

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 30-045-35740	*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT	*Well Number 708H
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6733'

10 Surface Location

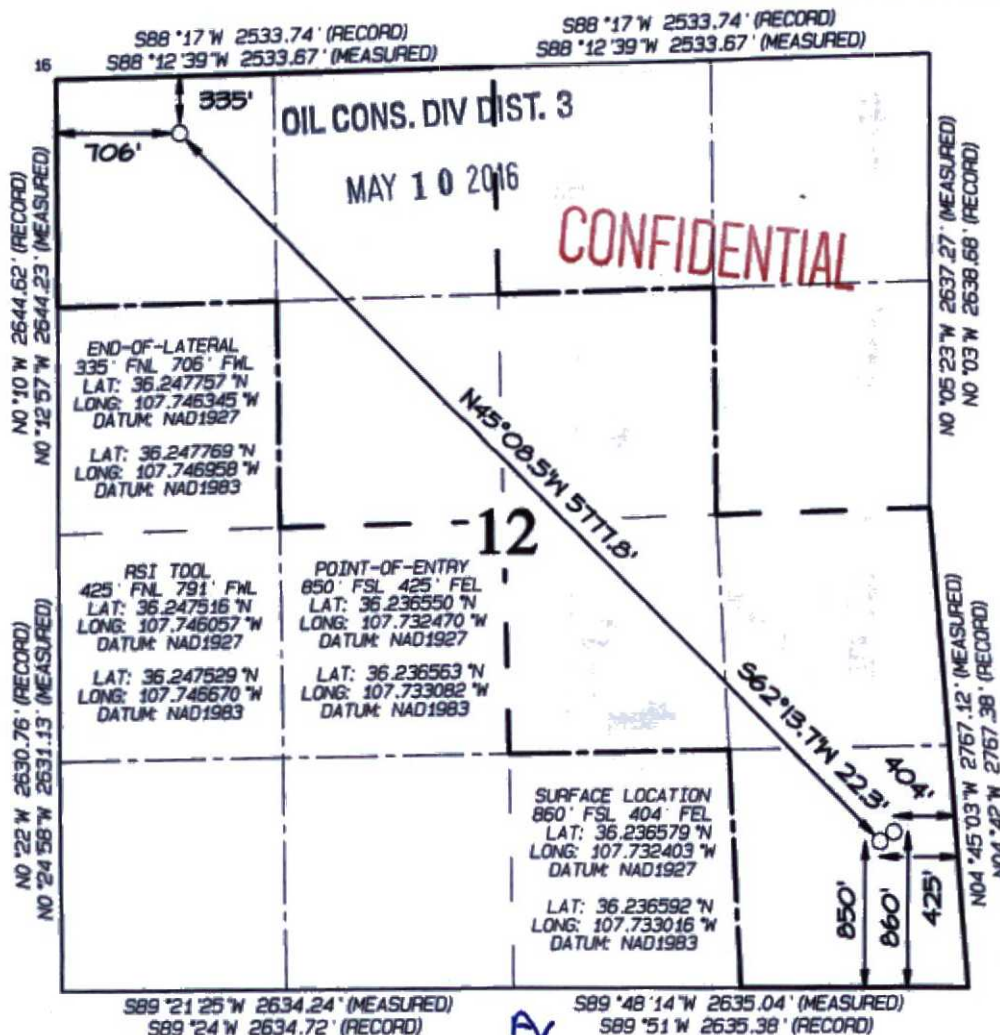
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	23N	9W		860	SOUTH	404	EAST	SAN JUAN

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
D	12	23N	9W		335	NORTH	706	WEST	SAN JUAN

*Dedicated Acres 280.0	N/2 NW/4, SE/4 NW/4 SW/4 NE/4, N/2 SE/4 SE/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



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 regulatory pooling order heretofore entered by the division.

