

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

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35748		*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT		*Well Number 705H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6778'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	7	23N	8W		1344	SOUTH	2233	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	12	23N	9W		335	NORTH	283	EAST	SAN JUAN

¹² Dedicated Acres 240.22 NE/4 NE/4 - Section 12, T23N, R9W W/2 NW/4, SE/4 NW/4, NE/4 SW/4 NW/4 SE/4 - Section 7, T23N, R8W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14051 - 12,807.24 Acres
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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

CONFIDENTIAL

¹⁷ 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 compulsory pooling order heretofore entered by the division.

Signature: *[Signature]* Date: 11/25/18
Lacey Granillo

Printed Name: lacey.granillo@wpxenergy.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

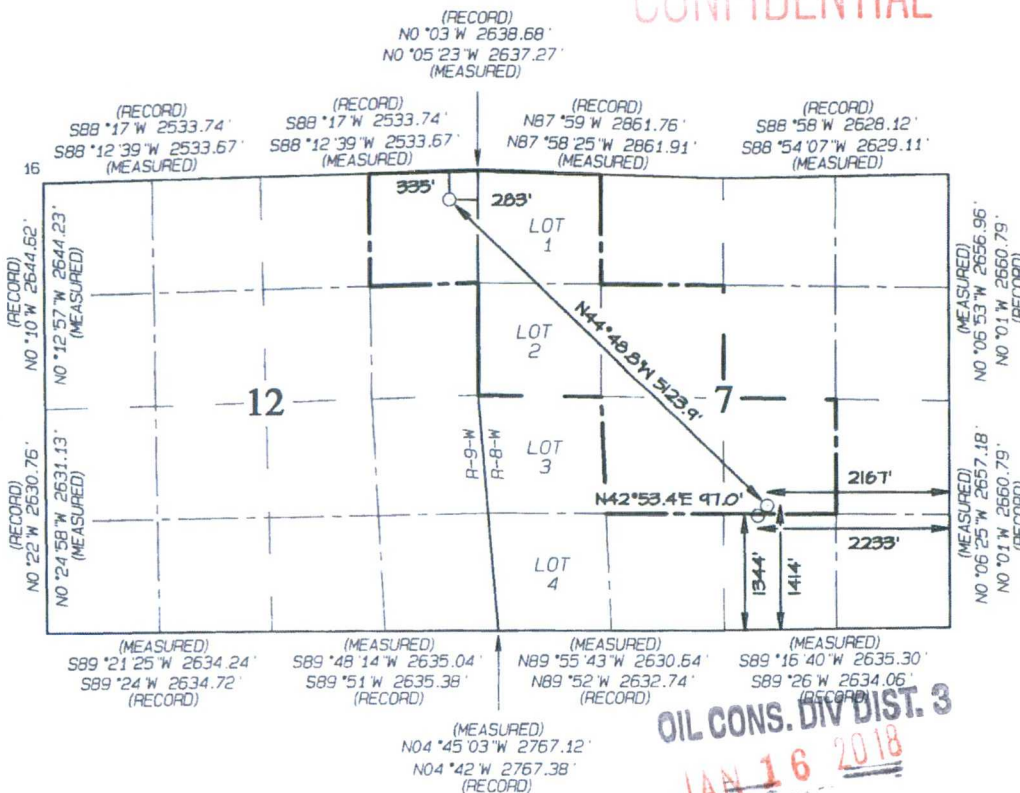
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: AUGUST 15, 2017
Date of Survey: MAY 15, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



