

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 30-045-35750	*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT	*Well Number 745H
*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		1333	SOUTH	2250	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
P	17	23N	8W		335	SOUTH	418	EAST	SAN JUAN

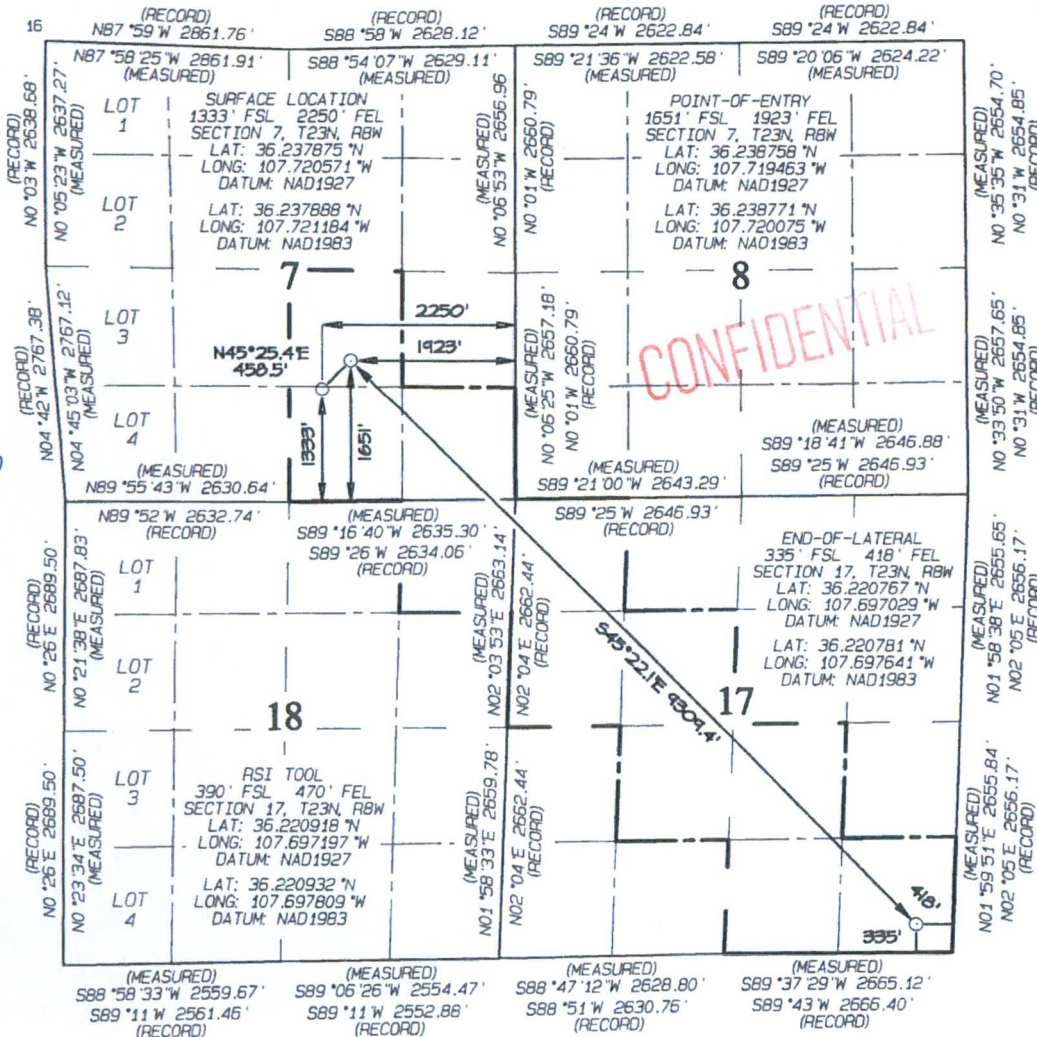
¹² Dedicated Acres
440.0 NE/4 NE/4 - Section 18
NW/4 SE/4, S/2 SE/4 - Section 7
NW/4 NW/4, S/2 NW/4, NE/4 SW/4
NW/4 SE/4, S/2 SE/4 - Section 17

¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.
R-14051 - 12,807.24 Acres

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

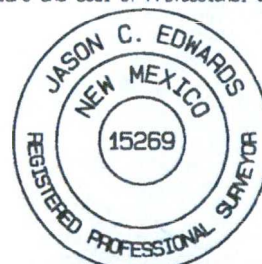
OIL CONS. DIV DIST. 3

JAN 16 - 2018



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: *Lacey Granillo* Date: 1/25/18
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 21, 2017
Date of Survey: MAY 15, 2015
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



EOW Summary

**WPX Energy
W Lybrook UT
#745H**



W Lybrook 745H
T23N R8W
Northing: 1905847.59
Easting: 533254.02
Actual

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



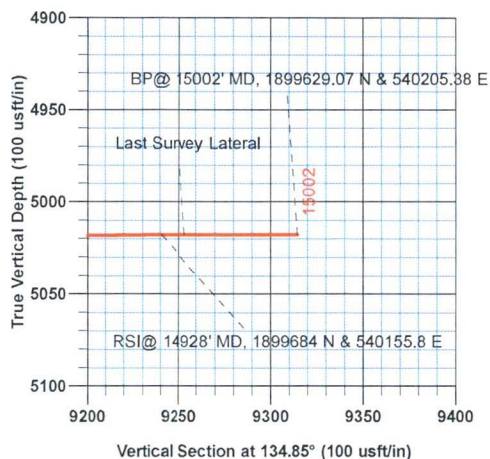
WELL DETAILS W Lybrook 745H

		Ground Level: 6778.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1905847.59	533254.02	36.237875	-107.720571