Signature: Lacey Granillo
Date: 5/9/16

Printed Name: lacey.granillo@wpxenergy.com

E-mail Address:

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: APRIL 6, 2016
Date of Survey: MAY 18, 2015

Signature and Seal of Professional Surveyor

Jason C. Edwards
New Mexico
Registered Professional Surveyor
15269

Jason C. Edwards
Certificate Number 15269



WPX Energy

T23N R9W

W Lybrook 2309-12P

W Lybrook UT #708H - Slot A4

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

05 April, 2016

CONFIDENTIAL



www.scientificdrilling.com



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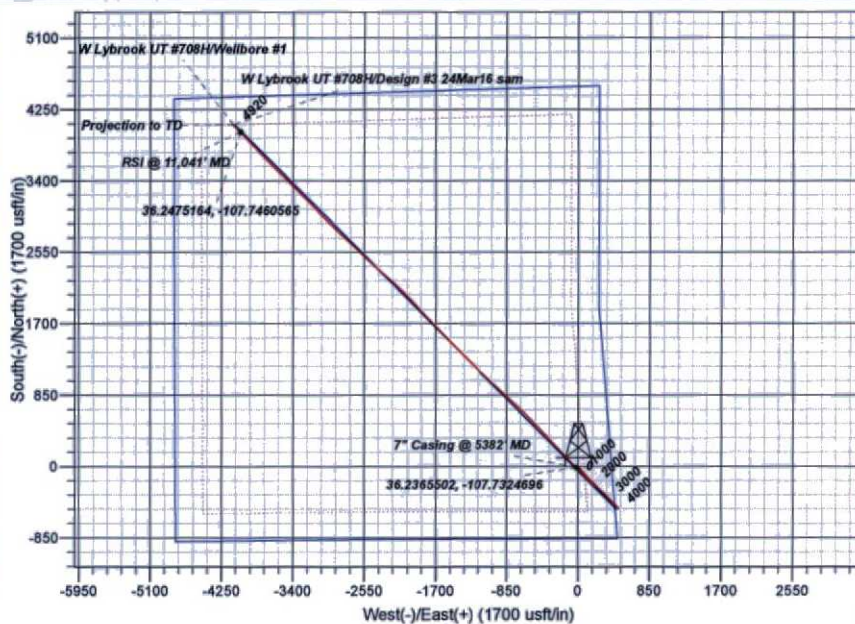
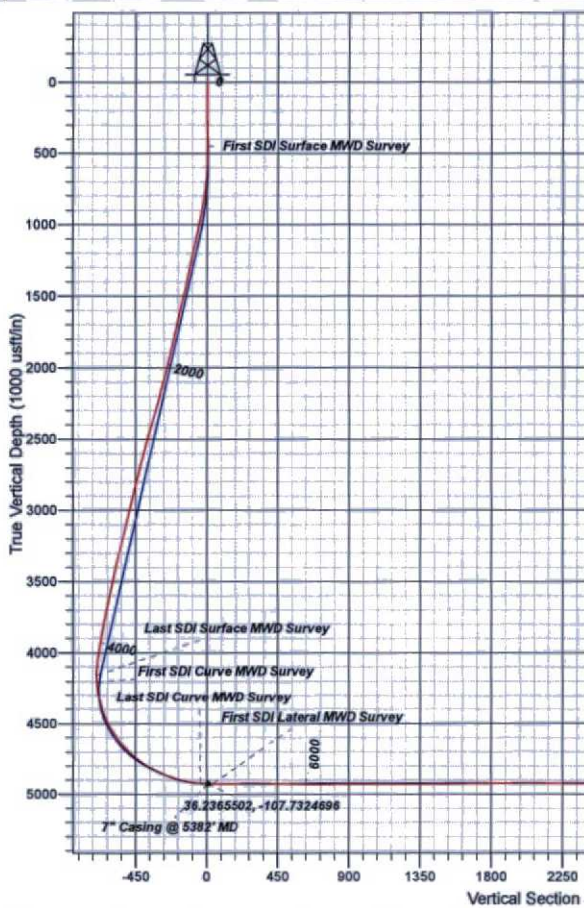
Company Name: WPX Energy
 Project: T23N R9W
 Site: W Lybrook 2309-12P
 Well: W Lybrook UT #708H



