

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 30-045-35507	Pool Code 98101	Pool Name LYBROOK UNIT NW HZ (OIL)
Property Code 313874	Property Name NW LYBROOK UT	Well Number 131H
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		258	SOUTH	352	WEST	SAN JUAN

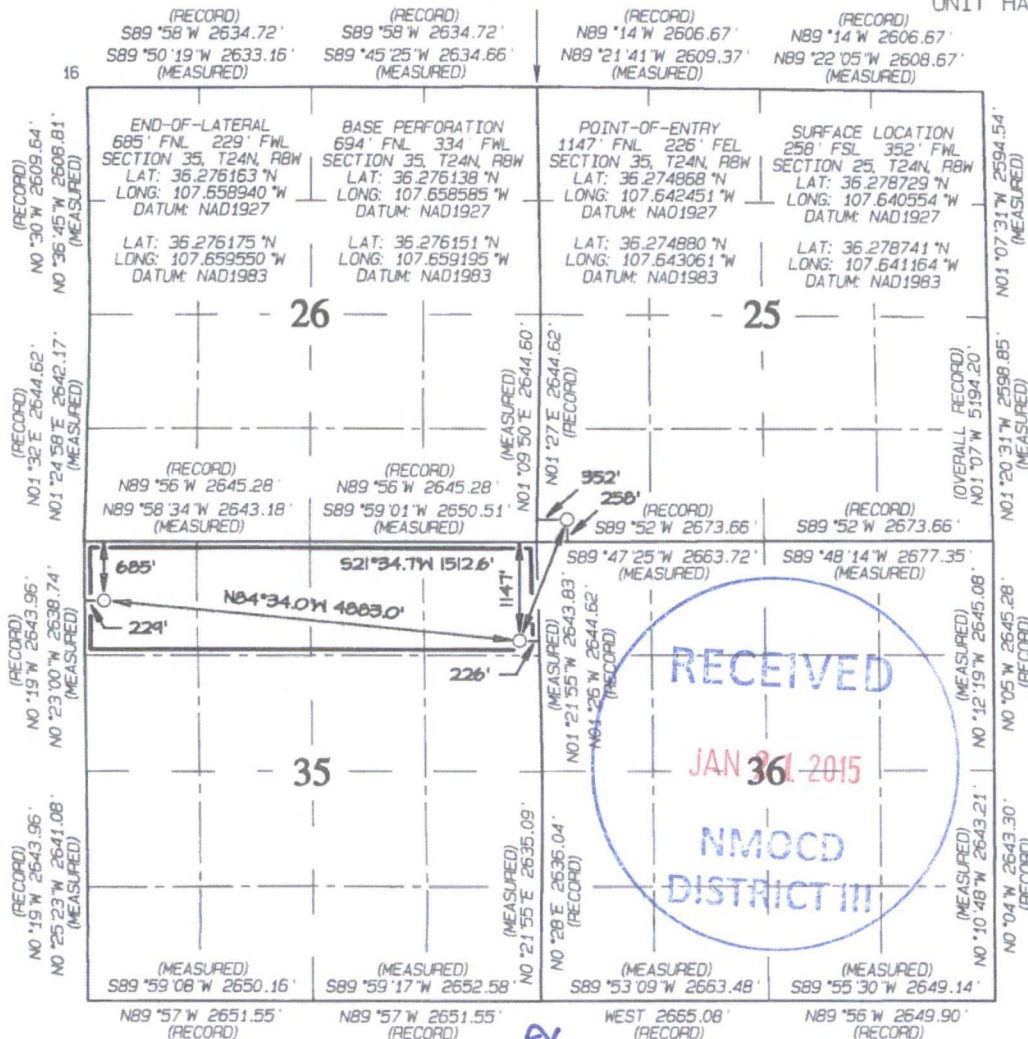
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	24N	8W		685	NORTH	229	WEST	SAN JUAN

Dedicated Acres 160.0 Acres N/2 N/2 - Section 35	Joint or Infill	Consolidation Code	Order No.
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CONFIDENTIAL

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 compulsory pooling order heretofore entered by the division.

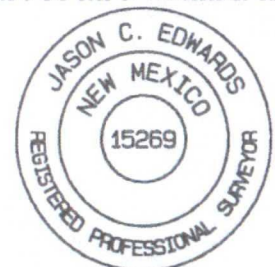
Signature: *Marie El Jaramillo* Date: 12/15
Printed Name: Marie El Jaramillo
E-mail Address: marie.jaramillo@wpxenergy.com

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 5, 2015
Date of Survey: AUGUST 30, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



WPX Energy Rocky Mountain, LLC

San Juan County, NM NAD27

Lybrook UT

NW Lybrook UT #131H

OH

Design: OH

Survey Report - Geographic

29 December, 2014



CONFIDENTIAL



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CONFIDENTIAL





Company Name: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Lybrook UT
Well: NW Lybrook UT #131H

