

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 30-045-35806		*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT		*Well Number 751H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6700'

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
F	13	23N	9W		1980	NORTH	2471	WEST	SAN JUAN

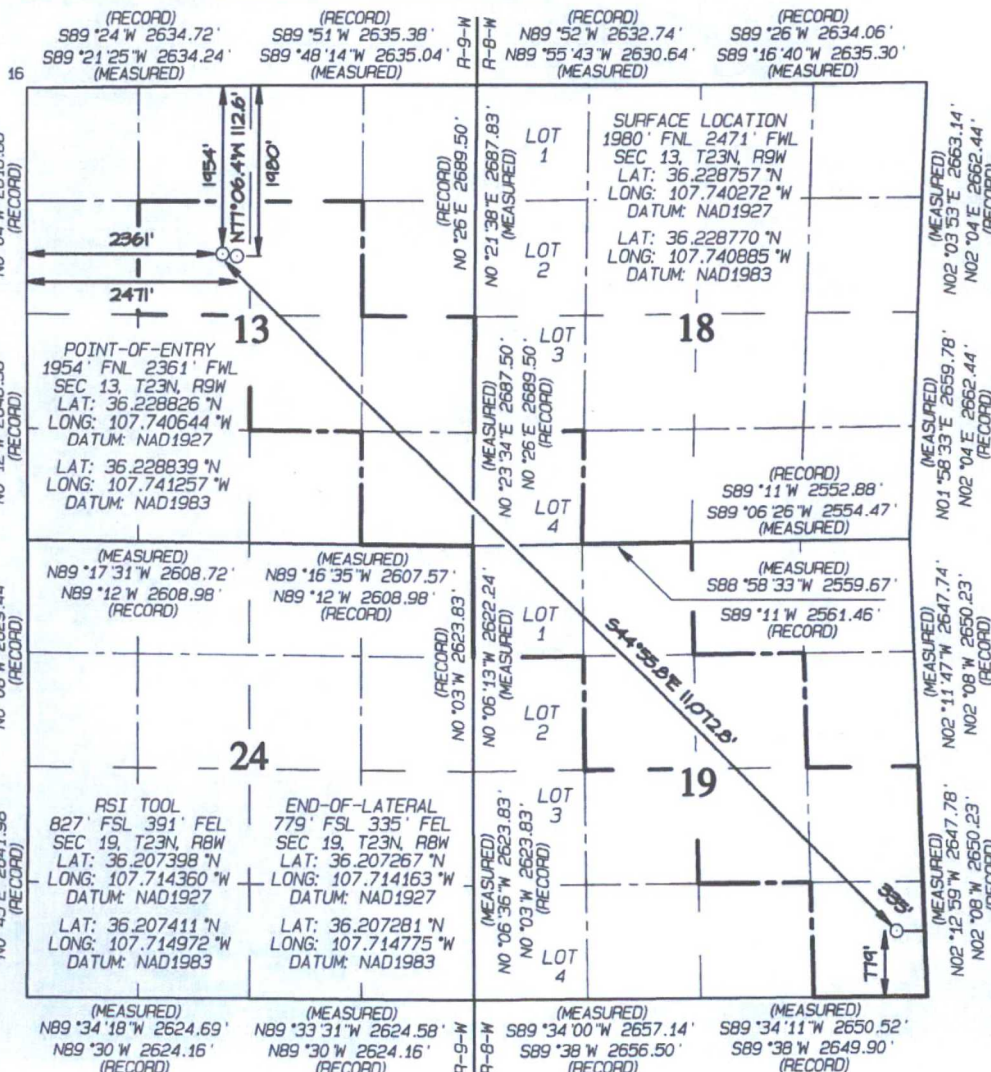
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	23N	8W		779	SOUTH	335	EAST	SAN JUAN

¹² Dedicated Acres 520.42	N/2 NW/4, SE/4 NW/4 SW/4 NE/4, N/2 SE/4 SE/4 SE/4 - Section 19, T23N, R8W SW/4 SW/4 - Section 18, T23N, R8W SE/4 NW/4, SW/4 NE/4, N/2 SE/4 SE/4 SE/4 - Section 13, T23N, R9W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14051 - 12,807.24 Acres
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

CONFIDENTIAL



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or 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: 6/7/17

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: MAY 16, 2017
Survey Date: OCTOBER 23, 2015

Signature and Seal of Professional Surveyor



Jason C. Edwards
Certificate Number 15269

10

WPX Energy

T23N R9W

2309-13F WLU

W Lybrook UT #751H - Slot A3

Wellbore #2 ST

CONFIDENTIAL

Design: ST Actual

Standard Survey Report

09 May, 2017



www.scientificdrilling.com

Scientific Drilling Int.
Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #751H - Slot A3
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #751H	North Reference:	True
Wellbore:	Wellbore #2 ST	Survey Calculation Method:	Minimum Curvature
Design:	ST Actual	Database:	Grand Junction District

Project	T23N R9W		
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		2309-13F WLU			
Site Position:		Northing:	1,902,559.83 usft	Latitude:	36° 13' 43.896 N
From:	Map	Easting:	527,432.82 usft	Longitude:	107° 44' 25.156 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 °