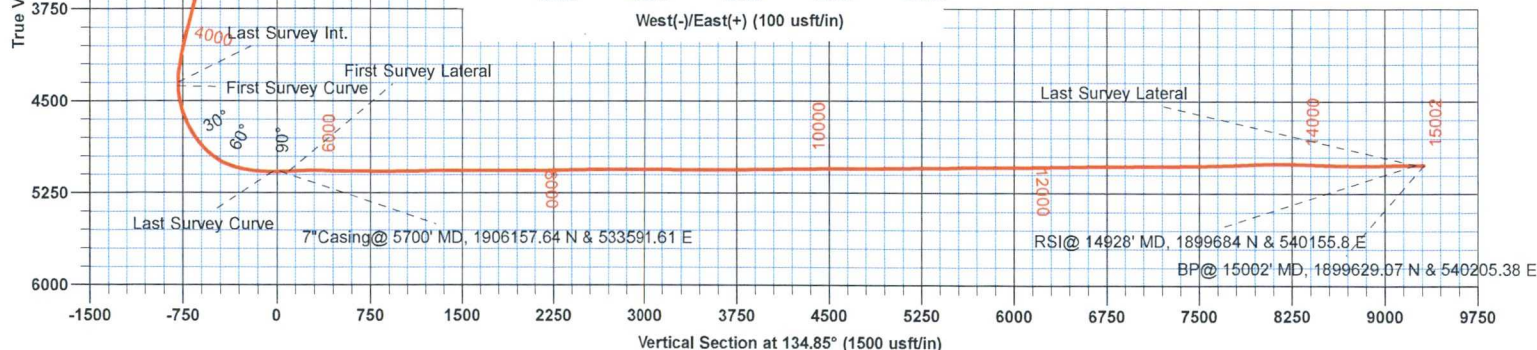
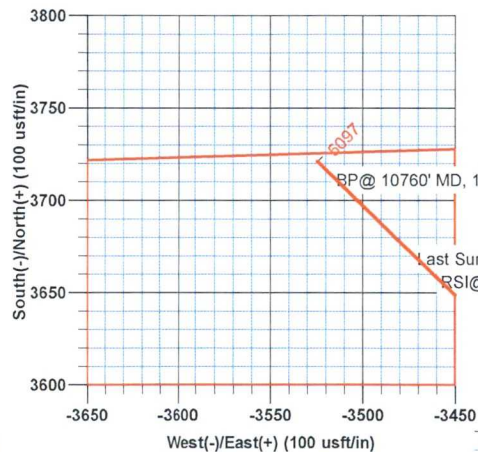
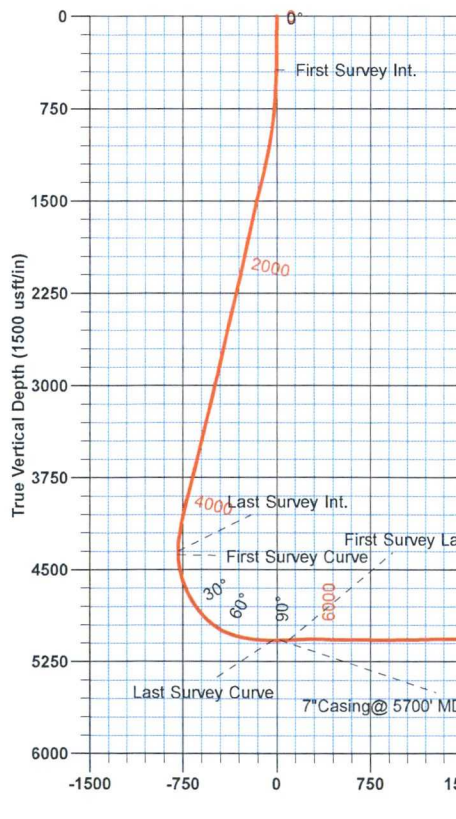
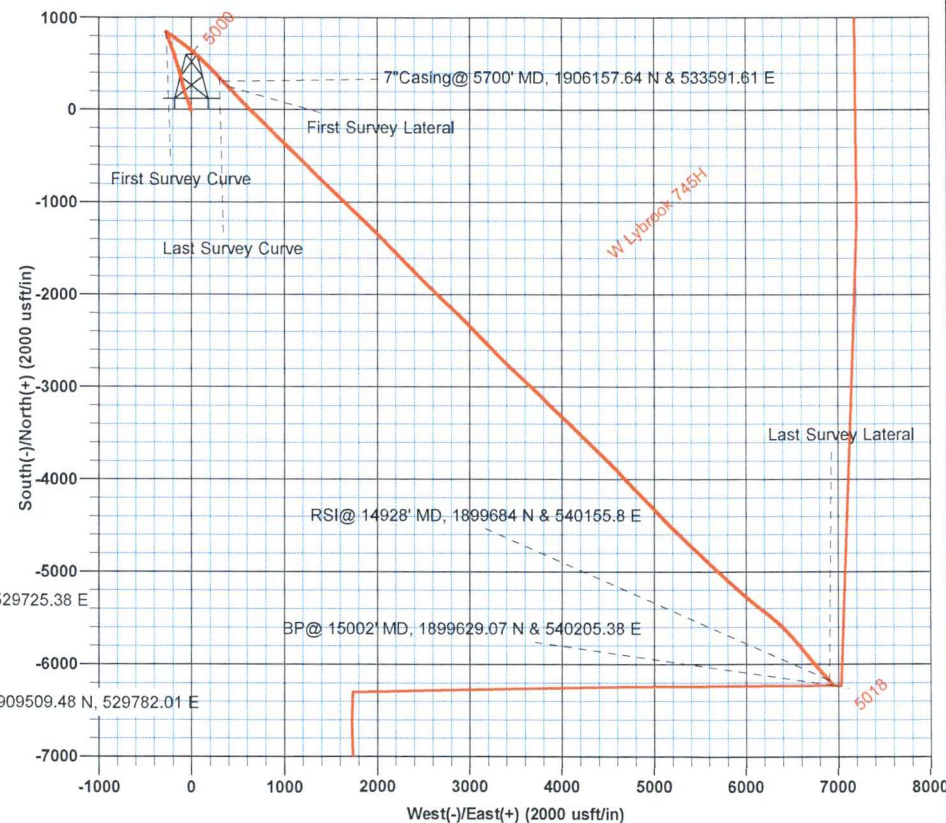
TVD	MD	ANNOTATIONS
436.95	437.00	Annotation
4349.10	4458.00	First Survey Int.
4381.09	4490.00	Last Survey Int.
5076.78	5648.00	First Survey Curve
5075.97	5700.00	Last Survey Curve
5073.46	5777.00	7" Casing@ 5700' MD, 1906157.64 N & 533591.61 E
5017.83	14928.00	First Survey Lateral
5017.87	14941.00	RSI@ 14928' MD, 1899684 N & 540155.8 E
5018.05	15002.00	Last Survey Lateral
		BP@ 15002' MD, 1899629.07 N & 540205.38 E