WPXENERGY

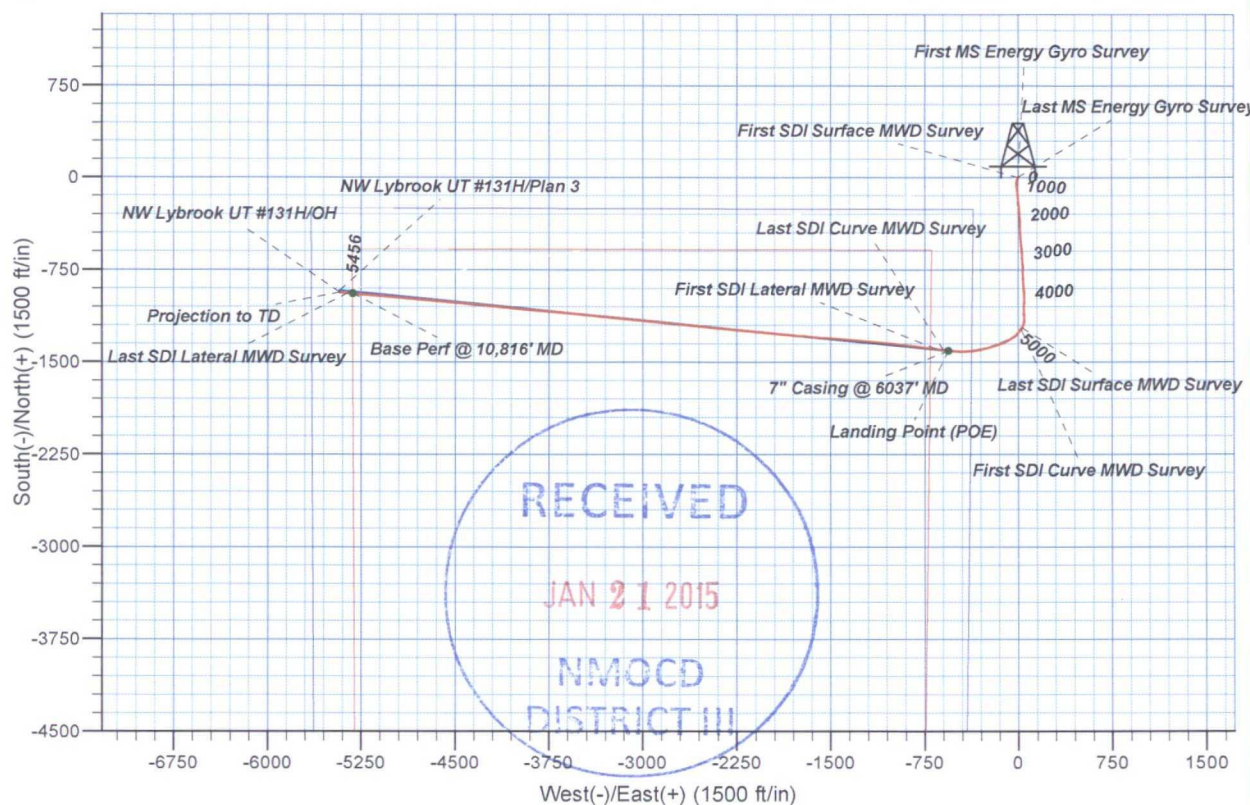
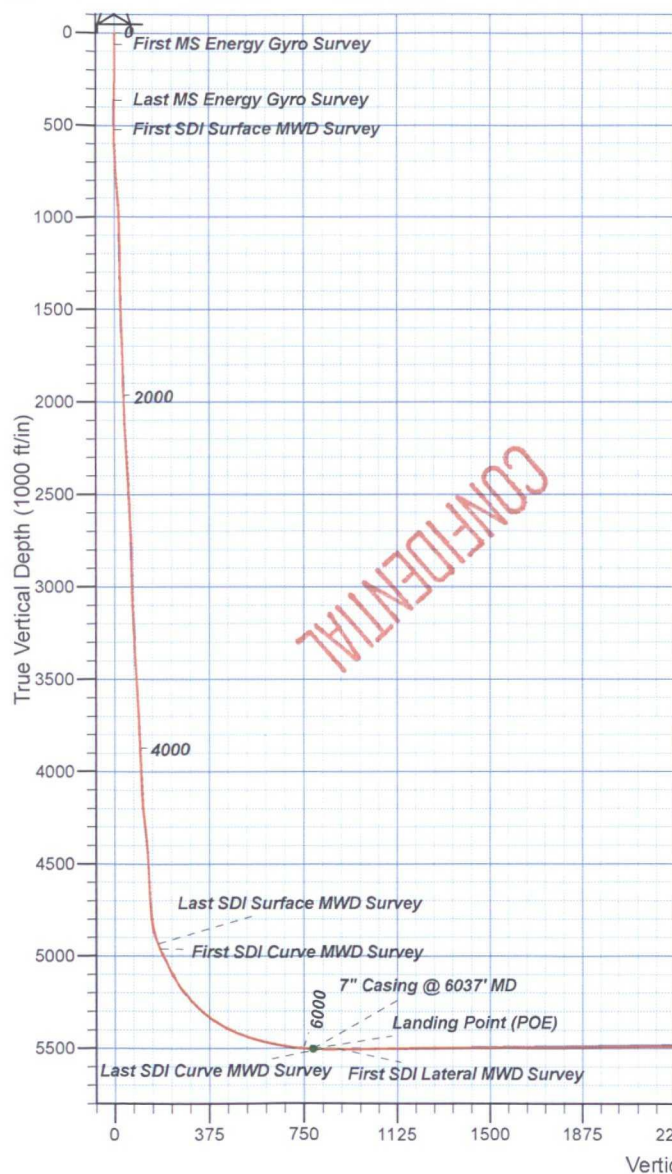


