

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 30-045-35499		*Pool Code 42289		*Pool Name LYBROOK GALLUP	
*Property Code 40446		*Property Name CHACO 2408-25M			*Well Number 237H
*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		261	SOUTH	330	WEST	SAN JUAN

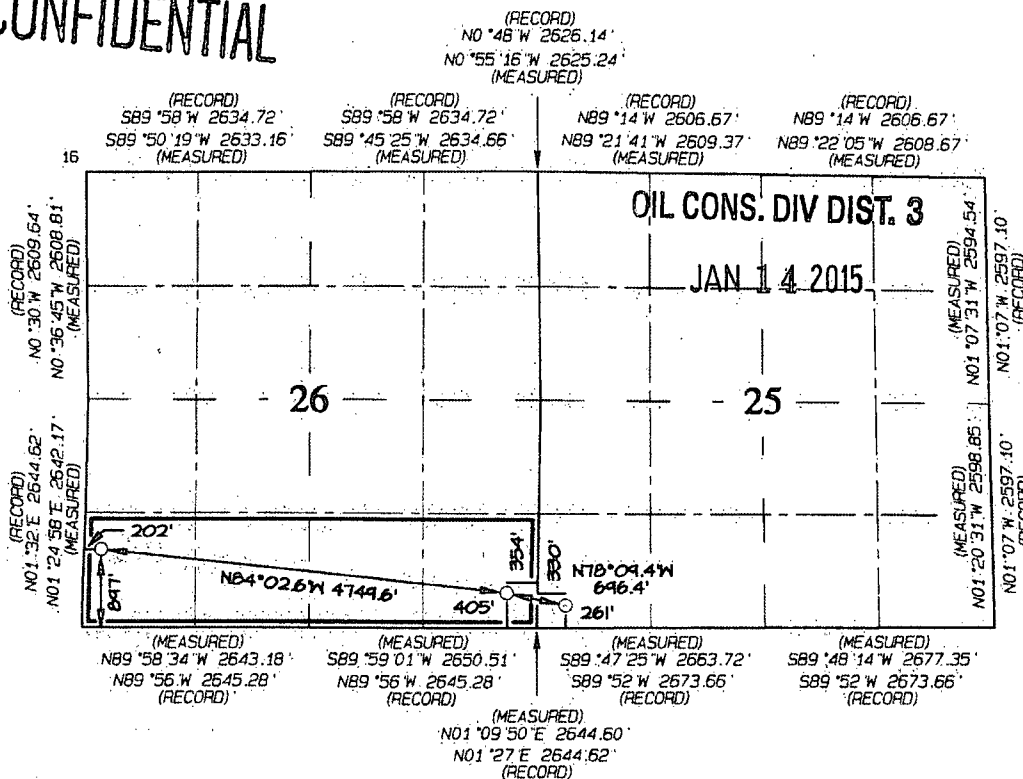
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	26	24N	8W		897	SOUTH	202	WEST	SAN JUAN

¹² Dedicated Acres 160.0 Acres S/2 S/2 - Section 26	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL 7228
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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 an 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: 1/13/15

Printed Name: Marie E. Jaramillo

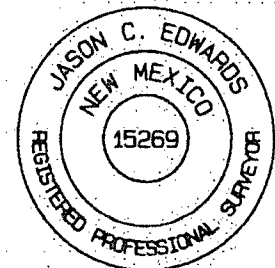
E-mail Address: marie.jaramillo@wpxenergy.com

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: JANUARY 13, 2015
Survey Date: AUGUST 30, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