Azimuths to True North
 Magnetic North: 9.00°
 Magnetic Field
 Strength: 49664.4snT
 Dip Angle: 62.88°
 Date: 7/3/2017
 Model: HDGM



0.07



Bailey Fellows
 10:03, August 17 2017

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

WPX Energy

T23N R8W

W Lybrook 705 Pad

W Lybrook 745H

API: 30-045-35750

Wellbore #1

Design: Actual

Survey Report - Geographic

17 August, 2017



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 745H
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 745H	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 745H					
Well Position	+N/-S	0.00 usft	Northing:	1,905,847.59 usft	Latitude:	36.237875
	+E/-W	0.00 usft	Easting:	533,254.02 usft	Longitude:	-107.720571
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	134.85	

Survey Program	Date	8/17/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	305.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
437.00	4,458.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,490.00	5,648.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,777.00	15,002.00	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	1,905,847.59	533,254.02	36.237875	-107.720571
21.00	0.00	0.00	21.00	0.00	0.00	1,905,847.59	533,254.02	36.237875	-107.720571
51.00	0.23	179.88	51.00	-0.06	0.00	1,905,847.53	533,254.02	36.237875	-107.720571
81.00	0.44	174.44	81.00	-0.24	0.01	1,905,847.35	533,254.04	36.237874	-107.720571
111.00	0.54	203.67	111.00	-0.48	-0.03	1,905,847.11	533,253.99	36.237874	-107.720571
141.00	0.63	205.80	141.00	-0.76	-0.16	1,905,846.83	533,253.86	36.237873	-107.720572
171.00	0.66	216.29	170.99	-1.04	-0.34	1,905,846.54	533,253.69	36.237872	-107.720572
201.00	0.77	212.10	200.99	-1.35	-0.55	1,905,846.23	533,253.48	36.237871	-107.720573
231.00	0.85	221.71	230.99	-1.69	-0.80	1,905,845.90	533,253.23	36.237870	-107.720574

Scientific Drilling Int.

Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 745H
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 745H	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	0.85	233.07	260.99	-1.99	-1.13	1,905,845.60	533,252.90	36.237870	-107.720575	
291.00	1.09	256.02	290.98	-2.19	-1.58	1,905,845.39	533,252.44	36.237869	-107.720577	
305.00	1.20	254.14	304.98	-2.27	-1.85	1,905,845.32	533,252.17	36.237869	-107.720578	
437.00	1.23	255.88	436.95	-2.99	-4.56	1,905,844.59	533,249.47	36.237867	-107.720587	
First Survey Int.										
527.00	2.23	318.52	526.91	-1.91	-6.65	1,905,845.67	533,247.37	36.237870	-107.720594	
618.00	3.52	342.17	617.80	2.07	-8.68	1,905,849.65	533,245.34	36.237881	-107.720601	
709.00	5.69	351.07	708.50	9.19	-10.24	1,905,856.77	533,243.78	36.237900	-107.720606	
800.00	7.34	354.70	798.91	19.43	-11.47	1,905,867.01	533,242.53	36.237928	-107.720610	
891.00	8.63	344.41	889.03	31.80	-13.85	1,905,879.37	533,240.14	36.237962	-107.720618	
982.00	10.19	338.87	978.81	45.89	-18.58	1,905,893.45	533,235.39	36.238001	-107.720634	
1,072.00	11.42	339.64	1,067.21	61.67	-24.55	1,905,909.23	533,229.40	36.238044	-107.720655	
1,164.00	12.55	340.94	1,157.20	79.65	-30.99	1,905,927.21	533,222.95	36.238094	-107.720676	
1,255.00	13.66	341.89	1,245.83	99.21	-37.56	1,905,946.76	533,216.35	36.238148	-107.720699	
1,346.00	15.88	341.09	1,333.82	121.20	-44.93	1,905,968.74	533,208.95	36.238208	-107.720724	
1,437.00	15.55	334.59	1,421.43	144.00	-54.20	1,905,991.53	533,199.66	36.238271	-107.720755	
1,528.00	14.08	341.19	1,509.40	165.50	-63.00	1,906,013.02	533,190.83	36.238330	-107.720785	
1,619.00	13.61	341.95	1,597.76	186.16	-69.89	1,906,033.67	533,183.92	36.238386	-107.720808	
1,710.00	12.82	339.89	1,686.35	205.82	-76.68	1,906,053.32	533,177.11	36.238441	-107.720831	
1,799.00	13.16	347.80	1,773.08	224.99	-82.22	1,906,072.49	533,171.55	36.238493	-107.720850	
1,890.00	14.02	344.70	1,861.53	245.75	-87.31	1,906,093.24	533,166.42	36.238550	-107.720867	
1,980.00	14.91	346.62	1,948.68	267.53	-92.87	1,906,115.01	533,160.84	36.238610	-107.720886	
2,070.00	14.11	344.46	2,035.81	289.37	-98.49	1,906,136.84	533,155.20	36.238670	-107.720905	
2,161.00	14.80	347.88	2,123.93	311.42	-103.90	1,906,158.89	533,149.76	36.238731	-107.720924	
2,252.00	14.93	349.46	2,211.88	334.31	-108.49	1,906,181.77	533,145.15	36.238793	-107.720939	
2,343.00	14.87	348.38	2,299.82	357.27	-112.98	1,906,204.73	533,140.63	36.238857	-107.720954	
2,433.00	15.23	347.07	2,386.74	380.10	-117.95	1,906,227.55	533,135.63	36.238919	-107.720971	
2,523.00	15.37	344.78	2,473.55	403.13	-123.73	1,906,250.58	533,129.83	36.238983	-107.720991	
2,613.00	15.81	343.51	2,560.24	426.40	-130.34	1,906,273.83	533,123.19	36.239046	-107.721013	
2,702.00	13.98	341.23	2,646.24	448.20	-137.24	1,906,295.63	533,116.26	36.239106	-107.721037	
2,793.00	12.62	340.11	2,734.80	467.96	-144.16	1,906,315.38	533,109.32	36.239161	-107.721060	
2,883.00	13.64	342.83	2,822.45	487.35	-150.64	1,906,334.76	533,102.82	36.239214	-107.721082	
2,972.00	15.50	345.52	2,908.58	508.89	-156.71	1,906,356.29	533,096.72	36.239273	-107.721103	
3,063.00	15.04	344.43	2,996.37	532.03	-162.92	1,906,379.43	533,090.48	36.239337	-107.721124	
3,153.00	14.43	344.36	3,083.41	554.08	-169.08	1,906,401.47	533,084.30	36.239397	-107.721145	
3,244.00	15.90	344.26	3,171.24	577.00	-175.52	1,906,424.38	533,077.84	36.239460	-107.721166	
3,333.00	15.34	342.81	3,256.95	599.98	-182.30	1,906,447.36	533,071.02	36.239523	-107.721189	
3,428.00	15.14	341.06	3,348.61	623.72	-190.04	1,906,471.09	533,063.26	36.239589	-107.721216	
3,523.00	14.16	340.24	3,440.52	646.39	-198.00	1,906,493.75	533,055.27	36.239651	-107.721243	
3,619.00	15.54	341.43	3,533.31	669.63	-206.06	1,906,516.98	533,047.18	36.239715	-107.721270	
3,714.00	14.65	339.68	3,625.03	692.96	-214.29	1,906,540.30	533,038.93	36.239779	-107.721298	
3,809.00	16.27	340.57	3,716.59	716.78	-222.89	1,906,564.11	533,030.30	36.239844	-107.721327	
3,904.00	14.42	337.77	3,808.20	740.28	-231.79	1,906,587.60	533,021.37	36.239909	-107.721357	
3,999.00	16.31	342.26	3,899.81	763.94	-240.33	1,906,611.25	533,012.80	36.239974	-107.721386	
4,094.00	15.30	343.25	3,991.22	788.65	-248.01	1,906,635.95	533,005.10	36.240042	-107.721412	
4,189.00	12.96	342.12	4,083.33	810.79	-254.89	1,906,658.08	532,998.19	36.240102	-107.721436	
4,284.00	10.06	338.68	4,176.42	828.66	-261.18	1,906,675.95	532,991.88	36.240152	-107.721457	
4,331.00	9.50	333.89	4,222.73	835.97	-264.38	1,906,683.25	532,988.67	36.240172	-107.721468	
4,363.00	7.65	331.31	4,254.37	840.21	-266.57	1,906,687.49	532,986.48	36.240183	-107.721475	
4,395.00	4.72	331.07	4,286.18	843.23	-268.23	1,906,690.51	532,984.82	36.240192	-107.721481	
4,427.00	2.49	338.43	4,318.12	845.03	-269.12	1,906,692.31	532,983.92	36.240197	-107.721484	
4,458.00	1.34	38.65	4,349.10	845.94	-269.14	1,906,693.22	532,983.90	36.240199	-107.721484	
Last Survey Int.										
4,490.00	2.61	99.61	4,381.09	846.11	-268.19	1,906,693.39	532,984.85	36.240199	-107.721481	
First Survey Curve										

