

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 30-045-35741		*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT		*Well Number 709H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6733'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
P	12	23N	9W		836	SOUTH	461	EAST	SAN JUAN

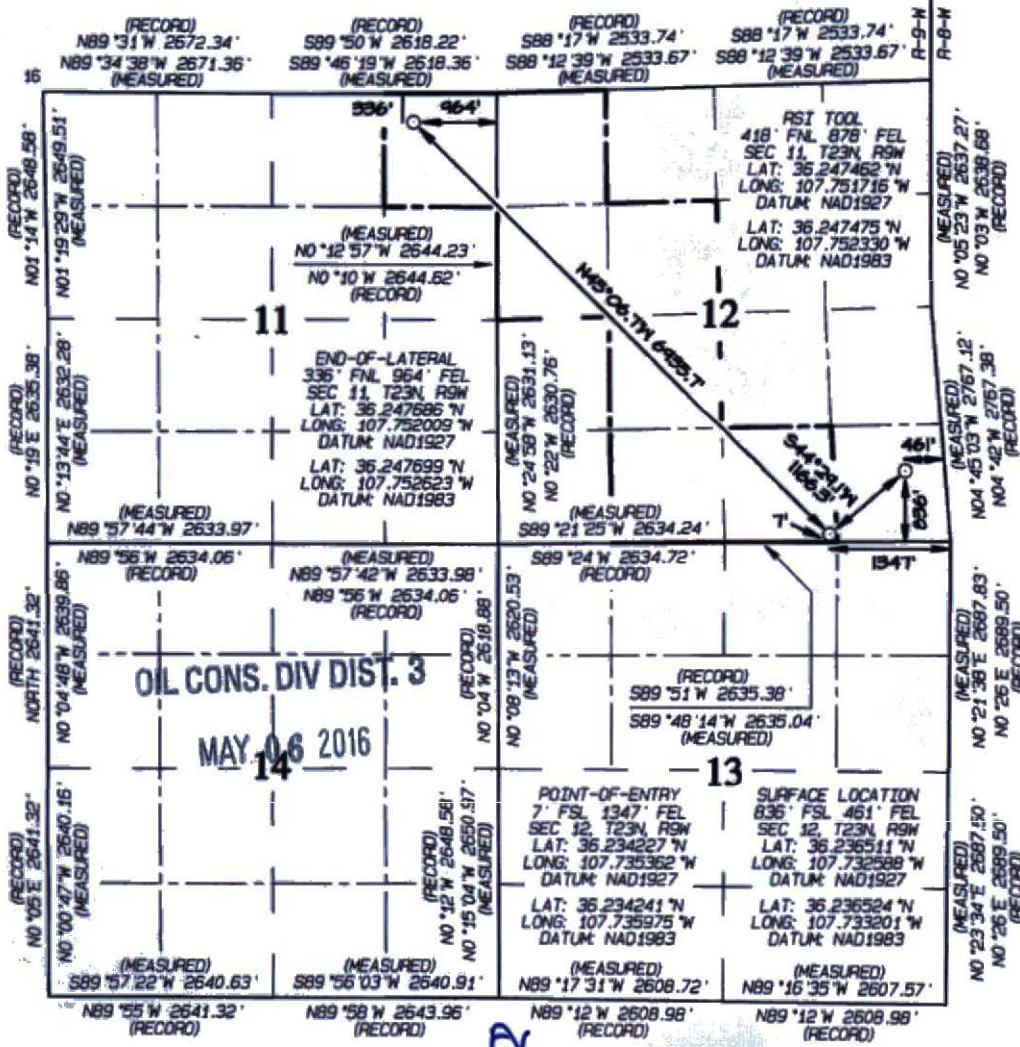
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
A	11	23N	9W		336	NORTH	964	EAST	SAN JUAN

*Dedicated Acres 280.0	NE/4 NE/4 (Section 11) NW/4 NW/4, S/2 NW/4 E/2 SW/4, SW/4 SE/4 (Section 12)	*Joint or Infill	*Consolidation Code	*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 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: 5/5/16

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 9, 2016
Date of Survey: MAY 18, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

WPXENERGYSM



WPX Energy

T23N R9W

W Lybrook 2309-12P

W Lybrook UT #709H - Slot A2

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

07 March, 2016



Scientific Drilling

www.scientificdrilling.com



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Company Name: WPX Energy
 Project: T23N R9W
 Site: W Lybrook 2309-12P
 Well: W Lybrook UT #709H

