

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 Plat

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35529		*Pool Code 98101	*Pool Name LYBROOK UNIT NW HZ (OIL)
*Property Code 313874	*Property Name NW LYBROOK UT		*Well Number 289H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6846'

¹⁰ Surface Location

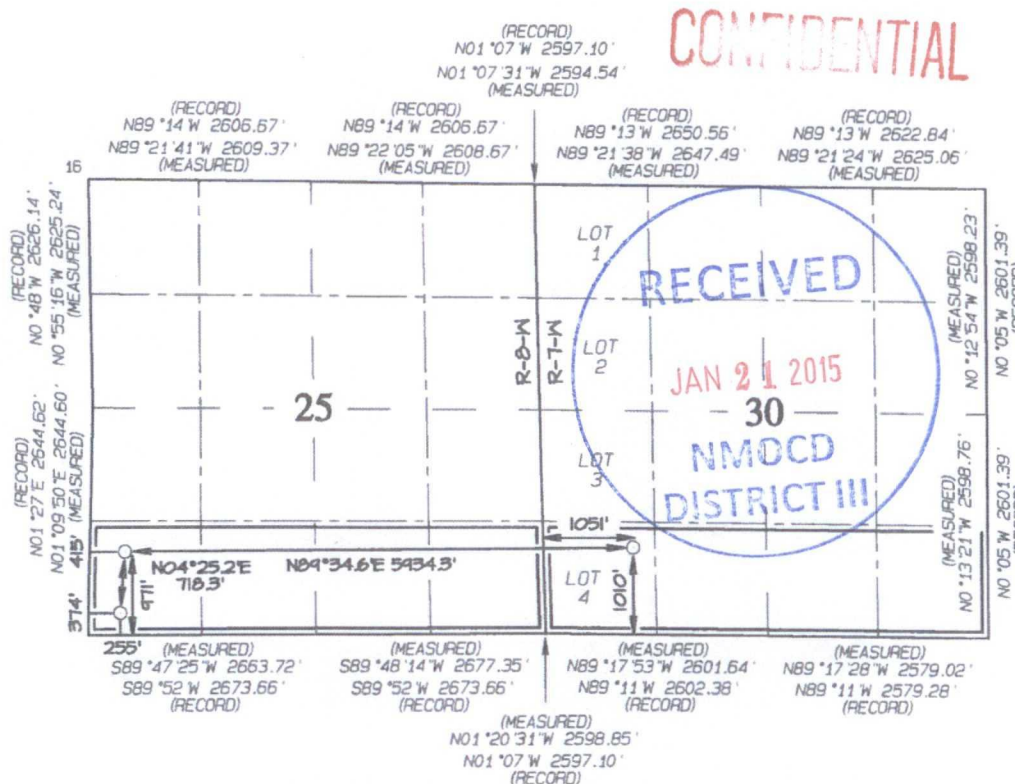
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	25	24N	8W		255	SOUTH	374	WEST	SAN JUAN

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
M	30	24N	7W	4	1010	SOUTH	1051	WEST	RIO ARriba

¹² Dedicated Acres 200.74	S/2 S/2 - Section 25 SW/4 SW/4 - Section 30	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



SURFACE LOCATION
255' FSL 374' FWL
SECTION 25, T24N, R8W
LAT: 36.278721°N
LONG: 107.640480°W
DATUM: NAD1927

POINT-OF-ENTRY
971' FSL 415' FWL
SECTION 25, T24N, R8W
LAT: 36.280688°N
LONG: 107.640288°W
DATUM: NAD1927

BASE PERFORATION
1002' FSL 948' FWL
SECTION 30, T24N, R7W
LAT: 36.280758°N
LONG: 107.620503°W
DATUM: NAD1927

END-OF-LATERAL
1010' FSL 1051' FWL
SECTION 30, T24N, R7W
LAT: 36.280775°N
LONG: 107.620154°W
DATUM: NAD1927

LAT: 36.278733°N
LONG: 107.641090°W
DATUM: NAD1983

LAT: 36.280700°N
LONG: 107.640898°W
DATUM: NAD1983

LAT: 36.280770°N
LONG: 107.621112°W
DATUM: NAD1983

LAT: 36.280787°N
LONG: 107.620764°W
DATUM: NAD1983

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

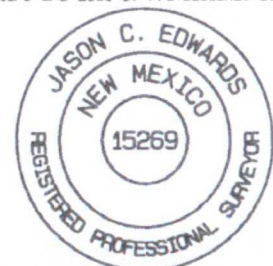
Signature: Marie E. Jaramillo
Date: 1/21/15
Printed Name: Marie E. Jaramillo
E-mail Address: marie.jaramillo@wpenergy.com

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: DECEMBER 11, 2014
Survey Date: AUGUST 30, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Company Name: WPX Energy Rocky Mountain, LLC
 Project: San Juan County, NM NAD27
 Site: Lybrook UT
 Well: NW Lybrook UT #289H

