

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

1220 South St. Francis Drive
Santa Fe, NM 87505

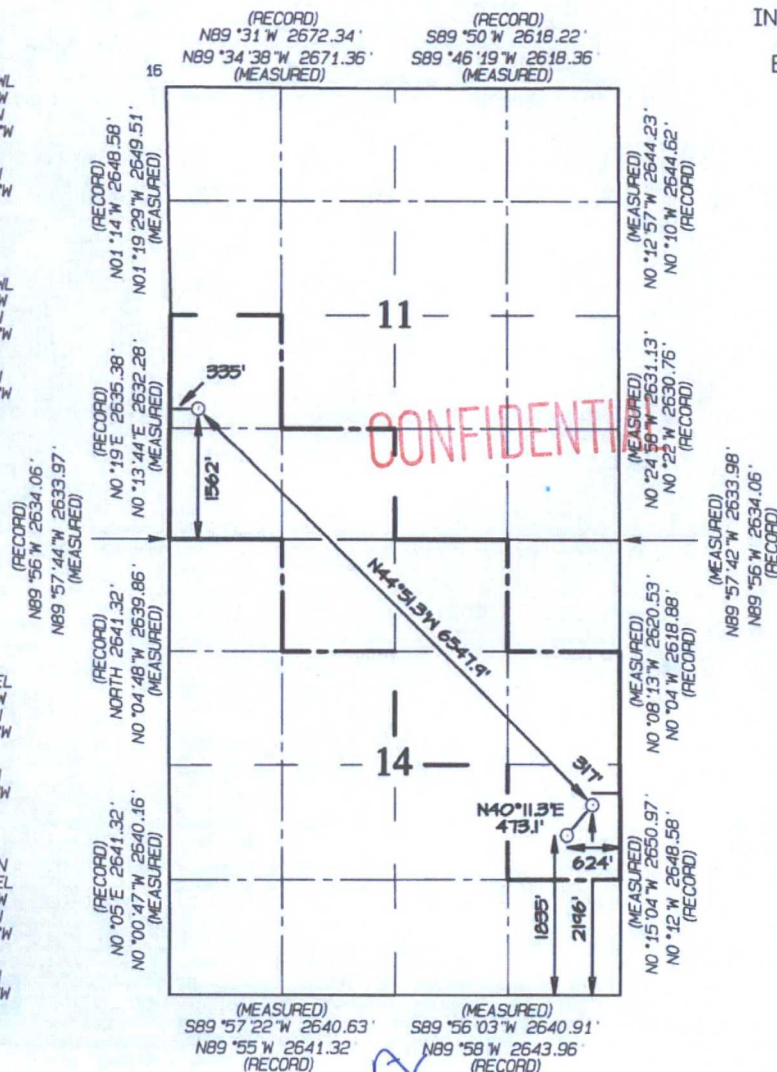
☐ AMENDED REPORT

AS DRILLED

Certificate Number 15269

SURFACE LOCATION
1835' FSL 624' FEL
SEC 14, T23N, R9W
LAT: 36.224684°N
LONG: 107.750751°W
DATUM: NAD1927

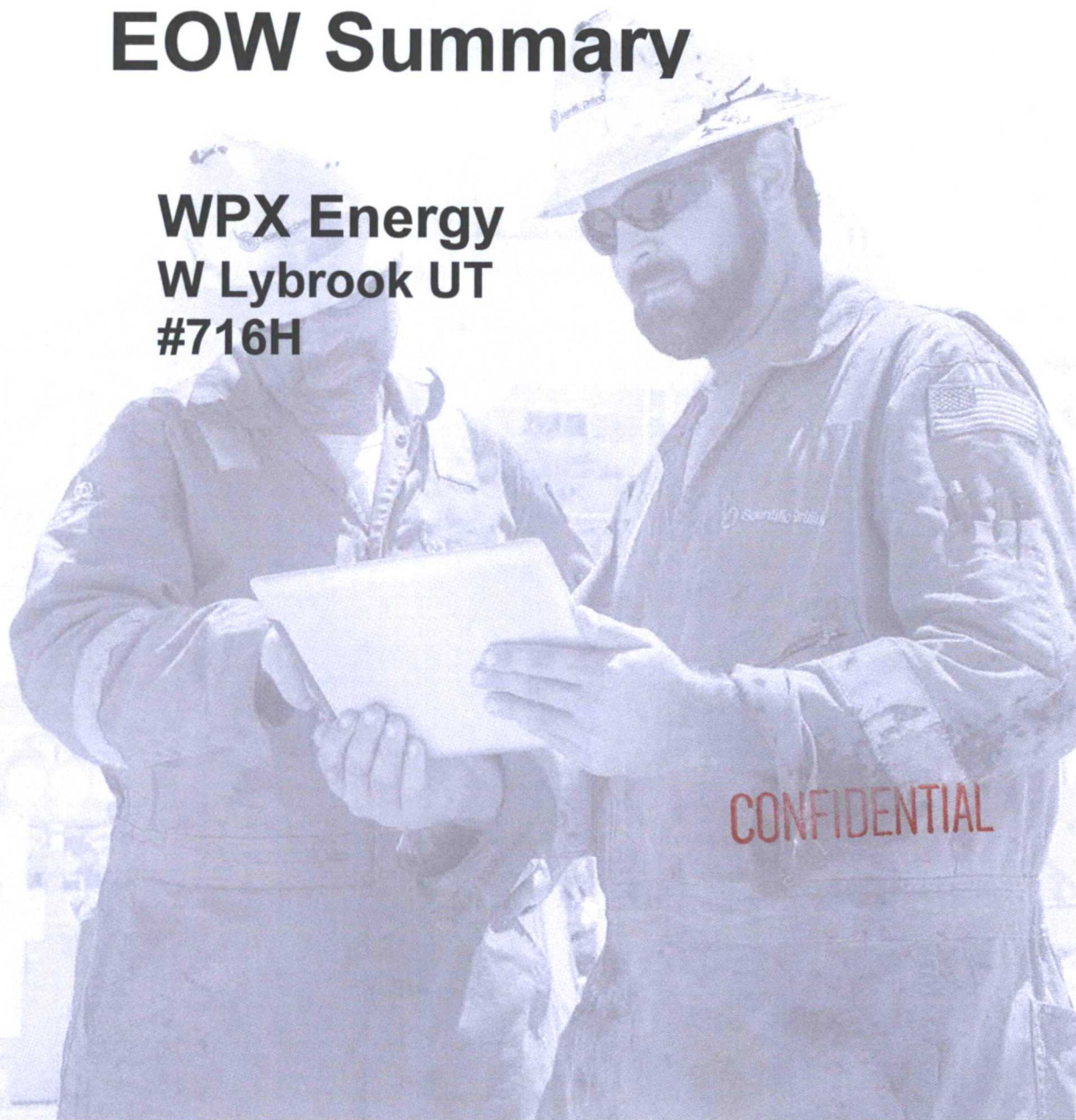
LAT: 36.224697°N
LONG: 107.751365°W
DATUM: NAD1983





