

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) 748-1263 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, DIST. 3
Santa Fe, NM 87505 OIL CONS. DIV. EXTENDED REPORT

AS DRILLED
MAR 20 2017

CONFIDENTIAL

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35730		*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT		*Well Number 744H
*GRID 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
M	8	23N	8W		1202	SOUTH	1307	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
H	17	23N	8W		2289	NORTH	335	EAST	SAN JUAN

¹² Dedicated Acres 200.0	SE/4 SW/4 (Section 8) NE/4 NW/4, NW/4 NE/4 E/2 NE/4 (Section 17)	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

SURFACE LOCATION
1202' FSL 1307' FWL
SECTION 8, T23N, R8W
LAT: 36.237622°N
LONG: 107.708510°W
DATUM: NAD1927

LAT: 36.237635°N
LONG: 107.709122°W
DATUM: NAD1983

POINT-OF-ENTRY
1256' FSL 1373' FWL
SECTION 8, T23N, R8W
LAT: 36.237771°N
LONG: 107.708286°W
DATUM: NAD1927

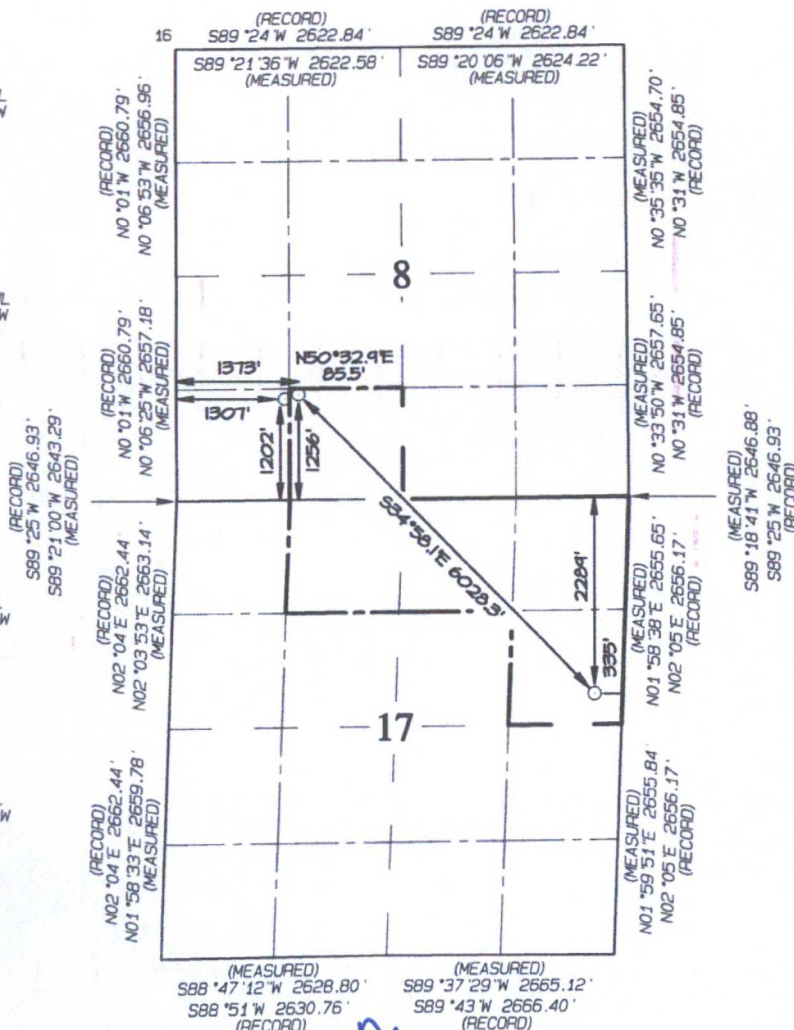
LAT: 36.237784°N
LONG: 107.708898°W
DATUM: NAD1983

