:
 Wellbore #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well W Lybrook UT #743H - Slot 743H GL @ 6823.00usft (Original Well Elev) GL @ 6823.00usft (Original Well Elev) True

Minimum Curvature

sign:	Plan	#2 26Oct16 k	js			2 V			
nned Survey	1							g	
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,905,766.82	536,850.48	36.237641	-107.708
200.00	0.00	0.00	200.00	0.00	0.00	1,905,766.82	536,850.48	36.237641	-107.708
351.00	0.00	0.00	351.00	0.00	0.00	1,905,766.82	536,850.48	36,237641	-107.708
	0.00	0.00	351.00	0.00	0.00	1,000,700.02	000,000.40	00.207 0 11	-107.700
9 5/8"	0.00	0.00	400.00	0.00	0.00	4 005 700 00	500.050.40	00 007044	407 700
400.00	0.00	0.00	400.00	0.00	0.00	1,905,766.82	536,850.48	36.237641	-107.708
600.00	0.00	0.00	600.00	0.00	0.00	1,905,766.82	536,850.48	36.237641	-107.708
800.00	0.00	0.00	800.00	0.00	0.00	1,905,766.82	536,850.48	36.237641	-107.708
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,905,766.82	536,850.48	36.237641	-107.708
1,100.00	0.00	0.00	1,100.00	0.00	0.00	1,905,766.82	536,850.48	36.237641	-107.708
Start Bui	ild 2.00								
1,200.00	2.00	7.03	1,199.98	1.73	0.21	1,905,768.55	536,850.69	36.237646	-107.708
1,400.00	6.00	7.03	1,399.45	15.58	1.92	1,905,782.40	536,852.38	36.237684	-107.708
1,600.00	10.00	7.03	1,597.47	43.20	5.33	1,905,810.03	536,855.75	36.237760	-107.708
1,800.00	14.00	7.03	1,793.06	84.46	10.41	1,905,851.29	536,860.79	36.237873	-107.708
2,000.00	18.00	7.03	1,985.27	139.16	17.16	1,905,908.00	536,867.46	36.238023	-107.708
2,200.00	22.00	7.03	2,173.17	207.04	25.52	1,905,973.89	536,875.74	36.238210	-107.708
			2,173.17		28.87		536,879.05	36.238284	-107.708
2,270.88	23.42	7.03	2,230.55	234.19	20.07	1,906,001.05	550,679.05	30.230204	-107.700
	42° Inc, 7.03°								407 704
2,400.00	23.42	7.03	2,357.04	285.12	35.15	1,906,051.99	536,885.27	36.238424	-107.708
2,600.00	23.42	7.03	2,540.56	364.01	44.88	1,906,130.89	536,894.89	36.238641	-107.708
2,800.00	23.42	7.03	2,724.09	442.90	54.60	1,906,209.79	536,904.52	36.238858	-107.708
3,000.00	23.42	7.03	2,907.62	521.79	64.33	1,906,288.69	536,914.14	36.239075	-107.708
3,200.00	23.42	7.03	3,091.14	600.68	74.06	1,906,367.60	536,923.76	36.239291	-107.708
3,400.00	23.42	7.03	3,274.67	679.57	83.78	1,906,446.50	536,933.39	36.239508	-107.708
3,600.00	23.42	7.03	3,458.20	758.46	93.51	1,906,525.40	536,943.01	36.239725	-107.708
3,800.00	23.42	7.03	3,641.72	837.34	103.23	1,906,604.30	536,952.64	36.239941	-107.708
4,000.00	23.42	7.03	3,825.25	916.23	112.96	1,906,683.20	536,962.26	36.240158	-107.707
4,200.00	23.42	7.03	4,008.78	995.12	122.69	1,906,762.10	536,971.89	36.240375	-107.707
4,400.00	23.42	7.03	4,192.30	1,074.01	132.41	1,906,841.00	536,981.51	36.240592	-107.707
4,552.62	23.42	7.03	4,332.35	1,134.21	139.83	1,906,901.21	536,988.85	36.240757	-107.707
		7.05	4,002.00	1,104.21	155.05	1,000,001.21	000,000.00	00.240707	-107.707
KOP 9°/1		7	4 6770 00	4 454 50	440.00	4 000 040 00	F00 000 00	00.040005	407.707
4,600.00	20.60	15.58	4,376.29	1,151.59	143.23	1,906,918.60	536,992.22	36.240805	-107.707
4,800.00	17.02	72.65	4,567.08	1,194.56	180.93	1,906,961.61	537,029.88	36.240923	-107.707
5,000.00	28.03	111.57	4,752.50	1,185.94	253.18	1,906,953.09	537,102.13	36.240899	-107.707
5,200.00	43.72	127.01	4,914.38	1,126.57	352.89	1,906,893.85	537,201.92	36.240736	-107.707
5,393.90	60.00	135.06	5,033.85	1,026.03	466.58	1,906,793.45	537,315.74	36.240460	-107.70€
Hold 60'	Tangent								
5,400.00	60.00	135.06	5,036.90	1,022.29	470.31	1,906,789.72	537,319.47	36.240449	-107.706
5,453.90	60.00	135.06	5,063.85	989.25	503.28	1,906,756.72	537,352.49	36.240359	-107.706
	/100 Build								
5,600.00	73.15	135.06	5,121.81	894.55	597.76	1,906,662.15	537,447.09	36,240099	-107.706
	91.15	135.06	5,149.01	754.88	737.12	1,906,522.65	537,586.63	36.239715	-107.705
5,800.00					737.12	1,906,522.06	537,587.22	36.239713	-107.705
5,800.83	91.22	135.06	5,149.00	754.29	131.11	1,000,022.00	331,301.22	30.2337 13	-107.700
	22° Inc, 135.06			75.47	707.00	4 000 504 04	507 507 64	00 000740	407 707
5,801.00	91.22	135.06	5,148.99	754.17	737.83	1,906,521.94	537,587.34	36.239713	-107.705
7"						10 to			
6,000.00	91.22	135.06	5,144.74	613.33	878.35	1,906,381.28	537,728.04	36.239326	-107.705
6,200.00	91.22	135.06	5,140.47	471.78	1,019.58	1,906,239.91	537,869.45	36.238937	-107.704
6,400.00	91.22	135.06	5,136.20	330.23	1,160.81	1,906,098.55	538,010.86	36.238548	-107.704
6,600.00	91.22	135.06	5,131.93	188.68	1,302.04	1,905,957.18	538,152.28	36,238159	-107.703
6,800.00	91.22	135.06	5,127.65	47.13	1,443.27	1,905,815.81	538,293.69	36.237770	-107.703
7,000.00	91.22	135.06	5,123.38	-94.42	1,584.50	1,905,674.45	538,435.10	36.237382	-107.703
7,200.00	91.22	135.06	5,119.11	-235.97	1,725.72	1,905,533.08	538,576.51	36.236993	-107.702



