

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
JUL 17 2017

WELL LOCATION AND ACREAGE DEDICATION PLAT

CONFIDENTIAL

*API Number 30-045-35800	*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 317527	*Property Name RODEO UNIT	*Well Number 501H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6896'

¹⁰ Surface Location

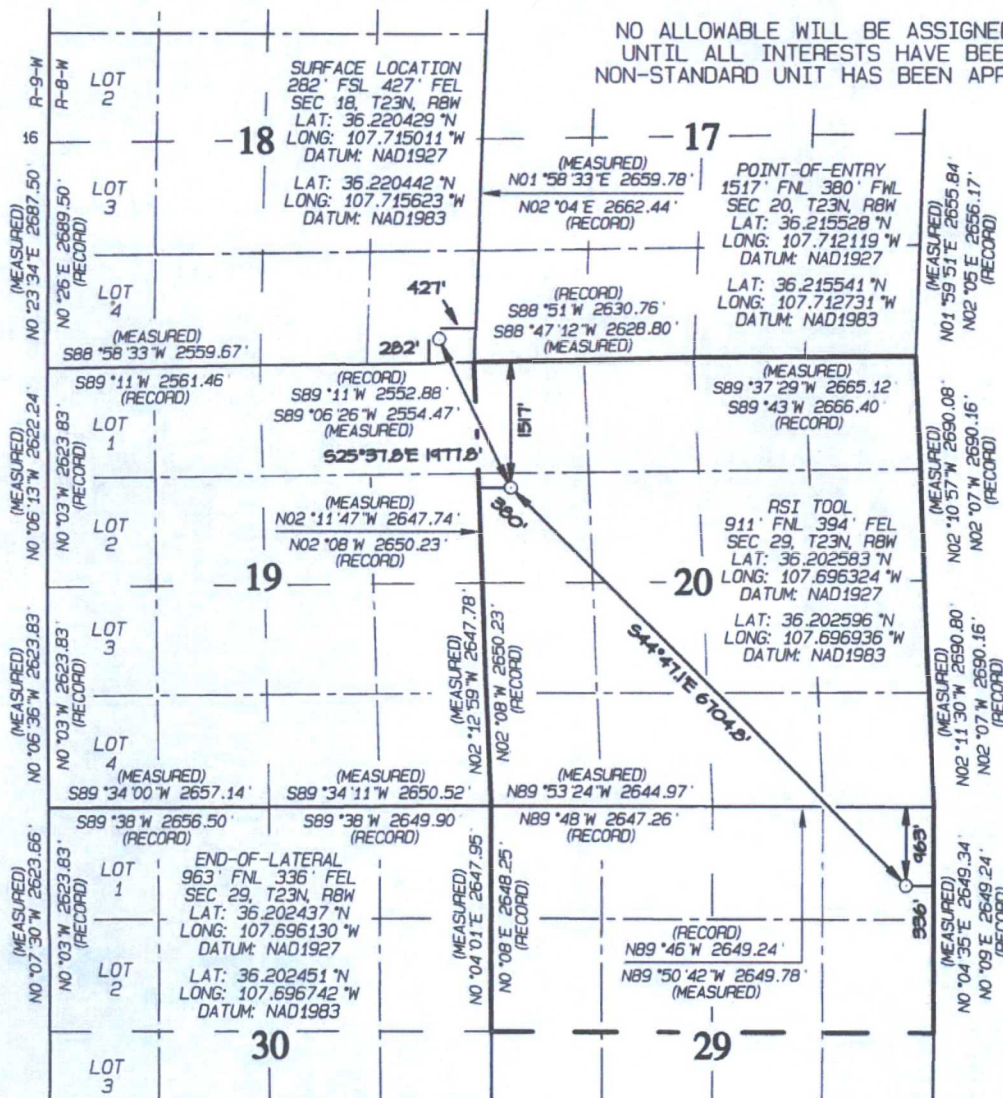
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	23N	8W		282	SOUTH	427	EAST	SAN JUAN

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
A	29	23N	8W		963	NORTH	336	EAST	SAN JUAN

¹² Dedicated Acres 960.00	Entire Section 20 N/2 - Section 29	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14313
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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 compulsory pooling order heretofore entered by the division.