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 745H
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 745H	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
4,522.00	4.91	118.97	4,413.02	845.33	-266.27	1,906,692.60	532,986.77	36.240197	-107.721474
4,553.00	7.20	126.01	4,443.84	843.54	-263.54	1,906,690.82	532,989.50	36.240192	-107.721465
4,585.00	9.28	124.36	4,475.51	840.91	-259.79	1,906,688.19	532,993.26	36.240185	-107.721452
4,617.00	11.83	122.75	4,506.97	837.67	-254.90	1,906,684.97	532,998.15	36.240176	-107.721436
4,648.00	14.06	124.09	4,537.18	833.84	-249.10	1,906,681.14	533,003.95	36.240166	-107.721416
4,680.00	16.34	126.70	4,568.06	828.97	-242.28	1,906,676.28	533,010.78	36.240152	-107.721393
4,712.00	18.65	126.73	4,598.57	823.22	-234.56	1,906,670.54	533,018.50	36.240137	-107.721367
4,744.00	21.10	127.82	4,628.67	816.63	-225.91	1,906,663.96	533,027.16	36.240118	-107.721337
4,775.00	23.35	128.54	4,657.36	809.38	-216.70	1,906,656.72	533,036.38	36.240099	-107.721306
4,807.00	25.49	128.89	4,686.50	801.11	-206.38	1,906,648.45	533,046.71	36.240076	-107.721271
4,838.00	27.04	128.66	4,714.29	792.51	-195.68	1,906,639.88	533,057.42	36.240052	-107.721235
4,870.00	29.26	128.41	4,742.51	783.11	-183.87	1,906,630.49	533,069.24	36.240026	-107.721195
4,902.00	31.33	126.75	4,770.14	773.27	-171.08	1,906,620.66	533,082.05	36.239999	-107.721151
4,934.00	34.03	125.81	4,797.07	763.05	-157.15	1,906,610.46	533,095.99	36.239971	-107.721104
4,965.00	36.73	125.42	4,822.34	752.61	-142.56	1,906,600.03	533,110.59	36.239943	-107.721055
4,997.00	39.89	125.41	4,847.45	741.11	-126.39	1,906,588.55	533,126.77	36.239911	-107.721000
5,029.00	42.73	126.20	4,871.48	728.75	-109.26	1,906,576.21	533,143.91	36.239877	-107.720942
5,060.00	45.30	127.06	4,893.77	715.90	-91.98	1,906,563.38	533,161.21	36.239842	-107.720883
5,092.00	47.68	126.79	4,915.80	701.96	-73.43	1,906,549.46	533,179.78	36.239803	-107.720820
5,124.00	49.69	126.38	4,936.93	687.63	-54.13	1,906,535.16	533,199.09	36.239764	-107.720755
5,155.00	53.04	128.18	4,956.28	672.96	-34.87	1,906,520.51	533,218.37	36.239724	-107.720690
5,187.00	56.77	129.45	4,974.68	656.55	-14.48	1,906,504.12	533,238.78	36.239679	-107.720620
5,218.00	60.74	130.35	4,990.75	639.55	5.85	1,906,487.14	533,259.13	36.239632	-107.720551
5,250.00	64.67	130.70	5,005.43	621.07	27.46	1,906,468.69	533,280.76	36.239581	-107.720478
5,282.00	67.62	131.41	5,018.37	601.85	49.52	1,906,449.50	533,302.85	36.239528	-107.720403
5,314.00	70.05	132.14	5,029.92	581.97	71.77	1,906,429.64	533,325.12	36.239474	-107.720328
5,345.00	72.70	133.12	5,039.82	562.08	93.38	1,906,409.77	533,346.75	36.239419	-107.720255
5,377.00	75.57	133.70	5,048.57	540.93	115.74	1,906,388.65	533,369.14	36.239361	-107.720179
5,409.00	77.93	134.67	5,055.90	519.22	138.07	1,906,366.97	533,391.49	36.239301	-107.720103
5,440.00	80.00	135.51	5,061.83	497.67	159.55	1,906,345.44	533,413.00	36.239242	-107.720030
5,472.00	81.78	135.90	5,066.90	475.05	181.62	1,906,322.85	533,435.09	36.239180	-107.719955
5,504.00	84.28	136.05	5,070.78	452.22	203.69	1,906,300.04	533,457.19	36.239117	-107.719881
5,536.00	86.95	136.82	5,073.23	429.10	225.68	1,906,276.95	533,479.20	36.239054	-107.719806
5,567.00	87.59	137.07	5,074.71	406.47	246.82	1,906,254.35	533,500.37	36.238992	-107.719734
5,599.00	87.72	136.81	5,076.02	383.11	268.65	1,906,231.01	533,522.23	36.238928	-107.719660
5,648.00	90.50	136.57	5,076.78	347.47	302.25	1,906,195.41	533,555.87	36.238830	-107.719546
Last Survey Curve									
5,683.86	91.04	136.67	5,076.29	321.41	326.88	1,906,169.37	533,580.53	36.238758	-107.719463
WL745H POE orig.									
5,700.00	91.29	136.72	5,075.97	309.66	337.95	1,906,157.64	533,591.61	36.238726	-107.719425
7"Casing@ 5700' MD, 1906157.64 N & 533591.61 E - 7"									
5,777.00	92.45	136.93	5,073.46	253.54	390.61	1,906,101.59	533,644.34	36.238572	-107.719247
First Survey Lateral									
5,872.00	91.98	137.46	5,069.78	183.90	455.11	1,906,032.01	533,708.92	36.238380	-107.719028
5,967.00	89.66	135.86	5,068.43	114.82	520.30	1,905,963.01	533,774.19	36.238190	-107.718807
6,062.00	88.93	134.79	5,069.59	47.27	587.08	1,905,895.54	533,841.05	36.238005	-107.718581
6,157.00	90.30	135.26	5,070.23	-19.93	654.23	1,905,828.42	533,908.27	36.237820	-107.718353
6,252.00	89.73	135.50	5,070.21	-87.55	720.96	1,905,760.88	533,975.08	36.237635	-107.718127
6,347.00	88.86	134.26	5,071.38	-154.58	788.26	1,905,693.93	534,042.47	36.237450	-107.717898
6,442.00	89.16	133.74	5,073.02	-220.56	856.59	1,905,628.02	534,110.87	36.237269	-107.717667
6,537.00	90.44	135.38	5,073.35	-287.21	924.28	1,905,561.45	534,178.63	36.237086	-107.717437
6,633.00	90.81	135.22	5,072.30	-355.45	991.80	1,905,493.30	534,246.23	36.236899	-107.717208
6,727.00	91.11	134.61	5,070.73	-421.81	1,058.35	1,905,427.01	534,312.87	36.236716	-107.716983
6,823.00	89.70	133.31	5,070.05	-488.44	1,127.45	1,905,360.46	534,382.04	36.236533	-107.716748