END-OF-LATERAL
897' FSL 202' FWL
SECTION 26, T24N, R8W
LAT: 36.280511° N
LONG: 107.658964° W
DATUM: NAD1927

BASE PERFORATION
889' FSL 307' FWL
SECTION 26, T24N, R8W
LAT: 36.280487° N
LONG: 107.658605° W
DATUM: NAD1927

POINT-OF-ENTRY
405' FSL 354' FEL
SECTION 26, T24N, R8W
LAT: 36.279133° N
LONG: 107.642940° W
DATUM: NAD1927

SURFACE LOCATION
261' FSL 330' FWL
SECTION 25, T24N, R8W
LAT: 36.278737° N
LONG: 107.640528° W
DATUM: NAD1927

LAT: 36.280524° N
LONG: 107.659574° W
DATUM: NAD1983

LAT: 36.280499° N
LONG: 107.659216° W
DATUM: NAD1983

LAT: 36.279145° N
LONG: 107.643550° W
DATUM: NAD1983

LAT: 36.278749° N
LONG: 107.641238° W
DATUM: NAD1983

AV

7



Scientific Drilling

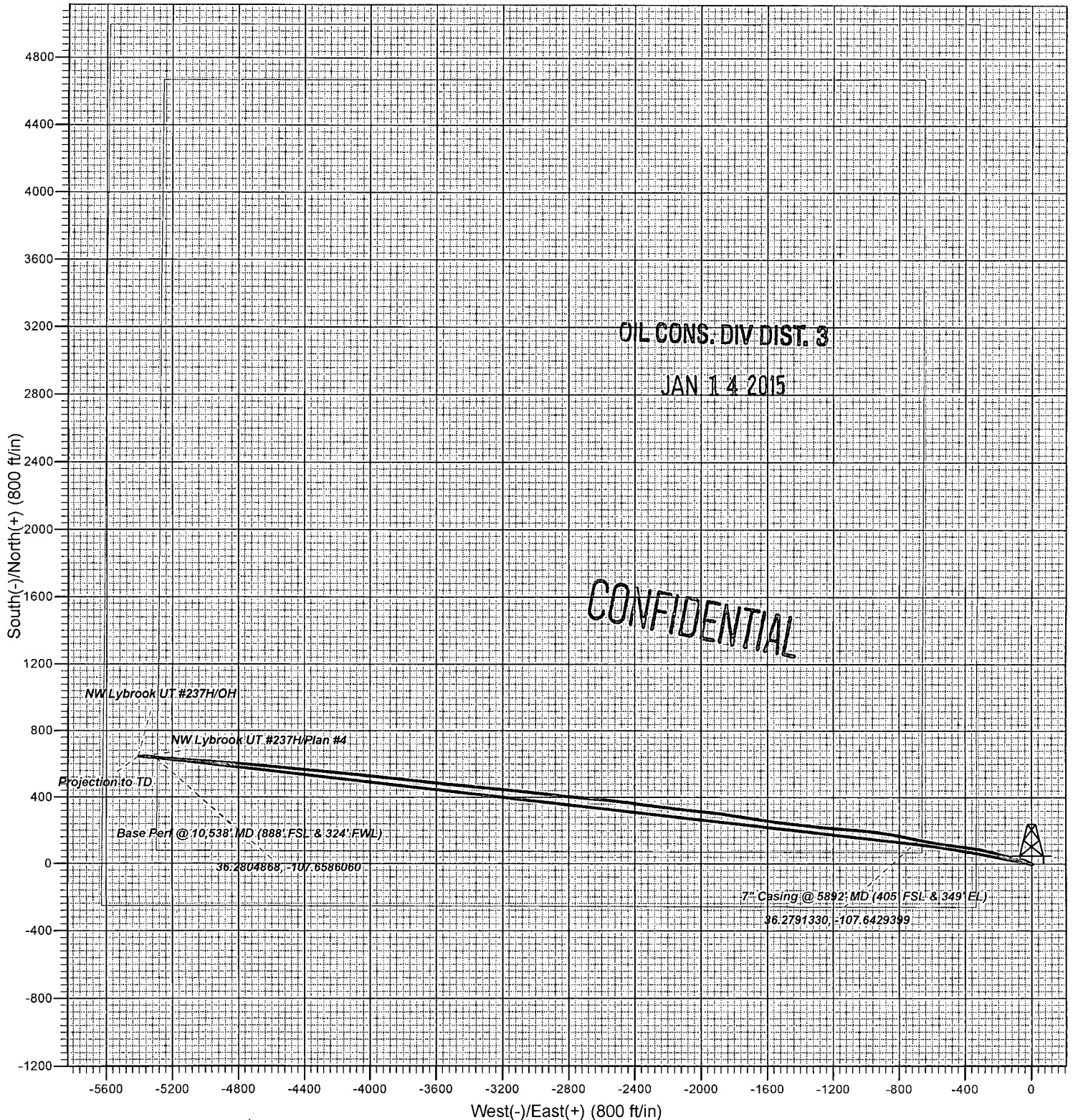
Company: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Lybrook UT



Well Details: NW Lybrook UT #237H

TVD Reference: GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1920759.12	556799.35	36.2787370	-107.6406300	



Plan: OH

15:30, January 09 2015
Created By: Janie Collins



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well NW Lybrook UT #237H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Site:	Lybrook UT	MD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Well:	NW Lybrook UT #237H	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 #237H			
Well Position	+N/-S	0.00 ft	Northing:	1,920,759.12 usft
	+E/-W	0.00 ft	Easting:	556,799.35 usft
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	12/21/2014	9.45	63.02	50,042