RSI TOOL
2241' FSL 385' FEL
SECTION 17, T23N, R8W
LAT: 36.228264°N
LONG: 107.696583°W
DATUM: NAD1927

LAT: 36.228277°N
LONG: 107.697194°W
DATUM: NAD1983

END-OF-LATERAL
2289' FSL 335' FEL
SECTION 17, T23N, R8W
LAT: 36.228135°N
LONG: 107.696416°W
DATUM: NAD1927

LAT: 36.228148°N
LONG: 107.697028°W
DATUM: NAD1983



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: 3/20/17

Printed Name
lacey.granillo@wpenergy.com

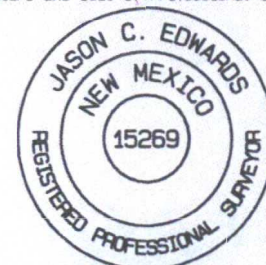
E-mail Address

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
Date of Survey: MAY 20, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



WPX Energy

T23N R8W

2308-08N WLU

W Lybrook UT #744H - Slot 744H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

19 January, 2017

OIL CONS. DIV DIST. 3
MAR 20 2017

CONFIDENTIAL



www.scientificdrilling.com



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Company Name: WPX Energy
Project: T23N R8W
Site: 2308-08N WLU
Well: W Lybrook UT #744H

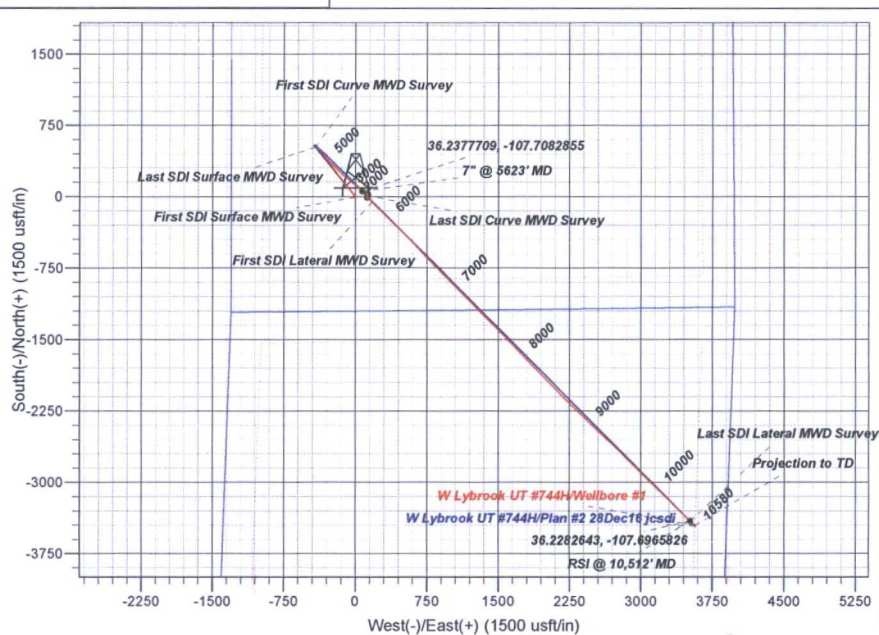
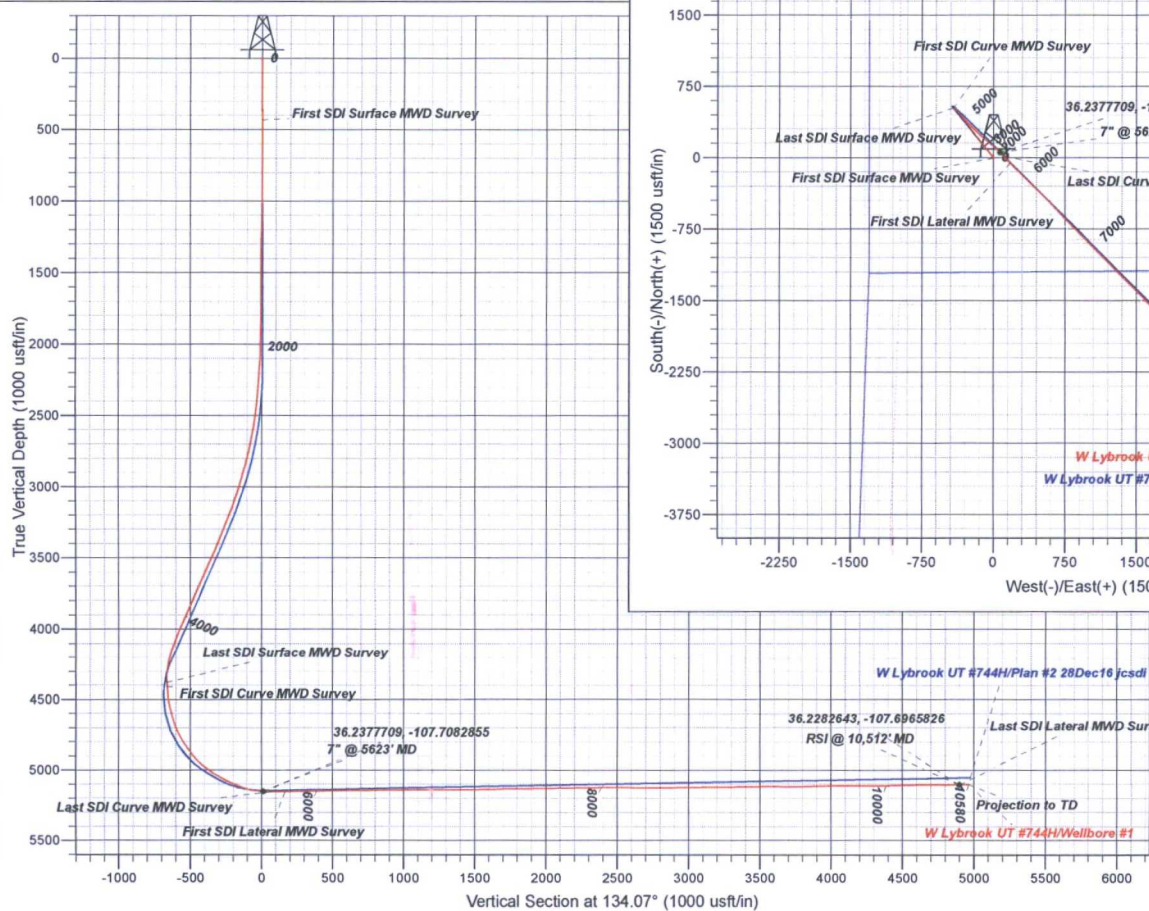