WPXENERGY

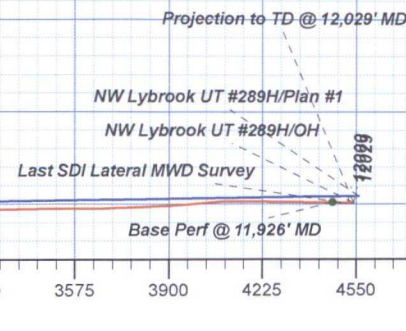
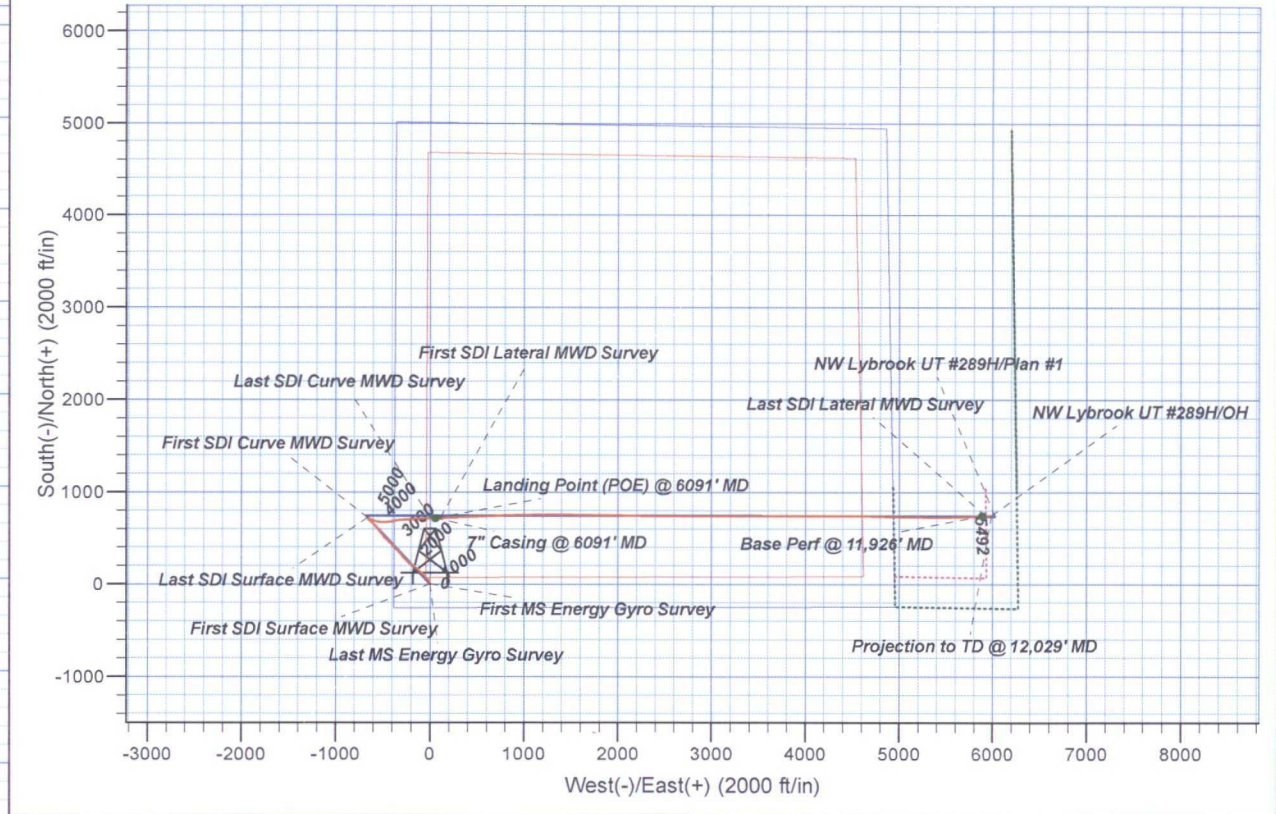
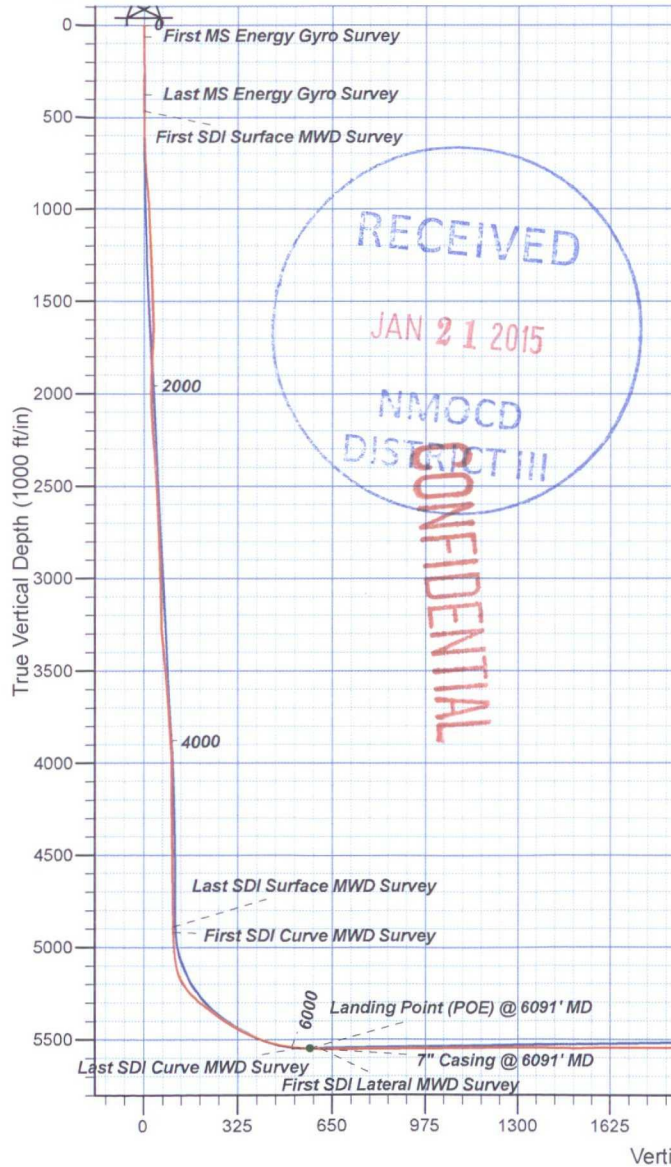


