

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First Street, Santa Fe, NM 87501
Phone: (505) 426-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Santa Fe, NM 87410
Phone: (505) 426-1283 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 30-045-35809		*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT		*Well Number 711H
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6823

¹⁰ Surface Location

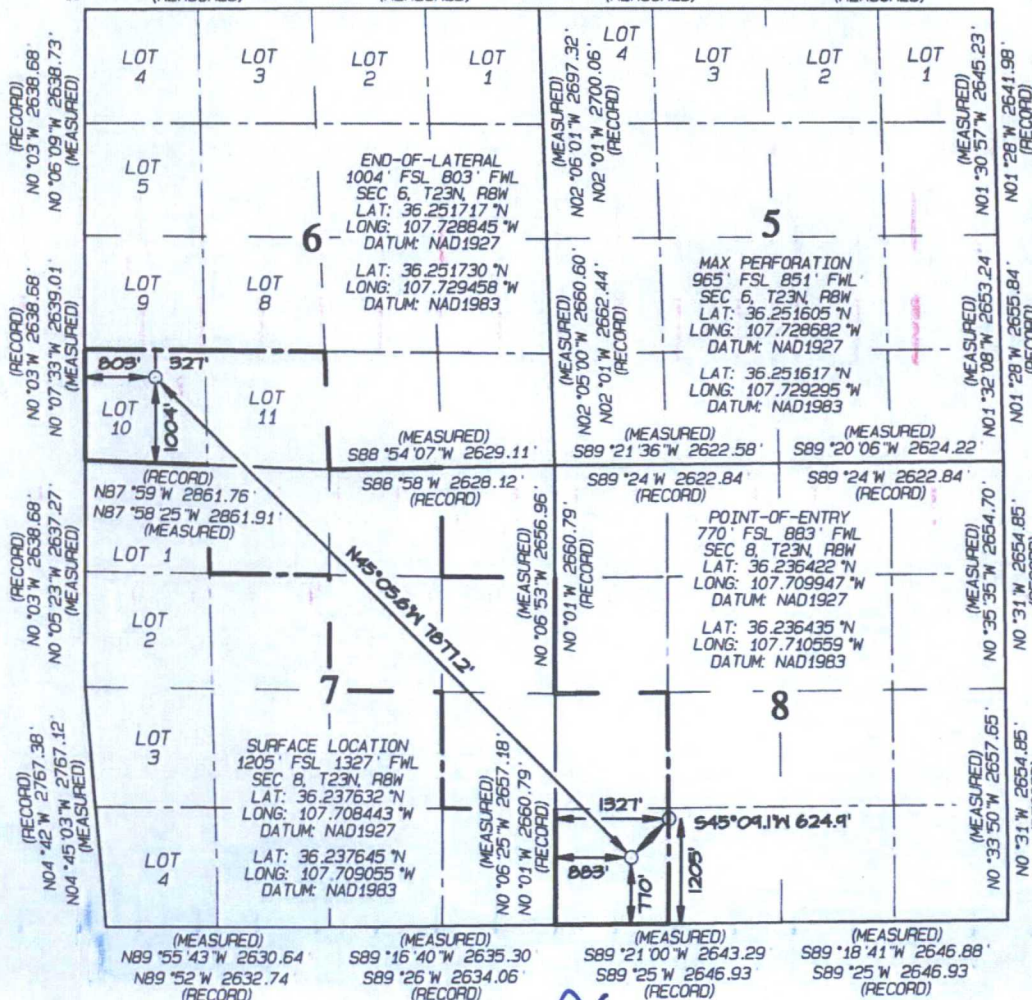
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	8	23N	8W		1205	SOUTH	1327	WEST	SAN JUAN

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
M	6	23N	8W	10	1004	SOUTH	803	WEST	SAN JUAN

¹² Dedicated Acres 367.16 S/2 SW/4 - Section 6 NE/4 NW/4, NW/4 NE/4 S/2 NE/4, NE/4 SE/4 - Section 7 W/2 SW/4 - Section 8		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



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: 3/21/17

Printed Name: Lacey Granillo

E-mail Address: lacey.granillo@wpxenergy.com

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: MARCH 20, 2017
Survey Date: OCTOBER 24, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



Amended

WPX Energy

T23N R8W

2308-08N WLU

W Lybrook UT #711H - Slot 711H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

31 January, 2017

CONFIDENTIAL



www.scientificdrilling.com

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Scientific Drilling

www.scientificdrilling.com



W Lybrook UT #711H
T23N R8W
Northing: 1905763.5
Easting: 536830.73
Wellbore #1



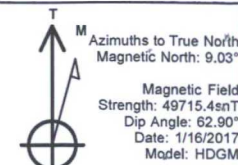
GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
GL @ 6823.00



WELL DETAILS W Lybrook UT #711H					
Ground Level: 6823.00		Easting: 536830.73		Latitude: 36.2376320	
Northing: 1905763.52		Easting: 536830.73		Longitude: -107.7084430	
+N/-S		+E/-W		Northing	
0.00		0.00		1905763.52	

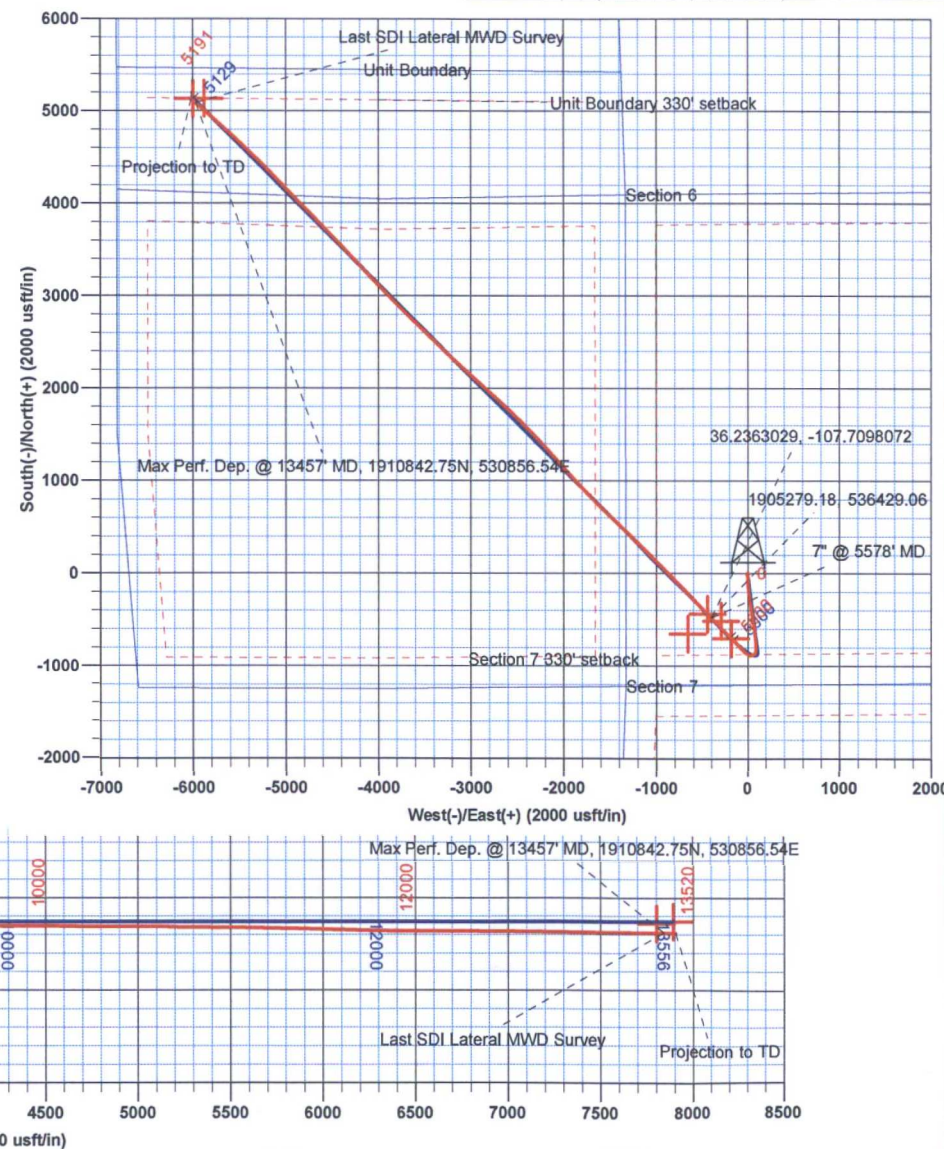
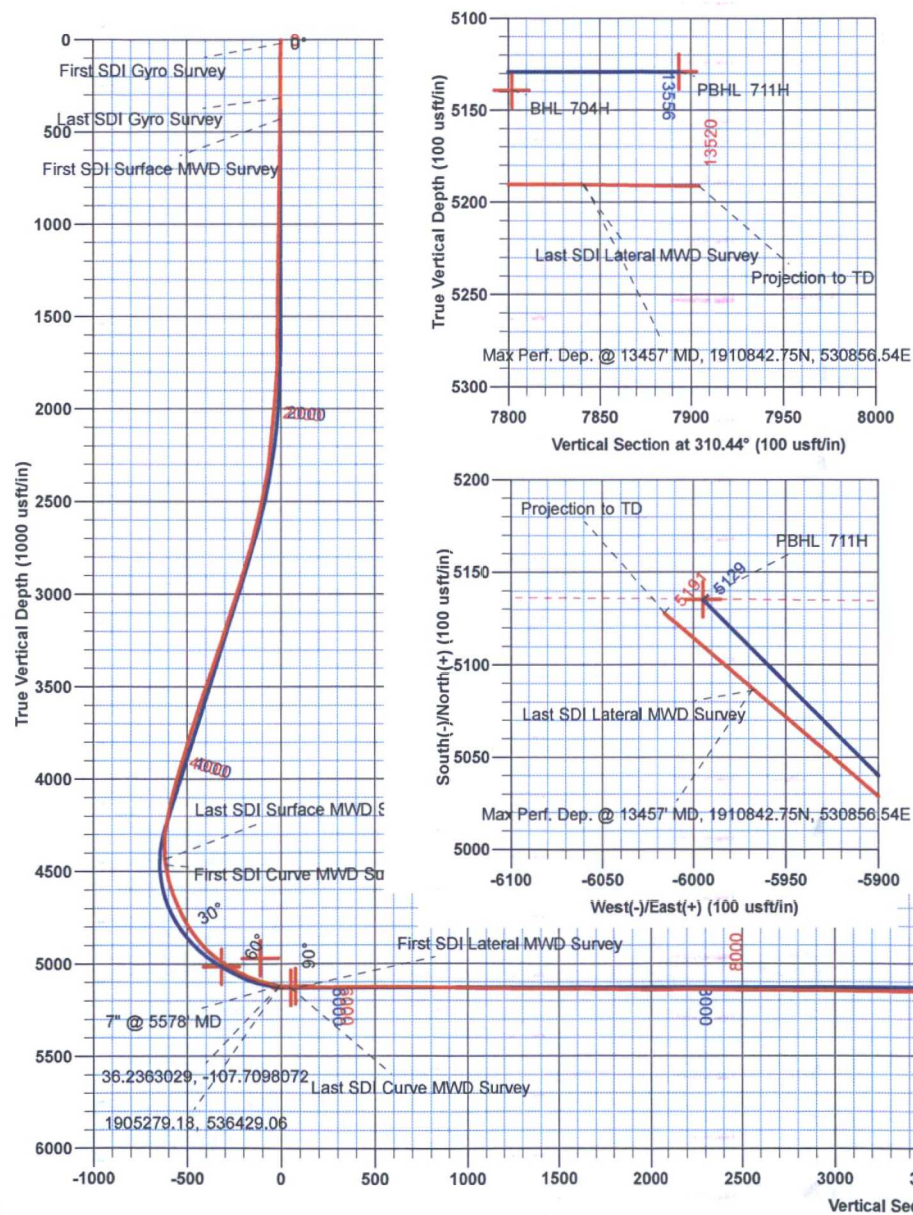
TVD	MD	Annotation
21.00	21.00	First SDI Gyro Survey
316.43	316.50	Last SDI Gyro Survey
431.87	432.00	First SDI Surface MWD Survey
4433.68	4586.00	Last SDI Surface MWD Survey
4465.78	4618.99	First SDI Curve MWD Survey
5119.15	5577.99	1905279.18, 536429.06
5119.15	5577.99	7" @ 5578' MD
5119.15	5577.99	36.2363029, -107.7098072
5125.35	5629.99	Last SDI Curve MWD Survey
5126.97	5686.99	First SDI Lateral MWD Survey
5190.59	13455.9	Last SDI Lateral MWD Survey
5190.60	13457.00	Max Perf. Dep. @ 13457' MD, 1910842.75N, 530856.54E
5191.22	13519.97	Projection to TD