EOW Summary

WPX Energy
W Lybrook UT
#716H



CONFIDENTIAL

W Lybrook UT 716H
T23N R9W
Northing: 1901036.92
Easting: 524357.92
Actual

GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
GL @ 6719.00



WELL DETAILS W Lybrook UT 716H

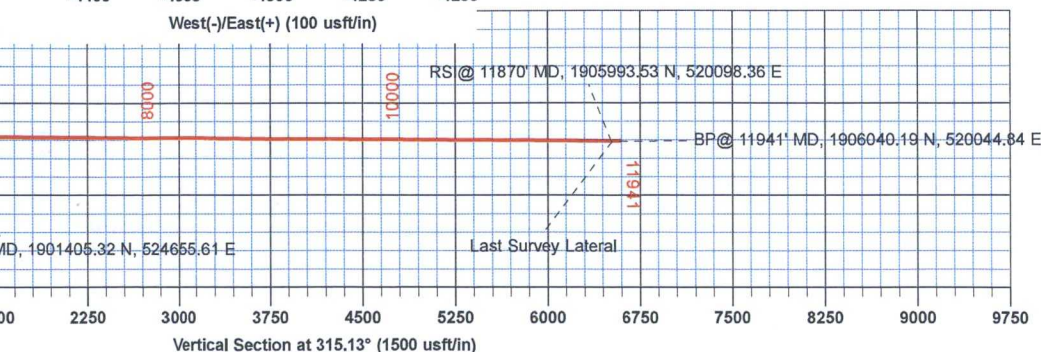
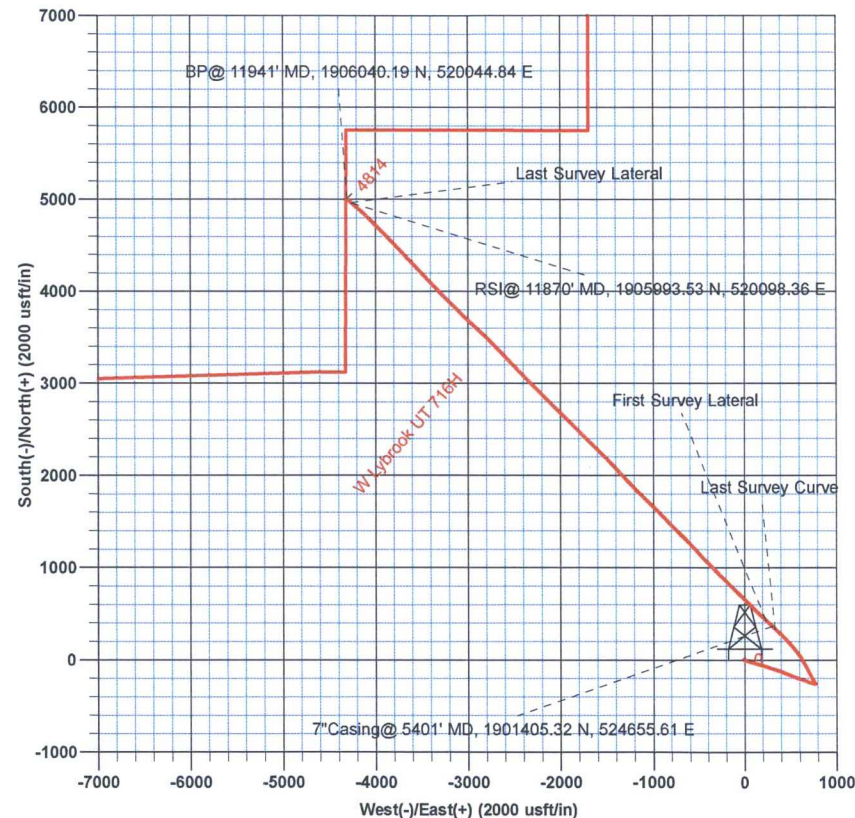
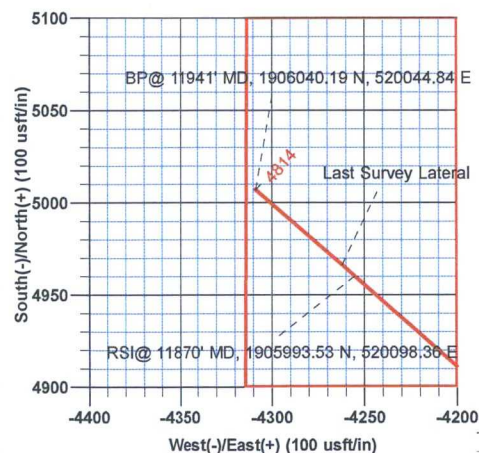
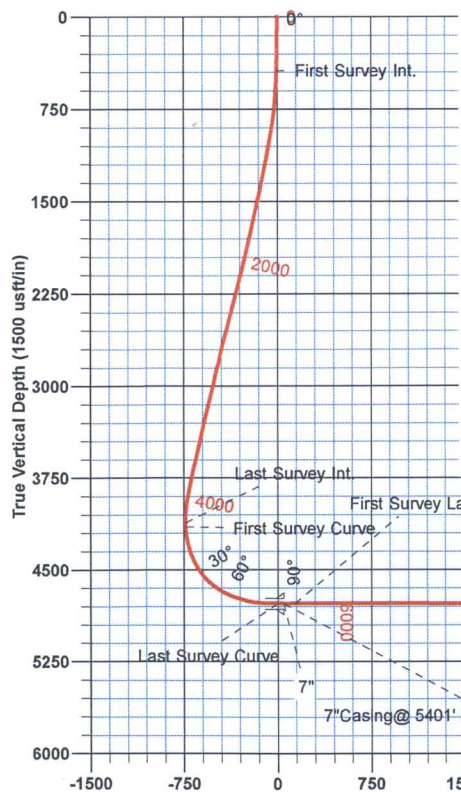
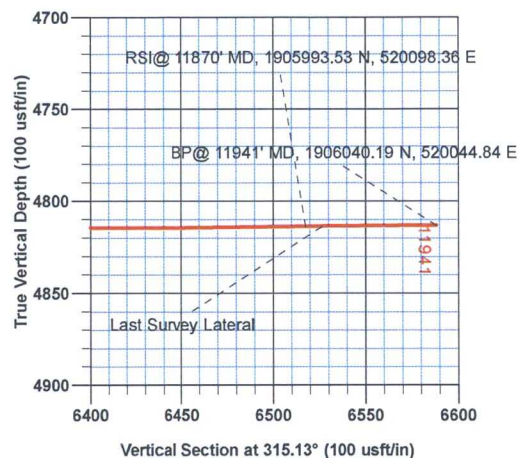
Ground Level: 6719.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1901036.92	524357.92	36.224684	-107.750751

TVD	MD	ANNOTATIONS
438.95	439.00	Annotation
4117.35	4216.00	First Survey Int.
4149.32	4248.00	Last Survey Int.
4779.75	5353.00	First Survey Curve
4779.84	5401.00	Last Survey Curve
4779.44	5488.00	7" Casing@ 5401' MD, 1901405.32 N, 524655.61 E
4814.12	11870.00	First Survey Lateral
4814.04	11879.00	Last Survey Lateral
4813.53	11941.00	BP@ 11941' MD, 1906040.19 N, 520044.84 E



Azimuths to True North
Magnetic North: 9.03°
Magnetic Field
Strength: 49661.0spT
Dip Angle: 62.85°
Date: 6/13/2017
Model: HDGM



WPX Energy

T23N R9W

W Lybrook UT 716 Pad

W Lybrook UT 716H

API: 30-045-35813

Wellbore #1

Design: Actual

Survey Report - Geographic

14 September, 2017



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT 716H
Project:	T23N R9W	TVD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Site:	W Lybrook UT 716 Pad	MD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Well:	W Lybrook UT 716H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	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		W Lybrook UT 716 Pad			
Site Position:		Northing:	1,901,036.93 usft	Latitude:	36.224684
From:	Lat/Long	Easting:	524,357.92 usft	Longitude:	-107.750751
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 °