Azimuths to True North
 Magnetic North: 9.46°

Magnetic Field
 Strength: 50054.1snT
 Dip Angle: 63.02°
 Date: 11/17/2014
 Model: BGGM2014

WELL DETAILS: NW Lybrook UT #289H

+N/-S	+E/-W	GL 6846' & KB 14' @ 6860.00ft (Aztec 730)	6846.00
0.00	0.00	Northing	Easting
1920753.02	556843.57	Latitude	Longitude
		36.2787200	-107.6404800



Design: OH (NW Lybrook UT #289H/OH)
Created By: Janie Collins Date: 11:37, December 17 2014
PROJECT DETAILS: San Juan County, NM NAD27
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 Rocky Mountain, LLC	Local Co-ordinate Reference:	Well NW Lybrook UT #289H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
Site:	Lybrook UT	MD Reference:	GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
Well:	NW Lybrook UT #289H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project	San Juan County, NM NAD27		
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	Lybrook UT				
Site Position:		Northing:	1,920,753.02 usft	Latitude:	36.2787200
From:	Lat/Long	Easting:	556,843.58 usft	Longitude:	-107.6404800
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.11 °

Well	NW Lybrook UT #289H					
Well Position	+N/-S	0.00 ft	Northing:	1,920,753.02 usft	Latitude:	36.2787200
	+E/-W	0.00 ft	Easting:	556,843.58 usft	Longitude:	-107.6404800
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,846.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	11/17/2014	9.46	63.02	50,054

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	41.65	

Survey Program	Date	12/8/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
64.00	376.00	Survey #1 - MS Gyro Survey (OH)	Gyro		
464.00	5,019.00	Survey #2 - Surface MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,050.00	6,039.00	Survey #3 - Curve MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
6,145.00	12,029.00	Survey #4 - Lateral MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,920,753.02	556,843.58	36.2787200	-107.6404800
64.00	0.24	343.41	64.00	0.13	-0.04	1,920,753.15	556,843.54	36.2787203	-107.6404802
First MS Energy Gyro Survey									
114.00	0.22	353.66	114.00	0.32	-0.08	1,920,753.34	556,843.50	36.2787209	-107.6404803
164.00	0.39	19.62	164.00	0.58	-0.03	1,920,753.60	556,843.54	36.2787216	-107.6404802
214.00	0.38	35.20	214.00	0.88	0.12	1,920,753.89	556,843.69	36.2787224	-107.6404796
264.00	0.30	81.85	264.00	1.03	0.35	1,920,754.05	556,843.92	36.2787228	-107.6404789
314.00	0.26	69.41	314.00	1.09	0.58	1,920,754.11	556,844.15	36.2787230	-107.6404781
364.00	0.34	137.17	364.00	1.02	0.79	1,920,754.04	556,844.36	36.2787228	-107.6404774