To convert Magnetic North to Grid, Add 8.96°
To convert True North to Grid, Subtract 0.07°



LEGEND

- W Lybrook UT #711H, Wellbore #1, Plan #3 28Dec16
- Wellbore #1



WPX Energy

T23N R8W

2308-08N WLU

W Lybrook UT #711H - Slot 711H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

17 March, 2017



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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	2308-08N WLU		
Site Position:		Northing:	1,906,343.71 usft
From:	Map	Easting:	537,196.07 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.2392246
		Longitude:	-107.7072016
		Grid Convergence:	0.07 °

Well	W Lybrook UT #711H - Slot 711H		
Well Position	+N/-S	0.00 usft	Northing: 1,905,763.52 usft
	+E/-W	0.00 usft	Easting: 536,830.73 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.2376320
		Longitude:	-107.7084430
		Ground Level:	6,823.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	1/16/2017	9.03
			Dip Angle (°) 62.90
			Field Strength (nT) 49,715

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 310.44

Survey Program	Date	3/17/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
21.00	316.50	Survey #1 - Gyro Survey (Wellbore #1)	SDI Gyro MWD 104	SDI Gyro MWD Error Model Ver 1.0.4
432.00	4,586.99	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD	SDI MWD - Standard ver 1.0.1
4,618.99	5,629.99	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1
5,686.99	13,519.97	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD	SDI MWD - Standard ver 1.0.1

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	1,905,763.52	536,830.73	36.2376320	-107.7084430
21.00	0.00	0.00	21.00	0.00	0.00	1,905,763.52	536,830.73	36.2376320	-107.7084430
First SDI Gyro Survey									
39.47	0.38	207.68	39.47	-0.05	-0.03	1,905,763.47	536,830.70	36.2376318	-107.7084431
64.14	0.49	195.57	64.14	-0.23	-0.09	1,905,763.29	536,830.64	36.2376314	-107.7084434
90.06	0.52	201.11	90.06	-0.44	-0.17	1,905,763.08	536,830.57	36.2376308	-107.7084436
115.48	0.65	211.75	115.48	-0.68	-0.28	1,905,762.85	536,830.45	36.2376301	-107.7084440
139.71	1.07	200.48	139.70	-1.00	-0.44	1,905,762.52	536,830.30	36.2376292	-107.7084445
163.91	1.34	209.16	163.90	-1.46	-0.65	1,905,762.06	536,830.08	36.2376280	-107.7084453

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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	
190.01	1.34	218.35	189.99	-1.97	-0.99	1,905,761.55	536,829.74	36.2376266	-107.7084464	
215.53	1.48	215.53	215.50	-2.47	-1.37	1,905,761.05	536,829.37	36.2376252	-107.7084477	
240.87	1.62	210.14	240.83	-3.05	-1.74	1,905,760.47	536,829.00	36.2376236	-107.7084489	
266.35	1.63	210.35	266.30	-3.67	-2.10	1,905,759.85	536,828.64	36.2376219	-107.7084502	
288.86	1.72	209.97	288.80	-4.24	-2.43	1,905,759.28	536,828.31	36.2376203	-107.7084513	
315.27	1.59	207.67	315.20	-4.91	-2.80	1,905,758.61	536,827.94	36.2376185	-107.7084525	
316.50	1.66	208.10	316.43	-4.94	-2.82	1,905,758.58	536,827.92	36.2376184	-107.7084526	
Last SDI Gyro Survey										
432.00	2.03	212.85	431.87	-8.13	-4.71	1,905,755.38	536,826.03	36.2376096	-107.7084590	
First SDI Surface MWD Survey										
524.00	2.03	201.32	523.81	-11.02	-6.19	1,905,752.50	536,824.56	36.2376017	-107.7084640	
615.00	1.92	200.31	614.76	-13.95	-7.31	1,905,749.56	536,823.44	36.2375937	-107.7084678	
707.00	1.06	122.62	706.74	-15.86	-7.12	1,905,747.66	536,823.63	36.2375884	-107.7084672	
799.00	1.08	135.85	798.72	-16.94	-5.80	1,905,746.58	536,824.95	36.2375855	-107.7084627	
891.00	1.14	146.47	890.70	-18.32	-4.69	1,905,745.20	536,826.06	36.2375817	-107.7084590	
982.00	1.04	146.68	981.69	-19.77	-3.74	1,905,743.75	536,827.02	36.2375777	-107.7084557	
1,074.00	0.90	160.48	1,073.67	-21.14	-3.04	1,905,742.37	536,827.72	36.2375739	-107.7084533	
1,174.00	0.75	163.97	1,173.66	-22.51	-2.60	1,905,741.01	536,828.16	36.2375701	-107.7084518	
1,266.00	1.08	168.50	1,265.65	-23.94	-2.26	1,905,739.58	536,828.51	36.2375662	-107.7084507	
1,358.00	0.88	179.18	1,357.64	-25.50	-2.07	1,905,738.02	536,828.69	36.2375619	-107.7084501	
1,449.00	1.03	150.49	1,448.62	-26.91	-1.66	1,905,736.61	536,829.11	36.2375581	-107.7084487	
1,541.00	0.86	168.65	1,540.61	-28.30	-1.12	1,905,735.22	536,829.65	36.2375542	-107.7084468	
1,633.00	1.17	192.20	1,632.60	-29.90	-1.18	1,905,733.62	536,829.59	36.2375498	-107.7084470	
1,725.00	2.06	187.93	1,724.56	-32.46	-1.61	1,905,731.06	536,829.17	36.2375428	-107.7084485	
1,816.00	3.67	180.18	1,815.44	-36.99	-1.84	1,905,726.53	536,828.94	36.2375304	-107.7084493	
1,908.00	6.45	177.21	1,907.08	-45.10	-1.60	1,905,718.42	536,829.19	36.2375081	-107.7084485	
2,000.00	6.78	171.26	1,998.46	-55.62	-0.52	1,905,707.90	536,830.28	36.2374792	-107.7084448	
2,092.00	7.89	175.95	2,089.71	-67.29	0.75	1,905,696.23	536,831.57	36.2374471	-107.7084405	
2,184.00	8.62	178.37	2,180.76	-80.48	1.39	1,905,683.04	536,832.23	36.2374109	-107.7084383	
2,275.00	10.75	183.74	2,270.46	-95.77	1.03	1,905,667.75	536,831.89	36.2373689	-107.7084395	
2,367.00	13.17	175.03	2,360.46	-114.78	1.38	1,905,648.75	536,832.26	36.2373167	-107.7084384	
2,459.00	15.23	173.57	2,449.64	-137.23	3.64	1,905,626.30	536,834.55	36.2372550	-107.7084307	
2,549.99	16.91	174.47	2,537.08	-162.28	6.25	1,905,601.25	536,837.20	36.2371862	-107.7084218	
2,641.99	18.05	173.92	2,624.83	-189.77	9.05	1,905,573.76	536,840.03	36.2371107	-107.7084123	
2,735.99	19.77	172.99	2,713.76	-220.03	12.54	1,905,543.50	536,843.55	36.2370275	-107.7084005	
2,830.99	20.10	170.19	2,803.07	-252.07	17.28	1,905,511.48	536,848.34	36.2369395	-107.7083845	
2,925.99	21.44	170.76	2,891.89	-285.29	22.85	1,905,478.26	536,853.95	36.2368483	-107.7083656	
3,020.99	23.23	172.28	2,979.76	-321.00	28.15	1,905,442.56	536,859.30	36.2367502	-107.7083476	
3,114.99	22.60	169.97	3,066.34	-357.15	33.79	1,905,406.41	536,864.98	36.2366508	-107.7083285	
3,209.99	22.92	170.84	3,153.95	-393.39	39.91	1,905,370.18	536,871.15	36.2365513	-107.7083077	
3,304.99	22.94	171.58	3,241.44	-429.97	45.57	1,905,333.61	536,876.85	36.2364508	-107.7082885	
3,399.99	24.04	171.81	3,328.57	-467.44	51.04	1,905,296.15	536,882.37	36.2363479	-107.7082700	
3,493.99	23.58	170.77	3,414.57	-504.95	56.78	1,905,258.65	536,888.16	36.2362448	-107.7082505	
3,588.99	24.20	169.87	3,501.43	-542.87	63.25	1,905,220.73	536,894.68	36.2361406	-107.7082286	
3,683.99	22.79	168.75	3,588.55	-580.09	70.27	1,905,183.53	536,901.75	36.2360384	-107.7082048	
3,778.99	22.26	169.97	3,676.30	-615.85	76.99	1,905,147.77	536,908.52	36.2359402	-107.7081820	
3,873.99	22.17	174.28	3,764.25	-651.41	81.91	1,905,112.22	536,913.48	36.2358425	-107.7081653	
3,967.99	22.02	174.51	3,851.35	-686.59	85.36	1,905,077.04	536,916.98	36.2357458	-107.7081536	
4,062.99	23.71	175.68	3,938.88	-723.37	88.51	1,905,040.27	536,920.17	36.2356448	-107.7081429	
4,157.99	22.00	179.21	4,026.43	-760.21	90.19	1,905,003.43	536,921.90	36.2355436	-107.7081372	
4,251.99	20.06	182.31	4,114.16	-793.93	89.78	1,904,969.71	536,921.54	36.2354509	-107.7081386	
4,335.99	18.91	183.58	4,193.35	-821.91	88.35	1,904,941.73	536,920.15	36.2353741	-107.7081434	
4,365.99	18.84	183.23	4,221.74	-831.60	87.78	1,904,932.04	536,919.58	36.2353475	-107.7081454	
4,397.99	17.59	186.40	4,252.13	-841.56	86.95	1,904,922.07	536,918.76	36.2353201	-107.7081482	
4,428.99	15.55	193.39	4,281.85	-850.26	85.46	1,904,913.37	536,917.29	36.2352962	-107.7081533	