Well	W Lybrook UT 716H					
Well Position	+N/-S	0.00 usft	Northing:	1,901,036.93 usft	Latitude:	36.224684
	+E/-W	0.00 usft	Easting:	524,357.92 usft	Longitude:	-107.750751
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,719.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/13/2017	9.03	62.85	49,661

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	315.13	

Survey Program	Date	9/14/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	309.00	Gryos (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
439.00	4,216.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,248.00	5,353.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,488.00	11,941.00	SDI MWD Lateral (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,901,036.93	524,357.92	36.224684	-107.750751
21.00	0.00	0.00	21.00	0.00	0.00	1,901,036.93	524,357.92	36.224684	-107.750751
51.00	0.45	2.89	51.00	0.12	0.01	1,901,037.04	524,357.93	36.224684	-107.750751
81.00	0.38	328.59	81.00	0.32	-0.04	1,901,037.25	524,357.88	36.224685	-107.750751
111.00	0.25	292.92	111.00	0.43	-0.15	1,901,037.36	524,357.77	36.224685	-107.750752
141.00	0.22	243.24	141.00	0.43	-0.26	1,901,037.36	524,357.66	36.224685	-107.750752
171.00	0.59	180.03	171.00	0.25	-0.32	1,901,037.18	524,357.61	36.224685	-107.750752
201.00	0.85	169.90	201.00	-0.12	-0.28	1,901,036.80	524,357.64	36.224684	-107.750752
231.00	0.93	181.47	230.99	-0.59	-0.24	1,901,036.34	524,357.68	36.224682	-107.750752

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT 716H
Project:	T23N R9W	TVD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Site:	W Lybrook UT 716 Pad	MD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Well:	W Lybrook UT 716H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
261.00	0.99	180.93	260.99	-1.09	-0.25	1,901,035.84	524,357.67	36.224681	-107.750752
291.00	1.23	181.07	290.98	-1.67	-0.26	1,901,035.26	524,357.66	36.224680	-107.750752
309.00	1.12	186.90	308.98	-2.04	-0.29	1,901,034.89	524,357.63	36.224678	-107.750752
439.00	1.14	175.41	438.95	-4.59	-0.34	1,901,032.34	524,357.59	36.224671	-107.750752
First Survey Int.									
529.00	2.13	116.44	528.92	-6.23	1.23	1,901,030.70	524,359.16	36.224667	-107.750747
620.00	4.22	111.25	619.78	-8.19	5.87	1,901,028.74	524,363.79	36.224662	-107.750731
710.00	6.24	114.63	709.40	-11.43	13.40	1,901,025.51	524,371.33	36.224653	-107.750706
801.00	8.17	109.17	799.68	-15.62	24.00	1,901,021.33	524,381.94	36.224641	-107.750670
891.00	10.00	111.15	888.54	-20.54	37.33	1,901,016.42	524,395.27	36.224628	-107.750625
982.00	10.36	106.04	978.11	-25.65	52.57	1,901,011.32	524,410.51	36.224614	-107.750573
1,072.00	11.89	105.66	1,066.42	-30.39	69.27	1,901,006.60	524,427.22	36.224601	-107.750516
1,163.00	11.64	103.89	1,155.51	-35.12	87.21	1,901,001.88	524,445.16	36.224588	-107.750456
1,254.00	12.68	108.50	1,244.47	-40.49	105.59	1,900,996.52	524,463.55	36.224573	-107.750393
1,344.00	12.64	105.02	1,332.28	-46.18	124.47	1,900,990.85	524,482.43	36.224557	-107.750329
1,435.00	14.01	101.83	1,420.83	-51.02	144.87	1,900,986.03	524,502.84	36.224544	-107.750260
1,525.00	14.03	105.49	1,508.15	-56.17	166.05	1,900,980.90	524,524.02	36.224530	-107.750188
1,616.00	14.96	108.61	1,596.25	-62.86	187.81	1,900,974.23	524,545.78	36.224511	-107.750115