Azimuths to True North
Magnetic North: 9.45°

Magnetic Field
Strength: 50050.9nT
Dip Angle: 63.02°
Date: 11/26/2014
Model: BGM2014

WELL DETAILS: NW Lybrook UT #131H

+N/-S	+E/-W	GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)	6846.00		
		Northing	Easting	Latitude	Longitude
0.00	0.00	1920756.25	556821.76	36.2787290	-107.6405540



Design: OH (NW Lybrook UT #131H/OH)
Created By: Janie Collins Date: 18:38, December 29 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 #131H
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 #131H	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 #131H					
Well Position	+N/-S	0.00 ft	Northing:	1,920,756.25 usft	Latitude:	36.2787290
	+E/-W	0.00 ft	Easting:	556,821.76 usft	Longitude:	-107.6405540
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	11/26/2014	9.46	63.02	50,051

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	7.86	

Survey Program	Date	12/29/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
64.00	364.00	Survey #1 - Gyro Survey (OH)	Gyro		
524.00	5,118.00	Survey #2 - Surface MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,149.00	6,078.00	Survey #3 - Curve MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
6,139.00	10,921.00	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	1,920,756.25	556,821.76	36.2787290	-107.6405540
64.00	0.50	337.23	64.00	0.26	-0.11	1,920,756.51	556,821.65	36.2787297	-107.6405544
First MS Energy Gyro Survey									
114.00	0.43	354.21	114.00	0.65	-0.21	1,920,756.90	556,821.54	36.2787307	-107.6405548
164.00	0.35	355.78	164.00	0.98	-0.24	1,920,757.23	556,821.51	36.2787317	-107.6405549
214.00	0.26	5.20	214.00	1.25	-0.24	1,920,757.50	556,821.51	36.2787324	-107.6405549
264.00	0.24	59.01	264.00	1.42	-0.14	1,920,757.67	556,821.61	36.2787329	-107.6405545
314.00	0.15	87.43	314.00	1.47	0.01	1,920,757.72	556,821.77	36.2787330	-107.6405540