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well NW Lybrook UT #289H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
Site:	Lybrook UT	MD Reference:	GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
Well:	NW Lybrook UT #289H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
376.00	0.27	141.08	376.00	0.97	0.83	1,920,753.99	556,844.40	36.2787226	-107.6404772
Last MS Energy Gyro Survey									
464.00	0.38	164.81	463.99	0.53	1.04	1,920,753.55	556,844.61	36.2787214	-107.6404765
First SDI Surface MWD Survey									
527.00	0.50	177.83	526.99	0.05	1.10	1,920,753.07	556,844.68	36.2787201	-107.6404763
590.00	1.36	344.93	589.99	0.50	0.92	1,920,753.52	556,844.49	36.2787213	-107.6404769
653.00	3.10	344.32	652.94	2.86	0.26	1,920,755.88	556,843.83	36.2787278	-107.6404791
716.00	4.17	348.21	715.81	6.74	-0.66	1,920,759.76	556,842.90	36.2787385	-107.6404823
777.00	5.47	350.75	776.59	11.78	-1.59	1,920,764.80	556,841.97	36.2787524	-107.6404854
841.00	6.71	345.99	840.23	18.42	-2.98	1,920,771.44	556,840.56	36.2787706	-107.6404902
904.00	8.29	334.47	902.69	26.09	-5.83	1,920,779.10	556,837.69	36.2787917	-107.6404998
966.00	9.76	330.16	963.93	34.69	-10.37	1,920,787.68	556,833.14	36.2788153	-107.6405152
1,028.00	10.90	322.95	1,024.92	43.92	-16.52	1,920,796.91	556,826.97	36.2788406	-107.6405361
1,091.00	12.13	316.98	1,086.65	53.52	-24.62	1,920,806.49	556,818.85	36.2788670	-107.6405636
1,154.00	13.40	316.73	1,148.10	63.67	-34.14	1,920,816.62	556,809.30	36.2788949	-107.6405959
1,215.00	14.57	317.21	1,207.29	74.45	-44.20	1,920,827.38	556,799.23	36.2789245	-107.6406300
1,275.00	15.80	315.72	1,265.19	85.84	-55.03	1,920,838.75	556,788.37	36.2789558	-107.6406667
1,335.00	17.32	314.88	1,322.70	97.99	-67.06	1,920,850.87	556,776.32	36.2789892	-107.6407076
1,395.00	17.67	314.61	1,379.93	110.69	-79.87	1,920,863.54	556,763.48	36.2790240	-107.6407510
1,457.00	17.87	315.05	1,438.97	124.03	-93.29	1,920,876.86	556,750.03	36.2790607	-107.6407966
1,517.00	18.36	315.62	1,495.99	137.29	-106.41	1,920,890.10	556,736.90	36.2790971	-107.6408410
1,578.00	18.66	315.31	1,553.84	151.10	-119.99	1,920,903.88	556,723.29	36.2791351	-107.6408871
1,639.00	18.74	313.18	1,611.62	164.74	-134.00	1,920,917.49	556,709.25	36.2791725	-107.6409347
1,699.00	18.08	308.70	1,668.55	177.16	-148.29	1,920,929.88	556,694.93	36.2792067	-107.6409832
1,761.00	17.56	306.06	1,727.58	188.68	-163.36	1,920,941.37	556,679.84	36.2792383	-107.6410343
1,822.00	16.88	306.55	1,785.84	199.37	-177.92	1,920,952.03	556,665.26	36.2792677	-107.6410837
1,882.00	15.87	307.05	1,843.41	209.50	-191.46	1,920,962.14	556,651.70	36.2792955	-107.6411296
1,943.00	15.82	307.14	1,902.09	219.55	-204.75	1,920,972.16	556,638.39	36.2793231	-107.6411747
2,004.00	14.92	310.17	1,960.91	229.63	-217.38	1,920,982.22	556,625.74	36.2793508	-107.6412175
2,065.00	15.25	314.22	2,019.81	240.29	-229.13	1,920,992.85	556,613.97	36.2793801	-107.6412574
2,124.00	15.67	316.07	2,076.67	251.44	-240.22	1,921,003.98	556,602.86	36.2794107	-107.6412950
2,185.00	15.34	314.83	2,135.45	263.07	-251.65	1,921,015.58	556,591.40	36.2794426	-107.6413338
2,246.00	15.66	318.46	2,194.24	274.92	-262.84	1,921,027.41	556,580.19	36.2794752	-107.6413718
2,307.00	15.88	323.19	2,252.94	287.76	-273.30	1,921,040.23	556,569.71	36.2795105	-107.6414073
2,368.00	15.79	321.51	2,311.63	300.94	-283.46	1,921,053.39	556,559.52	36.2795467	-107.6414417
2,429.00	15.66	320.47	2,370.34	313.78	-293.87	1,921,066.22	556,549.09	36.2795820	-107.6414771
2,491.00	16.23	320.60	2,429.96	326.93	-304.69	1,921,079.34	556,538.23	36.2796181	-107.6415138
2,552.00	16.24	320.25	2,488.53	340.08	-315.56	1,921,092.47	556,527.34	36.2796542	-107.6415506
2,613.00	16.13	319.11	2,547.11	353.04	-326.56	1,921,105.41	556,516.32	36.2796898	-107.6415880
2,673.00	16.19	318.01	2,604.74	365.56	-337.61	1,921,117.90	556,505.24	36.2797242	-107.6416255
2,734.00	16.37	317.47	2,663.29	378.22	-349.11	1,921,130.54	556,493.71	36.2797590	-107.6416645
2,795.00	16.75	317.66	2,721.76	391.05	-360.84	1,921,143.35	556,481.96	36.2797942	-107.6417043
2,856.00	16.68	316.79	2,780.19	403.93	-372.76	1,921,156.20	556,470.02	36.2798296	-107.6417447
2,917.00	16.86	316.62	2,838.59	416.74	-384.83	1,921,168.99	556,457.92	36.2798648	-107.6417857
2,978.00	17.17	316.83	2,896.92	429.73	-397.06	1,921,181.96	556,445.66	36.2799005	-107.6418272
3,042.00	16.50	315.28	2,958.18	443.08	-409.92	1,921,195.28	556,432.78	36.2799372	-107.6418708
3,105.00	16.62	315.02	3,018.56	455.81	-422.58	1,921,207.98	556,420.09	36.2799721	-107.6419138
3,168.00	16.05	314.39	3,079.02	468.27	-435.18	1,921,220.42	556,407.47	36.2800064	-107.6419565
3,231.00	15.87	314.00	3,139.59	480.35	-447.59	1,921,232.48	556,395.03	36.2800395	-107.6419986
3,293.00	15.90	313.96	3,199.23	492.13	-459.81	1,921,244.24	556,382.79	36.2800719	-107.6420400
3,356.00	14.79	313.74	3,259.98	503.69	-471.83	1,921,255.76	556,370.75	36.2801036	-107.6420808
3,419.00	15.98	322.40	3,320.73	516.12	-482.93	1,921,268.17	556,359.62	36.2801378	-107.6421185
3,482.00	16.96	324.08	3,381.14	530.43	-493.61	1,921,282.46	556,348.91	36.2801771	-107.6421547
3,545.00	16.53	322.70	3,441.47	545.00	-504.43	1,921,297.01	556,338.06	36.2802171	-107.6421915
3,576.00	16.71	322.70	3,471.18	552.05	-509.81	1,921,304.05	556,332.67	36.2802365	-107.6422097