Well	W Lybrook UT #751H - Slot A3					
Well Position	+N/-S	0.00 usft	Northing:	1,902,522.35 usft	Latitude:	36° 13' 43.525 N
	+E/-W	0.00 usft	Easting:	527,447.31 usft	Longitude:	107° 44' 24.979 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,700.00 usft

Wellbore	Wellbore #2 ST				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/6/2017	9.05	62.87	49,686

Design	ST Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	1,269.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	135.49	

Survey Program	Date	5/9/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
51.00	311.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
561.00	1,269.00	SDI MWD Intermediate (Wellbore #1)	MWD	MWD - Standard	
1,356.00	4,142.00	SDI MWD Int. (Wellbore #2 ST)	MWD	MWD - Standard	
4,174.00	5,292.00	SDI MWD Curve (Wellbore #2 ST)	MWD	MWD - Standard	
5,387.00	16,315.00	SDI MWD Lateral (Wellbore #2 ST)	MWD	MWD - Standard	

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
51.00	0.68	77.09	51.00	0.07	0.29	0.16	1.33	1.33	0.00	
81.00	0.12	56.59	81.00	0.12	0.49	0.26	1.90	-1.87	-68.33	
111.00	0.16	17.20	111.00	0.18	0.53	0.24	0.34	0.13	-131.30	
141.00	0.22	329.61	141.00	0.27	0.52	0.17	0.54	0.20	-158.63	
171.00	0.51	303.04	171.00	0.39	0.38	-0.02	1.09	0.97	-88.57	
201.00	0.59	276.68	201.00	0.48	0.11	-0.27	0.88	0.27	-87.87	

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #751H - Slot A3
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #751H	North Reference:	True
Wellbore:	Wellbore #2 ST	Survey Calculation Method:	Minimum Curvature
Design:	ST Actual	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)
231.00	0.71	291.98	230.99	0.57	-0.22	-0.56	0.70	0.40	51.00
261.00	0.72	280.83	260.99	0.68	-0.57	-0.88	0.46	0.03	-37.17
291.00	0.85	284.36	290.99	0.77	-0.97	-1.23	0.46	0.43	11.77
311.00	1.11	289.37	310.99	0.87	-1.30	-1.53	1.37	1.30	25.05
561.00	1.49	284.24	560.92	2.47	-6.74	-6.48	0.16	0.15	-2.05
715.00	1.60	286.74	714.87	3.58	-10.73	-10.08	0.08	0.07	1.62
807.00	1.47	282.75	806.83	4.21	-13.12	-12.20	0.18	-0.14	-4.34
899.00	2.72	298.30	898.77	5.51	-16.19	-15.28	1.48	1.36	16.90
991.00	3.81	299.89	990.62	8.07	-20.76	-20.31	1.19	1.18	1.73
1,083.00	4.62	307.58	1,082.37	11.85	-26.35	-26.92	1.07	0.88	8.36
1,176.00	5.46	307.36	1,175.01	16.82	-32.83	-35.01	0.90	0.90	-0.24
1,269.00	6.82	309.19	1,267.47	22.99	-40.63	-44.88	1.48	1.46	1.97
1,356.00	7.32	317.84	1,353.81	30.37	-48.35	-55.55	1.35	0.57	9.94
1,377.00	7.56	322.91	1,374.64	32.46	-50.08	-58.26	3.33	1.14	24.14
1,452.00	9.18	333.10	1,448.84	41.73	-55.77	-68.86	2.92	2.16	13.59
1,546.00	11.28	330.42	1,541.34	56.42	-63.70	-84.89	2.29	2.23	-2.85
1,640.00	13.10	327.43	1,633.22	73.39	-73.97	-104.19	2.05	1.94	-3.18
1,735.00	15.07	324.13	1,725.36	92.47	-87.01	-126.94	2.24	2.07	-3.47
1,828.00	16.15	315.58	1,814.94	111.51	-103.15	-151.83	2.73	1.16	-9.19
1,922.00	17.13	308.34	1,905.01	129.44	-123.16	-178.64	2.44	1.04	-7.70
2,016.00	17.94	309.02	1,994.64	147.14	-145.26	-206.76	0.89	0.86	0.72
2,110.00	16.81	310.71	2,084.35	165.12	-166.81	-234.70	1.32	-1.20	1.80
2,204.00	15.87	312.22	2,174.56	182.62	-186.64	-261.07	1.10	-1.00	1.61
2,298.00	16.69	312.18	2,264.79	200.32	-206.16	-287.38	0.87	0.87	-0.04
2,392.00	15.66	312.07	2,355.07	217.89	-225.58	-313.52	1.10	-1.10	-0.12
2,486.00	16.09	311.99	2,445.48	235.10	-244.68	-339.19	0.46	0.46	-0.09
2,580.00	15.39	311.20	2,535.95	252.03	-263.74	-364.63	0.78	-0.74	-0.84
2,674.00	16.10	315.03	2,626.43	269.47	-282.34	-390.10	1.34	0.76	4.07
2,768.00	15.50	313.99	2,716.88	287.42	-300.59	-415.69	0.71	-0.64	-1.11
2,862.00	16.31	315.38	2,807.28	305.54	-318.90	-441.44	0.95	0.86	1.48
2,956.00	16.32	315.86	2,897.49	324.41	-337.37	-467.85	0.14	0.01	0.51
3,050.00	16.42	314.49	2,987.68	343.20	-356.04	-494.34	0.42	0.11	-1.46
3,144.00	16.04	314.38	3,077.94	361.59	-374.80	-520.61	0.41	-0.40	-0.12
3,238.00	15.86	313.23	3,168.32	379.47	-393.44	-546.43	0.39	-0.19	-1.22
3,332.00	16.69	309.72	3,258.55	396.89	-413.18	-572.69	1.37	0.88	-3.73
3,426.00	15.09	310.71	3,348.96	413.50	-432.84	-598.32	1.73	-1.70	1.05
3,520.00	16.45	313.06	3,439.42	430.57	-451.84	-623.81	1.60	1.45	2.50
3,613.00	14.04	310.28	3,529.14	446.86	-470.07	-648.20	2.71	-2.59	-2.99
3,708.00	14.41	310.19	3,621.23	461.94	-487.89	-671.45	0.39	0.39	-0.09
3,801.00	12.46	312.22	3,711.68	476.15	-504.17	-692.99	2.16	-2.10	2.18
3,895.00	9.04	308.51	3,804.02	487.56	-517.46	-710.45	3.71	-3.64	-3.95
3,990.00	5.97	313.80	3,898.19	495.63	-526.87	-722.80	3.31	-3.23	5.57
4,080.00	3.50	301.97	3,987.88	500.33	-532.58	-730.15	2.94	-2.74	-13.14