Signature: Lacey Granillo Date: 7/17/17
Printed Name: Lacey Granillo
E-mail Address: lacey.granillo@wpxenergy.com

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

Date Revised: JUNE 27, 2017
Date of Survey: APRIL 11, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



EOW Summary

WPX Energy
Rodeo UT 501H

OIL CONS. DIV DIST. 3
JUL 17 2017





Rodeo UT #501H
San Juan County, NM
Northing: 1899498.97
Easting: 534901.44
Actual

KB @ 6917.00usft (Cyclone 32)
GL @ 6896.00



WELL DETAILS Rodeo UT #501H

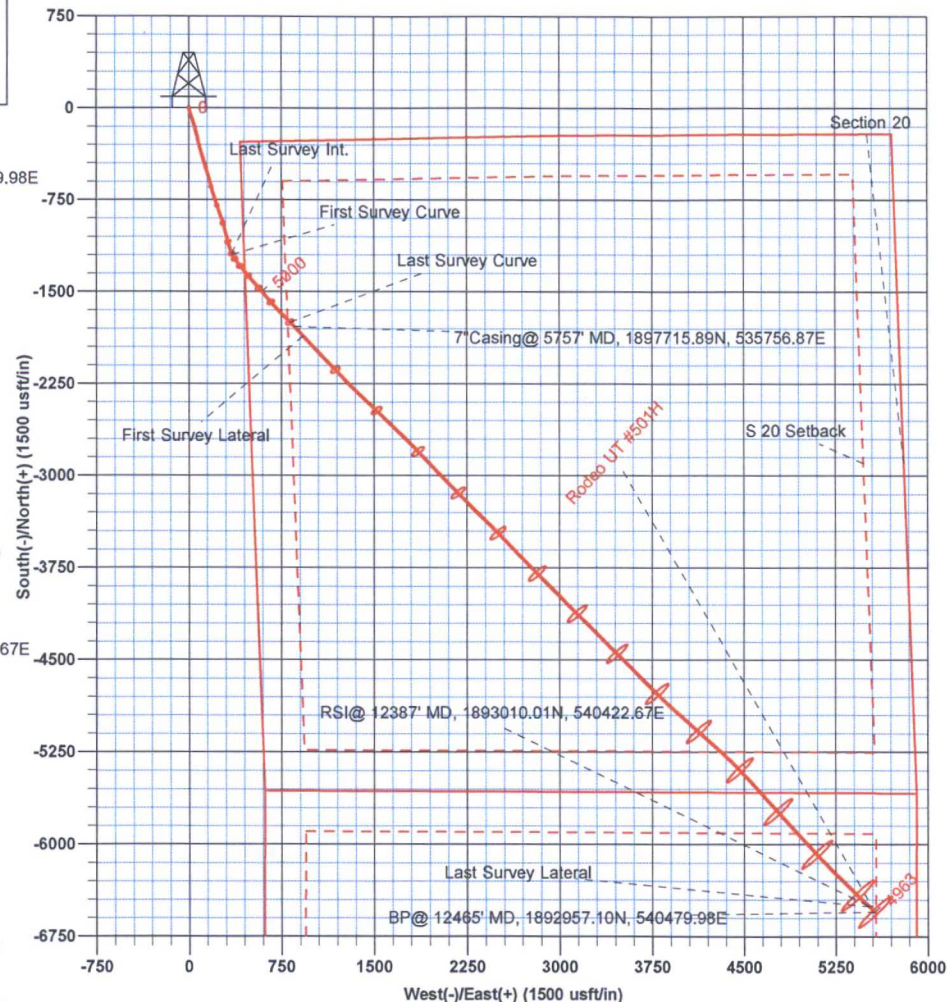
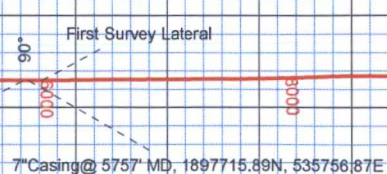
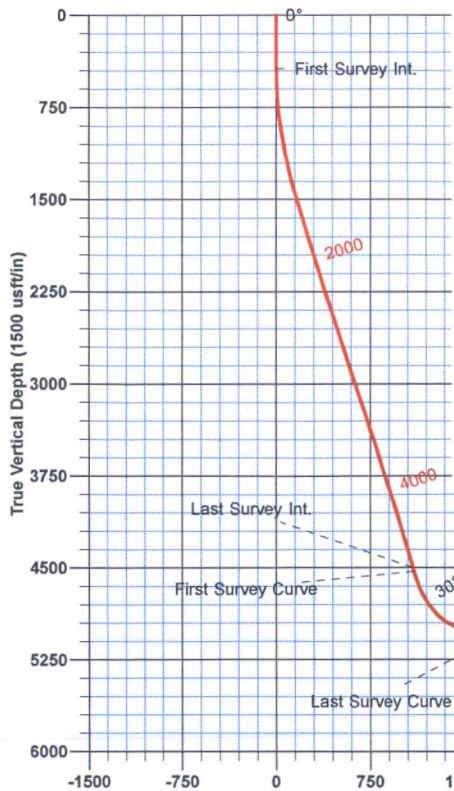
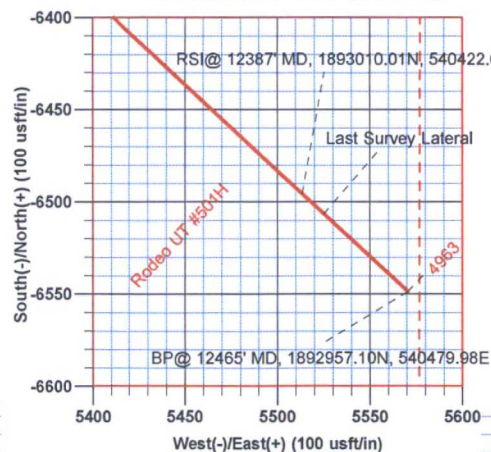
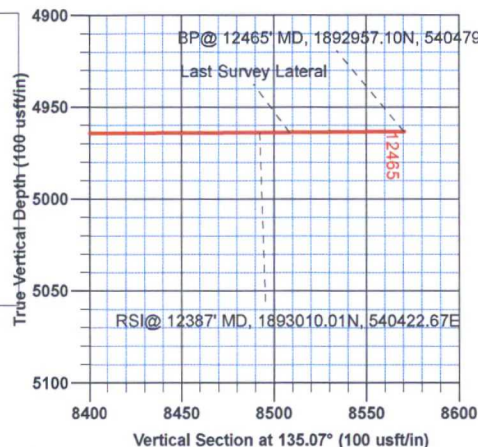
	Ground Level:	6896.00		
+N/-S	+E/-W	Northing	Easting	Latitude
0.00	0.00	1899498.97	534901.44	36.220429
				Longitude
				-107.715011