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well NW Lybrook UT #289H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
Site:	Lybrook UT	MD Reference:	GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
Well:	NW Lybrook UT #289H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,639.00	16.97	322.53	3,531.47	566.56	-520.89	1,921,318.53	556,321.56	36.2802764	-107.6422473
3,702.00	16.96	321.60	3,591.73	581.05	-532.19	1,921,333.01	556,310.23	36.2803162	-107.6422856
3,764.00	17.46	320.56	3,650.96	595.32	-543.72	1,921,347.26	556,298.68	36.2803554	-107.6423247
3,827.00	16.72	321.43	3,711.18	609.71	-555.37	1,921,361.62	556,286.99	36.2803949	-107.6423643
3,890.00	15.35	321.64	3,771.72	623.33	-566.20	1,921,375.22	556,276.14	36.2804323	-107.6424010
3,952.00	14.53	322.38	3,831.63	635.93	-576.04	1,921,387.80	556,266.28	36.2804669	-107.6424344
4,015.00	13.28	322.00	3,892.78	647.89	-585.32	1,921,399.74	556,256.97	36.2804998	-107.6424659
4,078.00	13.20	319.66	3,954.10	659.08	-594.43	1,921,410.91	556,247.84	36.2805305	-107.6424968
4,140.00	12.37	311.74	4,014.57	668.89	-603.97	1,921,420.71	556,238.28	36.2805575	-107.6425292
4,203.00	12.31	310.31	4,076.12	677.73	-614.12	1,921,429.52	556,228.11	36.2805818	-107.6425636
4,266.00	10.75	310.01	4,137.84	685.85	-623.74	1,921,437.63	556,218.47	36.2806041	-107.6425963
4,329.00	9.01	312.33	4,199.91	692.95	-631.89	1,921,444.71	556,210.31	36.2806236	-107.6426239
4,391.00	7.56	311.86	4,261.26	698.94	-638.52	1,921,450.69	556,203.67	36.2806400	-107.6426464
4,454.00	5.71	313.18	4,323.83	703.85	-643.89	1,921,455.59	556,198.29	36.2806535	-107.6426646
4,517.00	3.92	319.00	4,386.61	707.63	-647.59	1,921,459.35	556,194.58	36.2806639	-107.6426772
4,581.00	2.70	325.67	4,450.50	710.52	-649.87	1,921,462.24	556,192.29	36.2806718	-107.6426849
4,646.00	2.88	321.79	4,515.42	713.07	-651.75	1,921,464.79	556,190.41	36.2806788	-107.6426913
4,706.00	2.83	325.02	4,575.35	715.47	-653.53	1,921,467.18	556,188.62	36.2806854	-107.6426973
4,768.00	2.55	319.89	4,637.28	717.78	-655.30	1,921,469.49	556,186.85	36.2806918	-107.6427033
4,831.00	2.22	319.62	4,700.23	719.78	-656.99	1,921,471.48	556,185.16	36.2806973	-107.6427091
4,893.00	2.02	314.79	4,762.18	721.46	-658.54	1,921,473.16	556,183.60	36.2807019	-107.6427143
4,956.00	1.87	310.30	4,825.15	722.91	-660.11	1,921,474.61	556,182.02	36.2807059	-107.6427197
5,019.00	0.71	55.43	4,888.14	723.79	-660.58	1,921,475.49	556,181.56	36.2807083	-107.6427212
Last SDI Surface MWD Survey									
5,050.00	3.52	115.45	4,919.11	723.49	-659.56	1,921,475.20	556,182.58	36.2807075	-107.6427178
First SDI Curve MWD Survey									
5,081.00	6.51	118.18	4,949.99	722.26	-657.15	1,921,473.96	556,184.99	36.2807041	-107.6427096
5,113.00	9.85	116.95	4,981.66	720.16	-653.11	1,921,471.87	556,189.03	36.2806983	-107.6426959
5,144.00	12.75	115.37	5,012.06	717.49	-647.65	1,921,469.21	556,194.49	36.2806910	-107.6426774
5,175.00	16.97	117.12	5,042.01	713.96	-640.53	1,921,465.70	556,201.62	36.2806813	-107.6426532
5,207.00	20.40	116.98	5,072.32	709.30	-631.40	1,921,461.06	556,210.76	36.2806685	-107.6426223
5,238.00	24.62	114.14	5,100.96	704.21	-620.69	1,921,455.98	556,221.48	36.2806545	-107.6425859
5,270.00	28.84	112.03	5,129.53	698.58	-607.45	1,921,450.39	556,234.74	36.2806390	-107.6425410
5,301.00	33.77	109.39	5,156.01	692.91	-592.38	1,921,444.75	556,249.82	36.2806235	-107.6424899
5,332.00	38.69	107.02	5,181.01	687.21	-574.98	1,921,439.08	556,267.23	36.2806078	-107.6424308
5,364.00	42.52	103.86	5,205.30	681.69	-554.91	1,921,433.60	556,287.31	36.2805927	-107.6423627
5,395.00	43.72	100.66	5,227.93	677.20	-534.20	1,921,429.15	556,308.03	36.2805803	-107.6422925
5,427.00	44.49	95.42	5,250.92	674.09	-512.17	1,921,426.09	556,330.07	36.2805718	-107.6422177
5,458.00	45.09	89.69	5,272.93	673.13	-490.37	1,921,425.17	556,351.87	36.2805691	-107.6421437
5,490.00	46.69	82.58	5,295.22	674.69	-467.47	1,921,426.78	556,374.76	36.2805734	-107.6420661
5,521.00	47.29	80.62	5,316.36	678.01	-445.05	1,921,430.14	556,397.18	36.2805825	-107.6419900
5,553.00	46.89	80.51	5,338.15	681.85	-421.93	1,921,434.02	556,420.29	36.2805931	-107.6419116
5,584.00	46.63	79.91	5,359.39	685.69	-399.68	1,921,437.91	556,442.54	36.2806036	-107.6418361
5,615.00	47.70	79.63	5,380.46	689.73	-377.31	1,921,441.99	556,464.90	36.2806147	-107.6417602
5,647.00	50.82	81.64	5,401.35	693.66	-353.39	1,921,445.97	556,488.81	36.2806255	-107.6416790
5,678.00	54.69	83.11	5,420.10	696.93	-328.93	1,921,449.29	556,513.26	36.2806345	-107.6415960
5,709.00	57.05	85.80	5,437.50	699.40	-303.40	1,921,451.81	556,538.79	36.2806413	-107.6415094
5,741.00	60.06	85.75	5,454.19	701.41	-276.17	1,921,453.87	556,566.01	36.2806468	-107.6414170
5,772.00	61.97	87.45	5,469.21	703.01	-249.11	1,921,455.53	556,593.07	36.2806512	-107.6413252
5,803.00	65.33	86.80	5,482.97	704.41	-221.37	1,921,456.98	556,620.81	36.2806551	-107.6412311
5,835.00	67.67	87.60	5,495.73	705.84	-192.06	1,921,458.47	556,650.11	36.2806590	-107.6411316
5,866.00	69.73	86.80	5,506.99	707.25	-163.21	1,921,459.94	556,678.96	36.2806629	-107.6410338
5,897.00	71.37	87.53	5,517.31	708.70	-134.02	1,921,461.44	556,708.15	36.2806668	-107.6409347
5,929.00	75.36	87.07	5,526.47	710.14	-103.40	1,921,462.95	556,738.76	36.2806708	-107.6408308
5,960.00	78.13	87.77	5,533.58	711.50	-73.26	1,921,464.37	556,768.90	36.2806745	-107.6407286