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #751H - Slot A3
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #751H	North Reference:	True
Wellbore:	Wellbore #2 ST	Survey Calculation Method:	Minimum Curvature
Design:	ST Actual	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)
4,111.00	3.47	300.62	4,018.82	501.31	-534.19	-731.98	0.28	-0.10	-4.35
4,142.00	1.68	295.32	4,049.79	501.98	-535.40	-733.31	5.82	-5.77	-17.10
Last Survey Int.									
4,174.00	0.91	154.98	4,081.79	501.95	-535.72	-733.51	7.66	-2.41	-438.56
First Survey Curve									
4,205.00	3.31	144.21	4,112.76	501.00	-535.09	-732.39	7.81	7.74	-34.74
4,236.00	5.86	141.09	4,143.66	499.04	-533.58	-729.93	8.26	8.23	-10.06
4,267.00	8.44	139.25	4,174.42	496.09	-531.10	-726.09	8.35	8.32	-5.94
4,299.00	10.91	138.47	4,205.96	492.04	-527.55	-720.72	7.73	7.72	-2.44
4,330.00	13.37	138.04	4,236.27	487.18	-523.21	-714.21	7.94	7.94	-1.39
4,362.00	15.47	138.56	4,267.26	481.23	-517.91	-706.25	6.57	6.56	1.63
4,393.00	17.67	139.48	4,296.97	474.55	-512.12	-697.43	7.15	7.10	2.97
4,424.00	20.25	140.92	4,326.28	466.81	-505.68	-687.39	8.46	8.32	4.65
4,455.00	22.63	141.05	4,355.13	458.00	-498.55	-676.11	7.68	7.68	0.42
4,487.00	24.82	139.64	4,384.43	448.10	-490.33	-663.29	7.07	6.84	-4.41
4,518.00	26.78	139.06	4,412.34	437.86	-481.54	-649.82	6.37	6.32	-1.87
4,549.00	28.27	139.49	4,439.83	427.00	-472.19	-635.53	4.85	4.81	1.39
4,580.00	30.35	139.09	4,466.86	415.50	-462.29	-620.39	6.74	6.71	-1.29
4,612.00	32.74	138.65	4,494.13	402.89	-451.28	-603.68	7.50	7.47	-1.38
4,643.00	34.66	138.77	4,519.92	389.97	-439.93	-586.51	6.20	6.19	0.39
4,674.00	36.83	138.17	4,545.08	376.42	-427.92	-568.42	7.09	7.00	-1.94
4,706.00	39.30	138.10	4,570.27	361.72	-414.76	-548.71	7.72	7.72	-0.22
4,737.00	41.78	137.47	4,593.82	346.80	-401.22	-528.58	8.11	8.00	-2.03
4,768.00	44.65	136.88	4,616.41	331.24	-386.79	-507.37	9.35	9.26	-1.90
4,800.00	47.38	137.37	4,638.64	314.37	-371.12	-484.35	8.60	8.53	1.53
4,831.00	49.41	137.79	4,659.22	297.26	-355.49	-461.19	6.63	6.55	1.35
4,862.00	51.76	137.11	4,678.90	279.61	-339.29	-437.26	7.77	7.58	-2.19
4,894.00	54.61	137.80	4,698.07	260.74	-321.98	-411.66	9.07	8.91	2.16
4,925.00	57.40	136.87	4,715.40	241.85	-304.56	-385.97	9.34	9.00	-3.00
4,956.00	60.48	137.62	4,731.40	222.35	-286.53	-359.43	10.15	9.94	2.42
4,987.00	63.37	138.44	4,745.99	202.01	-268.25	-332.11	9.61	9.32	2.65
5,019.00	66.07	138.84	4,759.65	180.30	-249.13	-303.22	8.51	8.44	1.25
5,051.00	69.42	138.21	4,771.77	158.11	-229.52	-273.65	10.63	10.47	-1.97
5,082.00	72.01	138.60	4,782.00	136.23	-210.09	-244.43	8.44	8.35	1.26
5,113.00	74.33	138.64	4,790.98	113.97	-190.48	-214.81	7.48	7.48	0.13
5,145.00	77.26	137.70	4,798.83	90.86	-169.79	-183.82	9.59	9.16	-2.94
5,176.00	80.15	138.25	4,804.90	68.27	-149.44	-153.45	9.48	9.32	1.77
5,218.00	83.98	136.67	4,810.70	37.63	-121.32	-111.89	9.85	9.12	-3.76
5,235.05	84.73	137.18	4,812.38	25.24	-109.73	-94.93	5.32	4.40	3.00
ST POE #751H									
5,263.00	85.96	138.02	4,814.64	4.67	-90.95	-67.09	5.32	4.40	2.99
7" Casing@ 5263' MD, - 7"									
5,292.00	87.24	138.88	4,816.36	-16.99	-71.75	-38.18	5.32	4.41	2.98
Last Survey Curve									
5,387.00	89.29	138.42	4,819.24	-88.27	-9.02	56.63	2.21	2.16	-0.48