Azimuths to True North
Magnetic North: 9.02°

Magnetic Field
Strength: 49657.4snT
Dip Angle: 62.87°
Date: 5/26/2017
Model: HDGM

TVD		MD		ANNOTATIONS
437.98		438.00		Annotation
4500.78		4702.00		First Survey Int.
4530.67		4733.00		Last Survey Int.
5032.72		5709.00		First Survey Curve
5031.79		5757.00		Last Survey Curve
5029.65		5864.00		First Survey Lateral
4964.17		12387.00		RSI@ 12387' MD, 1893010.01N, 540422.67E
4964.03		12403.00		Last Survey Lateral
4963.41		12465.00		BP@ 12465' MD, 1892957.10N, 540479.98E



Bailey Fellows
9:34, June 22 2017

Scientific Drilling
325 S. Faudree Rd.
Odessa, TX 79765

WPX Energy

San Juan County, NM

Rodeo UT 500 Pad

Rodeo UT #501H

API: 30-045-35800

Wellbore #1

Design: Actual

Survey Report - Geographic

22 June, 2017



CONFIDENTIAL

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #501H
Project:	San Juan County, NM	TVD Reference:	KB @ 6917.00usft (Cyclone 32)
Site:	Rodeo UT 500 Pad	MD Reference:	KB @ 6917.00usft (Cyclone 32)
Well:	Rodeo UT #501H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Project	San Juan County, NM		
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						Rodeo UT 500 Pad											
Site Position:			Northing:			1,899,488.44 usft			Latitude:			36.220400					
From:			Lat/Long			Easting:			534,918.27 usft			Longitude:			-107.714954		
Position Uncertainty:			0.00 usft			Slot Radius:			13-3/16 "			Grid Convergence:			0.07 °		

Well	Rodeo UT #501H					
Well Position	+N/-S	0.00 usft	Northing:	1,899,498.98 usft	Latitude:	36.220429
	+E/-W	0.00 usft	Easting:	534,901.44 usft	Longitude:	-107.715011
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,896.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/26/2017	9.02	62.87	49,657

Design	Actual			
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	135.07

Survey Program	Date	6/22/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
50.00	306.00	MS Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
438.00	4,702.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,733.00	5,709.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,864.00	12,465.00	SDI MWD Lateral (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	

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	1,899,498.98	534,901.44	36.220429	-107.715011
50.00	0.49	359.74	50.00	0.21	0.00	1,899,499.19	534,901.44	36.220430	-107.715011
100.00	0.65	33.02	100.00	0.67	0.15	1,899,499.64	534,901.59	36.220431	-107.715011
150.00	0.45	23.03	149.99	1.08	0.38	1,899,500.06	534,901.82	36.220432	-107.715010
200.00	0.52	89.03	199.99	1.27	0.69	1,899,500.25	534,902.13	36.220433	-107.715009
250.00	0.39	102.18	249.99	1.24	1.08	1,899,500.21	534,902.52	36.220432	-107.715008
300.00	0.54	152.39	299.99	0.99	1.36	1,899,499.97	534,902.80	36.220432	-107.715007
306.00	0.44	141.01	305.99	0.95	1.38	1,899,499.93	534,902.82	36.220432	-107.715007