OIL CONS. DIV DIST. 3
JAN 16 2018

END-OF-LATERAL
335' FNL 283' FEL
SECTION 12, T23N, R9W
LAT: 36.248097°N
LONG: 107.732524°W
DATUM: NAD1927

LAT: 36.248109°N
LONG: 107.733136°W
DATUM: NAD1983

RSI TOOL
391' FNL 226' FEL
SECTION 12, T23N, R9W
LAT: 36.247945°N
LONG: 107.732332°W
DATUM: NAD1927

LAT: 36.247958°N
LONG: 107.732944°W
DATUM: NAD1983

POINT-OF-ENTRY
1414' FSL 2167' FEL
SECTION 7, T23N, R8W
LAT: 36.238100°N
LONG: 107.720291°W
DATUM: NAD1927

LAT: 36.238113°N
LONG: 107.720903°W
DATUM: NAD1983

SURFACE LOCATION
1344' FSL 2233' FEL
SECTION 7, T23N, R8W
LAT: 36.237905°N
LONG: 107.720515°W
DATUM: NAD1927

LAT: 36.237918°N
LONG: 107.721127°W
DATUM: NAD1983

FV

9



EOW Summary

**WPX Energy
W Lybrook UT
#705H**



W Lybrook 705H
T23N R8W
Northing: 1905858.53
Easting: 533270.52
Actual

SL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
 GL @ 6778.00

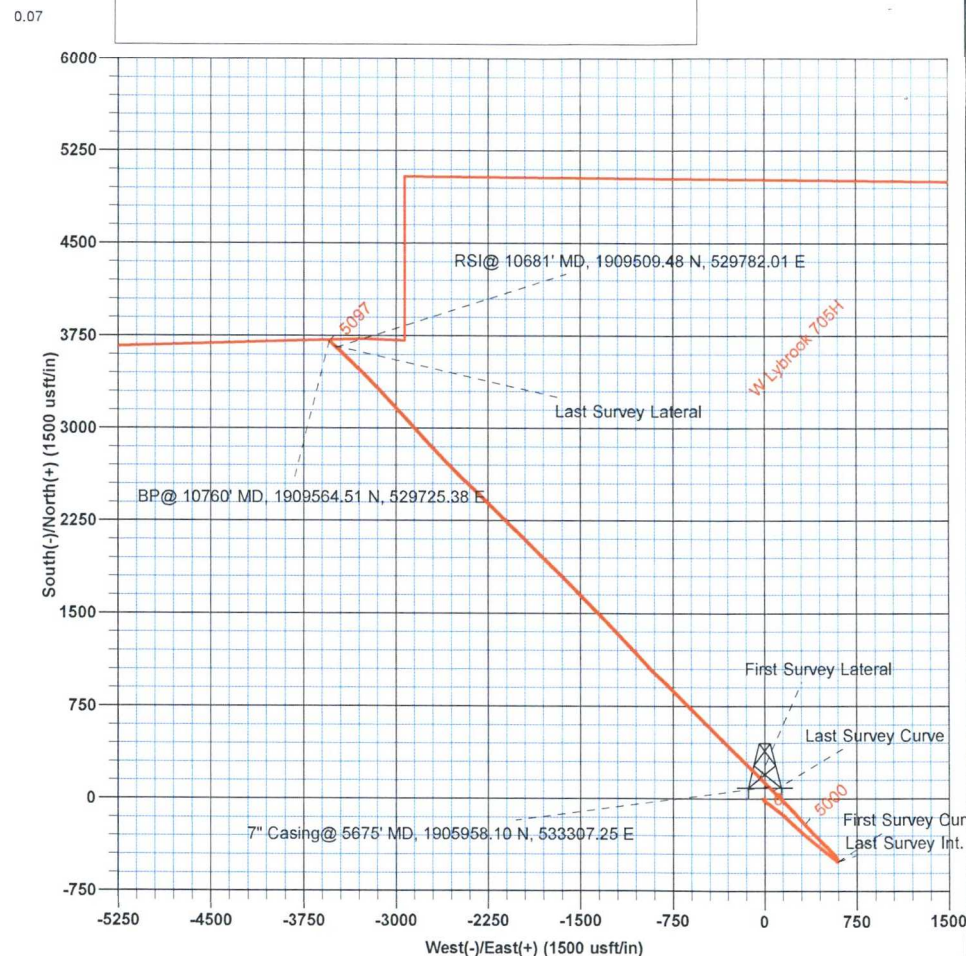
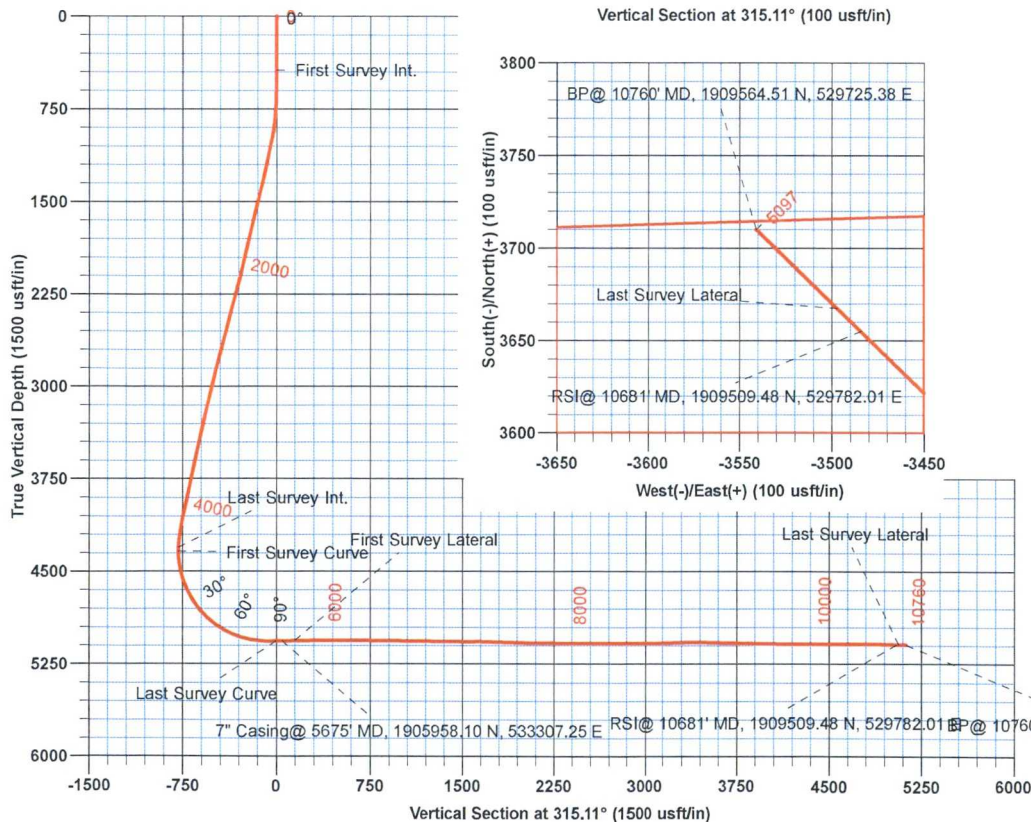
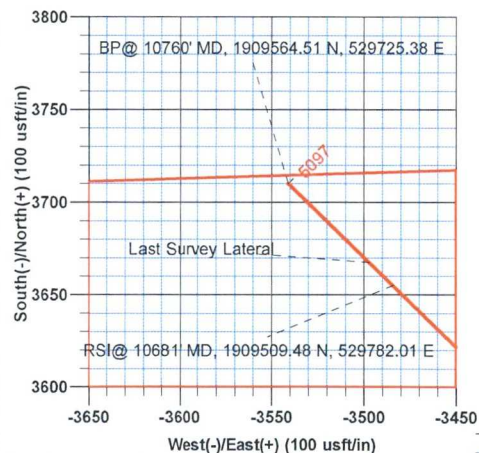
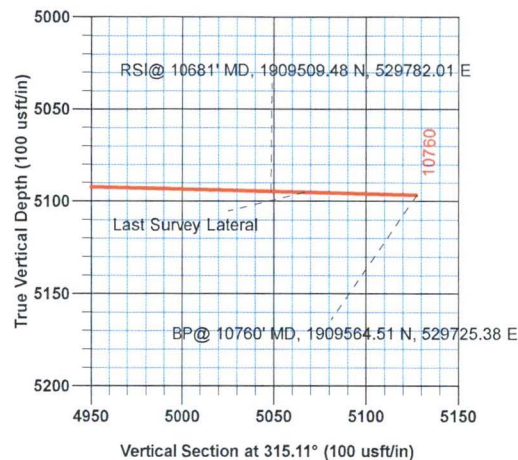