Azimuths to True North
 Magnetic North: 9.1°
 Magnetic Field
 Strength: 49796.4
 Dip Angle: 62.1°
 Date: 3/26/2011
 Model: HD

WELL DETAILS: W Lybrook UT #708H

+N/-S	+E/-W	GL 6733' & RKB 25' @ 6758.00usft (Aztec 1000)	6733.00			
0.00	0.00	Northings	Easting	Latitude	Longitude	A4
		1905371.98	529765.21	36.2365790	-107.7324030	



W Lybrook UT #708H/Wellbore #1
 W Lybrook UT #708H/Design #3 24Mar16 sam
 Projection to TD
 Last SDI Lateral MWD Survey
 RSI @ 11.041° MD
 36.2475164, -107.7460565

Design: Wellbore #1 (W Lybrook UT #708H/Wellbore #1)
 Created By: Janie Collins Date: 10/32, April 05 2011

PROJECT DETAILS: T23N R9W

Geodetic System: US State Plane 1927 (Exact solut
 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 #708H - Slot A4
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 #708H	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 °

Well	W Lybrook UT #708H - Slot A4					
Well Position	+N/-S	0.00 usft	Northing:	1,905,371.98 usft	Latitude:	36.2365790
	+E/-W	0.00 usft	Easting:	529,765.21 usft	Longitude:	-107.7324031
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,733.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/26/2016	9.12	62.88	49,799

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	314.83	

Survey Program	Date 4/5/2016				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
55.00	325.00	Surface Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
450.00	4,228.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD	SDI MWD - Standard ver 1.0.1	
4,274.00	5,337.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1	
5,413.00	11,163.00	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	1,905,371.98	529,765.21	36.2365790	-107.7324031
55.00	0.06	147.90	55.00	-0.02	0.02	1,905,371.96	529,765.23	36.2365789	-107.7324030
85.00	0.09	18.13	85.00	-0.02	0.03	1,905,371.97	529,765.24	36.2365789	-107.7324029
115.00	0.29	355.73	115.00	0.08	0.03	1,905,372.07	529,765.24	36.2365792	-107.7324029
145.00	0.37	354.25	145.00	0.25	0.02	1,905,372.24	529,765.23	36.2365797	-107.7324030
175.00	0.53	338.68	175.00	0.48	-0.04	1,905,372.46	529,765.17	36.2365803	-107.7324032
205.00	0.82	333.29	205.00	0.80	-0.19	1,905,372.78	529,765.02	36.2365812	-107.7324037
235.00	1.13	334.26	234.99	1.26	-0.41	1,905,373.24	529,764.80	36.2365824	-107.7324045
265.00	0.89	338.58	264.99	1.74	-0.63	1,905,373.73	529,764.58	36.2365838	-107.7324052