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
4,460.99	15.12	206.74	4,312.72	-858.16	82.59	1,904,905.47	536,914.43	36.2352745	-107.7081630
4,492.99	15.30	217.16	4,343.60	-865.26	78.16	1,904,898.37	536,910.01	36.2352550	-107.7081780
4,523.99	14.66	223.46	4,373.55	-871.36	72.99	1,904,892.25	536,904.85	36.2352382	-107.7081955
4,555.99	14.33	236.14	4,404.54	-876.51	66.92	1,904,887.10	536,898.78	36.2352241	-107.7082161
4,586.00	13.44	247.86	4,433.68	-879.90	60.60	1,904,883.71	536,892.47	36.2352148	-107.7082375
Last SDI Surface MWD Survey									
4,586.99	13.42	248.27	4,434.64	-879.98	60.39	1,904,883.62	536,892.25	36.2352145	-107.7082383
4,618.99	13.23	256.41	4,465.78	-882.22	53.38	1,904,881.38	536,885.25	36.2352084	-107.7082620
First SDI Curve MWD Survey									
4,650.99	14.47	260.97	4,496.85	-883.70	45.87	1,904,879.88	536,877.74	36.2352043	-107.7082875
4,681.99	15.12	265.59	4,526.83	-884.62	38.01	1,904,878.95	536,869.89	36.2352018	-107.7083141
4,713.99	16.44	276.35	4,557.63	-884.44	29.35	1,904,879.12	536,861.22	36.2352023	-107.7083435
4,744.99	18.75	289.93	4,587.19	-882.26	20.30	1,904,881.29	536,852.17	36.2352083	-107.7083742
4,776.99	21.35	295.71	4,617.25	-877.98	10.22	1,904,885.56	536,842.08	36.2352201	-107.7084084
4,808.99	22.98	297.40	4,646.88	-872.58	-0.58	1,904,890.95	536,831.28	36.2352349	-107.7084450
4,839.99	23.03	301.41	4,675.42	-866.63	-11.13	1,904,896.88	536,820.72	36.2352512	-107.7084808
4,871.99	23.50	308.45	4,704.82	-859.40	-21.47	1,904,904.10	536,810.37	36.2352711	-107.7085158
4,902.99	25.14	312.93	4,733.07	-851.07	-31.13	1,904,912.41	536,800.70	36.2352940	-107.7085486
4,934.99	28.08	313.96	4,761.68	-841.21	-41.53	1,904,922.26	536,790.28	36.2353211	-107.7085839
4,965.99	30.43	314.19	4,788.72	-830.67	-52.41	1,904,932.78	536,779.39	36.2353500	-107.7086208
4,997.99	33.18	314.71	4,815.92	-818.86	-64.45	1,904,944.58	536,767.34	36.2353825	-107.7086616
5,028.99	35.79	316.69	4,841.47	-806.29	-76.70	1,904,957.13	536,755.07	36.2354170	-107.7087031
5,060.99	39.02	318.35	4,866.88	-791.95	-89.82	1,904,971.45	536,741.94	36.2354564	-107.7087476
5,091.99	41.30	316.37	4,890.58	-777.26	-103.36	1,904,986.13	536,728.37	36.2354967	-107.7087935
5,123.99	43.79	315.16	4,914.15	-761.76	-118.46	1,905,001.61	536,713.26	36.2355393	-107.7088447
5,155.99	46.87	314.28	4,936.64	-745.75	-134.63	1,905,017.60	536,697.06	36.2355833	-107.7088995
5,186.99	49.96	313.61	4,957.22	-729.66	-151.32	1,905,033.66	536,680.35	36.2356275	-107.7089562
5,218.99	53.55	314.10	4,977.02	-712.25	-169.44	1,905,051.05	536,662.21	36.2356753	-107.7090176
5,250.99	56.81	313.66	4,995.29	-694.05	-188.38	1,905,069.23	536,643.25	36.2357253	-107.7090818
5,252.43	56.91	313.67	4,996.08	-693.21	-189.25	1,905,070.07	536,642.37	36.2357276	-107.7090848
Start 60° 711H									
5,281.99	58.95	313.94	5,011.77	-675.88	-207.32	1,905,087.38	536,624.28	36.2357753	-107.7091460
5,313.99	59.18	313.93	5,028.22	-656.83	-227.09	1,905,106.40	536,604.49	36.2358276	-107.7092131
5,345.99	61.29	314.10	5,044.11	-637.53	-247.07	1,905,125.67	536,584.49	36.2358806	-107.7092808
5,376.99	63.93	313.64	5,058.37	-618.46	-266.91	1,905,144.72	536,564.62	36.2359330	-107.7093481
5,408.99	67.09	313.84	5,071.63	-598.33	-287.94	1,905,164.83	536,543.56	36.2359883	-107.7094194
5,439.99	70.08	313.84	5,082.95	-578.34	-308.76	1,905,184.79	536,522.72	36.2360432	-107.7094900
5,471.99	72.55	313.75	5,093.20	-557.36	-330.64	1,905,205.74	536,500.81	36.2361008	-107.7095642
5,503.99	74.22	315.16	5,102.35	-535.89	-352.52	1,905,227.18	536,478.90	36.2361598	-107.7096384
5,534.99	76.06	316.91	5,110.30	-514.32	-373.32	1,905,248.72	536,458.07	36.2362191	-107.7097089
5,566.99	79.11	316.20	5,117.18	-491.63	-394.81	1,905,271.38	536,436.56	36.2362814	-107.7097818
5,577.99	80.27	316.27	5,119.15	-483.82	-402.29	1,905,279.19	536,429.06	36.2363029	-107.7098072
1905279.18, 536429.06 - 7" @ 5578' MD - 36.2363029, -107.7098072									
5,597.99	82.39	316.39	5,122.16	-469.52	-415.95	1,905,293.47	536,415.39	36.2363421	-107.7098535
5,629.99	86.17	316.65	5,125.35	-446.42	-437.85	1,905,316.54	536,393.46	36.2364056	-107.7099277
Last SDI Curve MWD Survey									
5,638.43	86.82	316.56	5,125.87	-440.30	-443.64	1,905,322.65	536,387.66	36.2364224	-107.7099474
POE 711H									
5,686.99	90.57	316.04	5,126.97	-405.21	-477.17	1,905,357.70	536,354.08	36.2365188	-107.7100611
First SDI Lateral MWD Survey									
5,780.99	90.44	315.43	5,126.14	-337.89	-542.78	1,905,424.93	536,288.39	36.2367037	-107.7102835
5,875.99	89.46	315.23	5,126.23	-270.33	-609.57	1,905,492.40	536,221.51	36.2368893	-107.7105100
5,970.99	90.50	316.09	5,126.26	-202.39	-675.96	1,905,560.26	536,155.03	36.2370760	-107.7107352
6,065.99	90.54	315.76	5,125.40	-134.14	-742.04	1,905,628.42	536,088.86	36.2372634	-107.7109592