Company: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Lybrook UT
Well: NW Lybrook UT #131H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NW Lybrook UT #131H
TVD Reference: GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
MD Reference: GL 6846' & RKB 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
364.00	0.31	51.61	363.99	1.56	0.18	1,920,757.81	556,821.94	36.2787333	-107.6405534
Last MS Energy Gyro Survey									
524.00	0.65	134.63	523.99	1.19	1.17	1,920,757.44	556,822.92	36.2787322	-107.6405501
First SDI Surface MWD Survey									
587.00	2.32	204.43	586.97	-0.22	0.90	1,920,756.03	556,822.65	36.2787284	-107.6405510
649.00	4.07	211.54	648.87	-3.24	-0.77	1,920,753.01	556,820.99	36.2787201	-107.6405567
713.00	4.84	209.00	712.68	-7.54	-3.27	1,920,748.71	556,818.50	36.2787083	-107.6405651
776.00	4.95	205.97	775.45	-12.30	-5.75	1,920,743.94	556,816.03	36.2786952	-107.6405735
839.00	5.46	201.96	838.19	-17.53	-8.06	1,920,738.71	556,813.73	36.2786808	-107.6405814
902.00	7.13	193.92	900.81	-24.10	-10.12	1,920,732.13	556,811.68	36.2786628	-107.6405884
965.00	8.52	189.37	963.22	-32.50	-11.82	1,920,723.72	556,810.00	36.2786397	-107.6405942
1,028.00	9.27	180.22	1,025.46	-42.18	-12.60	1,920,714.04	556,809.24	36.2786131	-107.6405968
1,092.00	9.62	173.65	1,088.60	-52.65	-12.03	1,920,703.57	556,809.83	36.2785843	-107.6405949
1,155.00	9.85	171.93	1,150.69	-63.22	-10.69	1,920,693.01	556,811.19	36.2785553	-107.6405903
1,215.00	10.50	173.09	1,209.75	-73.73	-9.31	1,920,682.50	556,812.59	36.2785264	-107.6405856
1,277.00	11.18	173.80	1,270.64	-85.31	-7.98	1,920,670.92	556,813.94	36.2784946	-107.6405811
1,337.00	11.78	172.92	1,329.44	-97.17	-6.60	1,920,659.07	556,815.35	36.2784620	-107.6405764
1,399.00	12.97	173.45	1,390.00	-110.37	-5.03	1,920,645.88	556,816.95	36.2784258	-107.6405711
1,460.00	14.07	172.92	1,449.31	-124.53	-3.33	1,920,631.72	556,818.67	36.2783869	-107.6405654
1,521.00	14.63	173.57	1,508.40	-139.54	-1.56	1,920,616.71	556,820.48	36.2783456	-107.6405593
1,582.00	15.30	176.22	1,567.34	-155.23	-0.16	1,920,601.03	556,821.90	36.2783026	-107.6405546
1,643.00	16.96	177.62	1,625.93	-172.15	0.74	1,920,584.11	556,822.84	36.2782561	-107.6405515
1,703.00	17.66	176.93	1,683.22	-189.98	1.59	1,920,566.28	556,823.72	36.2782071	-107.6405487
1,765.00	17.19	174.82	1,742.37	-208.49	2.92	1,920,547.76	556,825.09	36.2781562	-107.6405441
1,825.00	17.12	173.08	1,799.70	-226.09	4.78	1,920,530.17	556,826.99	36.2781079	-107.6405378
1,887.00	17.29	172.60	1,858.93	-244.29	7.07	1,920,511.98	556,829.31	36.2780579	-107.6405301
1,948.00	17.89	174.88	1,917.08	-262.61	9.07	1,920,493.66	556,831.35	36.2780076	-107.6405233
2,009.00	17.15	176.45	1,975.25	-280.92	10.47	1,920,475.36	556,832.78	36.2779573	-107.6405185
2,070.00	16.69	176.45	2,033.60	-298.64	11.57	1,920,457.64	556,833.92	36.2779086	-107.6405148
2,131.00	16.42	174.29	2,092.08	-315.96	12.97	1,920,440.32	556,835.35	36.2778610	-107.6405101
2,191.00	16.34	176.93	2,149.64	-332.82	14.26	1,920,423.46	556,836.68	36.2778147	-107.6405057
2,249.00	17.06	179.09	2,205.20	-349.48	14.83	1,920,406.80	556,837.29	36.2777689	-107.6405037
2,310.00	17.40	180.78	2,263.46	-367.54	14.85	1,920,388.74	556,837.34	36.2777193	-107.6405037
2,371.00	17.52	180.60	2,321.65	-385.85	14.63	1,920,370.44	556,837.16	36.2776690	-107.6405044
2,432.00	17.70	178.04	2,379.79	-404.30	14.85	1,920,351.99	556,837.41	36.2776183	-107.6405037
2,493.00	17.36	177.62	2,437.96	-422.66	15.55	1,920,333.63	556,838.15	36.2775679	-107.6405013
2,554.00	17.29	176.90	2,496.19	-440.80	16.42	1,920,315.49	556,839.05	36.2775180	-107.6404984
2,614.00	17.40	175.91	2,553.46	-458.65	17.54	1,920,297.64	556,840.21	36.2774690	-107.6404945
2,674.00	17.95	174.96	2,610.63	-476.81	18.99	1,920,279.48	556,841.70	36.2774191	-107.6404896
2,736.00	17.66	176.90	2,669.66	-495.72	20.34	1,920,260.58	556,843.08	36.2773672	-107.6404850
2,798.00	17.58	173.91	2,728.75	-514.42	21.84	1,920,241.88	556,844.62	36.2773158	-107.6404799
2,858.00	17.47	176.19	2,785.97	-532.42	23.40	1,920,223.88	556,846.22	36.2772664	-107.6404747
2,920.00	17.53	173.44	2,845.10	-550.98	25.08	1,920,205.33	556,847.94	36.2772154	-107.6404689
2,983.00	17.39	172.57	2,905.20	-569.74	27.39	1,920,186.57	556,850.28	36.2771638	-107.6404611
3,045.00	17.11	171.95	2,964.41	-587.96	29.86	1,920,168.36	556,852.79	36.2771138	-107.6404527
3,109.00	17.07	173.20	3,025.58	-606.61	32.29	1,920,149.71	556,855.26	36.2770626	-107.6404445
3,171.00	17.72	176.84	3,084.75	-625.06	33.89	1,920,131.26	556,856.89	36.2770119	-107.6404391
3,234.00	17.66	179.03	3,144.77	-644.19	34.58	1,920,112.13	556,857.62	36.2769593	-107.6404367
3,296.00	17.97	177.48	3,203.80	-663.15	35.16	1,920,093.17	556,858.24	36.2769072	-107.6404348
3,359.00	17.90	177.33	3,263.74	-682.53	36.04	1,920,073.80	556,859.15	36.2768540	-107.6404318
3,422.00	18.09	174.13	3,323.66	-701.93	37.49	1,920,054.40	556,860.64	36.2768007	-107.6404269
3,484.00	18.38	178.10	3,382.55	-721.28	38.80	1,920,035.05	556,861.99	36.2767475	-107.6404224
3,515.00	18.13	178.54	3,411.98	-730.98	39.08	1,920,025.35	556,862.30	36.2767209	-107.6404215
3,578.00	17.55	178.94	3,471.96	-750.28	39.51	1,920,006.05	556,862.76	36.2766679	-107.6404200
3,641.00	18.88	178.13	3,531.80	-769.96	40.02	1,919,986.37	556,863.31	36.2766138	-107.6404183