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #708H - Slot A4
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 #708H	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	0.72	334.69	294.98	2.13	-0.79	1,905,374.11	529,764.42	36.2365848	-107.7324057
325.00	0.60	312.74	324.98	2.41	-0.99	1,905,374.39	529,764.22	36.2365856	-107.7324064
450.00	0.43	295.14	449.98	3.05	-1.90	1,905,375.03	529,763.31	36.2365874	-107.7324095
First SDI Surface MWD Survey									
541.00	1.45	127.96	540.97	2.49	-1.30	1,905,374.47	529,763.91	36.2365858	-107.7324074
632.00	3.65	128.96	631.87	-0.04	1.86	1,905,371.94	529,767.08	36.2365789	-107.7323967
723.00	5.84	134.24	722.56	-5.09	7.43	1,905,366.90	529,772.65	36.2365650	-107.7323778
814.00	7.47	135.67	812.94	-12.56	14.88	1,905,359.44	529,780.11	36.2365445	-107.7323526
905.00	10.08	135.60	902.87	-22.48	24.59	1,905,349.53	529,789.83	36.2365172	-107.7323197
996.00	10.45	135.71	992.41	-34.08	35.93	1,905,337.94	529,801.17	36.2364854	-107.7322812
1,086.00	11.82	139.34	1,080.72	-46.91	47.63	1,905,325.12	529,812.89	36.2364501	-107.7322415
1,177.00	11.47	139.88	1,169.84	-60.90	59.54	1,905,311.14	529,824.81	36.2364117	-107.7322012
1,268.00	10.28	136.97	1,259.21	-73.76	70.91	1,905,298.30	529,836.20	36.2363764	-107.7321626
1,359.00	10.34	139.10	1,348.74	-85.86	81.80	1,905,286.20	529,847.10	36.2363431	-107.7321257
1,450.00	11.30	136.60	1,438.12	-98.52	93.27	1,905,273.56	529,858.58	36.2363083	-107.7320868
1,541.00	11.99	136.74	1,527.25	-111.88	105.87	1,905,260.22	529,871.20	36.2362716	-107.7320441
1,631.00	11.57	136.39	1,615.35	-125.22	118.50	1,905,246.89	529,883.85	36.2362350	-107.7320012
1,722.00	11.56	134.46	1,704.50	-138.21	131.31	1,905,233.91	529,896.66	36.2361993	-107.7319578
1,813.00	12.01	133.78	1,793.59	-151.15	144.65	1,905,220.98	529,910.02	36.2361637	-107.7319126
1,905.00	11.87	131.79	1,883.60	-164.08	158.62	1,905,208.07	529,924.00	36.2361282	-107.7318652
1,996.00	11.64	135.46	1,972.69	-176.86	172.03	1,905,195.30	529,937.43	36.2360931	-107.7318197
2,087.00	13.22	137.89	2,061.55	-191.12	185.45	1,905,181.05	529,950.86	36.2360539	-107.7317742
2,177.00	13.59	137.94	2,149.10	-206.61	199.43	1,905,165.58	529,964.86	36.2360114	-107.7317268
2,268.00	14.08	137.32	2,237.46	-222.68	214.10	1,905,149.52	529,979.54	36.2359672	-107.7316771
2,359.00	14.61	137.85	2,325.62	-239.33	229.31	1,905,132.89	529,994.77	36.2359215	-107.7316255
2,450.00	14.29	134.42	2,413.75	-255.70	245.03	1,905,116.54	530,010.51	36.2358765	-107.7315722
2,540.00	14.41	134.54	2,500.94	-271.33	260.94	1,905,100.93	530,026.44	36.2358336	-107.7315182