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
6,160.99	89.56	316.48	5,125.32	-65.67	-807.89	1,905,696.81	536,022.93	36.2374516	-107.7111825
6,254.99	88.69	315.36	5,126.75	1.85	-873.27	1,905,764.24	535,957.46	36.2376370	-107.7114042
6,349.99	90.30	315.77	5,127.59	69.68	-939.78	1,905,831.99	535,890.87	36.2378234	-107.7116298
6,444.99	89.10	315.56	5,128.09	137.62	-1,006.17	1,905,899.85	535,824.39	36.2380100	-107.7118549
6,539.99	88.59	314.25	5,130.00	204.67	-1,073.44	1,905,966.81	535,757.03	36.2381942	-107.7120830
6,633.99	90.17	314.33	5,131.02	270.31	-1,140.72	1,906,032.36	535,689.67	36.2383745	-107.7123112
6,728.99	88.96	313.91	5,131.74	336.44	-1,208.91	1,906,098.40	535,621.39	36.2385562	-107.7125424
6,823.99	88.96	314.60	5,133.46	402.72	-1,276.94	1,906,164.60	535,553.27	36.2387382	-107.7127731
6,918.99	89.83	315.11	5,134.47	469.72	-1,344.28	1,906,231.51	535,485.84	36.2389223	-107.7130015
7,012.99	89.43	313.87	5,135.07	535.59	-1,411.34	1,906,297.30	535,418.71	36.2391032	-107.7132289
7,107.99	88.99	312.78	5,136.38	600.77	-1,480.44	1,906,362.38	535,349.52	36.2392823	-107.7134632
7,202.99	90.30	316.07	5,136.97	667.26	-1,548.27	1,906,428.78	535,281.60	36.2394649	-107.7136932
7,296.99	89.80	314.91	5,136.89	734.29	-1,614.17	1,906,495.73	535,215.62	36.2396491	-107.7139167
7,391.99	88.73	315.12	5,138.11	801.47	-1,681.32	1,906,562.83	535,148.38	36.2398336	-107.7141444
7,486.99	88.79	315.45	5,140.16	868.97	-1,748.14	1,906,630.24	535,081.47	36.2400190	-107.7143710
7,581.99	88.70	317.07	5,142.25	937.58	-1,813.81	1,906,698.77	535,015.72	36.2402075	-107.7145937
7,675.98	91.34	318.61	5,142.21	1,007.25	-1,876.89	1,906,768.36	534,952.54	36.2403989	-107.7148077
7,770.98	90.34	317.44	5,140.82	1,077.87	-1,940.42	1,906,838.89	534,888.92	36.2405929	-107.7150231
7,865.98	89.16	318.30	5,141.23	1,148.32	-2,004.15	1,906,909.26	534,825.11	36.2407864	-107.7152392
7,960.98	88.92	317.46	5,142.83	1,218.78	-2,067.85	1,906,979.63	534,761.31	36.2409799	-107.7154553
8,055.98	90.40	318.55	5,143.39	1,289.38	-2,131.41	1,907,050.15	534,697.66	36.2411739	-107.7156708
8,149.98	89.12	317.02	5,143.78	1,358.99	-2,194.56	1,907,119.69	534,634.42	36.2413651	-107.7158850
8,244.98	90.40	317.12	5,144.18	1,428.55	-2,259.27	1,907,189.16	534,569.63	36.2415562	-107.7161044
8,338.98	90.00	316.41	5,143.85	1,497.03	-2,323.66	1,907,257.56	534,505.15	36.2417443	-107.7163228
8,433.98	88.93	315.29	5,144.74	1,565.19	-2,389.82	1,907,325.63	534,438.90	36.2419315	-107.7165472
8,525.98	89.60	315.04	5,145.92	1,630.42	-2,454.68	1,907,390.78	534,373.95	36.2421107	-107.7167672
8,616.98	89.53	315.05	5,146.61	1,694.82	-2,518.98	1,907,455.10	534,309.57	36.2422876	-107.7169852
8,708.98	89.26	313.83	5,147.58	1,759.23	-2,584.66	1,907,519.42	534,243.81	36.2424645	-107.7172080
8,800.98	89.19	313.80	5,148.83	1,822.92	-2,651.04	1,907,583.02	534,177.35	36.2426395	-107.7174331
8,892.98	90.03	313.34	5,149.45	1,886.33	-2,717.69	1,907,646.35	534,110.61	36.2428137	-107.7176591
8,983.98	89.29	312.45	5,149.99	1,948.26	-2,784.36	1,907,708.20	534,043.87	36.2429838	-107.7178852
9,075.98	89.97	312.15	5,150.59	2,010.18	-2,852.40	1,907,770.02	533,975.74	36.2431539	-107.7181160
9,166.98	89.87	311.57	5,150.71	2,070.90	-2,920.17	1,907,830.66	533,907.89	36.2433207	-107.7183458
9,258.98	89.90	312.54	5,150.90	2,132.53	-2,988.48	1,907,892.20	533,839.50	36.2434899	-107.7185775
9,350.98	90.24	312.13	5,150.79	2,194.49	-3,056.49	1,907,954.07	533,771.42	36.2436601	-107.7188082
9,441.98	89.43	312.72	5,151.05	2,255.88	-3,123.66	1,908,015.37	533,704.17	36.2438287	-107.7190360
9,533.98	90.40	314.51	5,151.19	2,319.34	-3,190.27	1,908,078.75	533,637.48	36.2440031	-107.7192619
9,625.98	89.77	314.03	5,151.05	2,383.55	-3,256.14	1,908,142.88	533,571.52	36.2441795	-107.7194853
9,717.98	89.97	313.33	5,151.26	2,447.09	-3,322.68	1,908,206.33	533,504.90	36.2443540	-107.7197109
9,808.98	89.87	314.50	5,151.39	2,510.21	-3,388.23	1,908,269.36	533,439.27	36.2445273	-107.7199333
9,900.98	89.43	313.48	5,151.95	2,574.10	-3,454.42	1,908,333.17	533,373.00	36.2447029	-107.7201578
9,992.98	89.87	313.59	5,152.51	2,637.47	-3,521.11	1,908,396.45	533,306.23	36.2448769	-107.7203840
10,084.98	89.70	314.18	5,152.85	2,701.24	-3,587.42	1,908,460.14	533,239.84	36.2450521	-107.7206088
10,176.98	89.83	314.66	5,153.23	2,765.64	-3,653.13	1,908,524.45	533,174.05	36.2452290	-107.7208317
10,268.98	89.10	314.01	5,154.09	2,829.93	-3,718.93	1,908,588.65	533,108.16	36.2454056	-107.7210549
10,359.98	89.26	315.43	5,155.39	2,893.95	-3,783.58	1,908,652.59	533,043.43	36.2455814	-107.7212742
10,451.98	89.83	316.38	5,156.12	2,960.02	-3,847.59	1,908,718.58	532,979.33	36.2457629	-107.7214913
10,543.98	90.33	315.09	5,156.00	3,025.90	-3,911.81	1,908,784.38	532,915.03	36.2459439	-107.7217091
10,634.98	89.90	317.07	5,155.81	3,091.45	-3,974.92	1,908,849.84	532,851.83	36.2461239	-107.7219232
10,726.98	89.90	317.35	5,155.97	3,158.96	-4,037.42	1,908,917.28	532,789.24	36.2463093	-107.7221351
10,818.98	88.23	317.31	5,157.47	3,226.59	-4,099.77	1,908,984.83	532,726.81	36.2464951	-107.7223466
10,909.98	89.23	316.86	5,159.49	3,293.22	-4,161.71	1,909,051.38	532,664.78	36.2466781	-107.7225567
11,001.98	89.46	316.68	5,160.54	3,360.25	-4,224.72	1,909,118.32	532,601.68	36.2468622	-107.7227704
11,096.98	90.27	316.26	5,160.77	3,429.12	-4,290.15	1,909,187.11	532,536.17	36.2470514	-107.7229924
11,191.98	89.09	316.36	5,161.30	3,497.81	-4,355.77	1,909,255.72	532,470.46	36.2472401	-107.7232149