Company: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Lybrook UT
Well: NW Lybrook UT #131H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NW Lybrook UT #131H
TVD Reference: GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
MD Reference: GL 6846' & RKB 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
3,704.00	19.26	177.66	3,591.34	-790.53	40.77	1,919,965.80	556,864.10	36.2765573	-107.6404157
3,766.00	18.84	177.50	3,649.94	-810.75	41.63	1,919,945.59	556,865.00	36.2765017	-107.6404128
3,829.00	18.49	177.87	3,709.63	-830.90	42.44	1,919,925.44	556,865.85	36.2764464	-107.6404101
3,892.00	18.12	176.49	3,769.44	-850.66	43.41	1,919,905.68	556,866.86	36.2763921	-107.6404068
3,955.00	17.93	176.76	3,829.35	-870.12	44.56	1,919,886.22	556,868.05	36.2763387	-107.6404029
4,018.00	17.38	174.71	3,889.38	-889.17	45.98	1,919,867.18	556,869.50	36.2762863	-107.6403981
4,081.00	17.15	175.05	3,949.55	-907.79	47.65	1,919,848.56	556,871.21	36.2762352	-107.6403924
4,144.00	17.70	175.30	4,009.65	-926.59	49.23	1,919,829.76	556,872.83	36.2761835	-107.6403870
4,207.00	17.56	174.35	4,069.70	-945.60	50.95	1,919,810.76	556,874.59	36.2761313	-107.6403812
4,270.00	18.21	178.71	4,129.65	-964.89	52.11	1,919,791.46	556,875.79	36.2760783	-107.6403773
4,334.00	18.09	180.57	4,190.47	-984.83	52.24	1,919,771.53	556,875.95	36.2760235	-107.6403768
4,396.00	18.96	183.40	4,249.26	-1,004.51	51.54	1,919,751.85	556,875.30	36.2759695	-107.6403792
4,459.00	19.14	182.59	4,308.81	-1,025.04	50.47	1,919,731.31	556,874.27	36.2759131	-107.6403828
4,522.00	19.17	184.01	4,368.32	-1,045.68	49.28	1,919,710.67	556,873.12	36.2758564	-107.6403869
4,585.00	18.21	182.10	4,428.00	-1,065.84	48.19	1,919,690.52	556,872.07	36.2758010	-107.6403905
4,647.00	18.07	178.62	4,486.92	-1,085.13	48.07	1,919,671.22	556,871.99	36.2757480	-107.6403910
4,709.00	17.35	176.86	4,545.98	-1,103.97	48.81	1,919,652.38	556,872.76	36.2756962	-107.6403885
4,772.00	16.52	175.44	4,606.25	-1,122.28	50.04	1,919,634.07	556,874.03	36.2756459	-107.6403843
4,834.00	15.59	179.20	4,665.83	-1,139.40	50.85	1,919,616.96	556,874.88	36.2755989	-107.6403815
4,897.00	15.17	182.72	4,726.57	-1,156.10	50.58	1,919,600.26	556,874.64	36.2755530	-107.6403824
4,961.00	15.34	183.16	4,788.32	-1,172.92	49.72	1,919,583.44	556,873.81	36.2755068	-107.6403854
4,992.00	16.78	188.47	4,818.11	-1,181.44	48.83	1,919,574.91	556,872.94	36.2754834	-107.6403884
5,023.00	17.39	196.89	4,847.75	-1,190.30	46.83	1,919,566.05	556,870.95	36.2754591	-107.6403952
5,055.00	19.49	204.83	4,878.11	-1,199.72	43.19	1,919,556.62	556,867.34	36.2754332	-107.6404075
5,086.00	21.73	209.68	4,907.12	-1,209.40	38.18	1,919,546.93	556,862.34	36.2754066	-107.6404245
5,118.00	23.89	213.26	4,936.62	-1,219.97	31.69	1,919,536.35	556,855.88	36.2753776	-107.6404465
Last SDI Surface MWD Survey									
5,149.00	25.07	214.64	4,964.83	-1,230.62	24.52	1,919,525.68	556,848.72	36.2753483	-107.6404709
First SDI Curve MWD Survey									
5,180.00	25.56	218.34	4,992.86	-1,241.27	16.63	1,919,515.02	556,840.86	36.2753191	-107.6404976
5,211.00	25.94	221.03	5,020.78	-1,251.63	8.03	1,919,504.64	556,832.28	36.2752906	-107.6405268
5,243.00	24.88	219.55	5,049.69	-1,262.10	-0.85	1,919,494.15	556,823.42	36.2752618	-107.6405569
5,275.00	24.81	221.69	5,078.72	-1,272.31	-9.60	1,919,483.93	556,814.69	36.2752338	-107.6405866
5,306.00	24.93	228.39	5,106.85	-1,281.50	-18.81	1,919,474.71	556,805.50	36.2752085	-107.6406179
5,338.00	26.69	231.78	5,135.66	-1,290.43	-29.50	1,919,465.77	556,794.82	36.2751840	-107.6406541
5,369.00	29.39	235.21	5,163.02	-1,299.08	-41.22	1,919,457.09	556,783.12	36.2751602	-107.6406939
5,400.00	31.01	238.12	5,189.82	-1,307.64	-54.25	1,919,448.51	556,770.11	36.2751367	-107.6407381
5,432.00	33.71	239.77	5,216.85	-1,316.46	-68.93	1,919,439.65	556,755.45	36.2751125	-107.6407879
5,463.00	35.38	241.75	5,242.38	-1,325.04	-84.27	1,919,431.04	556,740.13	36.2750889	-107.6408399
5,495.00	37.55	246.05	5,268.12	-1,333.39	-101.34	1,919,422.66	556,723.07	36.2750660	-107.6408978
5,526.00	39.67	247.36	5,292.34	-1,341.03	-119.11	1,919,414.99	556,705.32	36.2750450	-107.6409581
5,558.00	43.20	248.41	5,316.33	-1,349.00	-138.73	1,919,406.98	556,685.72	36.2750231	-107.6410247
5,588.00	46.09	249.31	5,337.67	-1,356.60	-158.39	1,919,399.34	556,666.07	36.2750022	-107.6410914
5,620.00	49.35	250.74	5,359.19	-1,364.68	-180.64	1,919,391.22	556,643.84	36.2749800	-107.6411669
5,652.00	51.95	252.54	5,379.48	-1,372.46	-204.12	1,919,383.39	556,620.37	36.2749587	-107.6412465
5,683.00	56.45	254.33	5,397.61	-1,379.62	-228.22	1,919,376.18	556,596.29	36.2749390	-107.6413283
5,714.00	59.97	255.74	5,413.94	-1,386.41	-253.67	1,919,369.34	556,570.85	36.2749203	-107.6414146
5,746.00	64.20	257.54	5,428.92	-1,392.94	-281.18	1,919,362.76	556,543.36	36.2749024	-107.6415079
5,777.00	67.75	258.74	5,441.54	-1,398.75	-308.88	1,919,356.89	556,515.66	36.2748864	-107.6416019
5,809.00	70.17	261.18	5,453.03	-1,403.95	-338.29	1,919,351.63	556,486.27	36.2748721	-107.6417017
5,840.00	71.38	263.34	5,463.24	-1,407.89	-367.29	1,919,347.63	556,457.27	36.2748613	-107.6418001
5,872.00	73.10	266.09	5,473.00	-1,410.70	-397.63	1,919,344.77	556,426.94	36.2748536	-107.6419030
5,903.00	74.41	268.68	5,481.67	-1,412.05	-427.36	1,919,343.35	556,397.21	36.2748499	-107.6420039
5,934.00	77.16	271.14	5,489.29	-1,412.09	-457.40	1,919,343.25	556,367.17	36.2748498	-107.6421058
5,965.00	81.02	272.60	5,495.15	-1,411.10	-487.82	1,919,344.19	556,336.75	36.2748525	-107.6422090