2,632.00	13.43	134.16	2,590.23	-286.80	276.77	1,905,085.47	530,042.28	36.2357911	-107.7314646
2,723.00	13.23	132.56	2,678.78	-301.21	292.02	1,905,071.08	530,057.55	36.2357515	-107.7314129
2,814.00	12.46	131.03	2,767.51	-314.69	307.10	1,905,057.61	530,072.64	36.2357145	-107.7313617
2,905.00	12.86	130.49	2,856.29	-327.71	322.20	1,905,044.60	530,087.76	36.2356787	-107.7313105
2,996.00	11.94	137.75	2,945.17	-341.26	336.24	1,905,031.07	530,101.80	36.2356415	-107.7312629
3,087.00	12.01	136.67	3,034.19	-355.11	349.06	1,905,017.23	530,114.64	36.2356034	-107.7312194
3,178.00	12.40	134.54	3,123.14	-368.85	362.52	1,905,003.51	530,128.12	36.2355657	-107.7311738
3,269.00	11.86	137.14	3,212.11	-382.56	375.85	1,904,989.81	530,141.46	36.2355280	-107.7311286
3,360.00	12.42	136.53	3,301.07	-396.52	388.94	1,904,975.87	530,154.57	36.2354897	-107.7310842
3,451.00	11.68	138.71	3,390.07	-410.54	401.75	1,904,961.86	530,167.39	36.2354512	-107.7310408
3,543.00	10.99	136.41	3,480.27	-423.89	413.94	1,904,948.52	530,179.60	36.2354145	-107.7309994
3,634.00	11.17	135.06	3,569.58	-436.41	426.15	1,904,936.01	530,191.82	36.2353801	-107.7309580
3,725.00	10.58	136.36	3,658.94	-448.70	438.14	1,904,923.74	530,203.82	36.2353463	-107.7309174
3,816.00	10.68	135.09	3,748.38	-460.72	449.86	1,904,911.74	530,215.55	36.2353133	-107.7308777
3,908.00	9.15	137.15	3,839.00	-472.12	460.85	1,904,900.35	530,226.56	36.2352820	-107.7308404
3,999.00	8.37	136.23	3,928.94	-482.20	470.36	1,904,890.27	530,236.07	36.2352543	-107.7308082
4,090.00	7.72	134.96	4,019.04	-491.31	479.26	1,904,881.18	530,244.99	36.2352293	-107.7307780
4,182.00	2.99	155.28	4,110.62	-497.86	484.64	1,904,874.63	530,250.37	36.2352113	-107.7307597
4,228.00	1.67	159.67	4,156.58	-499.57	485.38	1,904,872.91	530,251.11	36.2352066	-107.7307572
Last SDI Surface MWD Survey									
4,274.00	2.45	306.14	4,202.57	-499.62	484.82	1,904,872.87	530,250.55	36.2352064	-107.7307591
First SDI Curve MWD Survey									
4,319.00	6.29	315.53	4,247.43	-497.30	482.31	1,904,875.19	530,248.04	36.2352128	-107.7307676
4,365.00	9.68	318.62	4,292.98	-492.59	477.99	1,904,879.89	530,243.71	36.2352257	-107.7307823
4,410.00	13.40	319.74	4,337.06	-485.77	472.12	1,904,886.70	530,237.83	36.2352445	-107.7308022
4,456.00	16.44	316.08	4,381.51	-477.01	464.15	1,904,895.45	530,229.86	36.2352685	-107.7308292
4,501.00	19.56	314.40	4,424.30	-467.16	454.35	1,904,905.30	530,220.05	36.2352956	-107.7308624
4,547.00	21.79	315.12	4,467.34	-455.72	442.82	1,904,916.73	530,208.51	36.2353270	-107.7309015