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #751H - Slot A3
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
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Well:	W Lybrook UT #751H	North Reference:	True
Wellbore:	Wellbore #2 ST	Survey Calculation Method:	Minimum Curvature
Design:	ST Actual	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)
First Survey Lateral									
5,481.00	91.88	139.67	4,818.28	-159.25	52.58	150.43	3.06	2.76	1.33
5,576.00	90.94	137.49	4,815.94	-230.46	115.41	245.26	2.50	-0.99	-2.29
5,671.00	89.87	137.27	4,815.27	-300.37	179.74	340.20	1.15	-1.13	-0.23
5,766.00	89.73	137.87	4,815.60	-370.49	243.83	435.14	0.65	-0.15	0.63
5,861.00	89.26	137.56	4,816.44	-440.77	307.75	530.06	0.59	-0.49	-0.33
5,955.00	89.53	136.89	4,817.43	-509.76	371.58	624.01	0.77	0.29	-0.71
6,050.00	89.93	137.28	4,817.88	-579.33	436.26	718.98	0.59	0.42	0.41
6,145.00	88.82	135.79	4,818.92	-648.28	501.61	813.95	1.96	-1.17	-1.57
6,240.00	90.10	136.19	4,819.81	-716.60	567.61	908.94	1.41	1.35	0.42
6,335.00	89.36	134.63	4,820.26	-784.25	634.30	1,003.94	1.82	-0.78	-1.64
6,430.00	89.50	134.88	4,821.20	-851.13	701.76	1,098.92	0.30	0.15	0.26
6,524.00	89.02	134.05	4,822.42	-916.97	768.84	1,192.90	1.02	-0.51	-0.88
6,619.00	89.63	133.54	4,823.54	-982.71	837.40	1,287.85	0.84	0.64	-0.54
6,714.00	87.61	134.75	4,825.83	-1,048.86	905.55	1,382.79	2.48	-2.13	1.27
6,809.00	91.28	136.31	4,826.75	-1,116.63	972.08	1,477.77	4.20	3.86	1.64
6,904.00	89.87	136.81	4,825.79	-1,185.61	1,037.40	1,572.74	1.57	-1.48	0.53
6,999.00	90.54	137.10	4,825.45	-1,255.03	1,102.24	1,667.71	0.77	0.71	0.31
7,094.00	89.66	138.07	4,825.29	-1,325.17	1,166.32	1,762.64	1.38	-0.93	1.02
7,188.00	88.48	138.02	4,826.81	-1,395.06	1,229.15	1,856.54	1.26	-1.26	-0.05
7,283.00	89.63	137.94	4,828.38	-1,465.63	1,292.74	1,951.43	1.21	1.21	-0.08
7,378.00	88.86	137.04	4,829.63	-1,535.65	1,356.92	2,046.36	1.25	-0.81	-0.95
7,473.00	87.67	135.70	4,832.51	-1,604.38	1,422.44	2,141.31	1.89	-1.25	-1.41
7,568.00	88.15	135.28	4,835.97	-1,672.08	1,488.99	2,236.24	0.67	0.51	-0.44
7,662.00	89.13	134.56	4,838.20	-1,738.44	1,555.53	2,330.21	1.29	1.04	-0.77
7,757.00	90.40	135.62	4,838.59	-1,805.71	1,622.60	2,425.20	1.74	1.34	1.12
7,852.00	91.78	135.72	4,836.79	-1,873.66	1,688.97	2,520.18	1.46	1.45	0.11
7,947.00	91.11	135.00	4,834.39	-1,941.23	1,755.70	2,615.15	1.04	-0.71	-0.76
8,042.00	91.95	134.01	4,831.85	-2,007.80	1,823.43	2,710.10	1.37	0.88	-1.04
8,137.00	92.02	133.83	4,828.56	-2,073.65	1,891.82	2,805.01	0.20	0.07	-0.19
8,232.00	89.78	135.08	4,827.07	-2,140.17	1,959.61	2,899.97	2.70	-2.36	1.32
8,326.00	89.53	134.35	4,827.64	-2,206.31	2,026.41	2,993.96	0.82	-0.27	-0.78
8,421.00	90.13	134.29	4,827.92	-2,272.68	2,094.38	3,088.94	0.63	0.63	-0.06
8,516.00	90.60	134.35	4,827.31	-2,339.05	2,162.34	3,183.92	0.50	0.49	0.06
8,611.00	90.61	134.49	4,826.31	-2,405.54	2,230.19	3,278.90	0.15	0.01	0.15
8,706.00	89.83	133.85	4,825.95	-2,471.73	2,298.33	3,373.87	1.06	-0.82	-0.67
8,801.00	88.99	132.82	4,826.92	-2,536.92	2,367.42	3,468.80	1.40	-0.88	-1.08
8,895.00	89.80	135.77	4,827.92	-2,602.56	2,434.69	3,562.76	3.25	0.86	3.14
8,990.00	91.68	137.65	4,826.69	-2,671.70	2,499.82	3,657.72	2.80	1.98	1.98
9,093.00	90.40	136.84	4,824.82	-2,747.31	2,569.73	3,760.65	1.47	-1.24	-0.79
9,188.00	89.83	136.90	4,824.63	-2,816.64	2,634.68	3,855.63	0.60	-0.60	0.06
9,283.00	89.90	136.99	4,824.85	-2,886.06	2,699.54	3,950.59	0.12	0.07	0.09
9,378.00	89.43	136.17	4,825.41	-2,955.06	2,764.83	4,045.57	0.99	-0.49	-0.86