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	306.86

Survey Program	Date	1/9/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
50.00	350.00	Survey #1 - Gyro Survey (OH)	Gyro	
364.00	4,404.00	Survey #2 - Surface MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1
4,467.00	5,982.00	Survey #3 - Curve MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1
6,042.00	10,644.00	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	1,920,759.12	556,799.35	36.2787370	-107.6406300
50.00	0.46	325.19	50.00	0.16	-0.11	1,920,759.28	556,799.24	36.2787374	-107.6406304
First MS Energy Gyro Survey									
100.00	0.49	316.98	100.00	0.49	-0.38	1,920,759.60	556,798.97	36.2787383	-107.6406313
150.00	0.42	321.45	150.00	0.79	-0.64	1,920,759.90	556,798.71	36.2787391	-107.6406322
200.00	0.31	328.06	200.00	1.04	-0.82	1,920,760.16	556,798.53	36.2787398	-107.6406328
250.00	0.07	316.49	249.99	1.18	-0.91	1,920,760.30	556,798.44	36.2787402	-107.6406331
300.00	0.29	156.32	299.99	1.09	-0.88	1,920,760.20	556,798.47	36.2787400	-107.6406330

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well NW Lybrook UT #237H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Site:	Lybrook UT	MD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Well:	NW Lybrook UT #237H	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
350.00	0.64	209.95	349.99	0.73	-0.97	1,920,759.85	556,798.38	36.2787390	-107.6406333
Last MS Energy Gyro Survey									
364.00	0.64	209.95	363.99	0.59	-1.05	1,920,759.71	556,798.30	36.2787386	-107.6406336
464.00	0.54	165.64	463.99	-0.35	-1.21	1,920,758.77	556,798.14	36.2787360	-107.6406342
First SDI Surface MWD Survey									
527.00	0.55	154.58	526.98	-0.91	-1.01	1,920,758.21	556,798.34	36.2787345	-107.6406335
591.00	0.10	238.53	590.98	-1.21	-0.92	1,920,757.90	556,798.43	36.2787336	-107.6406332
654.00	0.22	272.66	653.98	-1.24	-1.09	1,920,757.88	556,798.26	36.2787336	-107.6406337
717.00	0.20	288.21	716.98	-1.20	-1.32	1,920,757.92	556,798.04	36.2787337	-107.6406345
779.00	0.24	281.26	778.98	-1.14	-1.55	1,920,757.98	556,797.81	36.2787338	-107.6406353
843.00	0.22	263.26	842.98	-1.13	-1.80	1,920,757.99	556,797.55	36.2787339	-107.6406362
906.00	0.24	274.39	905.98	-1.13	-2.05	1,920,757.98	556,797.30	36.2787339	-107.6406370
969.00	0.24	270.01	968.98	-1.12	-2.32	1,920,757.99	556,797.04	36.2787339	-107.6406379
1,032.00	0.24	247.55	1,031.98	-1.17	-2.57	1,920,757.94	556,796.78	36.2787338	-107.6406388
1,094.00	0.20	288.55	1,093.98	-1.19	-2.79	1,920,757.93	556,796.56	36.2787337	-107.6406395
1,157.00	0.24	281.87	1,156.98	-1.12	-3.03	1,920,757.99	556,796.33	36.2787339	-107.6406403
1,217.00	0.24	261.30	1,216.98	-1.12	-3.27	1,920,757.99	556,796.08	36.2787339	-107.6406411
1,277.00	0.46	262.66	1,276.98	-1.17	-3.64	1,920,757.94	556,795.72	36.2787338	-107.6406424
1,338.00	0.35	281.51	1,337.98	-1.16	-4.06	1,920,757.95	556,795.29	36.2787338	-107.6406438
1,399.00	0.36	264.66	1,398.98	-1.14	-4.44	1,920,757.97	556,794.92	36.2787338	-107.6406451
1,460.00	0.50	267.00	1,459.97	-1.17	-4.89	1,920,757.94	556,794.46	36.2787338	-107.6406466