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #708H - Slot A4
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 #708H	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
4,593.00	24.78	316.63	4,509.58	-442.66	430.18	1,904,929.77	530,195.85	36.2353629	-107.7309444
4,638.00	28.39	316.51	4,549.82	-428.03	416.33	1,904,944.38	530,181.99	36.2354031	-107.7309913
4,684.00	31.73	314.52	4,589.63	-411.61	400.18	1,904,960.79	530,165.82	36.2354482	-107.7310461
4,729.00	35.41	314.51	4,627.12	-394.17	382.44	1,904,978.21	530,148.06	36.2354961	-107.7311063
4,775.00	39.85	315.20	4,663.54	-374.36	362.54	1,904,998.00	530,128.14	36.2355505	-107.7311737
4,820.00	42.91	315.80	4,697.30	-353.14	341.70	1,905,019.19	530,107.27	36.2356088	-107.7312444
4,866.00	47.17	316.23	4,729.80	-329.73	319.10	1,905,042.59	530,084.65	36.2356732	-107.7313210
4,912.00	51.17	315.24	4,759.87	-304.81	294.80	1,905,067.48	530,060.33	36.2357416	-107.7314034
4,957.00	54.08	312.86	4,787.18	-279.97	269.10	1,905,092.30	530,034.60	36.2358099	-107.7314906
5,003.00	57.79	311.34	4,812.95	-254.43	240.82	1,905,117.80	530,006.30	36.2358800	-107.7315865
5,048.00	58.94	311.00	4,836.55	-229.21	211.98	1,905,142.99	529,977.43	36.2359493	-107.7316843
5,093.00	63.64	310.92	4,858.16	-203.35	182.19	1,905,168.83	529,947.61	36.2360204	-107.7317853
5,139.00	68.94	312.08	4,876.65	-175.44	150.66	1,905,196.70	529,916.05	36.2360970	-107.7318922
5,185.00	72.36	312.58	4,891.89	-146.22	118.58	1,905,225.89	529,883.94	36.2361773	-107.7320010
5,230.00	76.33	314.27	4,904.03	-116.44	87.12	1,905,255.64	529,852.45	36.2362591	-107.7321076
5,276.00	80.00	314.57	4,913.46	-84.93	54.97	1,905,287.11	529,820.27	36.2363457	-107.7322166
5,321.00	83.71	315.24	4,919.84	-53.49	23.43	1,905,318.52	529,788.69	36.2364320	-107.7323236
5,337.00	85.70	315.15	4,921.31	-42.18	12.20	1,905,329.81	529,777.46	36.2364631	-107.7323617
Last SDI Curve MWD Survey									
5,382.00	87.93	314.64	4,923.82	-10.47	-19.63	1,905,361.49	529,745.60	36.2365502	-107.7324696
7" Casing @ 5382' MD - 36.2365502, -107.7324696									
5,413.00	89.46	314.29	4,924.52	11.23	-41.74	1,905,383.17	529,723.46	36.2366098	-107.7325446
First SDI Lateral MWD Survey									
5,492.00	90.27	315.52	4,924.71	67.00	-97.70	1,905,438.88	529,667.45	36.2367630	-107.7327343
5,583.00	90.03	317.04	4,924.47	132.77	-160.59	1,905,504.58	529,604.49	36.2369437	-107.7329476
5,674.00	90.60	316.65	4,923.97	199.15	-222.83	1,905,570.90	529,542.18	36.2371261	-107.7331586
5,766.00	88.99	317.44	4,924.30	266.48	-285.52	1,905,638.17	529,479.42	36.2373110	-107.7333712
5,857.00	88.96	316.74	4,925.93	333.12	-347.46	1,905,704.74	529,417.40	36.2374941	-107.7335813