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #501H
Project:	San Juan County, NM	TVD Reference:	KB @ 6917.00usft (Cyclone 32)
Site:	Rodeo UT 500 Pad	MD Reference:	KB @ 6917.00usft (Cyclone 32)
Well:	Rodeo UT #501H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	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
438.00	0.60	165.99	437.98	-0.12	1.87	1,899,498.86	534,903.31	36.220429	-107.715005
First Survey Int.									
531.00	2.47	189.70	530.95	-2.56	1.65	1,899,496.41	534,903.09	36.220422	-107.715006
623.00	3.44	175.10	622.83	-7.27	1.55	1,899,491.71	534,903.00	36.220409	-107.715006
715.00	5.63	165.58	714.53	-14.39	2.91	1,899,484.59	534,904.37	36.220390	-107.715001
807.00	7.94	163.35	805.88	-24.85	5.86	1,899,474.13	534,907.33	36.220361	-107.714991
900.00	8.41	160.57	897.94	-37.42	9.96	1,899,461.57	534,911.45	36.220326	-107.714978
992.00	10.54	160.63	988.68	-51.70	14.99	1,899,447.29	534,916.49	36.220287	-107.714960
1,084.00	11.60	160.12	1,078.96	-68.34	20.93	1,899,430.66	534,922.45	36.220241	-107.714940
1,177.00	13.10	159.84	1,169.81	-87.03	27.74	1,899,411.98	534,929.28	36.220190	-107.714917
1,269.00	14.91	160.86	1,259.07	-108.00	35.21	1,899,391.02	534,936.78	36.220132	-107.714892
1,362.00	16.34	166.84	1,348.64	-132.04	42.11	1,899,366.99	534,943.72	36.220066	-107.714868
1,454.00	18.46	165.88	1,436.42	-158.77	48.61	1,899,340.26	534,950.25	36.219993	-107.714846
1,548.00	18.33	166.24	1,525.62	-187.56	55.76	1,899,311.48	534,957.43	36.219914	-107.714822
1,642.00	20.35	164.60	1,614.31	-217.68	63.62	1,899,281.38	534,965.32	36.219831	-107.714796
1,736.00	19.15	166.55	1,702.78	-248.43	71.54	1,899,250.63	534,973.29	36.219747	-107.714769
1,830.00	19.79	166.34	1,791.41	-278.89	78.89	1,899,220.18	534,980.67	36.219663	-107.714744
1,924.00	19.14	165.54	1,880.03	-309.28	86.50	1,899,189.81	534,988.31	36.219579	-107.714718
2,018.00	18.64	166.07	1,968.97	-338.78	93.96	1,899,160.31	534,995.81	36.219498	-107.714693
2,111.00	18.82	163.73	2,057.05	-367.60	101.74	1,899,131.50	535,003.63	36.219419	-107.714666
2,205.00	18.40	162.92	2,146.13	-396.34	110.35	1,899,102.77	535,012.27	36.219340	-107.714637
2,299.00	19.28	163.05	2,235.09	-425.37	119.23	1,899,073.75	535,021.19	36.219261	-107.714607
2,393.00	19.57	163.57	2,323.74	-455.31	128.20	1,899,043.82	535,030.20	36.219178	-107.714577
2,487.00	20.21	163.57	2,412.14	-485.99	137.25	1,899,013.16	535,039.28	36.219094	-107.714546
2,581.00	20.52	164.48	2,500.26	-517.43	146.25	1,898,981.72	535,048.32	36.219008	-107.714515
2,675.00	20.81	164.22	2,588.21	-549.38	155.20	1,898,949.79	535,057.31	36.218920	-107.714485
2,769.00	20.45	165.34	2,676.19	-581.33	163.90	1,898,917.84	535,066.05	36.218832	-107.714456
2,863.00	19.28	165.77	2,764.59	-612.26	171.87	1,898,886.92	535,074.06	36.218747	-107.714429
2,957.00	19.17	164.88	2,853.35	-642.21	179.71	1,898,856.99	535,081.93	36.218665	-107.714402
3,051.00	19.58	163.25	2,942.03	-672.19	188.27	1,898,827.02	535,090.53	36.218582	-107.714373
3,145.00	21.13	162.35	3,030.15	-703.42	197.95	1,898,795.80	535,100.25	36.218497	-107.714340
3,239.00	20.51	161.61	3,118.01	-735.19	208.28	1,898,764.04	535,110.62	36.218409	-107.714305
3,333.00	20.18	162.78	3,206.15	-766.30	218.28	1,898,732.94	535,120.65	36.218324	-107.714271
3,427.00	19.96	160.74	3,294.44	-796.94	228.37	1,898,702.32	535,130.78	36.218240	-107.714237
3,521.00	19.76	161.56	3,382.85	-827.16	238.69	1,898,672.11	535,141.14	36.218157	-107.714202
3,615.00	19.08	160.18	3,471.51	-856.68	248.92	1,898,642.60	535,151.41	36.218076	-107.714167
3,709.00	18.56	159.77	3,560.48	-885.18	259.31	1,898,614.12	535,161.83	36.217997	-107.714132
3,803.00	17.94	163.70	3,649.75	-913.11	268.54	1,898,586.20	535,171.10	36.217921	-107.714101
3,896.00	19.50	164.57	3,737.83	-941.82	276.69	1,898,557.49	535,179.28	36.217842	-107.714073
3,990.00	20.93	164.80	3,826.04	-973.15	285.27	1,898,526.18	535,187.90	36.217756	-107.714044
4,084.00	20.65	164.51	3,913.92	-1,005.32	294.10	1,898,494.01	535,196.77	36.217667	-107.714014
4,178.00	18.52	164.47	4,002.48	-1,035.68	302.52	1,898,463.66	535,205.23	36.217584	-107.713986
4,272.00	18.94	165.54	4,091.50	-1,064.84	310.33	1,898,434.52	535,213.07	36.217504	-107.713959
4,366.00	18.44	164.72	4,180.54	-1,093.95	318.06	1,898,405.41	535,220.83	36.217424	-107.713933
4,460.00	18.59	164.54	4,269.67	-1,122.73	325.97	1,898,376.64	535,228.78	36.217345	-107.713906
4,546.00	17.67	160.68	4,351.41	-1,148.27	333.94	1,898,351.12	535,236.78	36.217275	-107.713879
4,640.00	16.78	158.85	4,441.19	-1,174.38	343.56	1,898,325.01	535,246.43	36.217203	-107.713847
4,671.00	16.09	157.29	4,470.92	-1,182.52	346.83	1,898,316.88	535,249.71	36.217181	-107.713836
4,702.00	15.20	156.15	4,500.78	-1,190.20	350.13	1,898,309.21	535,253.03	36.217159	-107.713824
Last Survey Int.									
4,733.00	15.56	155.79	4,530.67	-1,197.71	353.48	1,898,301.70	535,256.38	36.217139	-107.713813
First Survey Curve									
4,765.00	17.03	154.25	4,561.38	-1,205.84	357.28	1,898,293.57	535,260.19	36.217116	-107.713800
4,796.00	18.75	151.79	4,590.88	-1,214.32	361.60	1,898,285.09	535,264.53	36.217093	-107.713785
4,827.00	20.60	149.24	4,620.07	-1,223.40	366.75	1,898,276.02	535,269.68	36.217068	-107.713768