1,521.00	0.51	260.56	1,520.97	-1.23	-5.43	1,920,757.88	556,793.93	36.2787336	-107.6406484
1,582.00	0.35	137.17	1,581.97	-1.41	-5.57	1,920,757.69	556,793.79	36.2787331	-107.6406489
1,643.00	0.77	144.48	1,642.97	-1.88	-5.20	1,920,757.22	556,794.15	36.2787318	-107.6406477
1,703.00	0.79	97.52	1,702.96	-2.27	-4.56	1,920,756.84	556,794.80	36.2787308	-107.6406455
1,763.00	1.02	85.21	1,762.95	-2.27	-3.62	1,920,756.84	556,795.74	36.2787307	-107.6406423
1,824.00	1.01	87.31	1,823.95	-2.20	-2.54	1,920,756.91	556,796.82	36.2787309	-107.6406387
1,885.00	0.88	81.32	1,884.94	-2.11	-1.54	1,920,757.01	556,797.82	36.2787312	-107.6406353
1,946.00	0.88	89.62	1,945.93	-2.03	-0.61	1,920,757.08	556,798.75	36.2787314	-107.6406321
2,007.00	0.85	79.61	2,006.92	-1.95	0.31	1,920,757.17	556,799.66	36.2787316	-107.6406290
2,068.00	0.99	81.86	2,067.91	-1.79	1.27	1,920,757.33	556,800.63	36.2787320	-107.6406257
2,130.00	0.29	38.81	2,129.91	-1.60	1.90	1,920,757.53	556,801.26	36.2787326	-107.6406236
2,192.00	0.24	318.56	2,191.91	-1.38	1.92	1,920,757.75	556,801.27	36.2787332	-107.6406235
2,252.00	0.34	276.92	2,251.91	-1.26	1.66	1,920,757.86	556,801.01	36.2787335	-107.6406244
2,313.00	0.40	249.11	2,312.91	-1.31	1.28	1,920,757.81	556,800.63	36.2787334	-107.6406257
2,375.00	0.40	249.29	2,374.91	-1.47	0.87	1,920,757.65	556,800.23	36.2787329	-107.6406271
2,437.00	0.48	253.43	2,436.91	-1.62	0.42	1,920,757.50	556,799.77	36.2787325	-107.6406286
2,497.00	0.47	256.47	2,496.90	-1.75	-0.06	1,920,757.37	556,799.30	36.2787322	-107.6406302
2,558.00	0.57	254.04	2,557.90	-1.89	-0.59	1,920,757.23	556,798.76	36.2787318	-107.6406321
2,619.00	0.61	255.41	2,618.90	-2.06	-1.20	1,920,757.06	556,798.15	36.2787313	-107.6406341
2,679.00	0.51	252.56	2,678.89	-2.22	-1.76	1,920,756.90	556,797.59	36.2787309	-107.6406360
2,741.00	0.59	246.28	2,740.89	-2.43	-2.32	1,920,756.69	556,797.04	36.2787303	-107.6406379
2,804.00	0.83	241.13	2,803.89	-2.78	-3.02	1,920,756.33	556,796.34	36.2787293	-107.6406403
2,867.00	0.75	312.60	2,866.88	-2.72	-3.72	1,920,756.39	556,795.64	36.2787295	-107.6406427
2,930.00	0.67	327.16	2,929.88	-2.13	-4.22	1,920,756.98	556,795.13	36.2787311	-107.6406444
2,992.00	0.49	311.71	2,991.87	-1.65	-4.62	1,920,757.46	556,794.74	36.2787324	-107.6406457
3,055.00	0.72	303.13	3,054.87	-1.25	-5.15	1,920,757.85	556,794.20	36.2787335	-107.6406475
3,117.00	0.67	309.97	3,116.87	-0.81	-5.75	1,920,758.30	556,793.60	36.2787348	-107.6406496
3,181.00	0.62	319.35	3,180.86	-0.30	-6.27	1,920,758.80	556,793.09	36.2787361	-107.6406513
3,234.00	0.20	330.37	3,233.86	-0.01	-6.50	1,920,759.10	556,792.85	36.2787370	-107.6406521
3,307.00	0.10	84.34	3,306.86	0.11	-6.50	1,920,759.22	556,792.85	36.2787373	-107.6406521
3,370.00	0.12	121.78	3,369.86	0.08	-6.39	1,920,759.19	556,792.96	36.2787372	-107.6406517
3,432.00	0.20	199.39	3,431.86	-0.06	-6.37	1,920,759.05	556,792.98	36.2787368	-107.6406516
3,495.00	0.24	141.38	3,494.86	-0.26	-6.32	1,920,758.84	556,793.03	36.2787363	-107.6406515
3,558.00	0.23	219.50	3,557.86	-0.46	-6.32	1,920,758.64	556,793.03	36.2787357	-107.6406515