Company: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Lybrook UT
Well: NW Lybrook UT #289H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NW Lybrook UT #289H
TVD Reference: GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
MD Reference: GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,992.00	81.60	87.50	5,539.21	712.80	-41.79	1,921,465.73	556,800.37	36.2806781	-107.6406218
6,024.00	83.71	88.12	5,543.30	714.01	-10.08	1,921,467.01	556,832.08	36.2806815	-107.6405142
6,039.00	84.12	88.12	5,544.89	714.50	4.83	1,921,467.53	556,846.98	36.2806828	-107.6404636
Last SDI Curve MWD Survey									
6,091.00	86.85	87.73	5,548.98	716.38	56.63	1,921,469.51	556,898.78	36.2806879	-107.6402879
7" Casing @ 6091' MD - Landing Point (POE) @ 6091' MD									
6,145.00	89.69	87.33	5,550.61	718.70	110.55	1,921,471.94	556,952.70	36.2806943	-107.6401050
First SDI Lateral MWD Survey									
6,207.00	89.60	87.07	5,550.99	721.73	172.48	1,921,475.09	557,014.61	36.2807027	-107.6398949
6,269.00	90.22	87.86	5,551.09	724.47	234.42	1,921,477.96	557,076.55	36.2807102	-107.6396847
6,328.00	89.87	87.59	5,551.05	726.82	293.37	1,921,480.41	557,135.50	36.2807166	-107.6394847
6,388.00	90.04	87.24	5,551.09	729.52	353.31	1,921,483.24	557,195.43	36.2807241	-107.6392814
6,449.00	90.67	87.23	5,550.71	732.46	414.23	1,921,486.30	557,256.35	36.2807321	-107.6390746
6,510.00	91.01	87.31	5,549.82	735.37	475.16	1,921,489.33	557,317.27	36.2807401	-107.6388679
6,571.00	90.67	87.70	5,548.93	738.02	536.09	1,921,492.11	557,378.20	36.2807474	-107.6386612
6,631.00	90.34	87.56	5,548.40	740.51	596.04	1,921,494.71	557,438.14	36.2807542	-107.6384578
6,692.00	90.50	87.61	5,547.95	743.08	656.98	1,921,497.40	557,499.08	36.2807613	-107.6382510
6,753.00	90.81	88.06	5,547.25	745.38	717.94	1,921,499.82	557,560.03	36.2807676	-107.6380442
6,814.00	90.57	88.15	5,546.52	747.40	778.90	1,921,501.96	557,620.98	36.2807731	-107.6378374
6,875.00	90.40	88.42	5,546.00	749.22	839.87	1,921,503.91	557,681.95	36.2807781	-107.6376306
6,936.00	90.57	88.47	5,545.49	750.88	900.84	1,921,505.69	557,742.92	36.2807827	-107.6374237
6,997.00	90.44	88.85	5,544.95	752.30	961.83	1,921,507.23	557,803.90	36.2807866	-107.6372168
7,057.00	90.34	89.16	5,544.54	753.35	1,021.82	1,921,508.40	557,863.89	36.2807895	-107.6370133
7,118.00	90.34	89.39	5,544.18	754.12	1,082.81	1,921,509.29	557,924.88	36.2807916	-107.6368063
7,177.00	90.24	89.55	5,543.88	754.66	1,141.81	1,921,509.95	557,983.87	36.2807931	-107.6366062
7,239.00	89.16	88.82	5,544.20	755.55	1,203.80	1,921,510.96	558,045.86	36.2807955	-107.6363958
7,299.00	88.81	88.30	5,545.27	757.05	1,263.77	1,921,512.59	558,105.83	36.2807996	-107.6361924
7,360.00	90.04	90.49	5,545.88	757.70	1,324.76	1,921,513.35	558,166.82	36.2808014	-107.6359854
7,421.00	89.52	91.20	5,546.11	756.80	1,385.75	1,921,512.57	558,227.81	36.2807989	-107.6357785
7,482.00	90.04	90.76	5,546.35	755.75	1,446.74	1,921,511.65	558,288.80	36.2807960	-107.6355716
7,544.00	91.54	91.06	5,545.49	754.77	1,508.72	1,921,510.79	558,350.79	36.2807933	-107.6353613
7,605.00	91.45	91.12	5,543.90	753.61	1,569.69	1,921,509.75	558,411.76	36.2807901	-107.6351544
7,666.00	90.91	91.66	5,542.64	752.13	1,630.66	1,921,508.39	558,472.73	36.2807860	-107.6349476
7,727.00	89.87	91.28	5,542.23	750.57	1,691.64	1,921,506.95	558,533.71	36.2807817	-107.6347407
7,787.00	90.04	91.72	5,542.28	748.99	1,751.62	1,921,505.50	558,593.69	36.2807774	-107.6345372
7,848.00	90.00	90.87	5,542.25	747.62	1,812.60	1,921,504.24	558,654.68	36.2807736	-107.6343303
7,909.00	89.69	89.88	5,542.42	747.22	1,873.60	1,921,503.96	558,715.68	36.2807725	-107.6341233
7,970.00	87.85	89.09	5,543.73	747.76	1,934.58	1,921,504.63	558,776.66	36.2807740	-107.6339165
8,032.00	90.37	90.14	5,544.69	748.18	1,996.57	1,921,505.17	558,838.64	36.2807751	-107.6337061
8,095.00	90.27	90.07	5,544.34	748.07	2,059.56	1,921,505.18	558,901.64	36.2807748	-107.6334924
8,158.00	91.18	91.06	5,543.54	747.44	2,122.55	1,921,504.69	558,964.63	36.2807731	-107.6332787
8,220.00	91.65	91.35	5,542.01	746.14	2,184.52	1,921,503.51	559,026.60	36.2807695	-107.6330685
8,283.00	90.84	91.55	5,540.64	744.55	2,247.49	1,921,502.04	559,089.57	36.2807651	-107.6328548
8,345.00	90.20	91.05	5,540.08	743.14	2,309.47	1,921,500.76	559,151.55	36.2807612	-107.6326445
8,408.00	90.54	90.25	5,539.67	742.43	2,372.46	1,921,500.17	559,214.55	36.2807592	-107.6324308
8,471.00	91.81	90.18	5,538.38	742.19	2,435.45	1,921,500.06	559,277.53	36.2807586	-107.6322171
8,533.00	91.65	90.03	5,536.51	742.08	2,497.42	1,921,500.07	559,339.51	36.2807582	-107.6320069
8,597.00	91.80	89.53	5,534.58	742.32	2,561.39	1,921,500.44	559,403.47	36.2807589	-107.6317898
8,660.00	91.08	89.82	5,533.00	742.68	2,624.37	1,921,500.92	559,466.45	36.2807599	-107.6315762
8,723.00	89.43	88.30	5,532.72	743.71	2,687.35	1,921,502.08	559,529.44	36.2807627	-107.6313625
8,786.00	90.04	89.26	5,533.01	745.05	2,750.34	1,921,503.55	559,592.42	36.2807664	-107.6311488
8,849.00	90.13	89.26	5,532.92	745.87	2,813.33	1,921,504.49	559,655.41	36.2807686	-107.6309350
8,912.00	90.30	90.51	5,532.68	745.99	2,876.33	1,921,504.74	559,718.41	36.2807689	-107.6307213
8,975.00	90.47	90.54	5,532.26	745.42	2,939.33	1,921,504.29	559,781.41	36.2807673	-107.6305076
9,038.00	89.78	90.23	5,532.12	744.99	3,002.32	1,921,503.99	559,844.40	36.2807661	-107.6302938