1,706.00	14.36	107.04	1,683.32	-69.84	209.49	1,900,967.27	524,567.47	36.224492	-107.750041
1,797.00	14.64	109.10	1,771.42	-76.91	231.15	1,900,960.22	524,589.13	36.224473	-107.749968
1,887.00	14.19	106.32	1,858.59	-83.73	252.48	1,900,953.41	524,610.47	36.224454	-107.749895
1,978.00	14.67	106.48	1,946.72	-90.13	274.23	1,900,947.03	524,632.23	36.224436	-107.749822
2,068.00	15.14	107.61	2,033.69	-96.92	296.37	1,900,940.26	524,654.37	36.224418	-107.749746
2,159.00	15.74	106.49	2,121.41	-104.02	319.53	1,900,933.18	524,677.54	36.224398	-107.749668
2,249.00	16.62	106.06	2,207.84	-111.05	343.60	1,900,926.17	524,701.62	36.224379	-107.749586
2,340.00	16.41	111.88	2,295.09	-119.44	368.04	1,900,917.80	524,726.06	36.224356	-107.749503
2,430.00	15.71	112.10	2,381.58	-128.76	391.12	1,900,908.50	524,749.15	36.224330	-107.749425
2,521.00	15.75	111.46	2,469.17	-137.91	414.03	1,900,899.37	524,772.07	36.224305	-107.749348
2,611.00	14.05	109.09	2,556.14	-145.95	435.73	1,900,891.34	524,793.77	36.224283	-107.749274
2,702.00	14.76	112.85	2,644.29	-154.07	456.85	1,900,883.25	524,814.90	36.224261	-107.749202
2,792.00	14.32	113.42	2,731.40	-162.94	477.63	1,900,874.39	524,835.69	36.224236	-107.749132
2,883.00	15.14	110.51	2,819.41	-171.58	499.09	1,900,865.77	524,857.15	36.224213	-107.749059
2,973.00	13.92	111.00	2,906.53	-179.58	520.20	1,900,857.79	524,878.27	36.224191	-107.748988
3,064.00	14.26	111.07	2,994.79	-187.53	540.88	1,900,849.86	524,898.96	36.224169	-107.748918
3,154.00	15.19	110.35	3,081.84	-195.62	562.28	1,900,841.79	524,920.36	36.224147	-107.748845
3,249.00	14.86	110.44	3,173.59	-204.20	585.36	1,900,833.23	524,943.45	36.224123	-107.748767
3,344.00	13.66	109.14	3,265.66	-212.13	607.37	1,900,825.31	524,965.47	36.224101	-107.748692
3,440.00	13.53	108.98	3,358.97	-219.50	628.70	1,900,817.96	524,986.81	36.224081	-107.748620
3,535.00	13.83	107.45	3,451.28	-226.52	650.04	1,900,810.96	525,008.16	36.224062	-107.748547
3,630.00	13.64	108.66	3,543.56	-233.51	671.49	1,900,803.99	525,029.61	36.224043	-107.748475
3,725.00	14.81	108.26	3,635.65	-240.90	693.63	1,900,796.62	525,051.76	36.224022	-107.748400
3,820.00	13.19	108.85	3,727.82	-248.20	715.42	1,900,789.33	525,073.55	36.224002	-107.748326
3,916.00	13.49	108.75	3,821.23	-255.34	736.39	1,900,782.21	525,094.53	36.223983	-107.748255
4,011.00	11.77	104.53	3,913.93	-261.34	756.26	1,900,776.24	525,114.41	36.223966	-107.748187
4,026.00	11.03	105.25	3,928.63	-262.10	759.13	1,900,775.48	525,117.27	36.223964	-107.748178
4,057.00	9.95	104.69	3,959.12	-263.56	764.58	1,900,774.02	525,122.72	36.223960	-107.748159
4,089.00	7.81	103.05	3,990.73	-264.75	769.37	1,900,772.83	525,127.52	36.223957	-107.748143
4,121.00	5.81	93.50	4,022.50	-265.34	773.11	1,900,772.25	525,131.25	36.223955	-107.748130
4,153.00	3.94	86.21	4,054.39	-265.36	775.82	1,900,772.22	525,133.97	36.223955	-107.748121
4,184.00	1.36	107.28	4,085.35	-265.40	777.24	1,900,772.19	525,135.38	36.223955	-107.748116
4,216.00	1.21	289.30	4,117.35	-265.40	777.28	1,900,772.19	525,135.43	36.223955	-107.748116
Last Survey Int.									
4,248.00	3.57	309.94	4,149.32	-264.65	776.20	1,900,772.94	525,134.34	36.223957	-107.748120
First Survey Curve									
4,279.00	5.30	325.41	4,180.23	-262.85	774.64	1,900,774.73	525,132.79	36.223962	-107.748125