Company: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Lybrook UT
Well: NW Lybrook UT #131H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NW Lybrook UT #131H
TVD Reference: GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
MD Reference: GL 6846' & RKB 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
5,996.00	84.61	274.30	5,499.03	-1,409.25	-518.51	1,919,345.98	556,306.05	36.2748576	-107.6423131
6,037.00	86.97	276.11	5,502.04	-1,405.54	-559.23	1,919,349.61	556,265.33	36.2748678	-107.6424512
7" Casing @ 6037' MD - Landing Point (POE)									
6,078.00	89.33	277.91	5,503.37	-1,400.54	-599.90	1,919,354.53	556,224.65	36.2748815	-107.6425892
Last SDI Curve MWD Survey									
6,139.00	90.37	278.09	5,503.53	-1,392.05	-660.30	1,919,362.89	556,164.23	36.2749048	-107.6427941
First SDI Lateral MWD Survey									
6,200.00	91.51	277.73	5,502.52	-1,383.65	-720.71	1,919,371.17	556,103.80	36.2749279	-107.6429991
6,261.00	91.75	277.87	5,500.79	-1,375.38	-781.13	1,919,379.32	556,043.37	36.2749506	-107.6432040
6,322.00	91.54	277.20	5,499.04	-1,367.38	-841.57	1,919,387.20	555,982.91	36.2749726	-107.6434091
6,383.00	91.28	276.39	5,497.54	-1,360.17	-902.13	1,919,394.29	555,922.34	36.2749924	-107.6436145
6,443.00	91.01	276.26	5,496.34	-1,353.56	-961.75	1,919,400.78	555,862.71	36.2750105	-107.6438168
6,503.00	90.47	275.74	5,495.56	-1,347.29	-1,021.41	1,919,406.93	555,803.03	36.2750278	-107.6440192
6,564.00	90.13	275.56	5,495.24	-1,341.28	-1,082.12	1,919,412.82	555,742.32	36.2750443	-107.6442252
6,626.00	89.56	275.72	5,495.41	-1,335.19	-1,143.82	1,919,418.79	555,680.60	36.2750610	-107.6444345
6,686.00	90.13	276.20	5,495.57	-1,328.96	-1,203.49	1,919,424.90	555,620.92	36.2750781	-107.6446369
6,749.00	90.84	274.78	5,495.04	-1,322.93	-1,266.20	1,919,430.80	555,558.20	36.2750946	-107.6448497
6,811.00	90.44	274.91	5,494.35	-1,317.70	-1,327.97	1,919,435.92	555,496.41	36.2751090	-107.6450592
6,874.00	89.06	273.67	5,494.62	-1,312.98	-1,390.79	1,919,440.50	555,433.58	36.2751220	-107.6452723
6,937.00	90.81	274.46	5,494.69	-1,308.52	-1,453.63	1,919,444.84	555,370.74	36.2751342	-107.6454855
7,000.00	90.10	274.06	5,494.19	-1,303.84	-1,516.46	1,919,449.40	555,307.90	36.2751471	-107.6456987
7,062.00	90.44	274.22	5,493.90	-1,299.36	-1,578.29	1,919,453.75	555,246.06	36.2751594	-107.6459084
7,125.00	91.18	274.32	5,493.01	-1,294.67	-1,641.11	1,919,458.32	555,183.23	36.2751722	-107.6461216
7,188.00	91.41	274.37	5,491.59	-1,289.90	-1,703.91	1,919,462.96	555,120.42	36.2751853	-107.6463346
7,252.00	90.34	274.32	5,490.61	-1,285.05	-1,767.72	1,919,467.68	555,056.60	36.2751986	-107.6465511
7,314.00	90.57	275.47	5,490.12	-1,279.76	-1,829.49	1,919,472.85	554,994.82	36.2752132	-107.6467607
7,378.00	91.28	276.09	5,489.08	-1,273.32	-1,893.16	1,919,479.17	554,931.14	36.2752308	-107.6469766