Azimuths to True North
Magnetic North: 9.03°

Magnetic Field
Strength: 49717.6nT
Dip Angle: 62.90°
Date: 1/9/2017
Model: HDGM

WELL DETAILS: W Lybrook UT #744H

+N/-S	+E/-W	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)	6823.00			
		Northing	Easting	Latitude	Longitude	
0.00	0.00	1905759.85	536810.98	36.2376220	-107.7085100	744H



Design: Wellbore #1 (W Lybrook UT #744H/Wellbore #1)
Created By: Janie Collins Date: 13:33, January 19 2017

PROJECT DETAILS: T23N R8W

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003

System Datum: Mean Sea Level
Local North: True



Survey Report



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #744H - Slot 744H
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 #744H	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 #744H - Slot 744H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.2376220
		Longitude:	-107.7085100
		Ground Level:	6,823.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	1/9/2017	9.03
			Dip Angle
			(°)
			62.90
			Field Strength
			(nT)
			49,718

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			18.82

Survey Program	Date 1/19/2017		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
21.00	316.00	Survey #1 - Gyro Survey (Wellbore #1)	SDI Gyro MWD 104
432.00	4,493.00	Survey #2 - Surface MWD Surface (Wellbo	SDI MWD
4,524.00	5,686.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD
5,778.00	10,580.00	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD
			Description
			SDI Gyro MWD Error Model Ver 1.0.4
			SDI MWD - Standard ver 1.0.1
			SDI MWD - Standard ver 1.0.1
			SDI MWD - Standard ver 1.0.1