Survey Report - Geographic



Company: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Lybrook UT
Well: NW Lybrook UT #289H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NW Lybrook UT #289H
TVD Reference: GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
MD Reference: GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,101.00	87.49	88.65	5,533.62	745.61	3,065.30	1,921,504.73	559,907.38	36.2807678	-107.6300802
9,163.00	89.16	89.00	5,535.43	746.88	3,127.26	1,921,506.12	559,969.33	36.2807713	-107.6298700
9,226.00	89.25	89.79	5,536.31	747.54	3,190.25	1,921,506.91	560,032.32	36.2807731	-107.6296563
9,289.00	90.00	90.41	5,536.72	747.43	3,253.24	1,921,506.93	560,095.32	36.2807728	-107.6294425
9,352.00	89.69	89.09	5,536.89	747.71	3,316.24	1,921,507.33	560,158.31	36.2807735	-107.6292288
9,414.00	90.87	90.57	5,536.59	747.89	3,378.24	1,921,507.64	560,220.31	36.2807740	-107.6290185
9,476.00	90.84	91.81	5,535.66	746.61	3,440.22	1,921,506.47	560,282.29	36.2807704	-107.6288082
9,539.00	91.18	91.65	5,534.55	744.70	3,503.18	1,921,504.70	560,345.26	36.2807652	-107.6285946
9,602.00	89.34	90.58	5,534.27	743.48	3,566.16	1,921,503.60	560,408.24	36.2807618	-107.6283809
9,665.00	89.43	90.77	5,534.94	742.74	3,629.15	1,921,502.98	560,471.23	36.2807597	-107.6281672
9,728.00	89.08	90.32	5,535.76	742.14	3,692.14	1,921,502.51	560,534.23	36.2807581	-107.6279534
9,791.00	90.84	90.17	5,535.81	741.87	3,755.14	1,921,502.36	560,597.22	36.2807573	-107.6277397
9,852.00	91.04	90.57	5,534.80	741.47	3,816.13	1,921,502.09	560,658.22	36.2807562	-107.6275328
9,916.00	90.94	90.31	5,533.70	740.98	3,880.12	1,921,501.73	560,722.20	36.2807548	-107.6273157
9,979.00	90.94	90.26	5,532.67	740.67	3,943.11	1,921,501.54	560,785.20	36.2807539	-107.6271020
10,042.00	90.80	89.99	5,531.71	740.53	4,006.10	1,921,501.53	560,848.19	36.2807535	-107.6268882
10,106.00	90.67	89.61	5,530.89	740.76	4,070.10	1,921,501.88	560,912.18	36.2807541	-107.6266711
10,168.00	91.01	89.39	5,529.98	741.30	4,132.09	1,921,502.54	560,974.17	36.2807556	-107.6264608
10,231.00	90.98	89.18	5,528.88	742.08	4,195.07	1,921,503.45	561,037.15	36.2807577	-107.6262471
10,294.00	91.18	88.96	5,527.70	743.10	4,258.05	1,921,504.60	561,100.13	36.2807605	-107.6260334
10,357.00	91.61	90.10	5,526.16	743.62	4,321.03	1,921,505.24	561,163.11	36.2807619	-107.6258198
10,420.00	90.92	91.02	5,524.77	743.01	4,384.01	1,921,504.75	561,226.09	36.2807602	-107.6256061
10,483.00	90.17	90.43	5,524.17	742.21	4,447.00	1,921,504.08	561,289.08	36.2807580	-107.6253924
10,546.00	89.34	89.79	5,524.44	742.09	4,510.00	1,921,504.09	561,352.08	36.2807576	-107.6251786
10,609.00	89.60	89.61	5,525.03	742.42	4,573.00	1,921,504.54	561,415.08	36.2807585	-107.6249649
10,672.00	90.97	91.13	5,524.71	742.01	4,635.99	1,921,504.26	561,478.07	36.2807573	-107.6247512
10,734.00	91.99	91.91	5,523.11	740.37	4,697.95	1,921,502.74	561,540.03	36.2807528	-107.6245410
10,797.00	92.02	91.73	5,520.91	738.37	4,760.88	1,921,500.86	561,602.97	36.2807473	-107.6243275
10,860.00	90.94	91.16	5,519.28	736.78	4,823.84	1,921,499.40	561,665.93	36.2807429	-107.6241139