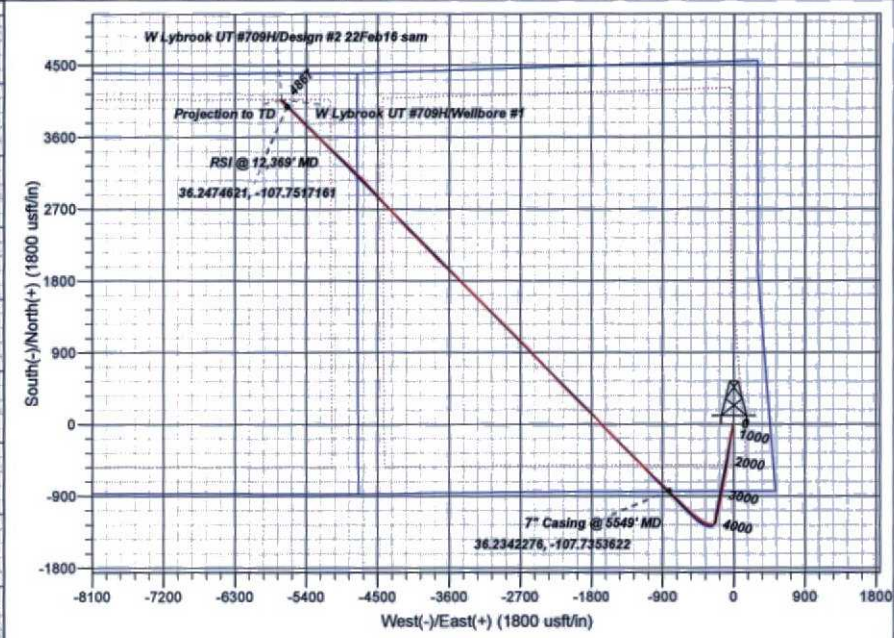
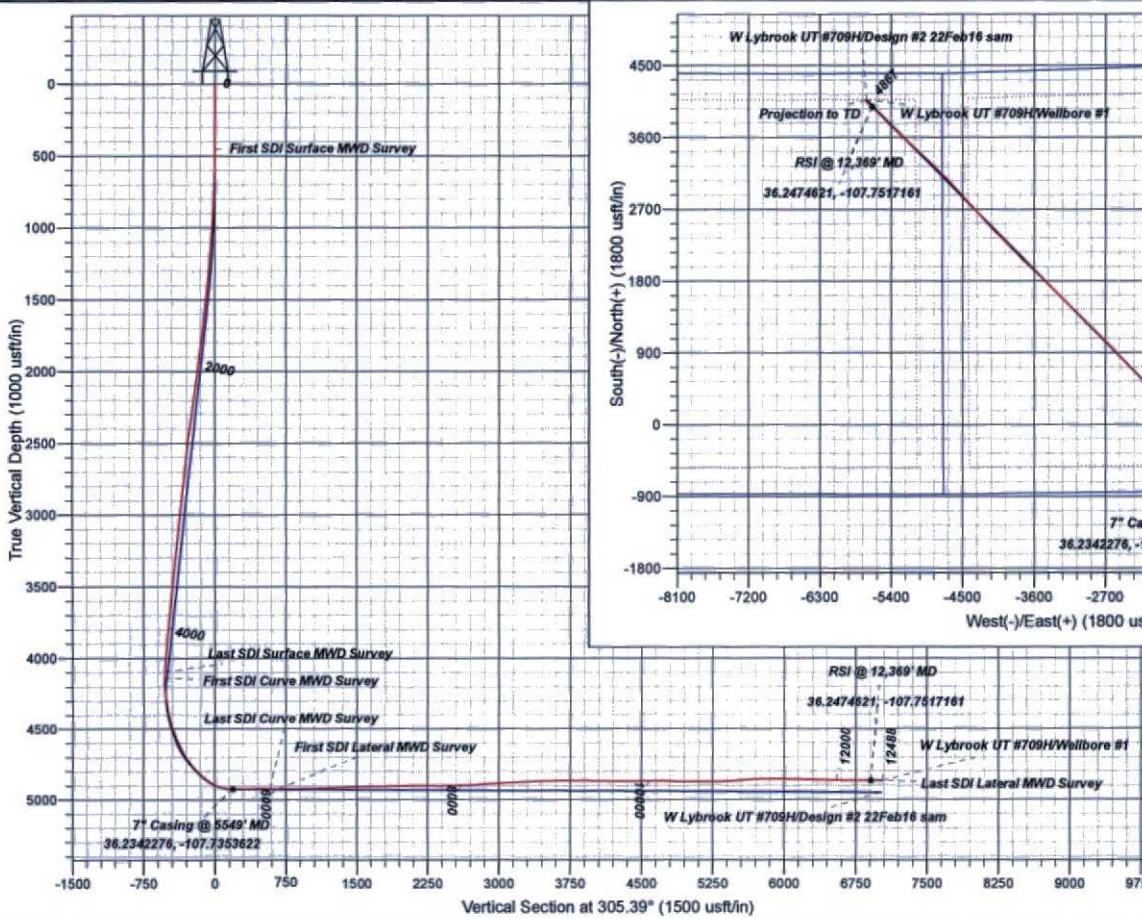