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 745H
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 745H	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
6,918.00	91.81	135.38	5,068.80	-554.83	1,195.38	1,905,294.15	534,450.05	36.236351	-107.716518
7,013.00	91.17	135.06	5,066.33	-622.24	1,262.27	1,905,226.82	534,517.02	36.236166	-107.716291
7,108.00	89.36	133.27	5,065.89	-688.42	1,330.41	1,905,160.72	534,585.24	36.235984	-107.716060
7,203.00	90.07	135.32	5,066.36	-754.76	1,398.40	1,905,094.46	534,653.31	36.235802	-107.715830
7,298.00	90.20	135.11	5,066.14	-822.19	1,465.33	1,905,027.11	534,720.31	36.235616	-107.715603
7,393.00	90.37	134.76	5,065.66	-889.29	1,532.58	1,904,960.09	534,787.63	36.235432	-107.715375
7,488.00	89.80	134.09	5,065.52	-955.78	1,600.42	1,904,893.67	534,855.56	36.235249	-107.715145
7,584.00	90.97	134.27	5,064.88	-1,022.68	1,669.27	1,904,826.85	534,924.48	36.235065	-107.714911
7,679.00	88.49	132.33	5,065.33	-1,087.83	1,738.39	1,904,761.78	534,993.68	36.234887	-107.714677
7,774.00	89.13	133.87	5,067.30	-1,152.72	1,807.74	1,904,696.97	535,063.11	36.234708	-107.714442
7,869.00	89.93	133.93	5,068.08	-1,218.59	1,876.19	1,904,631.18	535,131.63	36.234527	-107.714209
7,964.00	91.55	135.27	5,066.85	-1,285.29	1,943.83	1,904,564.56	535,199.34	36.234344	-107.713980
8,059.00	92.92	135.33	5,063.15	-1,352.76	2,010.60	1,904,497.17	535,266.19	36.234159	-107.713754
8,155.00	91.41	136.34	5,059.52	-1,421.57	2,077.43	1,904,428.43	535,333.11	36.233970	-107.713527
8,250.00	89.87	136.40	5,058.46	-1,490.33	2,142.97	1,904,359.75	535,398.73	36.233781	-107.713305
8,345.00	89.78	135.56	5,058.75	-1,558.64	2,208.99	1,904,291.52	535,464.83	36.233593	-107.713081
8,440.00	90.44	135.26	5,058.57	-1,626.30	2,275.68	1,904,223.94	535,531.60	36.233407	-107.712855
8,531.00	88.93	135.23	5,059.07	-1,690.91	2,339.75	1,904,159.40	535,595.74	36.233230	-107.712638
8,622.00	88.37	134.07	5,061.21	-1,754.85	2,404.47	1,904,095.54	535,660.53	36.233054	-107.712418
8,713.00	91.45	135.12	5,061.35	-1,818.73	2,469.26	1,904,031.73	535,725.40	36.232878	-107.712199
8,803.00	89.83	135.21	5,060.35	-1,882.55	2,532.71	1,903,967.99	535,788.92	36.232703	-107.711984
8,894.00	89.43	134.36	5,060.94	-1,946.65	2,597.30	1,903,903.96	535,853.58	36.232527	-107.711765
8,984.00	90.44	133.98	5,061.04	-2,009.36	2,661.85	1,903,841.33	535,918.21	36.232355	-107.711546
9,075.00	89.66	134.56	5,060.96	-2,072.88	2,727.01	1,903,777.88	535,983.44	36.232180	-107.711325
9,166.00	90.03	133.94	5,061.20	-2,136.38	2,792.19	1,903,714.46	536,048.70	36.232006	-107.711104
9,257.00	91.04	134.42	5,060.35	-2,199.79	2,857.45	1,903,651.12	536,114.03	36.231832	-107.710883
9,348.00	89.26	134.96	5,060.12	-2,263.79	2,922.14	1,903,587.20	536,178.80	36.231656	-107.710663