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
11,285.98	88.59	316.29	5,163.20	3,565.79	-4,420.67	1,909,323.61	532,405.47	36.2474268	-107.7234351
11,380.98	88.99	315.94	5,165.21	3,634.24	-4,486.51	1,909,391.98	532,339.54	36.2476148	-107.7236584
11,475.98	89.46	316.73	5,166.49	3,702.96	-4,552.09	1,909,460.61	532,273.87	36.2478036	-107.7238808
11,570.98	88.66	316.02	5,168.05	3,771.71	-4,617.63	1,909,529.28	532,208.25	36.2479924	-107.7241031
11,665.98	87.29	315.92	5,171.41	3,839.97	-4,683.61	1,909,597.45	532,142.17	36.2481799	-107.7243270
11,759.98	88.86	316.04	5,174.56	3,907.53	-4,748.90	1,909,664.93	532,076.80	36.2483655	-107.7245484
11,854.98	88.19	316.20	5,177.01	3,975.98	-4,814.72	1,909,733.29	532,010.89	36.2485535	-107.7247717
11,949.98	88.55	315.64	5,179.71	4,044.19	-4,880.78	1,909,801.42	531,944.74	36.2487408	-107.7249957
12,044.98	90.77	316.93	5,180.28	4,112.85	-4,946.43	1,909,870.00	531,879.01	36.2489294	-107.7252184
12,138.98	90.71	316.07	5,179.06	4,181.03	-5,011.13	1,909,938.09	531,814.22	36.2491167	-107.7254379
12,233.98	88.15	314.54	5,180.01	4,248.55	-5,077.93	1,910,005.53	531,747.33	36.2493021	-107.7256645
12,328.98	89.50	316.04	5,181.95	4,316.05	-5,144.75	1,910,072.94	531,680.42	36.2494875	-107.7258911
12,423.98	90.24	315.19	5,182.17	4,383.94	-5,211.20	1,910,140.74	531,613.89	36.2496740	-107.7261165
12,518.98	90.91	315.60	5,181.22	4,451.57	-5,277.91	1,910,208.29	531,547.09	36.2498598	-107.7263428
12,612.98	88.73	313.54	5,181.51	4,517.53	-5,344.86	1,910,274.16	531,480.05	36.2500409	-107.7265699
12,707.97	88.89	313.62	5,183.49	4,583.01	-5,413.67	1,910,339.55	531,411.16	36.2502208	-107.7268033
12,802.97	89.43	313.00	5,184.88	4,648.16	-5,482.79	1,910,404.62	531,341.96	36.2503997	-107.7270378
12,897.97	89.87	313.16	5,185.46	4,713.05	-5,552.17	1,910,469.41	531,272.49	36.2505779	-107.7272731
12,992.97	89.03	313.02	5,186.37	4,777.94	-5,621.54	1,910,534.22	531,203.04	36.2507562	-107.7275085
13,087.97	89.43	312.66	5,187.65	4,842.53	-5,691.20	1,910,598.72	531,133.30	36.2509336	-107.7277447
13,182.97	89.87	312.28	5,188.23	4,906.68	-5,761.27	1,910,662.77	531,063.14	36.2511098	-107.7279824
13,276.97	89.09	311.06	5,189.08	4,969.17	-5,831.48	1,910,725.17	530,992.85	36.2512814	-107.7282206
13,371.97	89.80	310.96	5,190.00	5,031.50	-5,903.16	1,910,787.41	530,921.09	36.2514526	-107.7284637
13,455.97	89.40	310.41	5,190.59	5,086.26	-5,966.86	1,910,842.09	530,857.32	36.2516030	-107.7286798
Last SDI Lateral MWD Survey									
13,457.00	89.40	310.41	5,190.60	5,086.93	-5,967.64	1,910,842.75	530,856.54	36.2516048	-107.7286825
Max Perf. Dep. @ 13457' MD, 1910842.75N, 530856.54E									
13,508.46	89.46	310.41	5,191.11	5,120.28	-6,006.82	1,910,876.06	530,817.32	36.2516964	-107.7288154
PBHL 711H									
13,519.97	89.47	310.41	5,191.22	5,127.75	-6,015.59	1,910,883.51	530,808.54	36.2517169	-107.7288451
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
21.00	21.00	0.00	0.00	First SDI Gyro Survey
316.50	316.43	-4.94	-2.82	Last SDI Gyro Survey
432.00	431.87	-8.13	-4.71	First SDI Surface MWD Survey
4,586.00	4,433.68	-879.90	60.60	Last SDI Surface MWD Survey
4,618.99	4,465.78	-882.22	53.38	First SDI Curve MWD Survey
5,577.99	5,119.15	-483.82	-402.29	1905279.18, 536429.06
5,577.99	5,119.15	-483.82	-402.29	7" @ 5578' MD
5,577.99	5,119.15	-483.82	-402.29	36.2363029, -107.7098072
5,629.99	5,125.35	-446.42	-437.85	Last SDI Curve MWD Survey
5,686.99	5,126.97	-405.21	-477.17	First SDI Lateral MWD Survey
13,455.97	5,190.59	5,086.26	-5,966.86	Last SDI Lateral MWD Survey
13,457.00	5,190.60	5,086.93	-5,967.64	Max Perf. Dep. @ 13457' MD, 1910842.75N, 530856.54E
13,519.97	5,191.22	5,127.75	-6,015.59	Projection to TD

Scientifiic Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Checked By: _____ Approved By: _____ Date: _____

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 30-045-35809		*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT		*Well Number 711H
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6823'

OIL CONS. DIV DIST. 3

MAR 09 2017

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
N	8	23N	8W		1205	SOUTH	1327	WEST	SAN JUAN

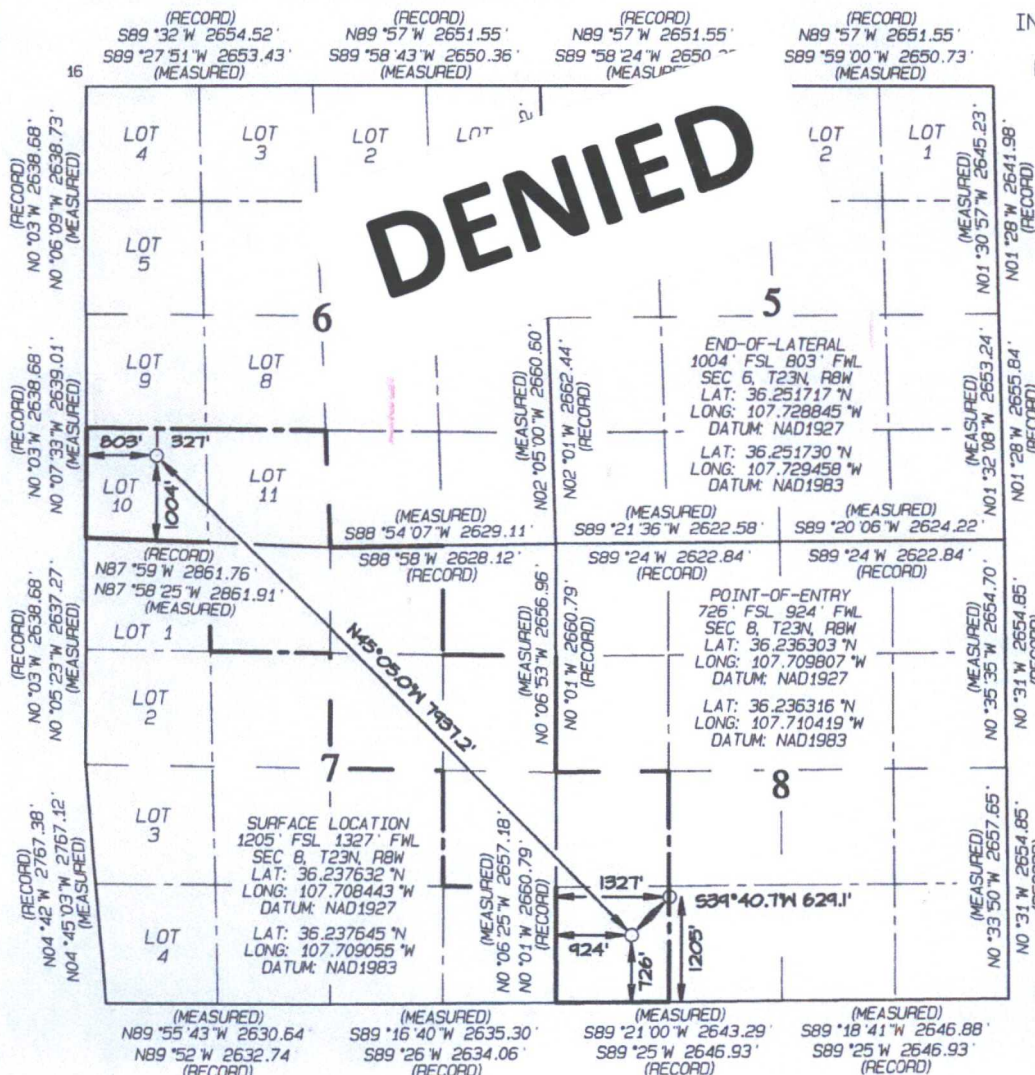
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	6	23N	8W	10	1004	SOUTH	803	WEST	SAN JUAN

¹² Dedicated Acres 367.16 S/2 SW/4 - Section 6 NE/4 NW/4, NW/4 NE/4 S/2 NE/4, NE/4 SE/4 - Section 7 W/2 SW/4 - Section 8	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

DENIED



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.