Azimuths to True North
 Magnetic North: 9.13°

Magnetic Field
 Strength: 49809.5nT
 Dip Angle: 62.88°
 Date: 2/22/2016
 Model: HDGM

WELL DETAILS: W Lybrook UT #709H

+N/-S	+E/-W	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)	6733.00
0.00	0.00	Northing	Longitude
		1905347.21	529710.62
		Easting	Latitude
		36.2365111	-107.7325882
		A2	



Design: Wellbore #1 (W Lybrook UT #709H/Wellbore #1)
Created By: Janie Collins Date: 10:32, March 07 2016
PROJECT DETAILS: T23N R9W
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



Company: WPX Energy	Local Co-ordinate Reference: Well W Lybrook UT #709H - Slot A2
Project: T23N R9W	TVD Reference: GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Site: W Lybrook 2309-12P	MD Reference: GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Well: W Lybrook UT #709H	North Reference: True
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	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 2309-12P		
Site Position:	Northing: 1,905,338.99 usft	Latitude: 36.2364886
From: Map	Easting: 529,692.39 usft	Longitude: -107.7326501
Position Uncertainty: 0.00 usft	Slot Radius: 13.20 in	Grid Convergence: 0.06 °

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Well W Lybrook UT #709H - Slot A2			
Well Position	+N/-S 0.00 usft	Northing: 1,905,347.21 usft	Latitude: 36.2365111
	+E/-W 0.00 usft	Easting: 529,710.62 usft	Longitude: -107.7325882
Position Uncertainty 0.00 usft	Wellhead Elevation: 0.00 usft	Ground Level: 6,733.00 usft	

Wellbore Wellbore #1					
Magnetics	Model Name HDGM	Sample Date 2/22/2016	Declination (°) 9.13	Dip Angle (°) 62.88	Field Strength (nT) 49,810

Design Wellbore #1				
Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.00		
Vertical Section:	Depth From (TVD) (usft) 0.00	+N/-S (usft) 0.00	+E/-W (usft) 0.00	Direction (°) 305.39

Survey Program	Date 3/7/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
55.00	302.00	Surface Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
451.00	4,318.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD	SDI MWD - Standard ver 1.0.1
4,364.00	5,949.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1
6,040.00	12,488.00	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	1,905,347.21	529,710.62	36.2365111	-107.7325882
55.00	0.26	86.85	55.00	0.01	0.12	1,905,347.22	529,710.75	36.2365111	-107.7325878
85.00	0.14	79.89	85.00	0.02	0.23	1,905,347.23	529,710.85	36.2365111	-107.7325875
115.00	0.18	225.05	115.00	-0.01	0.23	1,905,347.20	529,710.85	36.2365111	-107.7325875
145.00	0.52	124.62	145.00	-0.12	0.31	1,905,347.09	529,710.93	36.2365108	-107.7325872
175.00	0.42	141.63	175.00	-0.28	0.49	1,905,346.93	529,711.11	36.2365103	-107.7325866
205.00	0.57	168.49	205.00	-0.52	0.59	1,905,346.70	529,711.21	36.2365097	-107.7325863
235.00	0.67	180.19	235.00	-0.84	0.62	1,905,346.38	529,711.24	36.2365088	-107.7325862
265.00	0.77	210.35	264.99	-1.19	0.52	1,905,346.03	529,711.14	36.2365078	-107.7325865