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT 716H
Project:	T23N R9W	TVD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Site:	W Lybrook UT 716 Pad	MD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Well:	W Lybrook UT 716H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,311.00	7.07	330.49	4,212.04	-259.92	772.83	1,900,777.66	525,130.98	36.223970	-107.748131
4,343.00	9.45	330.38	4,243.71	-255.93	770.57	1,900,781.66	525,128.70	36.223981	-107.748139
4,375.00	12.14	327.69	4,275.14	-250.80	767.47	1,900,786.78	525,125.60	36.223995	-107.748149
4,406.00	15.19	326.75	4,305.26	-244.64	763.50	1,900,792.93	525,121.63	36.224012	-107.748163
4,438.00	17.49	327.92	4,335.96	-237.06	758.64	1,900,800.51	525,116.77	36.224033	-107.748179
4,470.00	19.82	329.28	4,366.28	-228.32	753.32	1,900,809.25	525,111.43	36.224057	-107.748197
4,502.00	22.30	329.65	4,396.14	-218.42	747.48	1,900,819.15	525,105.59	36.224084	-107.748217
4,533.00	24.71	329.61	4,424.56	-207.75	741.23	1,900,829.81	525,099.33	36.224113	-107.748238
4,565.00	27.87	329.91	4,453.25	-195.51	734.09	1,900,842.04	525,092.18	36.224147	-107.748262
4,597.00	30.60	330.35	4,481.17	-181.96	726.31	1,900,855.59	525,084.39	36.224184	-107.748289
4,629.00	33.94	331.93	4,508.23	-166.99	718.08	1,900,870.55	525,076.14	36.224225	-107.748317
4,661.00	37.10	333.62	4,534.27	-150.46	709.58	1,900,887.07	525,067.63	36.224271	-107.748346
4,692.00	40.96	334.18	4,558.34	-132.93	701.00	1,900,904.60	525,059.03	36.224319	-107.748375
4,724.00	44.59	333.80	4,581.83	-113.40	691.47	1,900,924.11	525,049.49	36.224373	-107.748407
4,756.00	48.00	333.02	4,603.94	-92.72	681.11	1,900,944.79	525,039.11	36.224429	-107.748442
4,787.00	50.97	332.04	4,624.07	-71.82	670.24	1,900,965.68	525,028.22	36.224487	-107.748479
4,819.00	53.79	330.64	4,643.61	-49.58	658.08	1,900,987.91	525,016.04	36.224548	-107.748520
4,851.00	56.55	329.73	4,661.88	-26.79	645.02	1,901,010.68	525,002.96	36.224610	-107.748564
4,882.00	59.84	328.45	4,678.22	-4.20	631.48	1,901,033.27	524,989.41	36.224673	-107.748610
4,914.00	63.11	326.73	4,693.50	19.53	616.41	1,901,056.98	524,974.31	36.224738	-107.748661
4,946.00	65.64	325.42	4,707.34	43.47	600.31	1,901,080.91	524,958.19	36.224803	-107.748716
4,978.00	67.90	324.19	4,719.96	67.49	583.36	1,901,104.92	524,941.22	36.224869	-107.748773
5,010.00	70.84	322.85	4,731.23	91.57	565.55	1,901,128.98	524,923.39	36.224936	-107.748834
5,041.00	72.67	321.05	4,740.94	114.75	547.41	1,901,152.14	524,905.23	36.224999	-107.748895
5,073.00	73.28	318.11	4,750.31	138.04	527.57	1,901,175.42	524,885.37	36.225063	-107.748963
5,105.00	75.68	316.77	4,758.87	160.75	506.71	1,901,198.11	524,864.50	36.225126	-107.749033
5,136.00	78.12	316.57	4,765.90	182.71	486.00	1,901,220.05	524,843.76	36.225186	-107.749104
5,168.00	81.49	316.54	4,771.56	205.57	464.34	1,901,242.89	524,822.09	36.225249	-107.749177
5,232.00	87.62	315.91	4,777.63	251.55	420.29	1,901,288.84	524,777.99	36.225375	-107.749326
5,263.00	88.76	314.34	4,778.61	273.51	398.42	1,901,310.77	524,756.11	36.225435	-107.749400
5,327.00	89.50	313.24	4,779.58	317.79	352.23	1,901,355.02	524,709.88	36.225557	-107.749557
5,353.00	89.76	313.00	4,779.75	335.56	333.25	1,901,372.77	524,690.89	36.225606	-107.749621
Last Survey Curve									
5,390.80	89.97	312.59	4,779.84	361.24	305.52	1,901,398.43	524,663.13	36.225676	-107.749715
716H POE									
5,401.00	90.02	312.48	4,779.84	368.14	298.00	1,901,405.32	524,655.61	36.225695	-107.749741
7"Casing@ 5401' MD, 1901405.32 N, 524655.61 E - 7"									
5,488.00	90.50	311.54	4,779.44	426.36	233.36	1,901,463.49	524,590.92	36.225855	-107.749960
First Survey Lateral									
5,583.00	90.30	314.37	4,778.78	491.09	163.84	1,901,528.16	524,521.34	36.226033	-107.750196
5,678.00	90.60	315.93	4,778.03	558.44	96.84	1,901,595.44	524,454.29	36.226218	-107.750423
5,773.00	90.40	315.41	4,777.20	626.39	30.46	1,901,663.34	524,387.85	36.226405	-107.750648
5,869.00	89.36	312.58	4,777.40	693.06	-38.59	1,901,729.96	524,318.74	36.226588	-107.750882
5,964.00	90.13	313.76	4,777.83	758.06	-107.88	1,901,794.89	524,249.40	36.226767	-107.751117
6,059.00	90.07	314.85	4,777.66	824.41	-175.86	1,901,861.19	524,181.36	36.226949	-107.751348
6,154.00	90.88	314.53	4,776.87	891.22	-243.40	1,901,927.94	524,113.77	36.227132	-107.751576
6,249.00	89.73	313.51	4,776.37	957.23	-311.71	1,901,993.89	524,045.40	36.227314	-107.751808
6,344.00	88.22	316.16	4,778.07	1,024.19	-379.06	1,902,060.80	523,977.99	36.227498	-107.752036
6,439.00	90.30	317.26	4,779.29	1,093.33	-444.19	1,902,129.88	523,912.80	36.227688	-107.752257
6,534.00	89.23	316.09	4,779.68	1,162.44	-509.37	1,902,198.93	523,847.56	36.227877	-107.752478
6,629.00	89.40	315.34	4,780.82	1,230.44	-575.69	1,902,266.88	523,781.18	36.228064	-107.752703
6,724.00	89.33	314.22	4,781.87	1,297.35	-643.12	1,902,333.73	523,713.69	36.228248	-107.752932
6,819.00	90.77	315.85	4,781.79	1,364.57	-710.25	1,902,400.89	523,646.51	36.228433	-107.753159
6,914.00	90.70	314.78	4,780.57	1,432.10	-777.05	1,902,468.37	523,579.65	36.228618	-107.753386