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well NW Lybrook UT #237H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Site:	Lybrook, UT	MD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Well:	NW Lybrook UT #237H	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
3,685.00	0.48	17.96	3,684.86	-0.15	-6.32	1,920,758.95	556,793.03	36.2787366	-107.6406515
3,715.00	0.81	47.87	3,714.86	0.11	-6.12	1,920,759.21	556,793.23	36.2787373	-107.6406508
3,778.00	0.69	50.45	3,777.85	0.65	-5.50	1,920,759.76	556,793.85	36.2787388	-107.6406487
3,840.00	0.97	42.14	3,839.84	1.28	-4.86	1,920,760.38	556,794.49	36.2787405	-107.6406465
3,903.00	0.27	57.92	3,902.84	1.75	-4.38	1,920,760.86	556,794.97	36.2787418	-107.6406449
3,965.00	0.27	292.41	3,964.84	1.88	-4.39	1,920,760.99	556,794.96	36.2787421	-107.6406449
4,027.00	0.24	315.58	4,026.84	2.03	-4.61	1,920,761.14	556,794.73	36.2787426	-107.6406457
4,090.00	0.41	10.84	4,089.84	2.35	-4.66	1,920,761.46	556,794.68	36.2787434	-107.6406459
4,153.00	0.51	347.37	4,152.84	2.84	-4.68	1,920,761.95	556,794.66	36.2787448	-107.6406459
4,215.00	0.53	19.12	4,214.83	3.38	-4.65	1,920,762.49	556,794.70	36.2787463	-107.6406458
4,278.00	0.17	336.10	4,277.83	3.74	-4.59	1,920,762.85	556,794.75	36.2787473	-107.6406456
4,341.00	0.36	319.41	4,340.83	3.98	-4.76	1,920,763.09	556,794.59	36.2787479	-107.6406462
4,404.00	0.38	345.33	4,403.83	4.33	-4.94	1,920,763.44	556,794.40	36.2787489	-107.6406468
Last SDI Surface MWD Survey									
4,467.00	0.10	355.80	4,466.83	4.59	-5.00	1,920,763.70	556,794.35	36.2787496	-107.6406470
First SDI Curve MWD Survey									
4,529.00	0.21	252.22	4,528.83	4.61	-5.11	1,920,763.72	556,794.23	36.2787496	-107.6406474
4,592.00	0.34	276.27	4,591.83	4.59	-5.40	1,920,763.70	556,793.94	36.2787496	-107.6406484
4,654.00	0.08	314.19	4,653.83	4.64	-5.62	1,920,763.75	556,793.72	36.2787497	-107.6406491
4,717.00	0.47	227.02	4,716.83	4.50	-5.84	1,920,763.60	556,793.50	36.2787493	-107.6406499
4,779.00	1.12	275.72	4,778.82	4.38	-6.63	1,920,763.49	556,792.71	36.2787490	-107.6406525
4,811.00	2.90	297.20	4,810.80	4.79	-7.66	1,920,763.89	556,791.68	36.2787501	-107.6406560
4,842.00	4.83	297.31	4,841.73	5.74	-9.52	1,920,764.84	556,789.82	36.2787528	-107.6406623
4,874.00	8.18	299.14	4,873.52	7.47	-12.70	1,920,766.56	556,786.63	36.2787575	-107.6406731
4,906.00	11.36	296.70	4,905.05	10.00	-17.51	1,920,769.08	556,781.82	36.2787644	-107.6406894
4,937.00	15.04	295.53	4,935.23	13.10	-23.87	1,920,772.17	556,775.46	36.2787730	-107.6407110
4,968.00	17.12	293.81	4,965.01	16.68	-31.67	1,920,775.73	556,767.65	36.2787828	-107.6407375
5,000.00	20.14	291.40	4,995.33	20.59	-41.11	1,920,779.63	556,758.20	36.2787935	-107.6407695
5,031.00	21.92	287.61	5,024.27	24.29	-51.60	1,920,783.30	556,747.71	36.2788037	-107.6408051
5,062.00	24.01	285.04	5,052.81	27.68	-63.21	1,920,786.67	556,736.09	36.2788130	-107.6408445
5,094.00	24.82	284.11	5,081.95	31.00	-76.01	1,920,789.97	556,723.28	36.2788221	-107.6408879
5,125.00	25.68	282.26	5,109.99	34.02	-88.88	1,920,792.96	556,710.40	36.2788304	-107.6409316
5,157.00	27.94	279.38	5,138.55	36.71	-103.05	1,920,795.62	556,696.22	36.2788378	-107.6409797
5,188.00	30.25	279.19	5,165.63	39.14	-117.93	1,920,798.02	556,681.34	36.2788445	-107.6410301
5,220.00	32.00	280.40	5,193.03	41.96	-134.23	1,920,800.81	556,665.04	36.2788522	-107.6410854
5,251.00	34.47	282.79	5,218.95	45.38	-150.87	1,920,804.20	556,648.40	36.2788617	-107.6411419
5,282.00	37.03	284.79	5,244.11	49.71	-168.45	1,920,808.49	556,630.80	36.2788735	-107.6412015
5,314.00	40.98	286.39	5,268.97	55.13	-187.84	1,920,813.88	556,611.40	36.2788884	-107.6412673
5,345.00	43.54	285.85	5,291.92	60.92	-207.87	1,920,819.62	556,591.36	36.2789043	-107.6413353
5,377.00	45.73	285.34	5,314.69	66.96	-229.52	1,920,825.62	556,569.70	36.2789209	-107.6414087
5,408.00	47.55	284.20	5,335.97	72.70	-251.31	1,920,831.32	556,547.89	36.2789367	-107.6414827
5,440.00	49.86	283.49	5,357.09	78.45	-274.66	1,920,837.02	556,524.54	36.2789525	-107.6415619
5,471.00	51.94	281.36	5,376.64	83.62	-298.15	1,920,842.15	556,501.04	36.2789667	-107.6416416
5,503.00	55.40	280.33	5,395.59	88.47	-323.46	1,920,846.94	556,475.71	36.2789800	-107.6417275
5,535.00	58.21	278.16	5,413.11	92.76	-349.89	1,920,851.18	556,449.28	36.2789918	-107.6418171
5,566.00	61.59	276.95	5,428.66	96.28	-376.47	1,920,854.65	556,422.69	36.2790015	-107.6419073
5,597.00	63.33	277.03	5,442.99	99.63	-403.76	1,920,857.94	556,395.40	36.2790107	-107.6419999
5,629.00	64.54	277.16	5,457.05	103.18	-432.28	1,920,861.43	556,366.87	36.2790204	-107.6420966
5,660.00	66.58	276.84	5,469.88	106.62	-460.29	1,920,864.82	556,338.85	36.2790298	-107.6421917
5,691.00	70.28	278.05	5,481.27	110.35	-488.87	1,920,868.50	556,310.26	36.2790401	-107.6422886
5,723.00	71.57	278.24	5,491.73	114.64	-518.81	1,920,872.72	556,280.32	36.2790519	-107.6423902
5,754.00	72.98	278.75	5,501.17	119.00	-548.01	1,920,877.03	556,251.10	36.2790639	-107.6424893
5,785.00	74.76	279.85	5,509.78	123.81	-577.40	1,920,881.78	556,221.71	36.2790771	-107.6425890
5,817.00	78.35	281.29	5,517.22	129.53	-607.99	1,920,887.43	556,191.11	36.2790928	-107.6426928
5,848.00	82.10	281.40	5,522.48	135.53	-637.93	1,920,893.38	556,161.15	36.2791093	-107.6427944