10,922.00	92.59	89.87	5,517.37	736.22	4,885.80	1,921,498.97	561,727.89	36.2807413	-107.6239036
10,985.00	92.89	90.47	5,514.36	736.03	4,948.73	1,921,498.91	561,790.82	36.2807408	-107.6236901
11,048.00	91.72	90.87	5,511.82	735.30	5,011.67	1,921,498.30	561,853.76	36.2807387	-107.6234766
11,111.00	92.89	92.03	5,509.29	733.71	5,074.60	1,921,496.83	561,916.69	36.2807343	-107.6232631
11,174.00	95.52	92.67	5,504.67	731.13	5,137.37	1,921,494.38	561,979.47	36.2807272	-107.6230501
11,237.00	95.76	92.43	5,498.48	728.34	5,200.00	1,921,491.71	562,042.11	36.2807195	-107.6228376
11,301.00	94.75	90.18	5,492.62	726.89	5,263.71	1,921,490.39	562,105.82	36.2807155	-107.6226215
11,363.00	93.53	91.96	5,488.14	725.74	5,325.54	1,921,489.36	562,167.65	36.2807123	-107.6224117
11,426.00	90.54	90.76	5,485.90	724.24	5,388.47	1,921,487.99	562,230.58	36.2807082	-107.6221982
11,489.00	89.60	87.86	5,485.83	725.00	5,451.46	1,921,488.87	562,293.57	36.2807102	-107.6219845
11,552.00	89.16	88.30	5,486.51	727.11	5,514.42	1,921,491.11	562,356.53	36.2807160	-107.6217709
11,615.00	89.60	88.31	5,487.19	728.97	5,577.39	1,921,493.10	562,419.49	36.2807211	-107.6215572
11,679.00	89.43	89.11	5,487.73	730.42	5,641.37	1,921,494.67	562,483.47	36.2807250	-107.6213402
11,742.00	89.36	87.93	5,488.40	732.04	5,704.34	1,921,496.42	562,546.44	36.2807294	-107.6211265
11,805.00	88.32	86.17	5,489.67	735.28	5,767.24	1,921,499.79	562,609.33	36.2807383	-107.6209131
11,868.00	89.97	86.95	5,490.61	739.06	5,830.12	1,921,503.69	562,672.20	36.2807486	-107.6206998
11,926.00	89.32	86.67	5,490.97	742.29	5,888.03	1,921,507.03	562,730.10	36.2807575	-107.6205033
Base Perf @ 11,926' MD									
11,931.00	89.26	86.65	5,491.04	742.58	5,893.02	1,921,507.33	562,735.09	36.2807583	-107.6204864
11,965.00	89.23	86.51	5,491.48	744.61	5,926.96	1,921,509.43	562,769.03	36.2807638	-107.6203712
Last SDI Lateral MWD Survey									
12,029.00	89.23	86.51	5,492.35	748.50	5,990.83	1,921,513.45	562,832.89	36.2807745	-107.6201545
Projection to TD @ 12,029' MD									



Company: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Lybrook UT
Well: NW Lybrook UT #289H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NW Lybrook UT #289H
TVD Reference: GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
MD Reference: GL 6846' & KB 14' @ 6860.00ft (Aztec 730)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
64.00	64.00	0.13	-0.04	First MS Energy Gyro Survey
376.00	376.00	0.97	0.83	Last MS Energy Gyro Survey
464.00	463.99	0.53	1.04	First SDI Surface MWD Survey
5,019.00	4,888.14	723.79	-660.58	Last SDI Surface MWD Survey
5,050.00	4,919.11	723.49	-659.56	First SDI Curve MWD Survey
6,039.00	5,544.89	714.50	4.83	Last SDI Curve MWD Survey
6,091.00	5,548.98	716.38	56.63	7" Casing @ 6091' MD
6,091.00	5,548.98	716.38	56.63	Landing Point (POE) @ 6091' MD
6,145.00	5,550.61	718.70	110.55	First SDI Lateral MWD Survey
11,926.00	5,490.97	742.29	5,888.03	Base Perf @ 11,926' MD
11,965.00	5,491.48	744.61	5,926.96	Last SDI Lateral MWD Survey
12,029.00	5,492.35	748.50	5,990.83	Projection to TD @ 12,029' MD

Checked By: _____ Approved By: _____ Date: _____