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #501H
Project:	San Juan County, NM	TVD Reference:	KB @ 6917.00usft (Cyclone 32)
Site:	Rodeo UT 500 Pad	MD Reference:	KB @ 6917.00usft (Cyclone 32)
Well:	Rodeo UT #501H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	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
4,859.00	22.73	147.20	4,649.81	-1,233.44	372.98	1,898,266.00	535,275.92	36.217041	-107.713747
4,890.00	24.45	145.80	4,678.22	-1,243.78	379.83	1,898,255.66	535,282.79	36.217012	-107.713724
4,921.00	26.77	144.60	4,706.17	-1,254.78	387.48	1,898,244.67	535,290.45	36.216982	-107.713698
4,953.00	29.02	144.02	4,734.45	-1,266.93	396.22	1,898,232.53	535,299.20	36.216949	-107.713668
4,984.00	31.74	142.08	4,761.19	-1,279.45	405.65	1,898,220.02	535,308.65	36.216914	-107.713636
5,015.00	33.87	140.36	4,787.25	-1,292.54	416.17	1,898,206.95	535,319.19	36.216878	-107.713600
5,047.00	36.40	140.41	4,813.41	-1,306.73	427.91	1,898,192.77	535,330.95	36.216839	-107.713561
5,078.00	39.66	139.80	4,837.83	-1,321.37	440.16	1,898,178.14	535,343.22	36.216799	-107.713519
5,109.00	42.19	139.82	4,861.25	-1,336.89	453.27	1,898,162.65	535,356.34	36.216756	-107.713475
5,141.00	44.76	140.50	4,884.47	-1,353.79	467.37	1,898,145.76	535,370.46	36.216710	-107.713427
5,172.00	48.97	140.48	4,905.66	-1,371.24	481.76	1,898,128.32	535,384.87	36.216662	-107.713378
5,203.00	52.88	140.34	4,925.20	-1,389.78	497.09	1,898,109.80	535,400.23	36.216611	-107.713326
5,234.00	57.14	140.80	4,942.97	-1,409.40	513.22	1,898,090.21	535,416.38	36.216557	-107.713271
5,265.00	61.26	139.98	4,958.84	-1,429.90	530.19	1,898,069.72	535,433.38	36.216501	-107.713214
5,297.00	64.16	139.19	4,973.51	-1,451.55	548.63	1,898,048.10	535,451.84	36.216441	-107.713151
5,328.00	67.36	139.10	4,986.23	-1,472.93	567.12	1,898,026.74	535,470.36	36.216383	-107.713089
5,360.00	70.35	138.92	4,997.78	-1,495.45	586.69	1,898,004.24	535,489.96	36.216321	-107.713022
5,391.00	72.95	138.88	5,007.54	-1,517.62	606.03	1,897,982.09	535,509.33	36.216260	-107.712957
5,422.00	76.68	138.95	5,015.65	-1,540.17	625.69	1,897,959.57	535,529.01	36.216198	-107.712890
5,454.00	79.49	138.58	5,022.26	-1,563.71	646.33	1,897,936.05	535,549.68	36.216133	-107.712820
5,485.00	82.35	138.31	5,027.15	-1,586.62	666.63	1,897,913.17	535,570.01	36.216070	-107.712751
5,516.00	85.29	137.42	5,030.49	-1,609.47	687.31	1,897,890.35	535,590.71	36.216008	-107.712681
5,548.00	88.22	136.48	5,032.30	-1,632.81	709.11	1,897,867.03	535,612.55	36.215943	-107.712607
5,579.00	89.46	136.56	5,032.93	-1,655.30	730.44	1,897,844.57	535,633.90	36.215882	-107.712535
5,673.00	90.27	136.27	5,033.15	-1,723.39	795.24	1,897,776.56	535,698.79	36.215695	-107.712315
5,709.00	91.10	136.19	5,032.72	-1,749.38	820.15	1,897,750.59	535,723.72	36.215623	-107.712231
Last Survey Curve									
5,748.40	91.12	136.50	5,031.96	-1,777.89	847.34	1,897,722.13	535,750.95	36.215545	-107.712139
RUT501H POE orig.									
5,757.00	91.12	136.56	5,031.79	-1,784.13	853.26	1,897,715.89	535,756.87	36.215528	-107.712119
7"Casing@ 5757' MD, 1897715.89N, 535756.87E									
5,864.00	91.17	137.40	5,029.65	-1,862.34	926.24	1,897,637.77	535,829.95	36.215313	-107.711871
First Survey Lateral									
5,958.00	90.30	136.71	5,028.44	-1,931.14	990.27	1,897,569.04	535,894.07	36.215124	-107.711654
6,053.00	89.97	136.39	5,028.22	-2,000.11	1,055.61	1,897,500.16	535,959.49	36.214934	-107.711433
6,148.00	90.47	136.30	5,027.85	-2,068.84	1,121.19	1,897,431.50	536,025.15	36.214746	-107.711211
6,243.00	90.67	136.20	5,026.91	-2,137.46	1,186.88	1,897,362.96	536,090.92	36.214557	-107.710988
6,338.00	91.21	136.43	5,025.35	-2,206.15	1,252.48	1,897,294.35	536,156.61	36.214368	-107.710765
6,432.00	90.84	134.73	5,023.67	-2,273.28	1,318.26	1,897,227.31	536,222.48	36.214184	-107.710542
6,526.00	89.77	133.66	5,023.17	-2,338.80	1,385.65	1,897,161.87	536,289.95	36.214004	-107.710314
6,620.00	90.37	133.46	5,023.05	-2,403.58	1,453.77	1,897,097.17	536,358.14	36.213826	-107.710083
6,715.00	90.34	133.76	5,022.46	-2,469.10	1,522.55	1,897,031.73	536,427.01	36.213646	-107.709850
6,810.00	90.37	135.50	5,021.88	-2,535.84	1,590.16	1,896,965.08	536,494.69	36.213463	-107.709621
6,904.00	90.17	134.28	5,021.43	-2,602.18	1,656.75	1,896,898.82	536,561.37	36.213280	-107.709395
6,999.00	90.37	133.84	5,020.99	-2,668.24	1,725.02	1,896,832.84	536,629.71	36.213099	-107.709164
7,094.00	90.97	135.69	5,019.87	-2,735.13	1,792.46	1,896,766.03	536,697.24	36.212915	-107.708935
7,188.00	89.80	136.98	5,019.24	-2,803.13	1,857.36	1,896,698.12	536,762.22	36.212728	-107.708715
7,283.00	89.56	136.72	5,019.77	-2,872.43	1,922.33	1,896,628.89	536,827.27	36.212538	-107.708495
7,377.00	90.87	137.05	5,019.42	-2,941.05	1,986.57	1,896,560.35	536,891.60	36.212349	-107.708277
7,472.00	89.63	136.26	5,019.01	-3,010.14	2,051.78	1,896,491.35	536,956.89	36.212160	-107.708056
7,563.00	90.84	135.92	5,018.63	-3,075.69	2,114.89	1,896,425.87	537,020.08	36.211979	-107.707842
7,655.00	90.80	135.66	5,017.32	-3,141.63	2,179.03	1,896,360.01	537,084.30	36.211798	-107.707625
7,747.00	91.94	135.52	5,015.12	-3,207.33	2,243.39	1,896,294.39	537,148.74	36.211618	-107.707407
7,839.00	90.94	134.78	5,012.80	-3,272.53	2,308.25	1,896,229.26	537,213.69	36.211439	-107.707187