WELL DETAILS W Lybrook 705H

		Ground Level: 6778.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1905858.53	533270.52	36.237905	-107.720515

TVD	MD	ANNOTATIONS
436.92	437.00	Annotation
4308.00	4396.00	First Survey Int.
4338.97	4427.00	Last Survey Int.
5067.54	5628.00	First Survey Curve
5066.46	5675.00	Last Survey Curve
5063.02	5779.00	7" Casing@ 5675' MD, 1905958.10 N, 533307.25 E
5094.80	10681.00	First Survey Lateral
5095.28	10699.00	RSI@ 10681' MD, 1909509.48 N, 529782.01 E
5096.93	10760.00	Last Survey Lateral
		BP@ 10760' MD, 1909564.51 N, 529725.38 E

Azimuths to True North
 Magnetic North: 9.00°
 Magnetic Field
 Strength: 49564.4snT
 Dip Angle: 62.88°
 Date: 7/6/2017
 Model: HDGM



Bailey Fellows
 8:49, August 14 2017

Scientific Drilling
 325 S. Faudree Rd.
 Odessa, TX 79765

WPX Energy

T23N R8W

W Lybrook 705 Pad

W Lybrook 705H

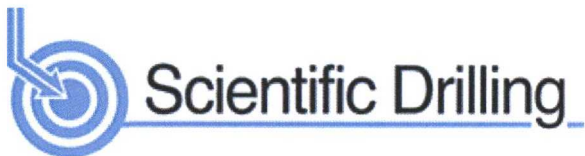
API: 30-045-35748

Wellbore #1

Design: Actual

Survey Report - Geographic

14 August, 2017



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 705H
Project:	T23N R8W	TVD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Site:	W Lybrook 705 Pad	MD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Well:	W Lybrook 705H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Project	T23N R8W		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site		W Lybrook 705 Pad						
Site Position:		Northing:	1,905,858.53	usft	Latitude:	36.237905		
From:	Lat/Long	Easting:	533,270.53	usft	Longitude:	-107.720515		
Position Uncertainty:	0.00	usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.07	°

Well	W Lybrook 705H					
Well Position	+N/-S	0.00 usft	Northing:	1,905,858.53 usft	Latitude:	36.237905
	+E/-W	0.00 usft	Easting:	533,270.53 usft	Longitude:	-107.720515
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,778.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/6/2017	9.00	62.88	49,664