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #709H - Slot A2
Project:	T23N R9W	TVD Reference:	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Site:	W Lybrook 2309-12P	MD Reference:	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Well:	W Lybrook UT #709H	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
295.00	0.79	225.34	294.99	-1.51	0.27	1,905,345.71	529,710.89	36.2365069	-107.7325873
302.00	0.81	224.14	301.99	-1.58	0.20	1,905,345.64	529,710.82	36.2365068	-107.7325876
451.00	1.74	198.20	450.95	-4.48	-1.24	1,905,342.73	529,709.38	36.2364988	-107.7325925
First SDI Surface MWD Survey									
542.00	2.95	187.85	541.87	-8.11	-1.99	1,905,339.10	529,708.64	36.2364888	-107.7325950
633.00	4.67	187.38	632.67	-14.11	-2.79	1,905,333.10	529,707.85	36.2364723	-107.7325977
724.00	6.62	189.49	723.22	-22.96	-4.13	1,905,324.25	529,706.52	36.2364480	-107.7326023
815.00	8.92	192.26	813.38	-35.02	-6.49	1,905,312.18	529,704.16	36.2364149	-107.7326103
906.00	10.98	191.91	903.01	-50.40	-9.78	1,905,296.80	529,700.89	36.2363726	-107.7326214
997.00	13.05	190.76	992.01	-68.98	-13.49	1,905,278.22	529,697.21	36.2363216	-107.7326340
1,087.00	14.38	191.48	1,079.44	-89.91	-17.61	1,905,257.28	529,693.11	36.2362641	-107.7326480
1,178.00	16.25	191.87	1,167.21	-113.45	-22.48	1,905,233.74	529,688.26	36.2361994	-107.7326645
1,269.00	17.30	191.26	1,254.33	-139.18	-27.74	1,905,208.01	529,683.03	36.2361287	-107.7326823
1,360.00	19.00	190.62	1,340.80	-167.01	-33.11	1,905,180.17	529,677.66	36.2360523	-107.7327005
1,451.00	20.78	190.60	1,426.37	-197.44	-38.81	1,905,149.73	529,672.02	36.2359687	-107.7327198
1,542.00	20.44	189.32	1,511.55	-228.99	-44.35	1,905,118.18	529,666.51	36.2358820	-107.7327386
1,632.00	21.30	187.95	1,595.64	-260.68	-49.16	1,905,086.48	529,661.73	36.2357950	-107.7327549
1,723.00	21.05	187.58	1,680.50	-293.25	-53.60	1,905,053.90	529,657.33	36.2357055	-107.7327700
1,814.00	21.03	186.37	1,765.43	-325.68	-57.57	1,905,021.47	529,653.39	36.2356164	-107.7327835
1,906.00	22.17	186.26	1,850.97	-359.34	-61.29	1,904,987.81	529,649.70	36.2355239	-107.7327961
1,997.00	22.47	189.39	1,935.16	-393.57	-66.00	1,904,953.58	529,645.03	36.2354299	-107.7328121
2,088.00	22.77	187.86	2,019.16	-428.17	-71.25	1,904,918.97	529,639.82	36.2353348	-107.7328298
2,178.00	23.64	188.83	2,101.87	-463.25	-76.40	1,904,883.88	529,634.70	36.2352385	-107.7328473
2,269.00	24.86	188.89	2,184.84	-500.18	-82.16	1,904,846.95	529,628.98	36.2351370	-107.7328668
2,360.00	25.95	189.03	2,267.04	-538.75	-88.24	1,904,808.38	529,622.94	36.2350311	-107.7328874
2,451.00	25.87	189.46	2,348.89	-577.99	-94.63	1,904,769.12	529,616.60	36.2349233	-107.7329091
2,542.00	25.22	191.01	2,431.00	-616.61	-101.59	1,904,730.50	529,609.67	36.2348172	-107.7329327
2,633.00	23.51	193.49	2,513.89	-653.29	-109.53	1,904,693.81	529,601.77	36.2347164	-107.7329596
2,724.00	21.51	190.92	2,597.96	-687.33	-116.92	1,904,659.77	529,594.41	36.2346229	-107.7329847
2,815.00	20.34	190.05	2,682.96	-719.28	-122.85	1,904,627.81	529,588.52	36.2345351	-107.7330048
2,906.00	20.36	190.48	2,768.28	-750.42	-128.48	1,904,596.66	529,582.92	36.2344496	-107.7330239
2,997.00	20.31	189.57	2,853.61	-781.56	-133.99	1,904,565.52	529,577.44	36.2343640	-107.7330426
3,088.00	21.50	190.86	2,938.61	-813.51	-139.76	1,904,533.56	529,571.71	36.2342763	-107.7330621
3,179.00	21.64	190.20	3,023.24	-846.40	-145.87	1,904,500.66	529,565.63	36.2341859	-107.7330829
3,270.00	21.90	189.88	3,107.75	-879.63	-151.75	1,904,467.42	529,559.78	36.2340946	-107.7331028
3,362.00	21.96	188.67	3,193.09	-913.54	-157.29	1,904,433.51	529,554.28	36.2340014	-107.7331216
3,453.00	21.62	190.59	3,277.59	-946.84	-162.94	1,904,400.20	529,548.67	36.2339100	-107.7331407
3,544.00	20.83	192.44	3,362.42	-979.12	-169.50	1,904,367.91	529,542.14	36.2338213	-107.7331630
3,635.00	21.85	193.22	3,447.18	-1,011.41	-176.86	1,904,335.62	529,534.81	36.2337326	-107.7331879
3,726.00	20.60	193.71	3,532.01	-1,043.45	-184.53	1,904,303.57	529,527.18	36.2336446	-107.7332139
3,817.00	21.23	193.38	3,617.01	-1,075.03	-192.14	1,904,271.98	529,519.60	36.2335578	-107.7332397
3,909.00	21.16	193.17	3,702.79	-1,107.40	-199.77	1,904,239.60	529,512.00	36.2334689	-107.7332656
4,000.00	20.70	191.10	3,787.78	-1,139.18	-206.61	1,904,207.82	529,505.19	36.2333816	-107.7332888
4,091.00	17.72	189.22	3,873.71	-1,168.64	-211.93	1,904,178.36	529,499.91	36.2333007	-107.7333068
4,182.00	15.59	190.65	3,960.88	-1,194.33	-216.41	1,904,152.66	529,495.45	36.2332301	-107.7333220
4,273.00	12.52	190.34	4,049.15	-1,216.05	-220.44	1,904,130.93	529,491.45	36.2331704	-107.7333357
4,318.00	12.49	191.68	4,093.08	-1,225.62	-222.30	1,904,121.36	529,489.60	36.2331441	-107.7333420
Last SDI Surface MWD Survey									
4,364.00	12.55	210.76	4,138.01	-1,234.79	-225.86	1,904,112.19	529,486.04	36.2331189	-107.7333541
First SDI Curve MWD Survey									
4,409.00	13.71	229.19	4,181.85	-1,242.48	-232.40	1,904,104.49	529,479.51	36.2330978	-107.7333763
4,455.00	14.94	240.71	4,226.43	-1,248.94	-241.70	1,904,098.02	529,470.22	36.2330800	-107.7334078
4,500.00	15.56	252.38	4,269.85	-1,253.61	-252.52	1,904,093.34	529,459.41	36.2330672	-107.7334445
4,546.00	17.03	262.75	4,314.01	-1,256.33	-265.08	1,904,090.61	529,446.84	36.2330598	-107.7334871
4,591.00	18.67	272.61	4,356.86	-1,256.83	-278.82	1,904,090.09	529,433.11	36.2330584	-107.7335336