9,439.00	90.60	135.19	5,060.23	-2,328.22	2,986.40	1,903,522.85	536,243.13	36.231479	-107.710445
9,531.00	89.70	135.78	5,059.99	-2,393.82	3,050.90	1,903,457.32	536,307.71	36.231298	-107.710227
9,621.00	91.08	135.95	5,059.37	-2,458.41	3,113.57	1,903,392.81	536,370.45	36.231121	-107.710014
9,713.00	90.17	136.58	5,058.37	-2,524.88	3,177.17	1,903,326.41	536,434.13	36.230938	-107.709799
9,804.00	90.48	135.91	5,057.85	-2,590.61	3,240.10	1,903,260.76	536,497.14	36.230758	-107.709585
9,895.00	91.31	135.53	5,056.43	-2,655.75	3,303.62	1,903,195.69	536,560.74	36.230579	-107.709370
9,986.00	89.66	135.09	5,055.66	-2,720.44	3,367.62	1,903,131.07	536,624.80	36.230401	-107.709153
10,077.00	90.20	134.52	5,055.77	-2,784.56	3,432.18	1,903,067.02	536,689.44	36.230225	-107.708934
10,166.00	90.84	133.80	5,054.97	-2,846.56	3,496.03	1,903,005.10	536,753.36	36.230055	-107.708718
10,257.00	90.97	132.90	5,053.53	-2,909.02	3,562.19	1,902,942.71	536,819.60	36.229883	-107.708493
10,346.00	89.23	132.17	5,053.37	-2,969.19	3,627.77	1,902,882.63	536,885.24	36.229718	-107.708271
10,437.00	89.93	131.80	5,054.04	-3,030.06	3,695.41	1,902,821.83	536,952.96	36.229550	-107.708042
10,528.00	90.47	135.25	5,053.72	-3,092.72	3,761.38	1,902,759.25	537,019.00	36.229378	-107.707818
10,618.00	91.10	135.56	5,052.49	-3,156.80	3,824.56	1,902,695.24	537,082.26	36.229202	-107.707604
10,709.00	91.34	134.70	5,050.55	-3,221.28	3,888.75	1,902,630.84	537,146.52	36.229025	-107.707386
10,799.00	89.50	132.99	5,049.89	-3,283.61	3,953.65	1,902,568.58	537,211.49	36.228854	-107.707166
10,889.00	89.66	132.30	5,050.55	-3,344.58	4,019.85	1,902,507.69	537,277.76	36.228686	-107.706942
10,979.00	91.24	133.05	5,049.85	-3,405.58	4,086.01	1,902,446.76	537,344.00	36.228519	-107.706718
11,069.00	90.64	135.07	5,048.37	-3,468.16	4,150.67	1,902,384.26	537,408.73	36.228347	-107.706498
11,159.00	90.94	134.85	5,047.13	-3,531.75	4,214.35	1,902,320.75	537,472.48	36.228172	-107.706282
11,249.00	90.64	134.45	5,045.89	-3,594.99	4,278.37	1,902,257.58	537,536.58	36.227998	-107.706065
11,339.00	90.30	133.78	5,045.15	-3,657.64	4,342.99	1,902,195.01	537,601.26	36.227826	-107.705846
11,429.00	90.27	133.03	5,044.70	-3,719.48	4,408.37	1,902,133.24	537,666.72	36.227656	-107.705625
11,520.00	89.53	135.34	5,044.86	-3,782.90	4,473.62	1,902,069.90	537,732.04	36.227482	-107.705404
11,611.00	90.60	135.66	5,044.76	-3,847.80	4,537.40	1,902,005.07	537,795.90	36.227304	-107.705187
11,699.00	91.55	136.19	5,043.11	-3,911.01	4,598.60	1,901,941.93	537,857.18	36.227130	-107.704980
11,795.00	89.70	136.89	5,042.06	-3,980.69	4,664.63	1,901,872.33	537,923.28	36.226938	-107.704756
11,890.00	90.97	136.55	5,041.50	-4,049.85	4,729.76	1,901,803.25	537,988.49	36.226748	-107.704535