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	315.11	

Survey Program	Date	8/14/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	307.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
437.00	4,396.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,427.00	5,628.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,779.00	10,760.00	SDI MWD Lateral (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	1,905,858.53	533,270.53	36.237905	-107.720515	
21.00	0.00	0.00	21.00	0.00	0.00	1,905,858.53	533,270.53	36.237905	-107.720515	
51.00	0.29	177.77	51.00	-0.08	0.00	1,905,858.45	533,270.53	36.237905	-107.720515	
81.00	0.38	188.61	81.00	-0.25	-0.01	1,905,858.28	533,270.52	36.237904	-107.720515	
111.00	0.32	207.11	111.00	-0.42	-0.06	1,905,858.11	533,270.46	36.237904	-107.720515	
141.00	0.59	209.90	141.00	-0.63	-0.18	1,905,857.90	533,270.35	36.237903	-107.720516	
171.00	0.74	215.38	171.00	-0.92	-0.37	1,905,857.60	533,270.16	36.237903	-107.720517	
201.00	0.92	225.02	200.99	-1.25	-0.65	1,905,857.28	533,269.88	36.237902	-107.720517	
231.00	0.96	227.96	230.99	-1.59	-1.01	1,905,856.94	533,269.52	36.237901	-107.720519	

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 705H
Project:	T23N R8W	TVD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Site:	W Lybrook 705 Pad	MD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Well:	W Lybrook 705H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
261.00	1.04	233.09	260.98	-1.92	-1.41	1,905,856.61	533,269.12	36.237900	-107.720520	
291.00	1.12	238.14	290.98	-2.24	-1.88	1,905,856.29	533,268.65	36.237899	-107.720522	
307.00	1.31	244.74	306.98	-2.40	-2.18	1,905,856.13	533,268.35	36.237898	-107.720523	
437.00	1.86	241.82	436.92	-4.03	-5.38	1,905,854.49	533,265.15	36.237894	-107.720534	
First Survey Int.										
528.00	0.67	234.52	527.90	-5.04	-7.11	1,905,853.48	533,263.42	36.237891	-107.720539	
618.00	1.28	154.79	617.89	-6.25	-7.11	1,905,852.27	533,263.42	36.237888	-107.720539	
709.00	3.21	139.95	708.82	-9.12	-5.04	1,905,849.40	533,265.50	36.237880	-107.720532	
801.00	5.25	133.10	800.56	-13.97	-0.31	1,905,844.56	533,270.23	36.237867	-107.720516	
891.00	7.41	126.93	890.01	-20.27	7.34	1,905,838.27	533,277.89	36.237849	-107.720490	
982.00	9.72	124.63	979.99	-28.16	18.35	1,905,830.39	533,288.91	36.237828	-107.720453	
1,073.00	11.36	125.29	1,069.45	-37.71	31.99	1,905,820.86	533,302.56	36.237802	-107.720407	
1,165.00	13.08	128.05	1,159.36	-49.36	47.58	1,905,809.22	533,318.17	36.237769	-107.720354	
1,255.00	11.71	124.72	1,247.26	-60.84	63.11	1,905,797.76	533,333.71	36.237738	-107.720301	
1,347.00	13.62	129.91	1,337.02	-73.11	79.09	1,905,785.51	533,349.71	36.237704	-107.720247	
1,438.00	14.53	127.56	1,425.29	-86.94	96.36	1,905,771.70	533,366.99	36.237666	-107.720189	
1,529.00	14.35	125.00	1,513.42	-100.37	114.65	1,905,758.29	533,385.29	36.237629	-107.720127	
1,620.00	13.28	129.17	1,601.79	-113.44	131.99	1,905,745.24	533,402.65	36.237593	-107.720068	
1,711.00	12.91	124.55	1,690.42	-125.81	148.47	1,905,732.90	533,419.14	36.237559	-107.720012	
1,800.00	12.52	134.85	1,777.25	-138.25	163.50	1,905,720.47	533,434.18	36.237525	-107.719961	
1,891.00	14.03	137.15	1,865.82	-153.29	177.99	1,905,705.44	533,448.70	36.237484	-107.719912	
1,980.00	13.44	135.92	1,952.27	-168.63	192.52	1,905,690.12	533,463.25	36.237442	-107.719862	
2,071.00	12.65	135.75	2,040.92	-183.37	206.83	1,905,675.40	533,477.57	36.237401	-107.719814	
2,162.00	13.95	131.22	2,129.48	-197.73	222.04	1,905,661.05	533,492.80	36.237362	-107.719762	
2,252.00	14.19	131.81	2,216.78	-212.24	238.42	1,905,646.57	533,509.19	36.237322	-107.719707	
2,343.00	14.26	131.71	2,304.99	-227.13	255.10	1,905,631.70	533,525.89	36.237281	-107.719650	
2,433.00	14.63	132.01	2,392.15	-242.11	271.82	1,905,616.73	533,542.63	36.237240	-107.719594	
2,523.00	14.38	132.23	2,479.28	-257.23	288.54	1,905,601.63	533,559.37	36.237198	-107.719537	
2,613.00	15.15	130.46	2,566.31	-272.37	305.77	1,905,586.51	533,576.61	36.237157	-107.719478	
2,703.00	15.23	129.82	2,653.16	-287.58	323.79	1,905,571.33	533,594.65	36.237115	-107.719417	
2,793.00	14.23	129.31	2,740.20	-302.15	341.43	1,905,556.77	533,612.31	36.237075	-107.719358	
2,883.00	13.38	129.17	2,827.60	-315.74	358.06	1,905,543.21	533,628.96	36.237038	-107.719301	
2,973.00	14.06	129.89	2,915.04	-329.33	374.53	1,905,529.64	533,645.44	36.237000	-107.719245	
3,063.00	13.15	130.32	3,002.51	-342.96	390.72	1,905,516.02	533,661.64	36.236963	-107.719190	
3,154.00	13.18	131.06	3,091.12	-356.48	406.43	1,905,502.53	533,677.38	36.236926	-107.719137	
3,245.00	12.78	130.06	3,179.79	-369.77	421.96	1,905,489.25	533,692.92	36.236889	-107.719084	
3,333.00	12.65	128.33	3,265.63	-382.01	436.97	1,905,477.03	533,707.94	36.236856	-107.719034	
3,429.00	12.61	128.04	3,359.31	-394.98	453.47	1,905,464.07	533,724.45	36.236820	-107.718978	
3,524.00	12.29	126.98	3,452.08	-407.46	469.71	1,905,451.62	533,740.71	36.236786	-107.718923	
3,619.00	11.12	125.41	3,545.10	-418.85	485.26	1,905,440.25	533,756.27	36.236754	-107.718870	
3,715.00	12.67	130.33	3,639.04	-431.03	500.83	1,905,428.09	533,771.86	36.236721	-107.718817	
3,810.00	12.04	129.66	3,731.84	-444.09	516.40	1,905,415.04	533,787.44	36.236685	-107.718764	
3,905.00	11.17	130.24	3,824.90	-456.36	531.05	1,905,402.79	533,802.11	36.236651	-107.718715	
4,000.00	12.97	130.12	3,917.79	-469.18	546.23	1,905,389.99	533,817.30	36.236616	-107.718663	
4,095.00	11.48	129.35	4,010.63	-482.04	561.69	1,905,377.14	533,832.78	36.236581	-107.718611	
4,190.00	10.32	128.32	4,103.92	-493.31	575.68	1,905,365.89	533,846.78	36.236550	-107.718563	
4,269.00	8.69	126.45	4,181.83	-501.25	586.03	1,905,357.97	533,857.14	36.236528	-107.718528	
4,300.00	8.16	127.77	4,212.50	-503.98	589.66	1,905,355.23	533,860.77	36.236521	-107.718516	
4,332.00	6.77	124.96	4,244.23	-506.46	593.00	1,905,352.76	533,864.11	36.236514	-107.718504	
4,364.00	4.72	117.12	4,276.06	-508.14	595.71	1,905,351.09	533,866.83	36.236509	-107.718495	
4,396.00	2.70	92.70	4,308.00	-508.77	597.64	1,905,350.45	533,868.76	36.236507	-107.718489	
Last Survey Int.										
4,427.00	2.90	33.68	4,338.97	-508.15	598.80	1,905,351.07	533,869.92	36.236509	-107.718485	
First Survey Curve										