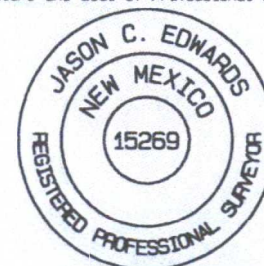
Signature: *[Signature]* Date: 3/3/17
Printed Name: Lacey Granillo
lacey.granillo@wpxenergy.com
E-mail Address:

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: FEBRUARY 1, 2017
Survey Date: OCTOBER 24, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



WPX Energy

T23N R8W

2308-08N WLU

W Lybrook UT #711H - Slot 711H

Wellbore #1

OIL CONS. DIV DIST. 3

MAR 09 2017

Design: Wellbore #1

Standard Survey Report

31 January, 2017

CONFIDENTIAL



www.scientificdrilling.com

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- 1. Directional Plot and Surveys**
- 2. Daily Drilling Reports**
- 3. BHA Summary Reports and Slide Sheets**
- 4. Graphical Job History**
- 5. Support Staff**





Company Name: WPX Energy
Project: T23N R8W
Site: 2308-08N WLU
Well: W Lybrook UT #711H



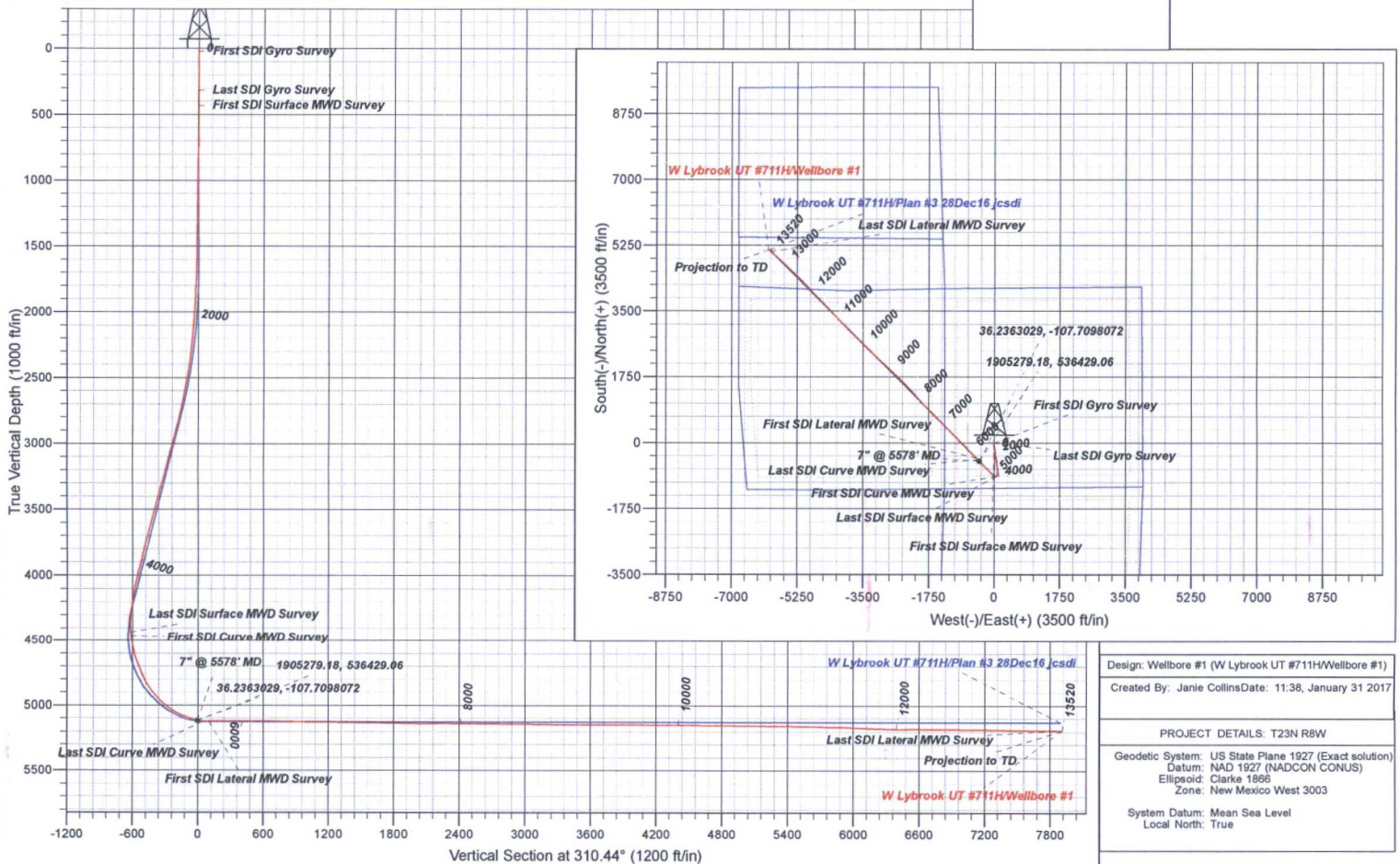
Azimuths to True North
Magnetic North: 9.03°
Magnetic Field
Strength: 49715.4nT
Dip Angle: 62.90°
Date: 1/16/2017
Model: HDGM

WELL DETAILS: W Lybrook UT #711H

+N/-S	+E/-W	GL 6823' & RKB 21' @ 6844.01ft (Cyclone 32)	6823.01
0.00	0.00	Northing	Easting
		1905763.52	536830.73
		Latitude	Longitude
		36.2376320	-107.7084430
			711H

ANNOTATIONS

7" @ 5578' MD
36.2363029, -107.7098072
1905279.18, 536429.06



CONFIDENTIAL



Survey Report



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.01ft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.01ft (Cyclone 32)
Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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	2308-08N WLU		
Site Position:		Northing:	1,906,343.71 usft
From:	Map	Easting:	537,196.07 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	36.2392246
		Longitude:	-107.7072016
		Grid Convergence:	0.07 °

Well	W Lybrook UT #711H - Slot 711H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	36.2376320
		Longitude:	-107.7084430
		Ground Level:	6,823.01 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	HDGM	1/16/2017	9.03
			Dip Angle
			62.90
			Field Strength
			49,715

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			310.44

Survey Program	Date 1/31/2017		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		Description
21.00	316.50	Survey #1 - Gyro Survey (Wellbore #1)	SDI Gyro MWD 104
432.00	4,587.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD
4,619.00	5,630.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD
5,687.00	13,520.00	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate	
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21.00	0.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	
First SDI Gyro Survey										
39.47	0.38	207.68	39.47	-0.05	-0.03	-0.01	2.06	2.06	0.00	
64.14	0.49	195.57	64.14	-0.23	-0.09	-0.08	0.58	0.45	-49.09	
90.06	0.52	201.11	90.06	-0.44	-0.17	-0.16	0.22	0.12	21.37	
115.48	0.65	211.75	115.48	-0.68	-0.28	-0.22	0.66	0.51	41.86	
139.71	1.07	200.48	139.70	-1.00	-0.44	-0.32	1.86	1.73	-46.51	

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
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Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
163.91	1.34	209.16	163.90	-1.46	-0.65	-0.45	1.34	1.12	35.87
190.01	1.34	218.35	189.99	-1.97	-0.99	-0.52	0.82	0.00	35.21
215.53	1.48	215.53	215.50	-2.47	-1.37	-0.56	0.61	0.55	-11.05
240.87	1.62	210.14	240.84	-3.05	-1.74	-0.65	0.80	0.55	-21.27
266.35	1.63	210.35	266.30	-3.67	-2.10	-0.78	0.05	0.04	0.82
288.86	1.72	209.97	288.81	-4.24	-2.43	-0.90	0.40	0.40	-1.69
315.27	1.59	207.67	315.20	-4.91	-2.80	-1.05	0.55	-0.49	-8.71
316.50	1.66	208.10	316.43	-4.94	-2.82	-1.06	5.78	5.69	34.96
Last SDI Gyro Survey									
432.00	2.03	212.85	431.87	-8.13	-4.71	-1.69	0.35	0.32	4.11
First SDI Surface MWD Survey									
524.00	2.03	201.32	523.82	-11.02	-6.19	-2.44	0.44	0.00	-12.53
615.00	1.92	200.31	614.76	-13.95	-7.31	-3.49	0.13	-0.12	-1.11
707.00	1.06	122.62	706.74	-15.86	-7.12	-4.86	2.16	-0.93	-84.45
799.00	1.08	135.85	798.72	-16.94	-5.80	-6.57	0.27	0.02	14.38
891.00	1.14	146.47	890.70	-18.32	-4.69	-8.31	0.23	0.07	11.54
982.00	1.04	146.68	981.69	-19.77	-3.74	-9.98	0.11	-0.11	0.23
1,074.00	0.90	160.48	1,073.67	-21.14	-3.04	-11.40	0.29	-0.15	15.00
1,174.00	0.75	163.97	1,173.66	-22.51	-2.60	-12.63	0.16	-0.15	3.49
1,266.00	1.08	168.50	1,265.65	-23.94	-2.26	-13.81	0.37	0.36	4.92
1,358.00	0.88	179.18	1,357.64	-25.50	-2.07	-14.96	0.29	-0.22	11.61
1,449.00	1.03	150.49	1,448.63	-26.91	-1.66	-16.19	0.54	0.16	-31.53
1,541.00	0.86	168.65	1,540.61	-28.30	-1.12	-17.51	0.37	-0.18	19.74
1,633.00	1.17	192.20	1,632.60	-29.90	-1.18	-18.50	0.56	0.34	25.60
1,725.00	2.06	187.93	1,724.56	-32.46	-1.61	-19.83	0.98	0.97	-4.64
1,816.00	3.67	180.18	1,815.45	-36.99	-1.84	-22.59	1.82	1.77	-8.52
1,908.00	6.45	177.21	1,907.08	-45.10	-1.60	-28.04	3.03	3.02	-3.23
2,000.00	6.78	171.26	1,998.47	-55.62	-0.52	-35.69	0.83	0.36	-6.47
2,092.00	7.89	175.95	2,089.71	-67.29	0.75	-44.22	1.37	1.21	5.10
2,184.00	8.62	178.37	2,180.76	-80.48	1.39	-53.27	0.88	0.79	2.63
2,275.00	10.75	183.74	2,270.46	-95.77	1.03	-62.91	2.54	2.34	5.90
2,367.00	13.17	175.03	2,360.46	-114.78	1.38	-75.51	3.27	2.63	-9.47
2,459.00	15.23	173.57	2,449.65	-137.23	3.64	-91.79	2.27	2.24	-1.59
2,550.00	16.91	174.47	2,537.09	-162.28	6.25	-110.03	1.87	1.85	0.99
2,642.00	18.05	173.92	2,624.84	-189.77	9.05	-130.00	1.25	1.24	-0.60
2,736.00	19.77	172.99	2,713.76	-220.03	12.54	-152.28	1.86	1.83	-0.99
2,831.00	20.10	170.19	2,803.07	-252.07	17.28	-176.67	1.06	0.35	-2.95
2,926.00	21.44	170.76	2,891.90	-285.29	22.85	-202.46	1.43	1.41	0.60
3,021.00	23.23	172.28	2,979.77	-321.00	28.15	-229.66	1.98	1.88	1.60
3,115.00	22.60	169.97	3,066.35	-357.15	33.79	-257.40	1.17	-0.67	-2.46
3,210.00	22.92	170.84	3,153.95	-393.39	39.91	-285.57	0.49	0.34	0.92
3,305.00	22.94	171.58	3,241.45	-429.97	45.57	-313.61	0.30	0.02	0.78
3,400.00	24.04	171.81	3,328.57	-467.44	51.04	-342.07	1.16	1.16	0.24
3,494.00	23.58	170.77	3,414.57	-504.95	56.78	-370.78	0.66	-0.49	-1.11