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
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	
39.72	0.43	215.42	39.72	-0.06	-0.04	-0.07	2.30	2.30	0.00	
63.33	0.33	171.93	63.33	-0.20	-0.08	-0.21	1.26	-0.42	-184.20	
89.14	0.25	143.86	89.14	-0.32	-0.04	-0.31	0.62	-0.31	-108.76	
114.98	0.19	121.14	114.98	-0.38	0.03	-0.35	0.41	-0.23	-87.93	
139.90	0.38	116.54	139.90	-0.44	0.14	-0.37	0.77	0.76	-18.46	
165.57	0.34	130.82	165.57	-0.53	0.27	-0.41	0.38	-0.16	55.63	



Survey Report



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #744H - Slot 744H
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 #744H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
188.11	0.51	165.04	188.11	-0.67	0.35	-0.52	1.32	0.75	151.82
213.99	0.92	167.11	213.99	-0.98	0.43	-0.79	1.59	1.58	8.00
239.22	1.05	172.96	239.21	-1.41	0.50	-1.17	0.65	0.52	23.19
265.08	1.09	184.23	265.07	-1.89	0.51	-1.63	0.83	0.15	43.58
288.94	1.11	188.03	288.92	-2.35	0.46	-2.07	0.32	0.08	15.93
314.36	1.24	189.16	314.34	-2.86	0.38	-2.59	0.52	0.51	4.45
316.00	1.26	188.98	315.98	-2.90	0.38	-2.62	1.24	1.22	-10.98
432.00	1.72	216.30	431.94	-5.56	-0.85	-5.54	0.72	0.40	23.55
First SDI Surface MWD Survey									
615.00	1.00	51.83	614.92	-6.79	-1.22	-6.82	1.47	-0.39	-89.87
707.00	0.44	349.53	706.91	-5.94	-0.65	-5.84	0.96	-0.61	-67.72
798.00	0.78	344.32	797.91	-5.00	-0.89	-5.02	0.38	0.37	-5.73
890.00	0.68	300.48	889.90	-4.12	-1.53	-4.40	0.60	-0.11	-47.65
981.00	0.74	309.39	980.89	-3.48	-2.45	-4.08	0.14	0.07	9.79
1,073.00	0.80	292.64	1,072.88	-2.85	-3.50	-3.83	0.25	0.07	-18.21
1,165.00	1.59	292.15	1,164.86	-2.12	-5.27	-3.71	0.86	0.86	-0.53
1,257.00	0.84	286.00	1,256.84	-1.46	-7.10	-3.67	0.83	-0.82	-6.68
1,348.00	0.71	340.37	1,347.83	-0.74	-7.93	-3.26	0.79	-0.14	59.75
1,440.00	0.68	50.60	1,439.83	0.14	-7.70	-2.35	0.87	-0.03	76.34
1,532.00	1.02	80.84	1,531.82	0.62	-6.47	-1.50	0.60	0.37	32.87
1,624.00	1.71	25.43	1,623.80	1.99	-5.07	0.25	1.53	0.75	-60.23
1,715.00	1.33	336.45	1,714.77	4.18	-4.91	2.37	1.44	-0.42	-53.82
1,807.00	1.50	329.76	1,806.74	6.20	-5.95	3.95	0.26	0.18	-7.27
1,899.00	1.14	322.60	1,898.72	7.97	-7.11	5.25	0.43	-0.39	-7.78
1,991.00	1.01	313.99	1,990.70	9.26	-8.25	6.10	0.22	-0.14	-9.36
2,083.00	1.45	324.22	2,082.68	10.77	-9.51	7.12	0.53	0.48	11.12
2,175.00	2.56	322.92	2,174.62	13.35	-11.43	8.95	1.21	1.21	-1.41
2,266.00	4.22	323.77	2,265.46	17.67	-14.64	12.01	1.82	1.82	0.93
2,358.00	5.97	317.40	2,357.09	23.93	-19.88	16.24	2.00	1.90	-6.92
2,449.00	6.96	319.69	2,447.51	31.61	-26.65	21.33	1.12	1.09	2.52
2,541.00	8.81	320.91	2,538.64	41.33	-34.69	27.93	2.02	2.01	1.33
2,633.00	10.75	321.59	2,629.30	53.53	-44.47	36.32	2.11	2.11	0.74
2,727.00	12.11	319.69	2,721.43	67.92	-56.29	46.13	1.50	1.45	-2.02
2,822.00	13.30	321.13	2,814.10	84.02	-69.60	57.08	1.30	1.25	1.52
2,917.00	15.38	320.34	2,906.14	102.23	-84.50	69.51	2.20	2.19	-0.83
3,012.00	16.98	322.03	2,997.37	122.87	-101.07	83.70	1.76	1.68	1.78
3,106.00	19.53	323.60	3,086.64	146.34	-118.85	100.18	2.76	2.71	1.67
3,201.00	20.59	321.21	3,175.87	172.14	-138.74	118.19	1.41	1.12	-2.52
3,296.00	21.92	321.53	3,264.41	199.04	-160.23	136.73	1.41	1.40	0.34
3,390.00	23.57	323.81	3,351.10	227.95	-182.25	156.99	1.99	1.76	2.43
3,485.00	23.05	323.23	3,438.34	258.18	-204.60	178.39	0.60	-0.55	-0.61
3,580.00	24.56	322.55	3,525.26	288.75	-227.73	199.87	1.62	1.59	-0.72
3,675.00	24.02	321.58	3,611.85	319.58	-251.76	221.30	0.71	-0.57	-1.02