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well NW Lybrook UT #237H
Project:	San Juan County, NM-NAD27	TVD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Site:	Lybrook UT	MD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Well:	NW Lybrook UT #237H	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
5,892.00	86.33	281.29	5,526.91	144.14	-680.84	1,920,901.91	556,118.22	36.2791329	-107.6429399
7" Casing @ 5892' MD									
5,920.00	89.03	281.22	5,528.04	149.60	-708.28	1,920,907.31	556,090.77	36.2791479	-107.6430330
5,982.00	89.46	282.00	5,528.86	162.08	-769.01	1,920,919.67	556,030.02	36.2791822	-107.6432391
Last SDI Curve MWD Survey									
6,042.00	90.67	279.74	5,528.79	173.39	-827.93	1,920,930.86	555,971.08	36.2792133	-107.6434389
First SDI Lateral MWD Survey									
6,104.00	91.38	278.13	5,527.68	183.02	-889.16	1,920,940.37	555,909.83	36.2792397	-107.6436467
6,165.00	90.91	277.51	5,526.46	191.32	-949.58	1,920,948.55	555,849.39	36.2792625	-107.6438517
6,227.00	91.28	274.86	5,525.28	198.00	-1,011.20	1,920,955.10	555,787.76	36.2792808	-107.6440608
6,287.00	90.10	275.11	5,524.56	203.21	-1,070.97	1,920,960.20	555,727.98	36.2792952	-107.6442635
6,348.00	90.10	274.31	5,524.45	208.22	-1,131.76	1,920,965.08	555,667.18	36.2793089	-107.6444698
6,408.00	90.44	273.95	5,524.17	212.54	-1,191.61	1,920,969.29	555,607.32	36.2793208	-107.6446728
6,468.00	90.40	274.48	5,523.73	216.95	-1,251.44	1,920,973.58	555,547.48	36.2793329	-107.6448758
6,531.00	90.34	276.41	5,523.32	222.93	-1,314.15	1,920,979.43	555,484.76	36.2793493	-107.6450886
6,594.00	90.84	277.24	5,522.67	230.41	-1,376.70	1,920,986.79	555,422.19	36.2793699	-107.6453008
6,657.00	90.84	276.87	5,521.75	238.15	-1,439.22	1,920,994.40	555,359.66	36.2793911	-107.6455129
6,719.00	90.61	276.90	5,520.96	245.58	-1,500.77	1,921,001.71	555,298.10	36.2794115	-107.6457217
6,783.00	90.47	277.48	5,520.36	253.59	-1,564.26	1,921,009.60	555,234.59	36.2794335	-107.6459371
6,845.00	91.04	278.86	5,519.54	262.40	-1,625.63	1,921,018.28	555,173.21	36.2794577	-107.6461453
6,908.00	91.01	278.67	5,518.42	272.00	-1,687.88	1,921,027.76	555,110.94	36.2794841	-107.6463565
6,970.00	90.44	278.67	5,517.63	281.35	-1,749.17	1,921,036.98	555,049.63	36.2795097	-107.6465645
7,033.00	90.87	278.89	5,516.91	290.96	-1,811.42	1,921,046.47	554,987.35	36.2795361	-107.6467757
7,097.00	89.53	277.36	5,516.69	300.01	-1,874.78	1,921,055.39	554,923.98	36.2795610	-107.6469906
7,160.00	91.91	275.98	5,515.90	307.32	-1,937.34	1,921,062.58	554,861.41	36.2795810	-107.6472029
7,223.00	91.41	275.98	5,514.07	313.88	-1,999.97	1,921,069.02	554,798.76	36.2795991	-107.6474154
7,286.00	90.71	276.67	5,512.91	320.82	-2,062.58	1,921,075.83	554,736.14	36.2796181	-107.6476278