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 705H
Project:	T23N R8W	TVD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Site:	W Lybrook 705 Pad	MD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Well:	W Lybrook 705H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,459.00	4.34	4.66	4,370.90	-506.27	599.35	1,905,352.95	533,870.47	36.236514	-107.718483	
4,491.00	6.72	358.70	4,402.75	-503.20	599.41	1,905,356.03	533,870.52	36.236523	-107.718483	
4,522.00	8.59	349.15	4,433.48	-499.11	598.93	1,905,360.12	533,870.04	36.236534	-107.718484	
4,554.00	10.79	337.96	4,465.02	-493.98	597.36	1,905,365.24	533,868.46	36.236548	-107.718490	
4,586.00	13.38	332.06	4,496.31	-487.93	594.50	1,905,371.29	533,865.59	36.236565	-107.718499	
4,617.00	15.61	329.90	4,526.32	-481.16	590.72	1,905,378.06	533,861.81	36.236583	-107.718512	
4,649.00	17.79	325.93	4,556.97	-473.38	585.83	1,905,385.83	533,856.90	36.236605	-107.718529	
4,681.00	20.47	322.84	4,587.20	-464.87	579.71	1,905,394.33	533,850.77	36.236628	-107.718550	
4,713.00	23.06	321.29	4,616.92	-455.52	572.40	1,905,403.68	533,843.46	36.236654	-107.718574	
4,744.00	25.18	319.71	4,645.21	-445.75	564.34	1,905,413.44	533,835.39	36.236681	-107.718602	
4,776.00	27.34	316.90	4,673.91	-435.19	554.92	1,905,423.98	533,825.95	36.236710	-107.718634	
4,807.00	28.90	315.97	4,701.25	-424.61	544.85	1,905,434.56	533,815.87	36.236739	-107.718668	
4,839.00	30.67	315.36	4,729.02	-413.24	533.74	1,905,445.91	533,804.74	36.236770	-107.718705	
4,871.00	33.13	314.29	4,756.18	-401.32	521.74	1,905,457.81	533,792.73	36.236803	-107.718746	
4,903.00	36.11	313.03	4,782.52	-388.78	508.59	1,905,470.34	533,779.56	36.236837	-107.718791	
4,934.00	39.03	312.85	4,807.08	-375.90	494.75	1,905,483.20	533,765.71	36.236872	-107.718838	
4,966.00	41.43	314.31	4,831.51	-361.65	479.78	1,905,497.43	533,750.73	36.236912	-107.718888	
4,998.00	43.74	315.17	4,855.07	-346.41	464.41	1,905,512.66	533,735.34	36.236953	-107.718941	
5,029.00	45.80	314.63	4,877.08	-331.00	448.94	1,905,528.05	533,719.85	36.236996	-107.718993	
5,061.00	48.53	314.12	4,898.83	-314.60	432.17	1,905,544.44	533,703.06	36.237041	-107.719050	
5,093.00	51.57	315.24	4,919.38	-297.34	414.73	1,905,561.67	533,685.60	36.237088	-107.719109	
5,124.00	54.57	316.71	4,938.00	-279.53	397.52	1,905,579.47	533,668.37	36.237137	-107.719167	
5,156.00	56.47	317.80	4,956.12	-260.15	379.62	1,905,598.82	533,650.45	36.237190	-107.719228	
5,187.00	58.84	318.22	4,972.70	-240.69	362.10	1,905,618.26	533,632.90	36.237244	-107.719287	
5,219.00	61.47	317.96	4,988.63	-220.03	343.56	1,905,638.89	533,614.34	36.237301	-107.719350	
5,251.00	65.16	317.85	5,003.00	-198.82	324.40	1,905,660.08	533,595.15	36.237359	-107.719415	
5,282.00	67.91	317.13	5,015.34	-177.86	305.18	1,905,681.02	533,575.91	36.237416	-107.719480	
5,314.00	70.06	317.29	5,026.81	-155.94	284.89	1,905,702.92	533,555.60	36.237477	-107.719549	
5,346.00	72.40	317.52	5,037.11	-133.64	264.39	1,905,725.20	533,535.07	36.237538	-107.719619	
5,378.00	75.55	317.68	5,045.94	-110.93	243.65	1,905,747.88	533,514.30	36.237600	-107.719689	
5,409.00	78.12	317.11	5,053.00	-88.72	223.22	1,905,770.07	533,493.85	36.237661	-107.719758	
5,441.00	80.35	316.32	5,058.98	-65.83	201.66	1,905,792.93	533,472.27	36.237724	-107.719831	
5,473.00	83.03	315.70	5,063.60	-43.05	179.67	1,905,815.68	533,450.25	36.237787	-107.719906	
5,504.00	87.08	315.69	5,066.28	-20.96	158.11	1,905,837.76	533,428.66	36.237848	-107.719979	
5,536.00	88.42	315.42	5,067.53	1.87	135.72	1,905,860.56	533,406.24	36.237910	-107.720055	
5,600.00	90.74	314.74	5,068.00	47.18	90.53	1,905,905.82	533,361.00	36.238035	-107.720208	
5,628.00	91.14	314.24	5,067.54	66.80	70.56	1,905,925.41	533,341.01	36.238089	-107.720276	
Last Survey Curve										
5,634.04	91.19	314.21	5,067.42	71.01	66.23	1,905,929.62	533,336.68	36.238100	-107.720291	
WL705H POE										
5,675.00	91.50	314.04	5,066.46	99.53	36.84	1,905,958.10	533,307.25	36.238179	-107.720390	
7" Casing@ 5675' MD,										
5,779.00	92.29	313.61	5,063.02	171.50	-38.15	1,906,029.99	533,232.18	36.238376	-107.720645	
First Survey Lateral										
5,874.00	91.34	314.81	5,060.01	237.71	-106.21	1,906,096.12	533,164.04	36.238558	-107.720875	
5,965.00	88.59	315.05	5,060.07	301.97	-170.63	1,906,160.30	533,099.55	36.238735	-107.721094	
6,056.00	89.09	314.35	5,061.91	365.97	-235.29	1,906,224.22	533,034.81	36.238910	-107.721313	
6,147.00	89.77	313.71	5,062.82	429.21	-300.72	1,906,287.39	532,969.31	36.239084	-107.721535	
6,237.00	89.60	315.10	5,063.31	492.19	-365.01	1,906,350.29	532,904.94	36.239257	-107.721753	
6,328.00	90.03	314.40	5,063.60	556.25	-429.64	1,906,414.28	532,840.24	36.239433	-107.721972	
6,418.00	90.47	314.07	5,063.21	619.03	-494.12	1,906,476.99	532,775.69	36.239606	-107.722191	
6,509.00	88.96	314.62	5,063.66	682.64	-559.20	1,906,540.52	532,710.54	36.239780	-107.722412	
6,601.00	88.90	313.54	5,065.38	746.63	-625.27	1,906,604.43	532,644.38	36.239956	-107.722636	
6,691.00	89.66	316.18	5,066.51	810.10	-689.06	1,906,667.83	532,580.53	36.240131	-107.722852	