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #751H - Slot A3
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #751H	North Reference:	True
Wellbore:	Wellbore #2 ST	Survey Calculation Method:	Minimum Curvature
Design:	ST Actual	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)
9,473.00	91.04	136.50	4,825.02	-3,023.78	2,830.42	4,140.56	1.73	1.69	0.35
9,568.00	89.53	134.98	4,824.55	-3,091.81	2,896.72	4,235.55	2.26	-1.59	-1.60
9,662.00	90.60	134.92	4,824.44	-3,158.22	2,963.24	4,329.55	1.14	1.14	-0.06
9,757.00	89.23	134.76	4,824.58	-3,225.20	3,030.60	4,424.54	1.45	-1.44	-0.17
9,852.00	88.76	133.69	4,826.25	-3,291.45	3,098.67	4,519.50	1.23	-0.49	-1.13
9,947.00	90.57	134.36	4,826.80	-3,357.47	3,166.97	4,614.46	2.03	1.91	0.71
10,041.00	90.40	134.33	4,826.01	-3,423.17	3,234.19	4,708.44	0.18	-0.18	-0.03
10,136.00	88.59	133.16	4,826.84	-3,488.85	3,302.82	4,803.39	2.27	-1.91	-1.23
10,231.00	91.04	133.78	4,827.15	-3,554.20	3,371.76	4,898.32	2.66	2.58	0.65
10,326.00	90.40	133.59	4,825.96	-3,619.82	3,440.45	4,993.26	0.70	-0.67	-0.20
10,421.00	90.91	135.22	4,824.87	-3,686.28	3,508.31	5,088.24	1.80	0.54	1.72
10,515.00	92.02	135.38	4,822.47	-3,753.07	3,574.41	5,182.20	1.19	1.18	0.17
10,610.00	88.72	135.61	4,821.85	-3,820.82	3,640.99	5,277.19	3.48	-3.47	0.24
10,705.00	89.83	135.86	4,823.06	-3,888.84	3,707.29	5,372.18	1.20	1.17	0.26
10,800.00	88.69	134.22	4,824.28	-3,956.05	3,774.41	5,467.16	2.10	-1.20	-1.73
10,895.00	90.47	134.46	4,824.98	-4,022.45	3,842.35	5,562.14	1.89	1.87	0.25
10,990.00	90.97	133.59	4,823.79	-4,088.46	3,910.65	5,657.10	1.06	0.53	-0.92
11,084.00	89.19	133.16	4,823.65	-4,153.02	3,978.98	5,751.03	1.95	-1.89	-0.46
11,179.00	89.76	132.53	4,824.53	-4,217.62	4,048.63	5,845.92	0.89	0.60	-0.66
11,274.00	90.03	132.07	4,824.70	-4,281.55	4,118.89	5,940.78	0.56	0.28	-0.48
11,369.00	90.61	134.75	4,824.17	-4,346.83	4,187.90	6,035.70	2.89	0.61	2.82
11,463.00	90.77	135.11	4,823.04	-4,413.21	4,254.44	6,129.69	0.42	0.17	0.38
11,558.00	88.86	135.61	4,823.34	-4,480.80	4,321.19	6,224.69	2.08	-2.01	0.53
11,653.00	89.63	135.35	4,824.60	-4,548.53	4,387.79	6,319.68	0.86	0.81	-0.27
11,745.00	90.20	134.67	4,824.73	-4,613.60	4,452.83	6,411.67	0.96	0.62	-0.74
11,837.00	91.11	134.22	4,823.68	-4,678.01	4,518.51	6,503.65	1.10	0.99	-0.49
11,929.00	89.73	135.74	4,823.01	-4,743.04	4,583.58	6,595.64	2.23	-1.50	1.65
12,021.00	89.90	134.68	4,823.30	-4,808.33	4,648.40	6,687.64	1.17	0.18	-1.15
12,113.00	90.57	134.75	4,822.93	-4,873.06	4,713.77	6,779.63	0.73	0.73	0.08
12,205.00	90.40	133.67	4,822.15	-4,937.20	4,779.71	6,871.60	1.19	-0.18	-1.17
12,297.00	90.54	133.08	4,821.39	-5,000.39	4,846.58	6,963.53	0.66	0.15	-0.64
12,389.00	90.37	134.73	4,820.66	-5,064.18	4,912.86	7,055.49	1.80	-0.18	1.79
12,481.00	90.30	133.95	4,820.12	-5,128.48	4,978.66	7,147.47	0.85	-0.08	-0.85
12,573.00	91.21	134.36	4,818.91	-5,192.56	5,044.66	7,239.44	1.08	0.99	0.45
12,665.00	89.80	135.26	4,818.10	-5,257.39	5,109.92	7,331.42	1.82	-1.53	0.98
12,757.00	90.13	134.51	4,818.16	-5,322.31	5,175.11	7,423.42	0.89	0.36	-0.82
12,848.00	90.81	134.03	4,817.41	-5,385.83	5,240.27	7,514.39	0.91	0.75	-0.53
12,940.00	90.20	136.60	4,816.60	-5,451.24	5,304.95	7,606.38	2.87	-0.66	2.79
13,032.00	90.20	135.75	4,816.28	-5,517.61	5,368.66	7,698.37	0.92	0.00	-0.92
13,123.00	90.50	135.38	4,815.72	-5,582.59	5,432.37	7,789.37	0.52	0.33	-0.41
13,215.00	89.63	136.62	4,815.62	-5,648.76	5,496.27	7,881.36	1.65	-0.95	1.35
13,307.00	90.22	135.70	4,815.74	-5,715.12	5,559.99	7,973.36	1.19	0.64	-1.00
13,398.00	90.74	134.40	4,814.98	-5,779.52	5,624.28	8,064.35	1.54	0.57	-1.43