7,350.00	90.64	276.60	5,512.15	328.22	-2,126.14	1,921,083.10	554,672.56	36.2796384	-107.6478435
7,413.00	90.87	277.01	5,511.32	335.68	-2,188.69	1,921,090.44	554,610.00	36.2796589	-107.6480557
7,476.00	90.74	277.18	5,510.44	343.46	-2,251.21	1,921,098.10	554,547.47	36.2796803	-107.6482678
7,538.00	90.54	277.45	5,509.75	351.36	-2,312.70	1,921,105.87	554,485.96	36.2797019	-107.6484764
7,601.00	90.67	277.62	5,509.08	359.62	-2,375.15	1,921,114.01	554,423.50	36.2797246	-107.6486883
7,665.00	90.13	277.45	5,508.63	368.01	-2,438.59	1,921,122.27	554,360.03	36.2797477	-107.6489035
7,728.00	89.56	276.99	5,508.80	375.93	-2,501.09	1,921,130.07	554,297.52	36.2797694	-107.6491156
7,790.00	90.27	275.43	5,508.90	382.63	-2,562.73	1,921,136.65	554,235.87	36.2797878	-107.6493247
7,853.00	90.10	275.38	5,508.69	388.57	-2,625.45	1,921,142.46	554,173.14	36.2798041	-107.6495375
7,915.00	90.04	274.35	5,508.62	393.83	-2,687.22	1,921,147.59	554,111.35	36.2798185	-107.6497471
7,978.00	91.08	274.57	5,508.00	398.72	-2,750.03	1,921,152.37	554,048.54	36.2798320	-107.6499602
8,041.00	91.08	276.64	5,506.81	404.88	-2,812.71	1,921,158.39	553,985.84	36.2798488	-107.6501728
8,104.00	91.14	276.51	5,505.59	412.09	-2,875.29	1,921,165.48	553,923.26	36.2798686	-107.6503851
8,166.00	91.21	276.56	5,504.32	419.14	-2,936.87	1,921,172.41	553,861.66	36.2798880	-107.6505941
8,229.00	91.78	276.11	5,502.68	426.09	-2,999.46	1,921,179.24	553,799.05	36.2799071	-107.6508064
8,292.00	90.44	275.99	5,501.46	432.73	-3,062.10	1,921,185.75	553,736.40	36.2799253	-107.6510189
8,355.00	90.50	275.63	5,500.94	439.11	-3,124.77	1,921,192.01	553,673.71	36.2799428	-107.6512316
8,417.00	90.91	276.05	5,500.18	445.42	-3,186.45	1,921,198.19	553,612.03	36.2799601	-107.6514408
8,480.00	90.84	275.63	5,499.22	451.83	-3,249.11	1,921,204.48	553,549.35	36.2799777	-107.6516534
8,543.00	90.13	275.54	5,498.68	457.96	-3,311.81	1,921,210.48	553,486.64	36.2799945	-107.6518662
8,607.00	89.76	275.66	5,498.74	464.20	-3,375.51	1,921,216.60	553,422.93	36.2800116	-107.6520823
8,669.00	90.03	275.67	5,498.86	470.32	-3,437.20	1,921,222.60	553,361.23	36.2800284	-107.6522916
8,732.00	91.24	274.18	5,498.16	475.73	-3,499.96	1,921,227.88	553,298.45	36.2800433	-107.6525045
8,794.00	90.57	275.26	5,497.18	480.83	-3,561.74	1,921,232.86	553,236.66	36.2800573	-107.6527141
8,857.00	90.67	276.68	5,496.50	487.38	-3,624.40	1,921,239.29	553,174.00	36.2800752	-107.6529267
8,920.00	90.17	276.66	5,496.04	494.70	-3,686.97	1,921,246.48	553,111.41	36.2800953	-107.6531390
8,983.00	90.60	276.70	5,495.61	502.03	-3,749.54	1,921,253.68	553,048.83	36.2801154	-107.6533513
9,045.00	90.84	276.11	5,494.83	508.94	-3,811.15	1,921,260.48	552,987.20	36.2801344	-107.6535603