WPX

Planning Report - Geographic

Database: Company: Project:

Site:

COMPASS
WPX Energy
T23N R8W
2308-08N WLU
W Lybrook UT #743H

Well: W Lybrook UT #743H
Wellbore: Wellbore #1
Design: Plan #2 26Oct16 kjs

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook UT #743H - Slot 743H GL @ 6823.00usft (Original Well Elev) GL @ 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
7,400.00	91.22	135.06	5,114.84	-377.52	1,866.95	1,905,391.71	538,717.92	36,236604	-107.70204
7,600.00	91.22	135.06	5,110.57	-519.07	2,008.18	1,905,250.35	538,859.33	36,236215	-107.70156
7,800.00	91.22	135.06	5,106.30	-660.61	2,149.41	1,905,108.98	539,000.74	36.235826	-107.70108
8,000.00	91.22	135.06	5,102.02	-802.16	2,290.64	1,904,967.61	539,142.16	36.235437	-107.70060
8,200.00	91.22	135.06	5,097.75	-943.71	2,431.87	1,904,826,25	539,283.57	36.235048	-107.70013
8,400.00	91.22	135.06	5,093.48	-1,085.26	2,573.10	1,904,684.88	539,424.98	36.234659	-107.6996
8,600.00	91.22	135.06	5,089.21	-1,226.81	2,714.33	1,904,543.51	539,566.39	36.234271	-107.69917
8,800.00	91.22	135.06	5,084.94	-1,368.36	2,855.56	1,904,402.15	539,707.80	36.233882	-107.6986
9,000.00	91,22	135.06	5,080.66	-1,509.91	2,996.79	1,904,260.78	539,849.21	36.233493	-107.6982
9,200.00	91.22	135.06	5,076.39	-1,651.46	3,138.01	1,904,119.41	539,990.62	36.233104	-107.69773
9,400.00	91.22	135.06	5,072.12	-1,793.01	3,279.24	1,903,978.04	540,132.03	36.232715	-107.6972
9,600.00	91.22	135.06	5,067.85	-1,934.56	3,420.47	1,903,836.68	540,273.45	36.232328	-107.6967
9,800.00	91.22	135.06	5,063.58	-2,076.11	3,561.70	1,903,695.31	540,414.86	36.231937	-107.6963
9,827.02	91.22	135.06	5,063.00	-2,095.23	3,580.78	1,903,676.21	540,433.96	36,231885	-107.6962
TD at 982	7.02								

And the state of t									The Property of the Party of th
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latterda	Lavathuda
		(Southing	(0014)	(4010)	(00.0)	((00.0)	Latitude	Longitude
Start 60 tan 743H - plan hits target ce - Point	0.00 enter	0.00	5,033.85	1,026.03	466.58	1,906,793.45	537,315.74	36.240460	-107.706794
BHL 743H - plan hits target ce - Point	0.00 enter	0.00	5,063.00	-2,095.23	3,580.78	1,903,678.21	540,433.96	36.231885	-107.696235 :
POE 743H - plan misses targe - Point	0.00 t center by 0.0	0.00 1usft at 5800	5,149.00 .83usft MD (754.29 5149.00 TVD,	737.71 754.29 N, 73	1,906,522.06 7.71 E)	537,587.22	36.239713	-107.705875

Casing Points		1					-
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (In)	Hole Diameter (in)	
	351.00	351;00	9 5/8"		9.625	12.250	i
	5,801.00	5,148.99	7*		7.000	8.750	

Measured	Vertical	Local Coor	dinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,100.00	1,100.00	0.00	0.00	Start Build 2.00	
2,270.88	2,238.55	234.19	28.87	Hold 23.42° Inc, 7.03° Az	
4,552.62	4,332.35	1,134.21	139.83	KOP 9°/100	
5,393.90	5,033.85	1,026.03	466.58	Hold 60' Tangent	
5,453.90	5,063.85	989.25	503.28	Begin 9°/100 Build	
5,800.83	5,149.00	754.29	737.71	POE 91.22° Inc, 135.06° Az	
9,827.02	5,063.00	-2,095,23	3,580.78	TD at 9827.02	