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #751H - Slot A3
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #751H	North Reference:	True
Wellbore:	Wellbore #2 ST	Survey Calculation Method:	Minimum Curvature
Design:	ST Actual	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)
13,490.00	91.28	136.39	4,813.35	-5,845.01	5,688.87	8,156.33	2.24	0.59	2.16
13,582.00	89.16	135.96	4,813.00	-5,911.38	5,752.57	8,248.32	2.35	-2.30	-0.47
13,673.00	89.43	134.42	4,814.12	-5,975.93	5,816.70	8,339.31	1.72	0.30	-1.69
13,765.00	89.87	134.12	4,814.68	-6,040.15	5,882.58	8,431.28	0.58	0.48	-0.33
13,857.00	90.24	137.24	4,814.59	-6,105.96	5,946.84	8,523.27	3.42	0.40	3.39
13,948.00	91.18	136.96	4,813.47	-6,172.61	6,008.79	8,614.23	1.08	1.03	-0.31
14,040.00	91.36	137.81	4,811.43	-6,240.30	6,071.06	8,706.15	0.94	0.20	0.92
14,132.00	89.66	139.11	4,810.61	-6,309.16	6,132.06	8,798.02	2.33	-1.85	1.41
14,223.00	89.23	138.11	4,811.49	-6,377.42	6,192.23	8,888.88	1.20	-0.47	-1.10
14,315.00	90.44	136.96	4,811.75	-6,445.29	6,254.34	8,980.82	1.81	1.32	-1.25
14,407.00	91.24	136.54	4,810.41	-6,512.29	6,317.37	9,072.78	0.98	0.87	-0.46
14,498.00	91.98	136.39	4,807.85	-6,578.23	6,380.02	9,163.73	0.83	0.81	-0.16
14,589.00	89.66	137.03	4,806.55	-6,644.46	6,442.41	9,254.70	2.64	-2.55	0.70
14,681.00	89.93	136.10	4,806.88	-6,711.27	6,505.66	9,346.68	1.05	0.29	-1.01
14,772.00	90.84	135.35	4,806.26	-6,776.42	6,569.18	9,437.68	1.30	1.00	-0.82
14,864.00	91.71	135.79	4,804.22	-6,842.10	6,633.57	9,529.65	1.06	0.95	0.48
14,956.00	90.37	135.26	4,802.55	-6,907.73	6,698.01	9,621.63	1.57	-1.46	-0.58
15,048.00	90.00	135.19	4,802.25	-6,973.04	6,762.81	9,713.63	0.41	-0.40	-0.08
15,140.00	90.74	134.70	4,801.66	-7,038.03	6,827.93	9,805.63	0.96	0.80	-0.53
15,231.00	89.69	134.73	4,801.31	-7,102.06	6,892.59	9,896.62	1.15	-1.15	0.03
15,323.00	87.92	131.47	4,803.23	-7,164.89	6,959.74	9,988.50	4.03	-1.92	-3.54
15,418.00	87.75	130.49	4,806.82	-7,227.15	7,031.41	10,083.14	1.05	-0.18	-1.03
15,513.00	89.13	131.41	4,809.41	-7,289.39	7,103.13	10,177.80	1.75	1.45	0.97
15,608.00	90.50	131.35	4,809.72	-7,352.19	7,174.41	10,272.55	1.44	1.44	-0.06
15,703.00	91.41	133.63	4,808.13	-7,416.34	7,244.45	10,367.40	2.58	0.96	2.40
15,797.00	91.48	132.52	4,805.76	-7,480.52	7,313.09	10,461.29	1.18	0.07	-1.18
15,892.00	91.38	131.85	4,803.39	-7,544.29	7,383.46	10,556.10	0.71	-0.11	-0.71
15,987.00	91.78	132.50	4,800.77	-7,608.05	7,453.83	10,650.90	0.80	0.42	0.68
16,082.00	91.34	131.19	4,798.19	-7,671.40	7,524.58	10,745.67	1.45	-0.46	-1.38
16,177.00	91.41	130.50	4,795.91	-7,733.51	7,596.42	10,840.33	0.73	0.07	-0.73
16,240.00	90.93	129.55	4,794.62	-7,774.02	7,644.65	10,903.03	1.69	-0.76	-1.51
RSI@ 16240' MD,									
16,261.00	90.77	129.23	4,794.31	-7,787.34	7,660.88	10,923.91	1.69	-0.76	-1.51
Last Survey Lateral									
16,315.00	90.77	129.23	4,793.58	-7,821.49	7,702.71	10,977.59	0.00	0.00	0.00
Bit Projection - BHL #751H									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
5,263.00	4,814.64	7"	7	8-3/4