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
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Design:	Wellbore #1	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,589.00	24.20	169.87	3,501.43	-542.87	63.25	-400.30	0.76	0.65	-0.95
3,684.00	22.79	168.75	3,588.56	-580.09	70.27	-429.78	1.56	-1.48	-1.18
3,779.00	22.26	169.97	3,676.31	-615.85	76.99	-458.10	0.74	-0.56	1.28
3,874.00	22.17	174.28	3,764.26	-651.41	81.91	-484.91	1.72	-0.09	4.54
3,968.00	22.02	174.51	3,851.36	-686.60	85.36	-510.37	0.18	-0.16	0.24
4,063.00	23.71	175.68	3,938.89	-723.37	88.51	-536.62	1.84	1.78	1.23
4,158.00	22.00	179.21	4,026.43	-760.21	90.19	-561.80	2.31	-1.80	3.72
4,252.00	20.06	182.31	4,114.17	-793.93	89.78	-583.36	2.38	-2.06	3.30
4,336.00	18.91	183.58	4,193.36	-821.91	88.35	-600.42	1.46	-1.37	1.51
4,366.00	18.84	183.23	4,221.75	-831.60	87.78	-606.27	0.44	-0.23	-1.17
4,398.00	17.59	186.40	4,252.14	-841.56	86.95	-612.10	4.98	-3.91	9.91
4,429.00	15.55	193.39	4,281.86	-850.26	85.46	-616.62	9.19	-6.58	22.55
4,461.00	15.12	206.74	4,312.73	-858.17	82.59	-619.56	11.09	-1.34	41.72
4,493.00	15.30	217.16	4,343.61	-865.26	78.16	-620.79	8.55	0.56	32.56
4,524.00	14.66	223.46	4,373.56	-871.37	72.99	-620.82	5.64	-2.06	20.32
4,556.00	14.33	236.14	4,404.55	-876.51	66.92	-619.53	9.95	-1.03	39.63
4,586.01	13.44	247.86	4,433.69	-879.90	60.60	-616.92	9.81	-2.97	39.05
Last SDI Surface MWD Survey									
4,587.00	13.42	248.27	4,434.65	-879.98	60.39	-616.81	9.81	-1.98	41.38
4,619.00	13.23	256.41	4,465.79	-882.22	53.38	-612.93	5.89	-0.59	25.44
First SDI Curve MWD Survey									
4,651.00	14.47	260.97	4,496.86	-883.71	45.87	-608.18	5.16	3.88	14.25
4,682.00	15.12	265.59	4,526.84	-884.63	38.01	-602.80	4.34	2.10	14.90
4,714.00	16.44	276.35	4,557.64	-884.45	29.35	-596.09	10.01	4.13	33.63
4,745.00	18.75	289.93	4,587.20	-882.26	20.30	-587.78	15.15	7.45	43.81
4,777.00	21.35	295.71	4,617.26	-877.98	10.22	-577.33	10.21	8.13	18.06
4,809.00	22.98	297.40	4,646.89	-872.58	-0.58	-565.61	5.47	5.09	5.28
4,840.00	23.03	301.41	4,675.43	-866.63	-11.13	-553.73	5.06	0.16	12.94
4,872.00	23.50	308.45	4,704.83	-859.40	-21.47	-541.17	8.81	1.47	22.00
4,903.00	25.14	312.93	4,733.08	-851.07	-31.13	-528.41	7.96	5.29	14.45
4,935.00	28.08	313.96	4,761.69	-841.21	-41.53	-514.10	9.30	9.19	3.22
4,966.00	30.43	314.19	4,788.73	-830.67	-52.41	-498.98	7.59	7.58	0.74
4,998.00	33.18	314.71	4,815.93	-818.86	-64.45	-482.16	8.64	8.59	1.63
5,029.00	35.79	316.69	4,841.48	-806.30	-76.70	-464.68	9.16	8.42	6.39
5,061.00	39.02	318.35	4,866.89	-791.96	-89.82	-445.40	10.57	10.09	5.19
5,092.00	41.30	316.37	4,890.59	-777.26	-103.36	-425.55	8.43	7.35	-6.39
5,124.00	43.79	315.16	4,914.16	-761.76	-118.46	-404.01	8.19	7.78	-3.78
5,156.00	46.87	314.28	4,936.65	-745.75	-134.63	-381.32	9.82	9.63	-2.75
5,187.00	49.96	313.61	4,957.23	-729.67	-151.33	-358.18	10.10	9.97	-2.16
5,219.00	53.55	314.10	4,977.03	-712.25	-169.44	-333.10	11.28	11.22	1.53
5,251.00	56.81	313.66	4,995.30	-694.05	-188.38	-306.88	10.25	10.19	-1.38
5,282.00	58.95	313.94	5,011.78	-675.88	-207.33	-280.67	6.95	6.90	0.90
5,314.00	59.18	313.93	5,028.23	-656.83	-227.09	-253.27	0.72	0.72	-0.03

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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,346.00	61.29	314.10	5,044.12	-637.53	-247.07	-225.55	6.61	6.59	0.53
5,377.00	63.93	313.64	5,058.38	-618.46	-266.91	-198.08	8.62	8.52	-1.48
5,409.00	67.09	313.84	5,071.64	-598.33	-287.95	-169.01	9.89	9.88	0.63
5,440.00	70.08	313.84	5,082.96	-578.34	-308.76	-140.20	9.65	9.65	0.00
5,472.00	72.55	313.75	5,093.21	-557.36	-330.64	-109.94	7.72	7.72	-0.28
5,504.00	74.22	315.16	5,102.36	-535.89	-352.52	-79.35	6.71	5.22	4.41
5,535.00	76.06	316.91	5,110.31	-514.32	-373.32	-49.54	8.06	5.94	5.65
5,567.00	79.11	316.20	5,117.19	-491.64	-394.81	-18.47	9.77	9.53	-2.22
5,578.00	80.27	316.27	5,119.16	-483.82	-402.30	-7.70	10.60	10.58	0.62
7" @ 5578' MD - 36.2363029, -107.7098072 - 1905279.18, 536429.06									
5,598.00	82.39	316.39	5,122.17	-469.52	-415.95	11.97	10.60	10.58	0.61
5,630.00	86.17	316.65	5,125.36	-446.42	-437.85	43.62	11.84	11.81	0.81
Last SDI Curve MWD Survey									
5,687.00	90.57	316.04	5,126.98	-405.21	-477.18	100.28	7.79	7.72	-1.07
First SDI Lateral MWD Survey									
5,781.00	90.44	315.43	5,126.15	-337.89	-542.78	193.88	0.66	-0.14	-0.65
5,876.00	89.46	315.23	5,126.24	-270.33	-609.57	288.53	1.05	-1.03	-0.21
5,971.00	90.50	316.09	5,126.27	-202.39	-675.96	383.14	1.42	1.09	0.91
6,066.00	90.54	315.76	5,125.41	-134.14	-742.04	477.70	0.35	0.04	-0.35
6,161.00	89.56	316.48	5,125.33	-65.67	-807.89	572.23	1.28	-1.03	0.76
6,255.00	88.69	315.36	5,126.76	1.85	-873.27	665.79	1.51	-0.93	-1.19
6,350.00	90.30	315.77	5,127.60	69.68	-939.78	760.40	1.75	1.69	0.43
6,445.00	89.10	315.56	5,128.10	137.62	-1,006.17	855.01	1.28	-1.26	-0.22
6,540.00	88.59	314.25	5,130.01	204.67	-1,073.44	949.70	1.48	-0.54	-1.38
6,634.00	90.17	314.33	5,131.03	270.31	-1,140.72	1,043.48	1.68	1.68	0.09
6,729.00	88.96	313.91	5,131.75	336.44	-1,208.91	1,138.28	1.35	-1.27	-0.44
6,824.00	88.96	314.60	5,133.47	402.72	-1,276.95	1,233.05	0.73	0.00	0.73
6,919.00	89.83	315.11	5,134.48	469.72	-1,344.29	1,327.76	1.06	0.92	0.54
7,013.00	89.43	313.87	5,135.08	535.60	-1,411.34	1,421.52	1.39	-0.43	-1.32
7,108.00	88.99	312.78	5,136.39	600.77	-1,480.44	1,516.39	1.24	-0.46	-1.15
7,203.00	90.30	316.07	5,136.98	667.26	-1,548.28	1,611.15	3.73	1.38	3.46
7,297.00	89.80	314.91	5,136.90	734.29	-1,614.17	1,704.78	1.34	-0.53	-1.23
7,392.00	88.73	315.12	5,138.12	801.48	-1,681.32	1,799.47	1.15	-1.13	0.22
7,487.00	88.79	315.45	5,140.18	868.97	-1,748.15	1,894.11	0.35	0.06	0.35
7,582.00	88.70	317.07	5,142.26	937.59	-1,813.81	1,988.59	1.71	-0.09	1.71
7,676.00	91.34	318.61	5,142.22	1,007.26	-1,876.90	2,081.80	3.25	2.81	1.64
7,771.00	90.34	317.44	5,140.83	1,077.87	-1,940.42	2,175.96	1.62	-1.05	-1.23
7,866.00	89.16	318.30	5,141.24	1,148.33	-2,004.15	2,270.16	1.54	-1.24	0.91
7,961.00	88.92	317.46	5,142.84	1,218.78	-2,067.86	2,364.35	0.92	-0.25	-0.88
8,056.00	90.40	318.55	5,143.40	1,289.38	-2,131.41	2,458.51	1.93	1.56	1.15
8,150.00	89.12	317.02	5,143.79	1,359.00	-2,194.57	2,551.74	2.12	-1.36	-1.63
8,245.00	90.40	317.12	5,144.19	1,428.55	-2,259.27	2,646.10	1.35	1.35	0.11
8,339.00	90.00	316.41	5,143.86	1,497.03	-2,323.66	2,739.53	0.87	-0.43	-0.76
8,434.00	88.93	315.29	5,144.75	1,565.19	-2,389.83	2,834.10	1.63	-1.13	-1.18