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #501H
Project:	San Juan County, NM	TVD Reference:	KB @ 6917.00usft (Cyclone 32)
Site:	Rodeo UT 500 Pad	MD Reference:	KB @ 6917.00usft (Cyclone 32)
Well:	Rodeo UT #501H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	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
7,930.00	92.41	135.03	5,010.14	-3,336.74	2,372.68	1,896,165.13	537,278.19	36.211262	-107.706968
8,022.00	90.91	135.36	5,007.48	-3,401.99	2,437.48	1,896,099.96	537,343.07	36.211083	-107.706749
8,114.00	93.21	136.81	5,004.17	-3,468.21	2,501.24	1,896,033.82	537,406.92	36.210901	-107.706533
8,205.00	91.54	135.49	5,000.40	-3,533.78	2,564.23	1,895,968.33	537,469.98	36.210721	-107.706319
8,297.00	90.91	135.75	4,998.43	-3,599.52	2,628.56	1,895,902.67	537,534.39	36.210540	-107.706101
8,389.00	89.70	135.46	4,997.94	-3,665.25	2,692.92	1,895,837.01	537,598.83	36.210360	-107.705883
8,480.00	90.64	135.94	4,997.67	-3,730.38	2,756.48	1,895,771.97	537,662.47	36.210181	-107.705668
8,571.00	89.36	134.97	4,997.67	-3,795.23	2,820.31	1,895,707.19	537,726.38	36.210003	-107.705451
8,663.00	90.40	135.49	4,997.87	-3,860.54	2,885.10	1,895,641.96	537,791.25	36.209823	-107.705232
8,755.00	90.47	135.48	4,997.17	-3,926.15	2,949.60	1,895,576.43	537,855.83	36.209643	-107.705013
8,847.00	90.84	135.68	4,996.12	-3,991.85	3,013.99	1,895,510.81	537,920.29	36.209462	-107.704795
8,939.00	90.40	135.48	4,995.12	-4,057.55	3,078.37	1,895,445.18	537,984.76	36.209282	-107.704577
9,031.00	90.00	135.02	4,994.80	-4,122.89	3,143.14	1,895,379.92	538,049.61	36.209102	-107.704357
9,122.00	90.54	135.43	4,994.37	-4,187.49	3,207.23	1,895,315.40	538,113.78	36.208925	-107.704140
9,214.00	89.80	135.20	4,994.10	-4,252.90	3,271.93	1,895,250.07	538,178.56	36.208745	-107.703920
9,306.00	90.60	135.05	4,993.78	-4,318.09	3,336.84	1,895,184.96	538,243.55	36.208566	-107.703700
9,397.00	90.81	135.28	4,992.66	-4,382.62	3,401.00	1,895,120.51	538,307.78	36.208389	-107.703483
9,489.00	90.91	135.63	4,991.28	-4,448.18	3,465.52	1,895,055.03	538,372.39	36.208209	-107.703264
9,581.00	90.91	135.63	4,989.82	-4,513.94	3,529.85	1,894,989.35	538,436.80	36.208028	-107.703046
9,673.00	90.17	134.96	4,988.95	-4,579.32	3,594.56	1,894,924.04	538,501.59	36.207848	-107.702827
9,765.00	90.60	134.79	4,988.33	-4,644.23	3,659.76	1,894,859.21	538,566.86	36.207670	-107.702606
9,857.00	90.34	135.28	4,987.58	-4,709.32	3,724.77	1,894,794.20	538,631.95	36.207491	-107.702386
9,950.00	91.34	134.53	4,986.21	-4,774.97	3,790.63	1,894,728.64	538,697.90	36.207311	-107.702162
10,041.00	91.61	134.03	4,983.87	-4,838.48	3,855.76	1,894,665.21	538,763.10	36.207136	-107.701942
10,133.00	90.50	132.44	4,982.18	-4,901.48	3,922.77	1,894,602.28	538,830.19	36.206963	-107.701715