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well NW Lybrook UT #237H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Site:	Lybrook UT	MD Reference:	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
Well:	NW Lybrook UT #237H	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
9,108.00	90.30	275.88	5,494.21	515.52	-3,873.80	1,921,266.93	552,924.54	36.2801525	-107.6537729
9,172.00	89.83	275.72	5,494.13	521.99	-3,937.47	1,921,273.27	552,860.86	36.2801702	-107.6539889
9,235.00	90.67	275.90	5,493.86	528.37	-4,000.15	1,921,279.52	552,798.17	36.2801877	-107.6542015
9,299.00	90.40	275.53	5,493.26	534.74	-4,063.83	1,921,285.77	552,734.48	36.2802052	-107.6544176
9,362.00	90.22	275.49	5,492.92	540.79	-4,126.53	1,921,291.69	552,671.76	36.2802218	-107.6546303
9,424.00	89.78	275.41	5,492.92	546.68	-4,188.25	1,921,297.46	552,610.03	36.2802379	-107.6548397
9,487.00	89.96	275.58	5,493.06	552.71	-4,250.96	1,921,303.37	552,547.30	36.2802545	-107.6550525
9,550.00	90.54	275.50	5,492.79	558.79	-4,313.67	1,921,309.32	552,484.59	36.2802712	-107.6552653
9,614.00	90.64	275.59	5,492.13	564.98	-4,377.37	1,921,315.38	552,420.88	36.2802881	-107.6554814
9,677.00	90.04	275.41	5,491.76	571.02	-4,440.07	1,921,321.30	552,358.16	36.2803047	-107.6556941
9,740.00	90.98	274.99	5,491.20	576.73	-4,502.81	1,921,326.88	552,295.41	36.2803203	-107.6559070
9,803.00	90.60	274.62	5,490.33	582.00	-4,565.58	1,921,332.03	552,232.63	36.2803348	-107.6561200
9,866.00	90.03	274.39	5,489.98	586.95	-4,628.39	1,921,336.85	552,169.81	36.2803484	-107.6563330
9,930.00	91.14	275.43	5,489.33	592.43	-4,692.15	1,921,342.21	552,106.04	36.2803634	-107.6565494
9,992.00	90.37	275.06	5,488.51	598.10	-4,753.88	1,921,347.75	552,044.30	36.2803789	-107.6567588
10,055.00	88.81	274.53	5,488.96	603.36	-4,816.66	1,921,352.89	551,981.51	36.2803934	-107.6569718
10,119.00	91.61	274.38	5,488.73	608.33	-4,880.46	1,921,357.73	551,917.70	36.2804070	-107.6571883
10,181.00	90.94	274.23	5,487.35	612.98	-4,942.27	1,921,362.26	551,855.88	36.2804197	-107.6573980
10,245.00	90.74	273.94	5,486.41	617.54	-5,006.10	1,921,366.70	551,792.04	36.2804322	-107.6576145
10,307.00	90.50	273.83	5,485.74	621.74	-5,067.95	1,921,370.77	551,730.18	36.2804437	-107.6578244
10,369.00	91.21	274.10	5,484.81	626.03	-5,129.80	1,921,374.94	551,668.33	36.2804555	-107.6580342
10,433.00	90.77	273.59	5,483.71	630.32	-5,193.64	1,921,379.10	551,604.47	36.2804672	-107.6582508
10,495.00	91.91	273.81	5,482.26	634.32	-5,255.50	1,921,382.98	551,542.61	36.2804782	-107.6584607
10,538.00	92.81	274.50	5,480.49	637.43	-5,298.35	1,921,386.00	551,499.76	36.2804867	-107.6586061
Base Perf @ 10,538' MD									
10,558.00	93.23	274.82	5,479.43	639.06	-5,318.25	1,921,387.59	551,479.85	36.2804912	-107.6586736
10,581.00	93.20	274.88	5,478.14	641.00	-5,341.13	1,921,389.48	551,456.96	36.2804965	-107.6587512
Last SDI Lateral MWD Survey									
10,644.00	93.20	274.88	5,474.63	646.35	-5,403.81	1,921,394.71	551,394.28	36.2805112	-107.6589639
Projection to TD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
50.00	50.00	0.16	-0.11	First MS Energy Gyro Survey
350.00	349.99	0.73	-0.97	Last MS Energy Gyro Survey
464.00	463.99	-0.35	-1.21	First SDI Surface MWD Survey
4,404.00	4,403.83	4.33	-4.94	Last SDI Surface MWD Survey
4,467.00	4,466.83	4.59	-5.00	First SDI Curve MWD Survey
5,892.00	5,526.91	144.14	-680.84	7" Casing @ 5892' MD
5,982.00	5,528.86	162.08	-769.01	Last SDI Curve MWD Survey
6,042.00	5,528.79	173.39	-827.93	First SDI Lateral MWD Survey
10,538.00	5,480.49	637.43	-5,298.35	Base Perf @ 10,538' MD
10,581.00	5,478.14	641.00	-5,341.13	Last SDI Lateral MWD Survey
10,644.00	5,474.63	646.35	-5,403.81	Projection to TD

Checked By:	Approved By:	Date:
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