7,441.00	90.34	275.50	5,488.19	-1,266.96	-1,955.83	1,919,485.40	554,868.46	36.2752483	-107.6471893
7,504.00	89.36	275.41	5,488.36	-1,260.97	-2,018.54	1,919,491.27	554,805.73	36.2752647	-107.6474020
7,567.00	90.03	276.03	5,488.69	-1,254.69	-2,081.23	1,919,497.42	554,743.04	36.2752820	-107.6476147
7,629.00	90.67	276.01	5,488.32	-1,248.19	-2,142.88	1,919,503.80	554,681.37	36.2752998	-107.6478239
7,693.00	89.93	275.47	5,487.98	-1,241.79	-2,206.56	1,919,510.08	554,617.68	36.2753174	-107.6480399
7,756.00	90.10	275.48	5,487.96	-1,235.78	-2,269.27	1,919,515.96	554,554.95	36.2753339	-107.6482526
7,820.00	91.01	276.08	5,487.34	-1,229.33	-2,332.94	1,919,522.28	554,491.27	36.2753516	-107.6484686
7,882.00	91.15	275.84	5,486.18	-1,222.89	-2,394.60	1,919,528.59	554,429.60	36.2753693	-107.6486778
7,945.00	91.14	276.12	5,484.92	-1,216.33	-2,457.24	1,919,535.03	554,366.95	36.2753873	-107.6488903
8,008.00	91.14	276.10	5,483.66	-1,209.63	-2,519.87	1,919,541.61	554,304.30	36.2754057	-107.6491028
8,071.00	90.34	275.66	5,482.85	-1,203.17	-2,582.54	1,919,547.94	554,241.63	36.2754234	-107.6493154
8,133.00	90.00	275.09	5,482.67	-1,197.37	-2,644.26	1,919,553.62	554,179.89	36.2754393	-107.6495248
8,197.00	90.67	274.71	5,482.29	-1,191.90	-2,708.03	1,919,558.96	554,116.11	36.2754543	-107.6497411
8,260.00	89.83	274.82	5,482.02	-1,186.67	-2,770.81	1,919,564.07	554,053.32	36.2754687	-107.6499541
8,323.00	89.16	275.96	5,482.57	-1,180.75	-2,833.53	1,919,569.86	553,990.59	36.2754849	-107.6501669
8,385.00	90.40	276.49	5,482.81	-1,174.03	-2,895.16	1,919,576.46	553,928.95	36.2755034	-107.6503760
8,448.00	91.11	276.50	5,481.98	-1,166.90	-2,957.75	1,919,583.47	553,866.34	36.2755229	-107.6505883
8,511.00	91.55	276.40	5,480.52	-1,159.83	-3,020.33	1,919,590.42	553,803.75	36.2755424	-107.6508007
8,573.00	91.34	276.09	5,478.95	-1,153.08	-3,081.94	1,919,597.04	553,742.12	36.2755609	-107.6510097
8,636.00	91.62	276.28	5,477.33	-1,146.30	-3,144.56	1,919,603.70	553,679.50	36.2755795	-107.6512221
8,699.00	91.24	275.77	5,475.75	-1,139.69	-3,207.19	1,919,610.18	553,616.85	36.2755976	-107.6514346
8,762.00	90.30	275.79	5,474.91	-1,133.34	-3,269.86	1,919,616.40	553,554.16	36.2756150	-107.6516472
8,825.00	90.57	275.47	5,474.43	-1,127.16	-3,332.56	1,919,622.46	553,491.46	36.2756320	-107.6518599
8,888.00	90.07	274.93	5,474.08	-1,121.45	-3,395.30	1,919,628.04	553,428.71	36.2756477	-107.6520728
8,951.00	90.24	275.33	5,473.91	-1,115.82	-3,458.04	1,919,633.55	553,365.95	36.2756631	-107.6522856
9,014.00	89.93	275.35	5,473.81	-1,109.96	-3,520.77	1,919,639.29	553,303.21	36.2756792	-107.6524984
9,077.00	90.50	275.64	5,473.58	-1,103.92	-3,583.48	1,919,645.20	553,240.49	36.2756957	-107.6527112
9,140.00	89.53	274.98	5,473.56	-1,098.09	-3,646.21	1,919,650.90	553,177.75	36.2757117	-107.6529240