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #751H - Slot A3
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #751H	North Reference:	True
Wellbore:	Wellbore #2 ST	Survey Calculation Method:	Minimum Curvature
Design:	ST Actual	Database:	Grand Junction District

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,142.00	4,049.79	501.98	-535.40	Last Survey Int.
4,174.00	4,081.79	501.95	-535.72	First Survey Curve
5,263.00	4,814.64	4.67	-90.95	7" Casing@ 5263' MD,
5,292.00	4,816.36	-16.99	-71.75	Last Survey Curve
5,387.00	4,819.24	-88.27	-9.02	First Survey Lateral
16,240.00	4,794.62	-7,774.02	7,644.65	RSI@ 16240' MD,
16,261.00	4,794.31	-7,787.34	7,660.88	Last Survey Lateral
16,315.00	4,793.58	-7,821.49	7,702.71	Bit Projection

Checked By: _____ Approved By: _____ Date: _____



W Lybrook UT #751H
T23N R9W
Northing: 1902522.35
Easting: 527447.31
ST Actual

KB @ 6721.00usft (Cyclone 32)
GL @ 6700.00

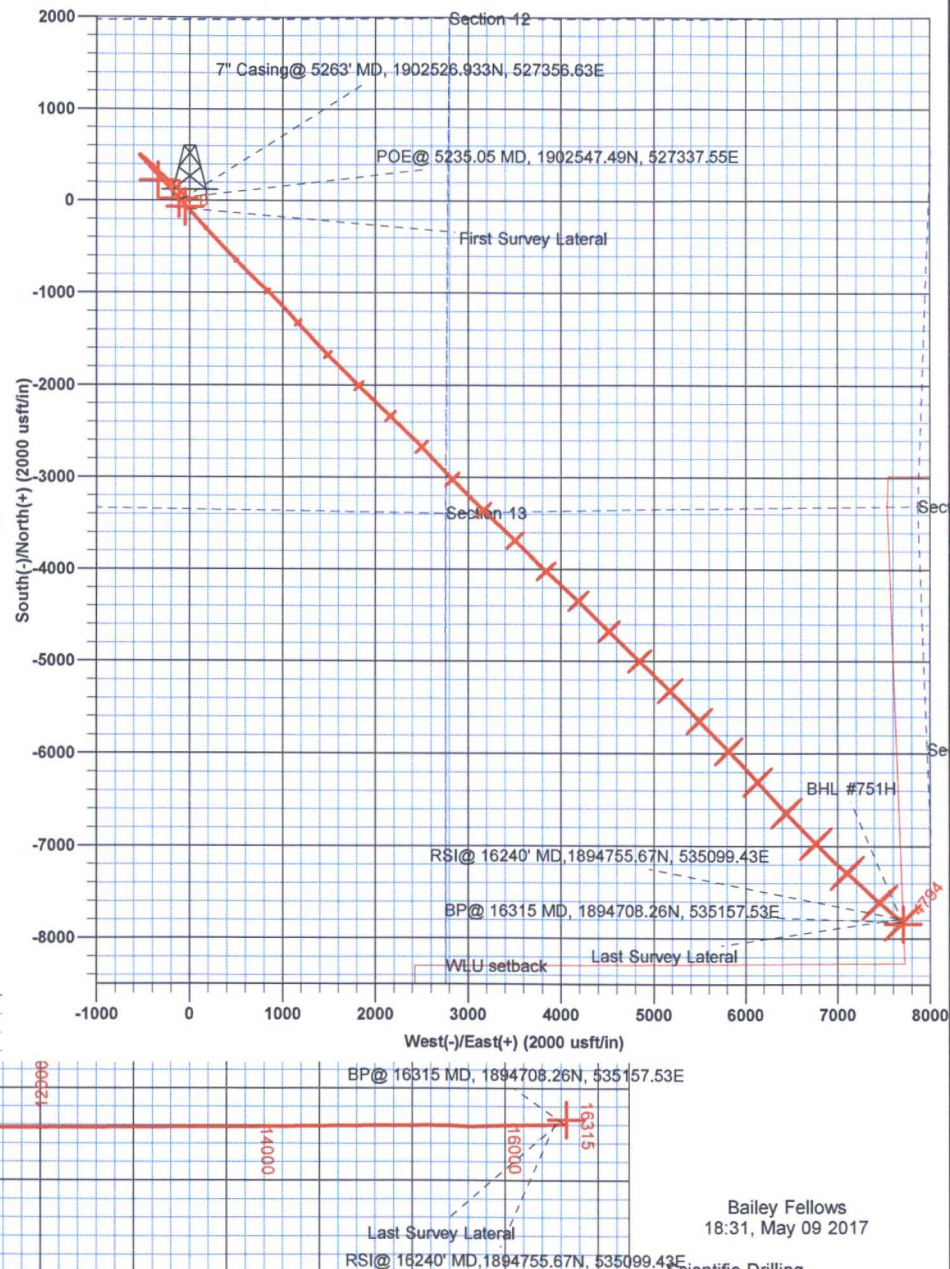
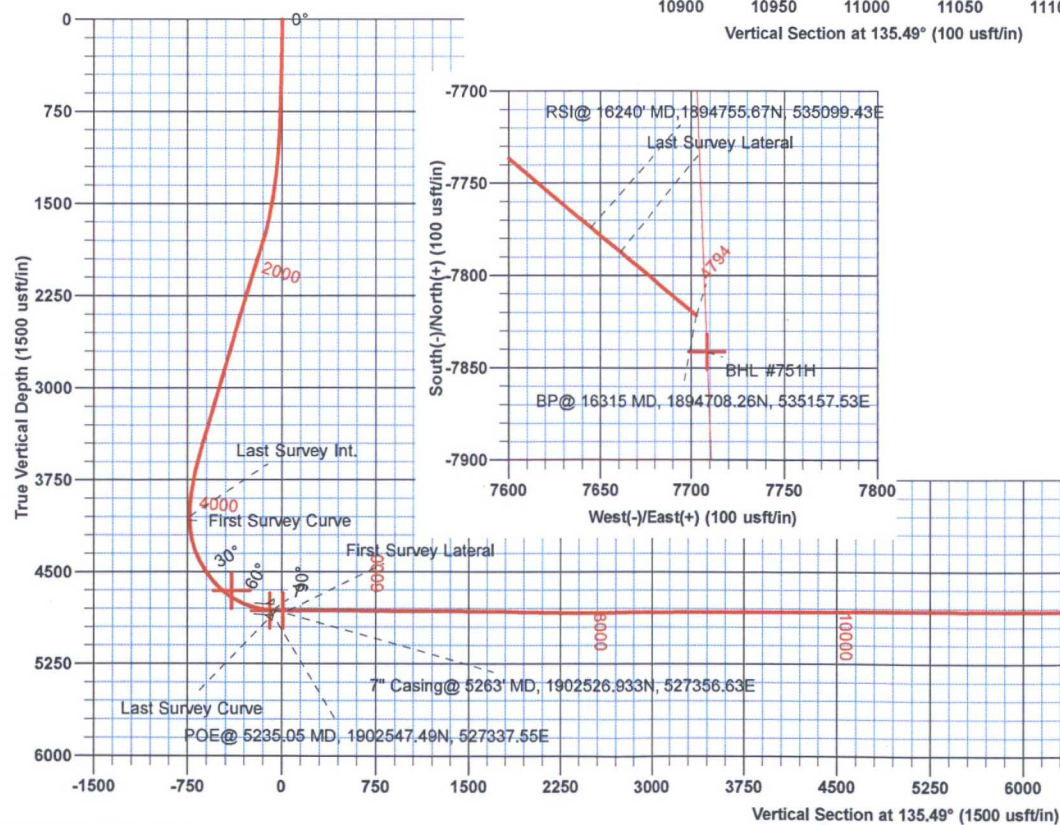
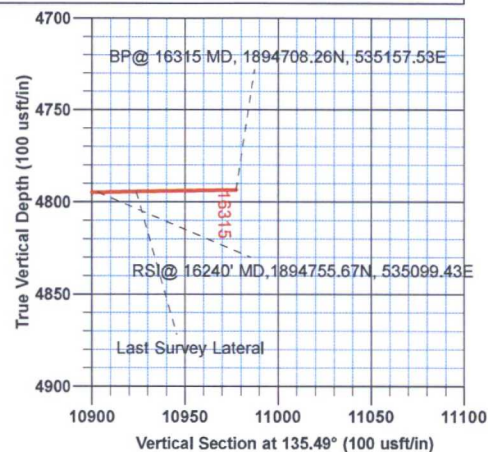


WELL DETAILS W Lybrook UT #751H

Ground Level: 6700.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1902522.35 527447.31 36° 13' 43.525 N 107° 44' 24.979 W

ANNOTATIONS

TVD	MD	Annotation
4049.79	4142.00	Last Survey Int.
4081.79	4174.00	First Survey Curve
4812.38	5235.00	POE @ 5235.05 MD, 1902547.49N, 527337.55E
4814.64	5263.00	Casing @ 5263' MD, 1902526.933N, 527356.63E
4816.36	5292.00	Last Survey Curve
4819.24	5387.00	First Survey Lateral
4794.62	16240.00	RSI @ 16240' MD, 1894755.67N, 535099.43E
4794.31	16261.00	Last Survey Lateral
4793.58	16315.00	BP @ 16315 MD, 1894708.26N, 535157.53E



Bailey Fellows
18:31, May 09 2017

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