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #744H - Slot 744H
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 #744H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,770.00	24.02	320.96	3,698.62	349.74	-275.95	242.05	0.27	0.00	-0.65
3,864.00	24.08	321.44	3,784.46	379.60	-299.95	262.56	0.22	0.06	0.51
3,959.00	24.43	321.62	3,871.08	410.15	-324.23	283.65	0.38	0.37	0.19
4,054.00	24.07	322.53	3,957.69	440.93	-348.21	305.05	0.55	-0.38	0.96
4,148.00	21.73	319.94	4,044.28	469.46	-371.08	324.69	2.71	-2.49	-2.76
4,212.00	20.15	319.46	4,104.05	486.91	-385.87	336.43	2.48	-2.47	-0.75
4,240.00	19.58	319.84	4,130.39	494.16	-392.03	341.31	2.09	-2.04	1.36
4,272.00	18.08	318.06	4,160.67	501.95	-398.81	346.50	5.02	-4.69	-5.56
4,303.00	14.40	316.05	4,190.43	508.31	-404.70	350.61	12.01	-11.87	-6.48
4,335.00	11.37	313.67	4,221.62	513.35	-409.74	353.76	9.61	-9.47	-7.44
4,366.00	8.77	312.51	4,252.14	517.06	-413.70	355.99	8.41	-8.39	-3.74
4,398.00	6.47	314.01	4,283.86	519.96	-416.79	357.74	7.21	-7.19	4.69
4,430.00	4.06	318.80	4,315.72	522.07	-418.83	359.07	7.65	-7.53	14.97
4,461.00	1.53	328.63	4,346.68	523.25	-419.77	359.89	8.28	-8.16	31.71
4,493.00	0.60	140.64	4,378.68	523.48	-419.89	360.07	6.64	-2.91	537.53
Last SDI Surface MWD Survey									
4,524.00	2.59	140.80	4,409.66	522.81	-419.34	359.62	6.42	6.42	0.52
First SDI Curve MWD Survey									
4,556.00	5.04	138.55	4,441.59	521.20	-417.96	358.54	7.67	7.66	-7.03
4,588.00	6.83	136.81	4,473.42	518.76	-415.72	356.95	5.62	5.59	-5.44
4,619.00	8.52	135.64	4,504.14	515.77	-412.86	355.04	5.47	5.45	-3.77
4,651.00	10.75	136.78	4,535.69	511.90	-409.15	352.58	6.99	6.97	3.56
4,682.00	13.18	137.69	4,566.01	507.18	-404.79	349.51	7.86	7.84	2.94
4,714.00	14.87	137.62	4,597.05	501.45	-399.57	345.77	5.28	5.28	-0.22
4,746.00	16.45	136.75	4,627.87	495.12	-393.70	341.67	4.99	4.94	-2.72
4,777.00	18.32	135.51	4,657.45	488.44	-387.28	337.43	6.15	6.03	-4.00
4,809.00	21.08	136.16	4,687.57	480.70	-379.76	332.52	8.65	8.63	2.03
4,840.00	23.87	137.64	4,716.22	472.05	-371.67	326.94	9.18	9.00	4.77
4,872.00	26.23	137.48	4,745.20	462.05	-362.53	320.42	7.38	7.38	-0.50
4,904.00	28.17	136.64	4,773.66	451.34	-352.57	313.50	6.18	6.06	-2.63
4,935.00	30.36	135.89	4,800.71	440.40	-342.09	306.52	7.16	7.06	-2.42
4,966.00	33.59	135.77	4,827.00	428.62	-330.65	299.07	10.42	10.42	-0.39
4,998.00	35.80	136.46	4,853.31	415.49	-318.03	290.71	7.01	6.91	2.16
5,030.00	38.61	136.83	4,878.79	401.43	-304.75	281.68	8.81	8.78	1.16
5,061.00	40.60	136.64	4,902.67	387.04	-291.20	272.43	6.43	6.42	-0.61
5,093.00	43.08	136.49	4,926.51	371.54	-276.53	262.49	7.76	7.75	-0.47
5,124.00	45.79	136.08	4,948.65	355.85	-261.53	252.48	8.79	8.74	-1.32
5,156.00	48.78	135.37	4,970.35	339.02	-245.11	241.85	9.48	9.34	-2.22
5,188.00	51.72	134.89	4,990.81	321.59	-227.76	230.94	9.26	9.19	-1.50
5,219.00	54.64	134.45	5,009.39	304.15	-210.11	220.12	9.49	9.42	-1.42
5,251.00	58.05	133.87	5,027.12	285.60	-191.00	208.73	10.76	10.66	-1.81
5,282.00	60.50	134.29	5,042.96	267.06	-171.86	197.35	7.99	7.90	1.35
5,314.00	60.79	134.09	5,058.64	247.62	-151.86	185.40	1.06	0.91	-0.63
5,346.00	62.36	133.37	5,073.88	228.17	-131.53	173.55	5.29	4.91	-2.25