Company: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Lybrook UT
Well: NW Lybrook UT #131H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NW Lybrook UT #131H
TVD Reference: GL 6846' & RKB 14' @ 6860.00ft (Aztec 730)
MD Reference: GL 6846' & RKB 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
9,202.00	90.61	274.45	5,473.49	-1,093.00	-3,708.00	1,919,655.87	553,115.95	36.2757257	-107.6531336
9,265.00	90.13	274.09	5,473.08	-1,088.31	-3,770.82	1,919,660.44	553,053.12	36.2757386	-107.6533468
9,329.00	90.27	276.06	5,472.86	-1,082.65	-3,834.57	1,919,665.97	552,989.36	36.2757541	-107.6535630
9,392.00	89.78	275.76	5,472.83	-1,076.16	-3,897.23	1,919,672.34	552,926.69	36.2757719	-107.6537756
9,455.00	90.22	275.94	5,472.83	-1,069.74	-3,959.90	1,919,678.63	552,864.00	36.2757895	-107.6539882
9,518.00	90.87	275.91	5,472.23	-1,063.23	-4,022.56	1,919,685.01	552,801.33	36.2758074	-107.6542008
9,582.00	90.07	275.68	5,471.70	-1,056.77	-4,086.23	1,919,691.35	552,737.65	36.2758251	-107.6544168
9,645.00	90.81	275.56	5,471.22	-1,050.60	-4,148.93	1,919,697.39	552,674.94	36.2758420	-107.6546295
9,708.00	90.61	275.46	5,470.44	-1,044.55	-4,211.63	1,919,703.31	552,612.22	36.2758586	-107.6548423
9,771.00	90.40	275.38	5,469.88	-1,038.60	-4,274.35	1,919,709.14	552,549.49	36.2758749	-107.6550550
9,834.00	91.64	276.80	5,468.76	-1,031.92	-4,336.98	1,919,715.70	552,486.85	36.2758933	-107.6552675
9,897.00	91.98	276.75	5,466.77	-1,024.49	-4,399.51	1,919,723.00	552,424.31	36.2759136	-107.6554797
9,960.00	90.30	275.66	5,465.52	-1,017.69	-4,462.12	1,919,729.68	552,361.68	36.2759323	-107.6556921
10,023.00	90.30	275.39	5,465.19	-1,011.62	-4,524.83	1,919,735.62	552,298.96	36.2759489	-107.6559048
10,085.00	90.67	274.92	5,464.66	-1,006.05	-4,586.58	1,919,741.07	552,237.20	36.2759642	-107.6561143
10,148.00	90.74	274.65	5,463.89	-1,000.80	-4,649.35	1,919,746.20	552,174.42	36.2759786	-107.6563273
10,210.00	90.84	274.58	5,463.03	-995.81	-4,711.15	1,919,751.07	552,112.61	36.2759923	-107.6565369
10,273.00	91.01	274.22	5,462.02	-990.97	-4,773.95	1,919,755.77	552,049.80	36.2760055	-107.6567500
10,337.00	90.27	274.11	5,461.30	-986.33	-4,837.78	1,919,760.30	551,985.96	36.2760183	-107.6569665
10,399.00	90.13	275.42	5,461.09	-981.18	-4,899.56	1,919,765.32	551,924.17	36.2760324	-107.6571761
10,462.00	90.81	275.66	5,460.57	-975.09	-4,962.27	1,919,771.28	551,861.45	36.2760491	-107.6573889
10,525.00	90.61	275.86	5,459.79	-968.77	-5,024.94	1,919,777.48	551,798.76	36.2760664	-107.6576015
10,588.00	90.87	275.34	5,458.97	-962.63	-5,087.64	1,919,783.50	551,736.06	36.2760833	-107.6578142
10,650.00	90.94	274.82	5,458.00	-957.14	-5,149.38	1,919,788.87	551,674.30	36.2760983	-107.6580237
10,714.00	90.04	275.06	5,457.45	-951.63	-5,213.14	1,919,794.25	551,610.53	36.2761134	-107.6582400
10,776.00	90.84	275.15	5,456.97	-946.11	-5,274.90	1,919,799.64	551,548.77	36.2761286	-107.6584495
10,816.00	90.40	274.94	5,456.54	-942.59	-5,314.74	1,919,803.08	551,508.92	36.2761382	-107.6585847
Base Perf @ 10,816' MD									
10,840.00	90.13	274.81	5,456.43	-940.55	-5,338.65	1,919,805.07	551,485.00	36.2761438	-107.6586658
10,857.00	90.04	274.97	5,456.41	-939.10	-5,355.59	1,919,806.49	551,468.06	36.2761478	-107.6587233
Last SDI Lateral MWD Survey									
10,921.00	90.04	274.97	5,456.36	-933.56	-5,419.35	1,919,811.90	551,404.29	36.2761630	-107.6589396
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
64.00	64.00	0.26	-0.11	First MS Energy Gyro Survey
364.00	363.99	1.56	0.18	Last MS Energy Gyro Survey
524.00	523.99	1.19	1.17	First SDI Surface MWD Survey
5,118.00	4,936.62	-1,219.97	31.69	Last SDI Surface MWD Survey
5,149.00	4,964.83	-1,230.62	24.52	First SDI Curve MWD Survey
6,037.00	5,502.04	-1,405.54	-559.23	7" Casing @ 6037' MD
6,037.00	5,502.04	-1,405.54	-559.23	Landing Point (POE)
6,078.00	5,503.37	-1,400.54	-599.90	Last SDI Curve MWD Survey
6,139.00	5,503.53	-1,392.05	-660.30	First SDI Lateral MWD Survey
10,816.00	5,456.54	-942.59	-5,314.74	Base Perf @ 10,816' MD
10,857.00	5,456.41	-939.10	-5,355.59	Last SDI Lateral MWD Survey
10,921.00	5,456.36	-933.56	-5,419.35	Projection to TD

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well NW Lybrook UT #131H
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 #131H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Checked By: _____	Approved By: _____	Date: _____
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