Scientific Drilling Int.

Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 705H
Project:	T23N R8W	TVD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Site:	W Lybrook 705 Pad	MD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Well:	W Lybrook 705H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,782.00	89.66	315.17	5,067.05	875.20	-752.64	1,906,732.85	532,516.87	36.240309	-107.723068
6,873.00	89.29	314.19	5,067.89	939.18	-817.34	1,906,796.76	532,452.09	36.240485	-107.723287
6,965.00	89.87	313.95	5,068.56	1,003.17	-883.44	1,906,860.67	532,385.92	36.240661	-107.723511
7,056.00	88.46	315.45	5,069.89	1,067.17	-948.11	1,906,924.59	532,321.17	36.240837	-107.723730
7,147.00	90.24	317.86	5,070.92	1,133.33	-1,010.56	1,906,990.69	532,258.65	36.241018	-107.723942
7,238.00	90.77	317.96	5,070.12	1,200.86	-1,071.56	1,907,058.14	532,197.57	36.241204	-107.724149
7,328.00	87.76	316.71	5,071.27	1,267.03	-1,132.54	1,907,124.24	532,136.51	36.241386	-107.724356
7,419.00	87.85	316.56	5,074.76	1,333.13	-1,194.98	1,907,190.27	532,074.00	36.241567	-107.724568
7,510.00	88.05	316.19	5,078.01	1,398.96	-1,257.72	1,907,256.03	532,011.18	36.241748	-107.724780
7,599.00	88.96	315.63	5,080.34	1,462.87	-1,319.62	1,907,319.86	531,949.20	36.241924	-107.724990
7,690.00	88.39	315.37	5,082.44	1,527.75	-1,383.39	1,907,384.67	531,885.36	36.242102	-107.725207
7,779.00	90.20	315.52	5,083.54	1,591.17	-1,445.82	1,907,448.01	531,822.85	36.242276	-107.725418
7,870.00	89.87	315.42	5,083.48	1,656.04	-1,509.64	1,907,512.81	531,758.96	36.242454	-107.725635
7,961.00	90.23	315.24	5,083.40	1,720.75	-1,573.61	1,907,577.45	531,694.91	36.242632	-107.725852
8,051.00	89.23	314.94	5,083.82	1,784.49	-1,637.15	1,907,641.11	531,631.30	36.242807	-107.726067
8,142.00	90.00	315.02	5,084.44	1,848.81	-1,701.52	1,907,705.36	531,566.86	36.242984	-107.726285
8,232.00	89.87	314.42	5,084.54	1,912.14	-1,765.47	1,907,768.61	531,502.83	36.243158	-107.726502
8,322.00	90.24	314.47	5,084.45	1,975.16	-1,829.72	1,907,831.56	531,438.51	36.243331	-107.726720
8,412.00	90.57	315.73	5,083.82	2,038.91	-1,893.25	1,907,895.23	531,374.91	36.243506	-107.726936
8,502.00	90.03	315.51	5,083.34	2,103.23	-1,956.19	1,907,959.48	531,311.89	36.243683	-107.727149
8,592.00	88.66	314.51	5,084.37	2,166.88	-2,019.82	1,908,023.05	531,248.19	36.243858	-107.727365
8,682.00	90.71	314.52	5,084.87	2,229.97	-2,083.99	1,908,086.07	531,183.94	36.244031	-107.727582
8,772.00	91.78	313.82	5,082.91	2,292.67	-2,148.53	1,908,148.69	531,119.33	36.244203	-107.727801
8,862.00	91.84	313.99	5,080.07	2,355.05	-2,213.34	1,908,211.00	531,054.45	36.244375	-107.728021
8,953.00	91.24	314.17	5,077.62	2,418.33	-2,278.68	1,908,274.20	530,989.03	36.244548	-107.728243
9,044.00	90.07	313.97	5,076.58	2,481.62	-2,344.06	1,908,337.42	530,923.58	36.244722	-107.728465
9,132.00	87.75	311.89	5,078.26	2,541.54	-2,408.47	1,908,397.26	530,859.10	36.244887	-107.728683
9,227.00	88.52	314.13	5,081.35	2,606.30	-2,477.90	1,908,461.94	530,789.59	36.245065	-107.728918
9,322.00	89.13	316.80	5,083.30	2,674.00	-2,544.51	1,908,529.56	530,722.91	36.245251	-107.729144
9,417.00	89.06	316.82	5,084.80	2,743.25	-2,609.52	1,908,598.74	530,657.82	36.245441	-107.729365
9,513.00	89.66	316.96	5,085.87	2,813.33	-2,675.12	1,908,668.75	530,592.13	36.245633	-107.729587
9,608.00	89.73	317.20	5,086.38	2,882.90	-2,739.81	1,908,738.24	530,527.36	36.245824	-107.729807
9,703.00	89.23	317.85	5,087.24	2,952.97	-2,803.96	1,908,808.23	530,463.13	36.246017	-107.730024
9,798.00	89.93	317.21	5,087.94	3,023.04	-2,868.10	1,908,878.23	530,398.91	36.246209	-107.730242
9,893.00	89.03	316.91	5,088.80	3,092.58	-2,932.82	1,908,947.69	530,334.11	36.246400	-107.730461
9,988.00	88.79	316.88	5,090.60	3,161.93	-2,997.72	1,909,016.97	530,269.13	36.246591	-107.730681
10,083.00	90.24	318.03	5,091.41	3,231.91	-3,061.95	1,909,086.88	530,204.81	36.246783	-107.730899
10,178.00	90.50	316.13	5,090.80	3,301.48	-3,126.64	1,909,156.37	530,140.05	36.246974	-107.731119
10,273.00	90.10	316.58	5,090.30	3,370.22	-3,192.21	1,909,225.03	530,074.40	36.247163	-107.731341
10,368.00	89.97	314.18	5,090.24	3,437.84	-3,258.93	1,909,292.57	530,007.60	36.247349	-107.731567
10,463.00	89.83	314.07	5,090.41	3,503.98	-3,327.12	1,909,358.63	529,939.33	36.247531	-107.731799
10,558.00	88.59	313.69	5,091.72	3,569.82	-3,395.59	1,909,424.39	529,870.78	36.247711	-107.732031
10,654.00	88.56	313.92	5,094.10	3,636.25	-3,464.85	1,909,490.74	529,801.44	36.247894	-107.732266
10,681.00	88.49	314.12	5,094.80	3,655.01	-3,484.26	1,909,509.48	529,782.01	36.247945	-107.732332
RSI@ 10681' MD,									
10,699.00	88.45	314.26	5,095.28	3,667.55	-3,497.16	1,909,522.01	529,769.10	36.247980	-107.732375
Last Survey Lateral									
10,760.00	88.45	314.26	5,096.93	3,710.11	-3,540.83	1,909,564.51	529,725.38	36.248097	-107.732524
BP@ 10760' MD, - WL705H BHL									