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #744H - Slot 744H
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 #744H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,377.00	64.98	132.79	5,087.62	209.19	-111.23	162.13	8.62	8.45	-1.87	
5,409.00	67.62	130.77	5,100.49	189.68	-89.38	150.71	10.07	8.25	-6.31	
5,440.00	69.29	129.36	5,111.87	171.12	-67.32	140.26	6.85	5.39	-4.55	
5,472.00	69.03	129.01	5,123.26	152.22	-44.13	129.85	1.31	-0.81	-1.09	
5,503.00	73.16	129.80	5,133.30	133.61	-21.48	119.54	13.54	13.32	2.55	
5,535.00	78.09	130.76	5,141.24	113.57	2.16	108.20	15.68	15.41	3.00	
5,573.00	83.91	132.42	5,147.18	88.67	30.21	93.67	15.91	15.32	4.37	
5,623.00	86.88	135.13	5,151.20	54.19	66.19	72.64	8.04	5.95	5.43	
7" @ 5623' MD - 36.2377709, -107.7082855										
5,655.00	88.79	136.86	5,152.40	31.19	88.40	58.04	8.04	5.96	5.40	
5,686.00	88.96	136.66	5,153.01	8.61	109.63	43.51	0.85	0.55	-0.65	
Last SDI Curve MWD Survey										
5,778.00	90.64	135.64	5,153.33	-57.73	173.37	1.27	2.14	1.83	-1.11	
First SDI Lateral MWD Survey										
5,869.00	90.64	134.43	5,152.32	-122.11	237.67	-38.93	1.33	0.00	-1.33	
5,961.00	91.58	134.90	5,150.53	-186.77	303.09	-79.03	1.14	1.02	0.51	
6,053.00	90.77	134.19	5,148.65	-251.29	368.64	-118.96	1.17	-0.88	-0.77	
6,145.00	91.48	135.52	5,146.84	-316.17	433.85	-159.34	1.64	0.77	1.45	
6,236.00	91.07	134.33	5,144.82	-380.41	498.26	-199.37	1.38	-0.45	-1.31	
6,328.00	89.80	135.07	5,144.12	-445.12	563.65	-239.53	1.60	-1.38	0.80	
6,419.00	90.47	138.08	5,143.90	-511.20	626.20	-281.91	3.39	0.74	3.31	
6,511.00	90.74	136.68	5,142.93	-578.90	688.49	-325.89	1.55	0.29	-1.52	
6,603.00	90.74	136.00	5,141.74	-645.45	752.00	-368.40	0.74	0.00	-0.74	
6,694.00	90.87	136.14	5,140.47	-710.98	815.12	-410.07	0.21	0.14	0.15	
6,786.00	89.36	134.16	5,140.28	-776.20	880.00	-450.88	2.71	-1.64	-2.15	
6,878.00	90.07	136.42	5,140.74	-841.57	944.72	-491.89	2.57	0.77	2.46	
6,970.00	90.98	136.11	5,139.90	-908.04	1,008.32	-534.29	1.04	0.99	-0.34	
7,061.00	89.70	134.95	5,139.36	-972.98	1,072.06	-575.20	1.90	-1.41	-1.27	
7,153.00	90.30	134.53	5,139.36	-1,037.74	1,137.41	-615.42	0.80	0.65	-0.46	
7,245.00	92.05	134.45	5,137.47	-1,102.19	1,203.03	-655.26	1.90	1.90	-0.09	
7,337.00	91.11	135.07	5,134.93	-1,166.95	1,268.33	-695.50	1.22	-1.02	0.67	
7,429.00	91.41	134.69	5,132.91	-1,231.85	1,333.50	-735.91	0.53	0.33	-0.41	
7,521.00	90.67	135.10	5,131.24	-1,296.77	1,398.66	-776.34	0.92	-0.80	0.45	
7,612.00	90.54	136.72	5,130.28	-1,362.13	1,461.97	-817.79	1.79	-0.14	1.78	
7,704.00	90.40	136.30	5,129.52	-1,428.87	1,525.29	-860.54	0.48	-0.15	-0.46	
7,796.00	91.18	135.95	5,128.26	-1,495.18	1,589.04	-902.74	0.93	0.85	-0.38	
7,887.00	90.84	134.85	5,126.65	-1,559.97	1,652.93	-943.46	1.27	-0.37	-1.21	
7,979.00	90.30	136.16	5,125.74	-1,625.59	1,717.40	-984.78	1.54	-0.59	1.42	
8,071.00	91.28	136.30	5,124.47	-1,692.01	1,781.04	-1,027.13	1.08	1.07	0.15	
8,162.00	88.42	135.76	5,124.71	-1,757.50	1,844.21	-1,068.74	3.20	-3.14	-0.59	
8,254.00	89.23	135.51	5,126.59	-1,823.26	1,908.52	-1,110.24	0.92	0.88	-0.27	
8,349.00	90.24	136.45	5,127.03	-1,891.57	1,974.54	-1,153.61	1.45	1.06	0.99	
8,443.00	90.54	136.34	5,126.39	-1,959.63	2,039.37	-1,197.12	0.34	0.32	-0.12	
8,538.00	90.77	135.52	5,125.31	-2,027.88	2,105.44	-1,240.42	0.90	0.24	-0.86	