Survey Report



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.01ft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.01ft (Cyclone 32)
Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,526.00	89.60	315.04	5,145.93	1,630.43	-2,454.69	2,925.78	0.78	0.73	-0.27
8,617.00	89.53	315.05	5,146.62	1,694.82	-2,518.98	3,016.48	0.08	-0.08	0.01
8,709.00	89.26	313.83	5,147.59	1,759.23	-2,584.66	3,108.25	1.36	-0.29	-1.33
8,801.00	89.19	313.80	5,148.84	1,822.92	-2,651.04	3,200.08	0.08	-0.08	-0.03
8,893.00	90.03	313.34	5,149.46	1,886.33	-2,717.70	3,291.94	1.04	0.91	-0.50
8,984.00	89.29	312.45	5,150.00	1,948.27	-2,784.36	3,382.86	1.27	-0.81	-0.98
9,076.00	89.97	312.15	5,150.60	2,010.18	-2,852.41	3,474.81	0.81	0.74	-0.33
9,167.00	89.87	311.57	5,150.73	2,070.91	-2,920.18	3,565.78	0.65	-0.11	-0.64
9,259.00	89.90	312.54	5,150.91	2,132.53	-2,988.49	3,657.74	1.05	0.03	1.05
9,351.00	90.24	312.13	5,150.80	2,194.49	-3,056.50	3,749.69	0.58	0.37	-0.45
9,442.00	89.43	312.72	5,151.06	2,255.88	-3,123.67	3,840.63	1.10	-0.89	0.65
9,534.00	90.40	314.51	5,151.20	2,319.34	-3,190.27	3,932.49	2.21	1.05	1.95
9,626.00	89.77	314.03	5,151.06	2,383.56	-3,256.15	4,024.28	0.86	-0.68	-0.52
9,718.00	89.97	313.33	5,151.27	2,447.10	-3,322.68	4,116.14	0.79	0.22	-0.76
9,809.00	89.87	314.50	5,151.40	2,510.21	-3,388.24	4,206.97	1.29	-0.11	1.29
9,901.00	89.43	313.48	5,151.96	2,574.11	-3,454.42	4,298.79	1.21	-0.48	-1.11
9,993.00	89.87	313.59	5,152.52	2,637.48	-3,521.12	4,390.65	0.49	0.48	0.12
10,085.00	89.70	314.18	5,152.86	2,701.25	-3,587.42	4,482.49	0.67	-0.18	0.64
10,177.00	89.83	314.66	5,153.24	2,765.64	-3,653.13	4,574.26	0.54	0.14	0.52
10,269.00	89.10	314.01	5,154.10	2,829.93	-3,718.93	4,666.05	1.06	-0.79	-0.71
10,360.00	89.26	315.43	5,155.40	2,893.96	-3,783.59	4,756.78	1.57	0.18	1.56
10,452.00	89.83	316.38	5,156.13	2,960.03	-3,847.60	4,848.36	1.20	0.62	1.03
10,544.00	90.33	315.09	5,156.01	3,025.91	-3,911.81	4,939.96	1.50	0.54	-1.40
10,635.00	89.90	317.07	5,155.82	3,091.45	-3,974.93	5,030.52	2.23	-0.47	2.18
10,727.00	89.90	317.35	5,155.98	3,158.97	-4,037.43	5,121.88	0.30	0.00	0.30
10,819.00	88.23	317.31	5,157.48	3,226.60	-4,099.77	5,213.20	1.82	-1.82	-0.04
10,910.00	89.23	316.86	5,159.50	3,293.23	-4,161.72	5,303.57	1.20	1.10	-0.49
11,002.00	89.46	316.68	5,160.55	3,360.25	-4,224.73	5,395.00	0.32	0.25	-0.20
11,097.00	90.27	316.26	5,160.78	3,429.13	-4,290.16	5,489.47	0.96	0.85	-0.44
11,192.00	89.09	316.36	5,161.31	3,497.82	-4,355.78	5,583.97	1.25	-1.24	0.11
11,286.00	88.59	316.29	5,163.21	3,565.79	-4,420.68	5,677.46	0.54	-0.53	-0.07
11,381.00	88.99	315.94	5,165.22	3,634.25	-4,486.52	5,771.97	0.56	0.42	-0.37
11,476.00	89.46	316.73	5,166.50	3,702.96	-4,552.10	5,866.46	0.97	0.49	0.83
11,571.00	88.66	316.02	5,168.06	3,771.72	-4,617.64	5,960.94	1.13	-0.84	-0.75
11,666.00	87.29	315.92	5,171.42	3,839.98	-4,683.62	6,055.44	1.45	-1.44	-0.11
11,760.00	88.86	316.04	5,174.57	3,907.53	-4,748.91	6,148.94	1.68	1.67	0.13
11,855.00	88.19	316.20	5,177.02	3,975.99	-4,814.73	6,243.45	0.73	-0.71	0.17
11,950.00	88.55	315.64	5,179.72	4,044.20	-4,880.79	6,337.97	0.70	0.38	-0.59
12,045.00	90.77	316.93	5,180.29	4,112.86	-4,946.44	6,432.47	2.70	2.34	1.36
12,139.00	90.71	316.07	5,179.07	4,181.04	-5,011.14	6,525.94	0.92	-0.06	-0.91
12,234.00	88.15	314.54	5,180.02	4,248.56	-5,077.94	6,620.58	3.14	-2.69	-1.61
12,329.00	89.50	316.04	5,181.96	4,316.06	-5,144.76	6,715.22	2.12	1.42	1.58
12,424.00	90.24	315.19	5,182.18	4,383.95	-5,211.21	6,809.83	1.19	0.78	-0.89
12,519.00	90.91	315.60	5,181.23	4,451.58	-5,277.92	6,904.47	0.83	0.71	0.43



Survey Report



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #711H - Slot 711H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.01ft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.01ft (Cyclone 32)
Well:	W Lybrook UT #711H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,613.00	88.73	313.54	5,181.52	4,517.54	-5,344.87	6,998.21	3.19	-2.32	-2.19
12,708.00	88.89	313.62	5,183.50	4,583.02	-5,413.68	7,093.05	0.19	0.17	0.08
12,803.00	89.43	313.00	5,184.89	4,648.17	-5,482.80	7,187.92	0.87	0.57	-0.65
12,898.00	89.87	313.16	5,185.47	4,713.06	-5,552.18	7,282.82	0.49	0.46	0.17
12,993.00	89.03	313.02	5,186.38	4,777.95	-5,621.56	7,377.71	0.90	-0.88	-0.15
13,088.00	89.43	312.66	5,187.66	4,842.54	-5,691.21	7,472.62	0.57	0.42	-0.38
13,183.00	89.87	312.28	5,188.24	4,906.69	-5,761.28	7,567.56	0.61	0.46	-0.40
13,277.00	89.09	311.06	5,189.09	4,969.18	-5,831.49	7,661.53	1.54	-0.83	-1.30
13,372.00	89.80	310.96	5,190.01	5,031.51	-5,903.18	7,756.52	0.75	0.75	-0.11
13,456.00	89.40	310.41	5,190.60	5,086.27	-5,966.87	7,840.52	0.81	-0.48	-0.65
Last SDI Lateral MWD Survey									
13,520.00	89.47	310.41	5,191.23	5,127.76	-6,015.60	7,904.51	0.11	0.11	0.00
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
21.00	21.00	0.00	0.00	First SDI Gyro Survey
316.50	316.43	-4.94	-2.82	Last SDI Gyro Survey
432.00	431.87	-8.13	-4.71	First SDI Surface MWD Survey
4,586.01	4,433.69	-879.90	60.60	Last SDI Surface MWD Survey
4,619.00	4,465.79	-882.22	53.38	First SDI Curve MWD Survey
5,578.00	5,119.16	-483.82	-402.30	7" @ 5578' MD
5,578.00	5,119.16	-483.82	-402.30	36.2363029, -107.7098072
5,578.00	5,119.16	-483.82	-402.30	1905279.18, 536429.06
5,630.00	5,125.36	-446.42	-437.85	Last SDI Curve MWD Survey
5,687.00	5,126.98	-405.21	-477.18	First SDI Lateral MWD Survey
13,456.00	5,190.60	5,086.27	-5,966.87	Last SDI Lateral MWD Survey
13,520.00	5,191.23	5,127.76	-6,015.60	Projection to TD

Checked By: _____ Approved By: _____ Date: _____