10,225.00	90.20	131.65	4,981.61	-4,963.10	3,991.09	1,894,540.76	538,898.58	36.206794	-107.701483
10,316.00	90.91	131.68	4,980.73	-5,023.59	4,059.07	1,894,480.35	538,966.64	36.206628	-107.701253
10,408.00	91.91	132.45	4,978.47	-5,085.20	4,127.35	1,894,418.81	539,034.99	36.206458	-107.701021
10,500.00	92.38	131.67	4,975.03	-5,146.79	4,195.60	1,894,357.31	539,103.32	36.206289	-107.700790
10,592.00	90.50	132.86	4,972.71	-5,208.64	4,263.66	1,894,295.54	539,171.45	36.206119	-107.700559
10,683.00	89.50	132.06	4,972.71	-5,270.08	4,330.79	1,894,234.19	539,238.66	36.205950	-107.700332
10,775.00	90.13	133.38	4,973.01	-5,332.49	4,398.38	1,894,171.86	539,306.33	36.205779	-107.700103
10,867.00	90.87	136.26	4,972.21	-5,397.33	4,463.63	1,894,107.10	539,371.65	36.205601	-107.699882
10,959.00	91.14	137.46	4,970.59	-5,464.45	4,526.53	1,894,040.06	539,434.63	36.205416	-107.699668
11,051.00	91.01	137.07	4,968.87	-5,532.01	4,588.95	1,893,972.57	539,497.14	36.205231	-107.699457
11,143.00	89.53	135.99	4,968.43	-5,598.77	4,652.24	1,893,905.89	539,560.51	36.205047	-107.699242
11,237.00	89.56	137.62	4,969.18	-5,667.30	4,716.58	1,893,837.44	539,624.93	36.204859	-107.699024
11,331.00	88.96	138.11	4,970.40	-5,737.00	4,779.63	1,893,767.82	539,688.07	36.204668	-107.698811
11,425.00	89.83	137.84	4,971.39	-5,806.82	4,842.56	1,893,698.07	539,751.08	36.204476	-107.698597
11,519.00	90.44	137.59	4,971.17	-5,876.36	4,905.80	1,893,628.61	539,814.41	36.204285	-107.698383
11,613.00	91.34	138.20	4,969.71	-5,946.09	4,968.82	1,893,558.95	539,877.51	36.204093	-107.698170
11,707.00	91.34	137.26	4,967.51	-6,015.63	5,032.03	1,893,489.49	539,940.81	36.203902	-107.697955
11,801.00	90.20	136.61	4,966.24	-6,084.30	5,096.21	1,893,420.90	540,005.07	36.203713	-107.697738
11,895.00	90.74	136.54	4,965.47	-6,152.57	5,160.82	1,893,352.71	540,069.77	36.203526	-107.697519
11,989.00	90.00	134.91	4,964.87	-6,219.87	5,226.44	1,893,285.49	540,135.46	36.203341	-107.697297
12,083.00	90.23	134.74	4,964.68	-6,286.13	5,293.11	1,893,219.31	540,202.22	36.203159	-107.697071
12,178.00	90.03	133.67	4,964.46	-6,352.37	5,361.21	1,893,153.16	540,270.40	36.202977	-107.696840
12,272.00	90.00	133.32	4,964.44	-6,417.06	5,429.40	1,893,088.54	540,338.67	36.202799	-107.696609
12,367.00	90.20	133.04	4,964.27	-6,482.07	5,498.67	1,893,023.62	540,408.02	36.202620	-107.696374
12,387.00	90.41	132.89	4,964.17	-6,495.70	5,513.31	1,893,010.01	540,422.67	36.202583	-107.696324
RSI@ 12387' MD, 1893010.01N, 540422.67E									
12,403.00	90.57	132.77	4,964.03	-6,506.58	5,525.04	1,892,999.14	540,434.42	36.202553	-107.696285
Last Survey Lateral									
12,442.19	90.57	132.77	4,963.64	-6,533.19	5,553.81	1,892,972.57	540,463.22	36.202480	-107.696187
RUT501H BHL									