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 705H
Project:	T23N R8W	TVD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Site:	W Lybrook 705 Pad	MD Reference:	GL 6778 + KB 21 = @ 6799.00usft (Cyclone 32)
Well:	W Lybrook 705H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
WL705H POE	0.00	0.00	5,067.00	56.88	52.53	1,905,915.47	533,322.99	36.238061	-107.720337
- actual wellpath misses target center by 19.69usft at 5634.01usft MD (5067.42 TVD, 70.99 N, 66.25 E)									
- Point									
WL705H BHL	0.00	0.00	5,085.00	3,713.09	-3,588.20	1,909,567.44	529,678.00	36.248105	-107.732684
- actual wellpath misses target center by 48.94usft at 10760.00usft MD (5096.93 TVD, 3710.11 N, -3540.83 E)									
- Point									

Design Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	
437.00	436.92	-4.03	-5.38	First Survey Int.
4,396.00	4,308.00	-508.77	597.64	Last Survey Int.
4,427.00	4,338.97	-508.15	598.80	First Survey Curve
5,628.00	5,067.54	66.80	70.56	Last Survey Curve
5,675.00	5,066.46	99.53	36.84	7" Casing@ 5675' MD,
5,779.00	5,063.02	171.50	-38.15	First Survey Lateral
10,681.00	5,094.80	3,655.01	-3,484.26	RSI@ 10681' MD,
10,699.00	5,095.28	3,667.55	-3,497.16	Last Survey Lateral
10,760.00	5,096.93	3,710.11	-3,540.83	BP@ 10760' MD,

Checked By: _____ Approved By: _____ Date: _____