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #744H - Slot 744H
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 #744H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,633.00	90.81	134.72	5,124.00	-2,095.19	2,172.47	-1,282.51	0.84	0.04	-0.84
8,728.00	90.34	135.17	5,123.04	-2,162.30	2,239.70	-1,324.34	0.68	-0.49	0.47
8,823.00	90.37	134.02	5,122.45	-2,229.00	2,307.35	-1,365.66	1.21	0.03	-1.21
8,917.00	90.17	133.79	5,122.01	-2,294.18	2,375.07	-1,405.51	0.32	-0.21	-0.24
9,012.00	91.64	135.21	5,120.51	-2,360.75	2,442.82	-1,446.68	2.15	1.55	1.49
9,107.00	90.91	133.62	5,118.40	-2,427.22	2,510.66	-1,487.71	1.84	-0.77	-1.67
9,201.00	88.86	131.60	5,118.59	-2,490.85	2,579.83	-1,525.63	3.06	-2.18	-2.15
9,296.00	89.50	132.19	5,119.94	-2,554.28	2,650.54	-1,562.87	0.92	0.67	0.62
9,391.00	91.57	134.12	5,119.06	-2,619.25	2,719.83	-1,602.01	2.98	2.18	2.03
9,486.00	92.22	135.80	5,115.92	-2,686.34	2,787.02	-1,643.85	1.90	0.68	1.77
9,581.00	89.13	133.45	5,114.80	-2,753.06	2,854.61	-1,685.20	4.09	-3.25	-2.47
9,675.00	90.91	136.41	5,114.76	-2,819.43	2,921.15	-1,726.56	3.67	1.89	3.15
9,770.00	89.60	134.82	5,114.34	-2,887.32	2,987.60	-1,769.39	2.17	-1.38	-1.67
9,865.00	90.60	135.12	5,114.18	-2,954.46	3,054.81	-1,811.27	1.10	1.05	0.32
9,960.00	90.94	134.25	5,112.90	-3,021.26	3,122.34	-1,852.71	0.98	0.36	-0.92
10,054.00	91.24	132.49	5,111.11	-3,085.79	3,190.66	-1,891.76	1.90	0.32	-1.87
10,149.00	91.48	134.56	5,108.86	-3,151.20	3,259.52	-1,931.46	2.19	0.25	2.18
10,244.00	90.03	135.48	5,107.60	-3,218.39	3,326.66	-1,973.40	1.81	-1.53	0.97
10,339.00	89.60	133.80	5,107.91	-3,285.14	3,394.25	-2,014.78	1.83	-0.45	-1.77
10,434.00	91.58	134.95	5,106.93	-3,351.57	3,462.15	-2,055.76	2.41	2.08	1.21
10,512.00	90.90	133.83	5,105.24	-3,406.11	3,517.88	-2,089.42	1.68	-0.87	-1.44
RSI @ 10,512' MD - 36.2282643, -107.6965826									
10,516.00	90.87	133.77	5,105.18	-3,408.88	3,520.76	-2,091.11	1.68	-0.87	-1.44
Last SDI Lateral MWD Survey									
10,580.00	90.87	133.77	5,104.21	-3,453.15	3,566.97	-2,118.11	0.00	0.00	0.00
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
432.00	431.94	-5.56	-0.85	First SDI Surface MWD Survey
4,493.00	4,378.68	523.48	-419.89	Last SDI Surface MWD Survey
4,524.00	4,409.66	522.81	-419.34	First SDI Curve MWD Survey
5,623.00	5,151.20	54.19	66.19	7" @ 5623' MD
5,623.00	5,151.20	54.19	66.19	36.2377709, -107.7082855
5,686.00	5,153.01	8.61	109.63	Last SDI Curve MWD Survey
5,778.00	5,153.33	-57.73	173.37	First SDI Lateral MWD Survey
10,512.00	5,105.24	-3,406.11	3,517.88	RSI @ 10,512' MD
10,512.00	5,105.24	-3,406.11	3,517.88	36.2282643, -107.6965826
10,516.00	5,105.18	-3,408.88	3,520.76	Last SDI Lateral MWD Survey
10,580.00	5,104.21	-3,453.15	3,566.97	Projection to TD



Survey Report



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #744H - Slot 744H
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 #744H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Checked By: _____ Approved By: _____ Date: _____