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 745H
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 745H	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
11,985.00	92.25	137.19	5,038.83	-4,119.15	4,794.68	1,901,734.02	538,053.49	36.226558	-107.704315
12,080.00	89.13	135.51	5,037.69	-4,187.87	4,860.24	1,901,665.38	538,119.13	36.226369	-107.704093
12,175.00	90.64	135.22	5,037.88	-4,255.47	4,926.98	1,901,597.85	538,185.95	36.226184	-107.703867
12,270.00	92.52	135.99	5,035.26	-4,323.32	4,993.41	1,901,530.08	538,252.46	36.225997	-107.703641
12,365.00	90.50	136.42	5,032.76	-4,391.87	5,059.13	1,901,461.61	538,318.26	36.225809	-107.703419
12,460.00	89.50	135.27	5,032.76	-4,460.02	5,125.31	1,901,393.53	538,384.52	36.225621	-107.703194
12,555.00	89.87	134.82	5,033.28	-4,527.25	5,192.43	1,901,326.38	538,451.72	36.225437	-107.702967
12,650.00	90.91	134.33	5,032.63	-4,593.92	5,260.10	1,901,259.79	538,519.46	36.225254	-107.702737
12,745.00	91.11	133.81	5,030.96	-4,659.99	5,328.34	1,901,193.80	538,587.79	36.225072	-107.702506
12,841.00	89.93	132.20	5,030.09	-4,725.46	5,398.54	1,901,128.41	538,658.06	36.224892	-107.702268
12,936.00	89.73	131.54	5,030.37	-4,788.87	5,469.28	1,901,065.09	538,728.88	36.224718	-107.702028
13,032.00	89.63	133.07	5,030.91	-4,853.48	5,540.28	1,901,000.56	538,799.95	36.224540	-107.701788
13,127.00	91.41	133.88	5,030.04	-4,918.84	5,609.21	1,900,935.28	538,868.96	36.224361	-107.701554
13,222.00	91.65	133.31	5,027.51	-4,984.32	5,677.99	1,900,869.88	538,937.81	36.224181	-107.701321
13,316.00	91.24	132.62	5,025.14	-5,048.37	5,746.75	1,900,805.91	539,006.65	36.224005	-107.701088
13,411.00	91.38	132.08	5,022.96	-5,112.35	5,816.94	1,900,742.01	539,076.91	36.223829	-107.700850
13,507.00	92.55	131.34	5,019.67	-5,176.18	5,888.57	1,900,678.26	539,148.61	36.223654	-107.700607
13,602.00	93.19	131.16	5,014.92	-5,238.74	5,959.90	1,900,615.79	539,220.02	36.223482	-107.700365
13,697.00	91.68	130.39	5,010.88	-5,300.73	6,031.78	1,900,553.88	539,291.96	36.223311	-107.700122
13,792.00	91.64	129.38	5,008.13	-5,361.62	6,104.64	1,900,493.08	539,364.90	36.223144	-107.699875
13,887.00	88.59	126.22	5,007.94	-5,419.83	6,179.69	1,900,434.95	539,440.01	36.222984	-107.699620
13,983.00	88.12	128.43	5,010.69	-5,478.01	6,255.99	1,900,376.86	539,516.38	36.222824	-107.699362
14,078.00	87.38	130.84	5,014.42	-5,538.56	6,329.09	1,900,316.40	539,589.55	36.222658	-107.699114
14,173.00	87.99	133.97	5,018.26	-5,602.56	6,399.17	1,900,252.47	539,659.71	36.222482	-107.698876
14,269.00	87.65	136.84	5,021.91	-5,670.87	6,466.52	1,900,184.25	539,727.13	36.222294	-107.698648
14,364.00	89.43	140.97	5,024.34	-5,742.42	6,528.92	1,900,112.77	539,789.63	36.222098	-107.698437
14,459.00	89.26	140.33	5,025.42	-5,815.88	6,589.15	1,900,039.38	539,849.94	36.221896	-107.698232
14,559.00	90.30	139.73	5,025.81	-5,892.51	6,653.39	1,899,962.82	539,914.27	36.221685	-107.698015
14,649.00	91.24	139.38	5,024.60	-5,961.00	6,711.77	1,899,894.40	539,972.73	36.221497	-107.697817
14,744.00	92.07	138.90	5,021.85	-6,032.82	6,773.89	1,899,822.66	540,034.93	36.221300	-107.697606
14,840.00	91.48	139.40	5,018.88	-6,105.40	6,836.66	1,899,750.15	540,097.78	36.221100	-107.697394
14,928.00	89.89	138.22	5,017.83	-6,171.62	6,894.60	1,899,684.00	540,155.80	36.220918	-107.697197
RSI@ 14928' MD, 1899684 N & 540155.8 E									
14,935.00	89.76	138.13	5,017.85	-6,176.83	6,899.27	1,899,678.79	540,160.47	36.220904	-107.697181
14,941.00	89.83	137.97	5,017.87	-6,181.29	6,903.28	1,899,674.33	540,164.49	36.220892	-107.697168
Last Survey Lateral									
14,995.29	89.83	137.97	5,018.03	-6,221.62	6,939.62	1,899,634.05	540,200.88	36.220781	-107.697045
WL745H BHL									
15,002.00	89.83	137.97	5,018.05	-6,226.60	6,944.12	1,899,629.07	540,205.38	36.220767	-107.697029
BP@ 15002' MD, 1899629.07 N & 540205.38 E									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
WL745H BHL	0.00	0.00	4,997.00	-6,231.85	6,928.36	1,899,623.80	540,189.63	36.220753	-107.697083
- hit/miss target									
- Shape									
- actual wellpath misses target center by 25.96usft at 14995.29usft MD (5018.03 TVD, -6221.62 N, 6939.62 E)									
- Point									
WL745H POE orig.	0.00	0.00	5,082.00	328.74	334.78	1,906,176.72	533,588.42	36.238778	-107.719436
- hit/miss target									
- Shape									
- actual wellpath misses target center by 12.20usft at 5683.86usft MD (5076.29 TVD, 321.41 N, 326.88 E)									
- Point									

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 745H
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 745H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
5,700.00	5,075.97	7"	7	8-3/4	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
437.00	436.95	-2.99	-4.56	First Survey Int.	
4,458.00	4,349.10	845.94	-269.14	Last Survey Int.	
4,490.00	4,381.09	846.11	-268.19	First Survey Curve	
5,648.00	5,076.78	347.47	302.25	Last Survey Curve	
5,700.00	5,075.97	309.66	337.95	7"Casing@ 5700' MD, 1906157.64 N & 533591.61 E	
5,777.00	5,073.46	253.54	390.61	First Survey Lateral	
14,928.00	5,017.83	-6,171.62	6,894.60	RSI@ 14928' MD, 1899684 N & 540155.8 E	
14,941.00	5,017.87	-6,181.29	6,903.28	Last Survey Lateral	
15,002.00	5,018.05	-6,226.60	6,944.12	BP@ 15002' MD, 1899629.07 N & 540205.38 E	

Checked By: _____	Approved By: _____	Date: _____
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