5,948.00	89.36	317.25	4,927.26	399.66	-409.52	1,905,771.22	529,355.27	36.2376769	-107.7337917
6,039.00	88.62	314.59	4,928.87	465.02	-472.81	1,905,836.51	529,291.92	36.2378564	-107.7340063
6,130.00	91.48	317.19	4,928.79	530.34	-536.14	1,905,901.77	529,228.52	36.2380359	-107.7342211
6,221.00	90.13	316.10	4,927.51	596.50	-598.60	1,905,967.86	529,165.99	36.2382176	-107.7344329
6,312.00	89.50	313.46	4,927.80	660.59	-663.19	1,906,031.89	529,101.33	36.2383937	-107.7346519
6,403.00	89.83	313.50	4,928.33	723.21	-729.22	1,906,094.43	529,035.24	36.2385657	-107.7348758
6,494.00	89.80	312.68	4,928.63	785.38	-795.68	1,906,156.53	528,968.72	36.2387365	-107.7351012
6,585.00	90.60	312.76	4,928.31	847.11	-862.53	1,906,218.19	528,901.80	36.2389061	-107.7353279
6,676.00	89.87	312.02	4,927.94	908.46	-929.74	1,906,279.47	528,834.53	36.2390746	-107.7355558
6,766.00	89.97	312.38	4,928.06	968.91	-996.41	1,906,339.86	528,767.79	36.2392407	-107.7357819
6,857.00	90.74	313.85	4,927.50	1,031.11	-1,062.84	1,906,401.98	528,701.30	36.2394115	-107.7360071
6,948.00	91.14	314.36	4,926.01	1,094.43	-1,128.17	1,906,465.24	528,635.90	36.2395855	-107.7362287
7,039.00	91.21	314.53	4,924.14	1,158.14	-1,193.12	1,906,528.88	528,570.88	36.2397605	-107.7364490
7,130.00	90.37	313.17	4,922.88	1,221.17	-1,258.74	1,906,591.84	528,505.20	36.2399336	-107.7366715
7,221.00	90.97	313.70	4,921.82	1,283.73	-1,324.82	1,906,654.33	528,439.06	36.2401055	-107.7368955
7,311.00	90.81	315.43	4,920.42	1,346.88	-1,388.93	1,906,717.41	528,374.88	36.2402790	-107.7371130
7,402.00	89.93	315.98	4,919.83	1,412.01	-1,452.48	1,906,782.48	528,311.27	36.2404579	-107.7373285
7,493.00	90.07	316.32	4,919.83	1,477.63	-1,515.52	1,906,848.04	528,248.16	36.2406381	-107.7375423
7,585.00	88.69	315.90	4,920.83	1,543.93	-1,579.29	1,906,914.27	528,184.31	36.2408203	-107.7377585
7,676.00	88.69	315.89	4,922.91	1,609.26	-1,642.61	1,906,979.53	528,120.93	36.2409997	-107.7379733
7,767.00	89.43	316.67	4,924.40	1,675.01	-1,705.49	1,907,045.22	528,057.97	36.2411804	-107.7381865
7,857.00	89.50	316.86	4,925.24	1,740.58	-1,767.14	1,907,110.72	527,996.26	36.2413605	-107.7383956
7,948.00	88.99	316.47	4,926.44	1,806.76	-1,829.58	1,907,176.84	527,933.75	36.2415423	-107.7386073
8,039.00	90.47	316.78	4,926.87	1,872.91	-1,892.08	1,907,242.92	527,871.18	36.2417240	-107.7388193
8,130.00	91.14	317.15	4,925.59	1,939.41	-1,954.17	1,907,309.36	527,809.02	36.2419067	-107.7390299
8,221.00	90.97	317.33	4,923.92	2,006.22	-2,015.95	1,907,376.10	527,747.18	36.2420902	-107.7392394
8,312.00	90.00	315.05	4,923.15	2,071.88	-2,078.94	1,907,441.69	527,684.12	36.2422705	-107.7394530