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT 716H
Project:	T23N R9W	TVD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Site:	W Lybrook UT 716 Pad	MD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Well:	W Lybrook UT 716H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,010.00	89.90	316.78	4,780.07	1,500.90	-844.00	1,902,537.11	523,512.65	36.228807	-107.753613
7,105.00	90.50	315.95	4,779.74	1,569.65	-909.55	1,902,605.81	523,447.03	36.228996	-107.753835
7,200.00	89.83	314.29	4,779.46	1,636.97	-976.58	1,902,673.06	523,379.94	36.229181	-107.754062
7,295.00	89.16	315.23	4,780.30	1,703.86	-1,044.03	1,902,739.89	523,312.44	36.229365	-107.754291
7,391.00	88.62	313.43	4,782.16	1,770.92	-1,112.69	1,902,806.90	523,243.72	36.229549	-107.754524
7,482.00	89.60	316.45	4,783.57	1,835.19	-1,177.09	1,902,871.11	523,179.27	36.229726	-107.754742
7,573.00	90.44	316.13	4,783.54	1,900.97	-1,239.97	1,902,936.84	523,116.33	36.229906	-107.754956
7,664.00	89.09	317.47	4,783.92	1,967.30	-1,302.26	1,903,003.12	523,053.99	36.230088	-107.755167
7,755.00	89.83	317.07	4,784.77	2,034.14	-1,364.00	1,903,069.90	522,992.18	36.230272	-107.755376
7,846.00	89.16	316.70	4,785.58	2,100.56	-1,426.20	1,903,136.28	522,929.94	36.230455	-107.755587
7,938.00	88.69	315.41	4,787.30	2,166.79	-1,490.03	1,903,202.45	522,866.05	36.230637	-107.755803
8,029.00	89.83	316.09	4,788.48	2,231.97	-1,553.52	1,903,267.57	522,802.50	36.230816	-107.756019
8,119.00	89.73	314.81	4,788.82	2,296.10	-1,616.66	1,903,331.65	522,739.31	36.230992	-107.756233
8,210.00	89.56	313.85	4,789.39	2,359.69	-1,681.75	1,903,395.19	522,674.16	36.231166	-107.756453
8,299.00	89.83	315.11	4,789.86	2,422.05	-1,745.25	1,903,457.49	522,610.61	36.231338	-107.756669
8,388.00	89.46	314.03	4,790.41	2,484.51	-1,808.65	1,903,519.89	522,547.16	36.231509	-107.756884
8,478.00	90.57	316.15	4,790.39	2,548.24	-1,872.18	1,903,583.57	522,483.57	36.231684	-107.757099
8,569.00	89.43	313.81	4,790.39	2,612.56	-1,936.55	1,903,647.84	522,419.15	36.231861	-107.757317
8,659.00	89.10	316.07	4,791.54	2,676.12	-2,000.24	1,903,711.34	522,355.40	36.232036	-107.757533
8,749.00	88.63	315.18	4,793.33	2,740.44	-2,063.17	1,903,775.61	522,292.41	36.232212	-107.757747
8,840.00	88.82	314.47	4,795.35	2,804.57	-2,127.70	1,903,839.69	522,227.83	36.232388	-107.757966
8,931.00	88.96	313.41	4,797.11	2,867.70	-2,193.21	1,903,902.76	522,162.27	36.232562	-107.758188
9,022.00	89.63	316.22	4,798.23	2,931.83	-2,257.75	1,903,966.84	522,097.67	36.232738	-107.758407
9,112.00	90.27	316.37	4,798.31	2,996.89	-2,319.94	1,904,031.84	522,035.43	36.232917	-107.758618
9,202.00	90.20	315.54	4,797.94	3,061.58	-2,382.51	1,904,096.48	521,972.81	36.233094	-107.758830
9,291.00	90.13	315.17	4,797.69	3,124.90	-2,445.05	1,904,159.75	521,910.21	36.233268	-107.759042
9,382.00	90.17	314.35	4,797.45	3,188.98	-2,509.66	1,904,223.77	521,845.54	36.233444	-107.759261
9,471.00	90.13	317.53	4,797.21	3,252.93	-2,571.55	1,904,287.66	521,783.60	36.233620	-107.759471
9,562.00	89.63	317.00	4,797.41	3,319.77	-2,633.30	1,904,354.45	521,721.79	36.233804	-107.759680
9,652.00	89.63	316.49	4,797.99	3,385.31	-2,694.97	1,904,419.94	521,660.07	36.233984	-107.759889
9,743.00	89.50	315.32	4,798.68	3,450.67	-2,758.29	1,904,485.24	521,596.69	36.234163	-107.760104
9,834.00	89.19	313.32	4,799.72	3,514.24	-2,823.39	1,904,548.76	521,531.54	36.234338	-107.760325
9,925.00	89.50	313.29	4,800.76	3,576.65	-2,889.61	1,904,611.11	521,465.27	36.234509	-107.760549
10,016.00	89.50	311.95	4,801.55	3,638.26	-2,956.57	1,904,672.67	521,398.26	36.234679	-107.760776
10,106.00	89.80	315.93	4,802.10	3,700.70	-3,021.36	1,904,735.05	521,333.41	36.234850	-107.760996
10,197.00	89.73	315.10	4,802.48	3,765.62	-3,085.12	1,904,799.92	521,269.59	36.235028	-107.761212
10,288.00	89.53	314.27	4,803.06	3,829.61	-3,149.82	1,904,863.86	521,204.84	36.235204	-107.761432
10,379.00	89.03	315.60	4,804.21	3,893.88	-3,214.23	1,904,928.07	521,140.37	36.235381	-107.761650
10,469.00	89.40	315.20	4,805.44	3,957.96	-3,277.42	1,904,992.09	521,077.13	36.235557	-107.761864
10,559.00	88.99	318.69	4,806.70	4,023.70	-3,338.85	1,905,057.78	521,015.65	36.235737	-107.762073
10,650.00	89.30	317.37	4,808.06	4,091.35	-3,399.69	1,905,125.38	520,954.74	36.235923	-107.762279
10,745.00	89.87	316.71	4,808.75	4,160.87	-3,464.43	1,905,194.85	520,889.94	36.236114	-107.762499
10,840.00	90.20	316.28	4,808.69	4,229.78	-3,529.83	1,905,263.70	520,824.49	36.236303	-107.762720
10,935.00	90.17	316.11	4,808.39	4,298.34	-3,595.59	1,905,332.20	520,758.67	36.236492	-107.762943
11,030.00	90.47	316.22	4,807.86	4,366.86	-3,661.39	1,905,400.67	520,692.82	36.236680	-107.763167
11,125.00	89.09	316.69	4,808.22	4,435.72	-3,726.83	1,905,469.47	520,627.31	36.236869	-107.763389
11,220.00	89.23	316.39	4,809.61	4,504.67	-3,792.17	1,905,538.36	520,561.91	36.237058	-107.763610
11,315.00	89.50	316.21	4,810.67	4,573.35	-3,857.80	1,905,606.99	520,496.23	36.237247	-107.763833
11,410.00	89.90	316.05	4,811.16	4,641.83	-3,923.64	1,905,675.42	520,430.33	36.237435	-107.764056
11,505.00	90.07	315.75	4,811.19	4,710.05	-3,989.75	1,905,743.58	520,364.16	36.237623	-107.764280
11,600.00	88.62	313.98	4,812.27	4,777.06	-4,057.07	1,905,810.53	520,296.78	36.237807	-107.764509
11,695.00	88.56	313.43	4,814.61	4,842.68	-4,125.73	1,905,876.09	520,228.07	36.237987	-107.764741
11,790.00	90.87	311.99	4,815.08	4,907.11	-4,195.53	1,905,940.46	520,158.22	36.238164	-107.764978
11,870.00	90.51	311.22	4,814.12	4,960.23	-4,255.34	1,905,993.53	520,098.36	36.238310	-107.765181