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #709H - Slot A2
Project:	T23N R9W	TVD Reference:	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Site:	W Lybrook 2309-12P	MD Reference:	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Well:	W Lybrook UT #709H	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
4,637.00	20.49	279.89	4,400.20	-1,255.11	-294.11	1,904,091.80	529,417.82	36.2330631	-107.7335855
4,682.00	22.97	284.53	4,442.00	-1,251.56	-310.37	1,904,095.33	529,401.55	36.2330729	-107.7336406
4,728.00	26.57	289.33	4,483.77	-1,245.90	-328.78	1,904,100.98	529,383.14	36.2330884	-107.7337030
4,773.00	30.22	293.44	4,523.35	-1,238.06	-348.67	1,904,108.79	529,363.24	36.2331100	-107.7337705
4,819.00	32.38	297.77	4,562.66	-1,227.71	-370.20	1,904,119.12	529,341.70	36.2331384	-107.7338435
4,864.00	35.35	301.28	4,600.03	-1,215.33	-391.99	1,904,131.47	529,319.89	36.2331724	-107.7339174
4,910.00	38.12	303.86	4,636.89	-1,200.51	-415.16	1,904,146.27	529,296.71	36.2332131	-107.7339959
4,955.00	40.45	307.08	4,671.72	-1,183.97	-438.35	1,904,162.79	529,273.51	36.2332585	-107.7340746
5,001.00	44.49	308.00	4,705.64	-1,165.04	-462.96	1,904,181.70	529,248.87	36.2333105	-107.7341580
5,046.00	48.40	310.09	4,736.65	-1,144.48	-488.27	1,904,202.22	529,223.54	36.2333670	-107.7342438
5,092.00	51.54	311.75	4,766.23	-1,121.41	-514.87	1,904,225.27	529,196.91	36.2334304	-107.7343340
5,138.00	55.40	312.27	4,793.61	-1,096.67	-542.33	1,904,249.98	529,169.43	36.2334983	-107.7344271
5,183.00	58.84	312.35	4,818.03	-1,071.24	-570.27	1,904,275.38	529,141.46	36.2335682	-107.7345219
5,229.00	59.88	312.53	4,841.48	-1,044.53	-599.48	1,904,302.06	529,112.23	36.2336416	-107.7346209
5,274.00	63.58	312.97	4,862.79	-1,017.63	-628.58	1,904,328.93	529,083.10	36.2337155	-107.7347196
5,319.00	67.88	314.03	4,881.28	-989.39	-658.32	1,904,357.13	529,053.33	36.2337931	-107.7348205
5,365.00	72.78	314.87	4,896.76	-959.07	-689.23	1,904,387.43	529,022.39	36.2338764	-107.7349253
5,411.00	77.56	315.10	4,908.53	-927.64	-720.67	1,904,418.82	528,990.92	36.2339627	-107.7350319
5,456.00	82.35	314.64	4,916.38	-896.39	-752.07	1,904,450.04	528,959.49	36.2340485	-107.7351383
5,504.00	87.51	314.86	4,920.62	-862.74	-786.01	1,904,483.66	528,925.51	36.2341410	-107.7352534
5,549.00	89.23	314.09	4,921.90	-831.23	-818.10	1,904,515.14	528,893.38	36.2342276	-107.7353623
7" Casing @ 5549' MD - 36.2342276, -107.7353622									
5,584.00	90.57	313.50	4,921.96	-807.00	-843.37	1,904,539.33	528,868.10	36.2342941	-107.7354479
5,676.00	90.57	313.63	4,921.04	-743.60	-910.03	1,904,602.67	528,801.37	36.2344683	-107.7356739
5,767.00	90.47	313.57	4,920.22	-680.85	-975.92	1,904,665.35	528,735.41	36.2346406	-107.7358974