Scientific Drilling Int.

Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #501H
Project:	San Juan County, NM	TVD Reference:	KB @ 6917.00usft (Cyclone 32)
Site:	Rodeo UT 500 Pad	MD Reference:	KB @ 6917.00usft (Cyclone 32)
Well:	Rodeo UT #501H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	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
12,465.00	90.57	132.77	4,963.41	-6,548.68	5,570.55	1,892,957.10	540,479.98	36.202437	-107.696130
BP@ 12465' MD, 1892957.10N, 540479.98E									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
RUT501H BHL	0.00	0.00	4,964.00	-6,508.36	5,576.78	1,892,997.43	540,486.16	36.202548	-107.696109
- actual wellpath misses target center by 33.83usft at 12442.19usft MD (4963.64 TVD, -6533.19 N, 5553.81 E)									
- Point									
RUT501H POE orig.	0.00	0.00	5,034.00	-1,772.73	852.81	1,897,727.29	535,756.41	36.215559	-107.712120
- actual wellpath misses target center by 7.79usft at 5748.40usft MD (5031.96 TVD, -1777.89 N, 847.34 E)									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
438.00	437.98	-0.12	1.87	First Survey Int.	
4,702.00	4,500.78	-1,190.20	350.13	Last Survey Int.	
4,733.00	4,530.67	-1,197.71	353.48	First Survey Curve	
5,709.00	5,032.72	-1,749.38	820.15	Last Survey Curve	
5,757.00	5,031.79	-1,784.13	853.26	7"Casing@ 5757' MD, 1897715.89N, 535756.87E	
5,864.00	5,029.65	-1,862.34	926.24	First Survey Lateral	
12,387.00	4,964.17	-6,495.70	5,513.31	RSI@ 12387' MD, 1893010.01N, 540422.67E	
12,403.00	4,964.03	-6,506.58	5,525.04	Last Survey Lateral	
12,465.00	4,963.41	-6,548.68	5,570.55	BP@ 12465' MD, 1892957.10N, 540479.98E	

Checked By: _____	Approved By: _____	Date: _____
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