RSI@ 11870' MD, 1905993.53 N, 520098.36 E

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT 716H
Project:	T23N R9W	TVD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Site:	W Lybrook UT 716 Pad	MD Reference:	GL 6719 + KB 21 = @ 6740.00usft (Cyclone 32)
Well:	W Lybrook UT 716H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,879.00	90.47	311.13	4,814.04	4,966.15	-4,262.12	1,905,999.45	520,091.58	36.238326	-107.765204
Last Survey Lateral									
11,927.74	90.47	311.13	4,813.64	4,998.21	-4,298.83	1,906,031.47	520,054.84	36.238414	-107.765328
716H BHL									
11,941.00	90.47	311.13	4,813.53	5,006.93	-4,308.81	1,906,040.19	520,044.84	36.238438	-107.765362
BP@ 11941' MD, 1906040.19 N, 520044.84 E									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
5,401.00	4,779.84	7"	7	8-3/4

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
439.00	438.95	-4.59	-0.34	First Survey Int.
4,216.00	4,117.35	-265.40	777.28	Last Survey Int.
4,248.00	4,149.32	-264.65	776.20	First Survey Curve
5,353.00	4,779.75	335.56	333.25	Last Survey Curve
5,401.00	4,779.84	368.14	298.00	7"Casing@ 5401' MD, 1901405.32 N, 524655.61 E
5,488.00	4,779.44	426.36	233.36	First Survey Lateral
11,870.00	4,814.12	4,960.23	-4,255.34	RSI@ 11870' MD, 1905993.53 N, 520098.36 E
11,879.00	4,814.04	4,966.15	-4,262.12	Last Survey Lateral
11,941.00	4,813.53	5,006.93	-4,308.81	BP@ 11941' MD, 1906040.19 N, 520044.84 E

Checked By: _____	Approved By: _____	Date: _____
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