5,858.00	89.93	313.13	4,919.90	-618.38	-1,042.09	1,904,727.75	528,669.17	36.2348122	-107.7361218
5,949.00	89.66	313.33	4,920.22	-556.05	-1,108.40	1,904,790.01	528,602.80	36.2349835	-107.7363466
Last SDI Curve MWD Survey									
6,040.00	90.47	314.38	4,920.12	-493.01	-1,174.02	1,904,852.98	528,537.12	36.2351567	-107.7365691
First SDI Lateral MWD Survey									
6,131.00	89.87	313.97	4,919.85	-429.60	-1,239.28	1,904,916.33	528,471.79	36.2353309	-107.7367904
6,222.00	89.56	314.88	4,920.30	-365.90	-1,304.27	1,904,979.96	528,406.73	36.2355058	-107.7370108
6,313.00	90.91	315.74	4,919.93	-301.21	-1,368.26	1,905,044.58	528,342.67	36.2356835	-107.7372278
6,404.00	90.60	315.21	4,918.73	-236.34	-1,432.07	1,905,109.39	528,278.80	36.2358617	-107.7374442
6,496.00	91.58	316.38	4,916.98	-170.40	-1,496.20	1,905,175.26	528,214.60	36.2360429	-107.7376616
6,587.00	91.58	316.12	4,914.47	-104.69	-1,559.10	1,905,240.90	528,151.63	36.2362234	-107.7378750
6,678.00	91.44	315.57	4,912.07	-39.42	-1,622.47	1,905,306.10	528,088.19	36.2364027	-107.7380898
6,769.00	91.20	314.40	4,909.98	24.89	-1,686.82	1,905,370.35	528,023.78	36.2365793	-107.7383080
6,860.00	90.94	314.10	4,908.28	88.38	-1,751.99	1,905,433.77	527,958.54	36.2367537	-107.7385290
6,951.00	90.97	314.01	4,906.76	151.64	-1,817.38	1,905,496.97	527,893.08	36.2369275	-107.7387508
7,043.00	90.94	313.84	4,905.23	215.46	-1,883.63	1,905,560.71	527,826.76	36.2371028	-107.7389755
7,134.00	91.00	313.58	4,903.69	278.33	-1,949.40	1,905,623.52	527,760.93	36.2372755	-107.7391985
7,225.00	90.81	316.13	4,902.25	342.50	-2,013.90	1,905,687.62	527,696.37	36.2374458	-107.7394172
7,315.00	90.50	315.61	4,901.22	407.09	-2,076.56	1,905,752.15	527,633.64	36.2376292	-107.7396297
7,406.00	90.47	315.20	4,900.45	471.89	-2,140.45	1,905,816.88	527,569.68	36.2378072	-107.7398464
7,497.00	90.50	314.66	4,899.88	536.16	-2,204.87	1,905,881.08	527,505.19	36.2379838	-107.7400648
7,588.00	89.46	316.40	4,899.71	601.09	-2,268.62	1,905,945.95	527,441.38	36.2381621	-107.7402810
7,679.00	89.87	316.44	4,900.24	667.01	-2,331.35	1,906,011.80	527,378.58	36.2383432	-107.7404937
7,769.00	90.20	316.41	4,900.19	732.22	-2,393.39	1,906,076.94	527,316.48	36.2385223	-107.7407041
7,860.00	91.04	316.68	4,899.20	798.27	-2,455.97	1,906,142.93	527,253.82	36.2387038	-107.7409164
7,951.00	90.97	316.49	4,897.61	864.36	-2,518.50	1,906,208.95	527,191.22	36.2388853	-107.7411284
8,042.00	90.84	316.11	4,896.17	930.14	-2,581.36	1,906,274.67	527,128.29	36.2390660	-107.7413416
8,133.00	92.79	316.41	4,893.29	995.85	-2,644.25	1,906,340.32	527,065.34	36.2392465	-107.7415549
8,224.00	92.58	315.86	4,889.03	1,061.39	-2,707.24	1,906,405.79	527,002.28	36.2394265	-107.7417685
8,315.00	92.01	315.38	4,885.36	1,126.38	-2,770.83	1,906,470.71	526,938.62	36.2396050	-107.7419842



Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #709H - Slot A2
Project:	T23N R9W	TVD Reference:	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Site:	W Lybrook 2309-12P	MD Reference:	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Well:	W Lybrook UT #709H	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
8,406.00	91.36	314.38	4,882.71	1,190.56	-2,835.28	1,906,534.82	526,874.10	36.2397813	-107.7422027
8,496.00	92.01	314.13	4,880.06	1,253.34	-2,899.72	1,906,597.53	526,809.60	36.2399538	-107.7424213
8,588.00	92.49	314.37	4,876.45	1,317.48	-2,965.57	1,906,661.61	526,743.69	36.2401300	-107.7426446
8,679.00	92.02	313.66	4,872.87	1,380.67	-3,030.96	1,906,724.73	526,678.23	36.2403035	-107.7428663
8,770.00	91.94	313.54	4,869.72	1,443.38	-3,096.82	1,906,787.38	526,612.30	36.2404758	-107.7430897
8,861.00	89.97	314.79	4,868.21	1,506.77	-3,162.08	1,906,850.70	526,546.98	36.2406499	-107.7433110
8,951.00	91.57	315.33	4,867.00	1,570.47	-3,225.65	1,906,914.33	526,483.34	36.2408249	-107.7435266
9,042.00	90.77	316.00	4,865.14	1,635.55	-3,289.23	1,906,979.34	526,419.70	36.2410037	-107.7437423
9,133.00	90.17	315.46	4,864.39	1,700.70	-3,352.75	1,907,044.43	526,356.11	36.2411826	-107.7439577
9,224.00	89.53	314.39	4,864.63	1,764.96	-3,417.18	1,907,108.62	526,291.61	36.2413592	-107.7441762
9,315.00	89.13	313.57	4,865.69	1,828.15	-3,482.65	1,907,171.74	526,226.07	36.2415327	-107.7443983
9,406.00	89.36	313.56	4,866.89	1,890.86	-3,548.59	1,907,234.38	526,160.07	36.2417050	-107.7446219
9,497.00	89.26	313.07	4,867.99	1,953.28	-3,614.79	1,907,296.74	526,093.80	36.2418764	-107.7448464
9,588.00	88.76	312.57	4,869.56	2,015.13	-3,681.53	1,907,358.51	526,027.00	36.2420463	-107.7450727
9,679.00	90.87	316.54	4,869.86	2,078.95	-3,746.36	1,907,422.27	525,962.11	36.2422216	-107.7452926
9,770.00	89.63	315.15	4,869.46	2,144.24	-3,809.74	1,907,487.49	525,898.65	36.2424009	-107.7455076
9,861.00	91.14	315.76	4,868.85	2,209.09	-3,873.57	1,907,552.28	525,834.75	36.2425791	-107.7457241
9,952.00	90.23	314.68	4,867.76	2,273.68	-3,937.67	1,907,616.80	525,770.59	36.2427565	-107.7459415
10,043.00	90.34	314.63	4,867.31	2,337.64	-4,002.40	1,907,680.69	525,705.79	36.2429322	-107.7461610
10,134.00	88.39	314.59	4,868.31	2,401.54	-4,067.18	1,907,744.52	525,640.95	36.2431077	-107.7463807
10,225.00	89.06	317.11	4,870.34	2,466.81	-4,130.54	1,907,809.73	525,577.52	36.2432870	-107.7465956
10,316.00	89.87	318.20	4,871.19	2,534.06	-4,191.83	1,907,876.92	525,516.16	36.2434717	-107.7468035
10,407.00	90.13	317.39	4,871.19	2,601.47	-4,252.96	1,907,944.28	525,454.96	36.2436568	-107.7470108
10,498.00	89.77	317.01	4,871.27	2,668.24	-4,314.79	1,908,010.96	525,393.06	36.2438402	-107.7472205
10,589.00	89.23	316.13	4,872.06	2,734.32	-4,377.35	1,908,076.98	525,330.43	36.2440218	-107.7474327
10,680.00	89.77	317.14	4,872.86	2,800.47	-4,439.83	1,908,143.07	525,267.88	36.2442035	-107.7476446
10,771.00	90.84	317.08	4,872.37	2,867.14	-4,501.76	1,908,209.68	525,205.88	36.2443866	-107.7478547
10,863.00	92.58	317.79	4,869.63	2,934.87	-4,563.96	1,908,277.34	525,143.61	36.2445726	-107.7480657