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #708H - Slot A4
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 #708H	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	
8,403.00	90.64	314.39	4,922.64	2,135.91	-2,143.59	1,907,505.66	527,619.39	36.2424464	-107.7396723	
8,494.00	89.87	311.64	4,922.23	2,197.98	-2,210.12	1,907,567.66	527,552.80	36.2426169	-107.7398979	
8,585.00	89.90	311.26	4,922.42	2,258.22	-2,278.33	1,907,627.83	527,484.53	36.2427824	-107.7401292	
8,676.00	89.70	310.57	4,922.73	2,317.82	-2,347.10	1,907,687.35	527,415.70	36.2429461	-107.7403624	
8,767.00	90.50	312.01	4,922.58	2,377.86	-2,415.47	1,907,747.33	527,347.27	36.2431110	-107.7405943	
8,858.00	91.07	312.36	4,921.33	2,438.97	-2,482.89	1,907,808.36	527,279.78	36.2432789	-107.7408230	
8,949.00	92.11	313.22	4,918.80	2,500.76	-2,549.65	1,907,870.08	527,212.96	36.2434486	-107.7410494	
9,040.00	93.02	313.99	4,914.73	2,563.46	-2,615.47	1,907,932.71	527,147.07	36.2436208	-107.7412726	
9,132.00	91.68	315.05	4,910.96	2,627.91	-2,681.01	1,907,997.09	527,081.46	36.2437979	-107.7414949	
9,223.00	89.33	312.12	4,910.16	2,690.63	-2,746.91	1,908,059.75	527,015.50	36.2439702	-107.7417184	
9,314.00	89.36	311.58	4,911.20	2,751.34	-2,814.69	1,908,120.39	526,947.65	36.2441369	-107.7419483	
9,405.00	89.06	314.55	4,912.45	2,813.46	-2,881.16	1,908,182.44	526,881.12	36.2443076	-107.7421737	
9,496.00	89.13	314.27	4,913.89	2,877.14	-2,946.16	1,908,246.05	526,816.06	36.2444825	-107.7423941	
9,587.00	89.33	316.65	4,915.11	2,941.99	-3,009.98	1,908,310.83	526,752.17	36.2446606	-107.7426106	
9,678.00	90.17	317.39	4,915.51	3,008.56	-3,072.02	1,908,377.34	526,690.06	36.2448435	-107.7428210	
9,769.00	89.87	316.76	4,915.48	3,075.19	-3,133.99	1,908,443.91	526,628.02	36.2450265	-107.7430312	
9,860.00	89.87	315.53	4,915.68	3,140.81	-3,197.04	1,908,509.46	526,564.91	36.2452068	-107.7432450	
9,952.00	90.07	315.43	4,915.73	3,206.41	-3,261.54	1,908,574.99	526,500.33	36.2453870	-107.7434638	
10,043.00	90.07	314.97	4,915.62	3,270.98	-3,325.66	1,908,639.50	526,436.14	36.2455643	-107.7436813	
10,134.00	89.97	313.45	4,915.59	3,334.43	-3,390.89	1,908,702.88	526,370.85	36.2457386	-107.7439025	
10,225.00	88.72	315.03	4,916.63	3,397.91	-3,456.08	1,908,766.29	526,305.60	36.2459130	-107.7441236	
10,316.00	89.66	315.94	4,917.92	3,462.79	-3,519.87	1,908,831.11	526,241.74	36.2460912	-107.7443400	
10,407.00	89.56	315.01	4,918.54	3,527.67	-3,583.68	1,908,895.92	526,177.86	36.2462694	-107.7445564	
10,499.00	89.60	313.95	4,919.21	3,592.13	-3,649.32	1,908,960.31	526,112.16	36.2464464	-107.7447790	
10,590.00	88.46	315.92	4,920.75	3,656.39	-3,713.72	1,909,024.50	526,047.68	36.2466230	-107.7449975	
10,681.00	88.52	315.45	4,923.15	3,721.47	-3,777.27	1,909,089.52	525,984.06	36.2468017	-107.7452130	
10,772.00	89.23	314.93	4,924.94	3,786.02	-3,841.39	1,909,154.00	525,919.88	36.2469790	-107.7454305	
10,863.00	90.97	317.93	4,924.78	3,851.94	-3,904.11	1,909,219.86	525,857.10	36.2471601	-107.7456432	
10,954.00	90.77	316.58	4,923.39	3,918.76	-3,965.86	1,909,286.61	525,795.27	36.2473437	-107.7458527	
11,041.00	90.93	316.01	4,922.10	3,981.65	-4,025.97	1,909,349.43	525,735.10	36.2475164	-107.7460565	
RSI @ 11,041' MD - 36.2475164, -107.7460565										
11,045.00	90.94	315.98	4,922.04	3,984.52	-4,028.75	1,909,352.31	525,732.32	36.2475243	-107.7460660	
11,104.00	91.14	315.76	4,920.97	4,026.86	-4,069.82	1,909,394.61	525,691.20	36.2476406	-107.7462053	
Last SDI Lateral MWD Survey										
11,163.00	91.14	315.76	4,919.79	4,069.12	-4,110.98	1,909,436.82	525,650.00	36.2477567	-107.7463449	
Projection to TD										

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #708H - Slot A4
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 #708H	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)	
450.00	449.98	3.05	-1.90	First SDI Surface MWD Survey
4,228.00	4,156.58	-499.57	485.38	Last SDI Surface MWD Survey
4,274.00	4,202.57	-499.62	484.82	First SDI Curve MWD Survey
5,337.00	4,921.31	-42.18	12.20	Last SDI Curve MWD Survey
5,382.00	4,923.82	-10.47	-19.63	7" Casing @ 5382' MD
5,382.00	4,923.82	-10.47	-19.63	36.2365502, -107.7324696
5,413.00	4,924.52	11.23	-41.74	First SDI Lateral MWD Survey
11,041.00	4,922.10	3,981.65	-4,025.97	RSI @ 11,041' MD
11,041.00	4,922.10	3,981.65	-4,025.97	36.2475164, -107.7460565
11,104.00	4,920.97	4,026.86	-4,069.82	Last SDI Lateral MWD Survey
11,163.00	4,919.79	4,069.12	-4,110.98	Projection to TD

Checked By: _____ Approved By: _____ Date: _____