10,954.00	92.72	317.60	4,865.42	3,002.10	-4,625.15	1,908,344.50	525,082.36	36.2447573	-107.7482732
11,045.00	92.98	317.52	4,860.90	3,069.17	-4,686.48	1,908,411.51	525,020.95	36.2449415	-107.7484812
11,136.00	92.11	315.21	4,856.85	3,134.96	-4,749.21	1,908,477.24	524,958.16	36.2451222	-107.7486940
11,227.00	90.81	314.05	4,854.54	3,198.87	-4,813.95	1,908,541.08	524,893.35	36.2452977	-107.7489136
11,318.00	89.93	313.98	4,853.95	3,262.10	-4,879.39	1,908,604.24	524,827.85	36.2454714	-107.7491355
11,410.00	89.66	312.80	4,854.28	3,325.30	-4,946.24	1,908,667.37	524,760.93	36.2456450	-107.7493623
11,501.00	89.29	311.64	4,855.11	3,386.44	-5,013.63	1,908,728.44	524,693.47	36.2458130	-107.7495909
11,592.00	88.36	313.78	4,856.98	3,448.15	-5,080.48	1,908,790.08	524,626.56	36.2459824	-107.7498176
11,683.00	89.63	313.25	4,858.57	3,510.80	-5,146.46	1,908,852.66	524,560.52	36.2461545	-107.7500414
11,774.00	89.73	313.12	4,859.08	3,573.07	-5,212.81	1,908,914.86	524,494.10	36.2463255	-107.7502665
11,866.00	88.82	312.53	4,860.25	3,635.60	-5,280.28	1,908,977.33	524,426.57	36.2464973	-107.7504953
11,957.00	88.72	314.75	4,862.20	3,698.39	-5,346.12	1,909,040.04	524,360.66	36.2466697	-107.7507186
12,048.00	89.43	314.98	4,863.67	3,762.57	-5,410.61	1,909,104.16	524,296.11	36.2468460	-107.7509374
12,139.00	89.76	314.83	4,864.31	3,826.81	-5,475.06	1,909,168.33	524,231.59	36.2470225	-107.7511560
12,230.00	89.40	314.35	4,864.98	3,890.69	-5,539.86	1,909,232.15	524,166.72	36.2471979	-107.7513758
12,321.00	89.06	313.50	4,866.20	3,953.82	-5,605.40	1,909,295.20	524,101.12	36.2473713	-107.7515981
12,369.00	89.59	313.57	4,866.77	3,986.88	-5,640.19	1,909,328.22	524,066.29	36.2474621	-107.7517161
RSI @ 12,369' MD - 36.2474621, -107.7517161									
12,412.00	90.07	313.63	4,866.89	4,016.53	-5,671.33	1,909,357.84	524,035.12	36.2475435	-107.7518217
12,433.00	89.53	313.07	4,866.97	4,030.94	-5,686.60	1,909,372.24	524,019.83	36.2475831	-107.7518735
Last SDI Lateral MWD Survey									
12,488.00	89.53	313.07	4,867.42	4,068.50	-5,726.78	1,909,409.76	523,979.62	36.2476863	-107.7520098
Projection to TD									

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #709H - Slot A2
Project:	T23N R9W	TVD Reference:	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Site:	W Lybrook 2309-12P	MD Reference:	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)
Well:	W Lybrook UT #709H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
451.00	450.95	-4.48	-1.24	First SDI Surface MWD Survey
4,318.00	4,093.08	-1,225.62	-222.30	Last SDI Surface MWD Survey
4,364.00	4,138.01	-1,234.79	-225.86	First SDI Curve MWD Survey
5,549.00	4,921.90	-831.23	-818.10	7" Casing @ 5549' MD
5,549.00	4,921.90	-831.23	-818.10	36.2342276, -107.7353622
5,949.00	4,920.22	-556.05	-1,108.40	Last SDI Curve MWD Survey
6,040.00	4,920.12	-493.01	-1,174.02	First SDI Lateral MWD Survey
12,369.00	4,866.77	3,986.88	-5,640.19	RSI @ 12,369' MD
12,369.00	4,866.77	3,986.88	-5,640.19	36.2474621, -107.7517161
12,433.00	4,866.97	4,030.94	-5,686.60	Last SDI Lateral MWD Survey
12,488.00	4,867.42	4,068.50	-5,726.78	Projection to TD

Checked By: _____ Approved By: _____ Date: _____