

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

OIL CONS. DIV DIST. 3
JUL 17 2017

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35796		*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 317527	*Property Name RODEO UNIT		*Well Number 500H
*GRID No 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6896'

¹⁰ Surface Location

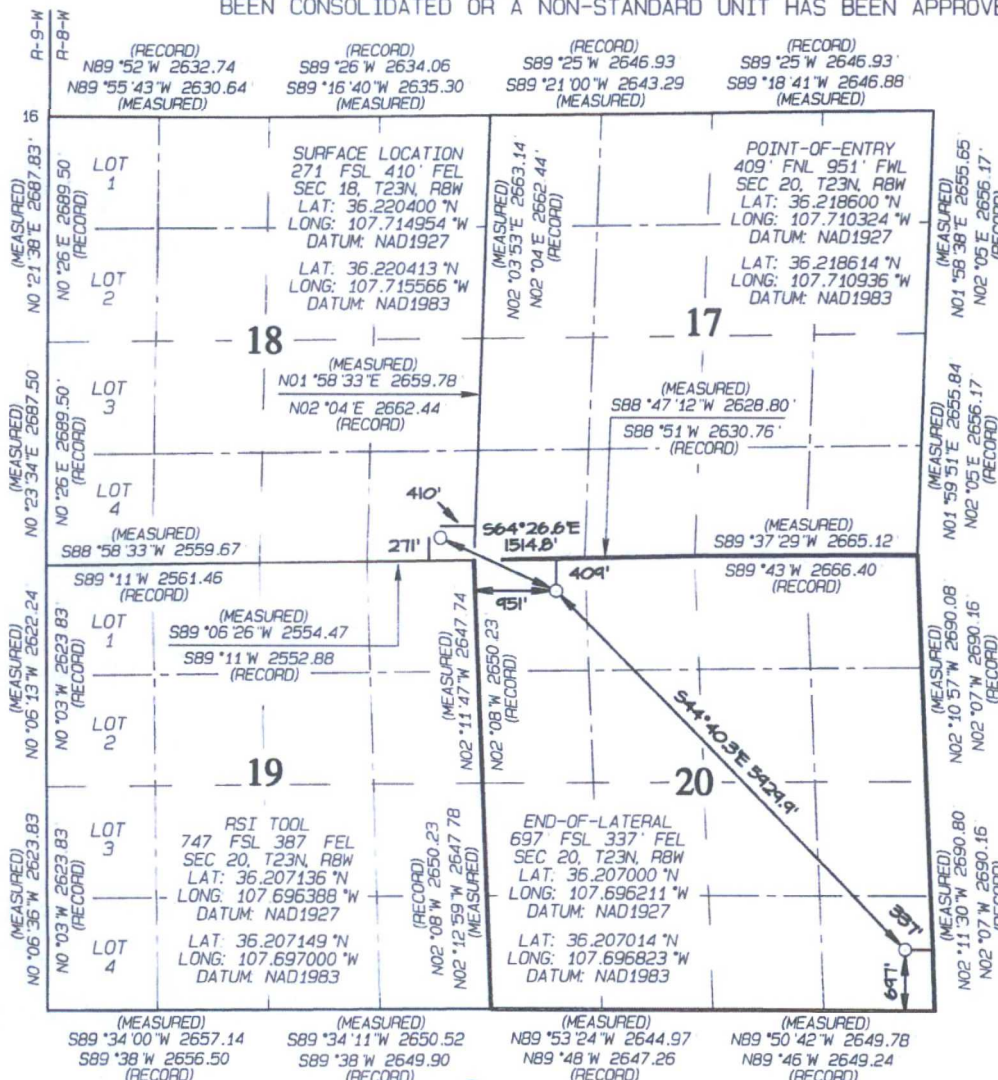
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	23N	8W		271	SOUTH	410	EAST	SAN JUAN

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
P	20	23N	8W		697	SOUTH	337	EAST	SAN JUAN

¹² Dedicated Acres 640.00	Entire Section 20	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



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 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



OIL CONS. DIV DIST. 3

JUL 17 2017

EOW Summary

WPX Energy
Rodeo UT 500H

CONFIDENTIAL



Rodeo UT #500H
San Juan County, NM
Northing: 1899488.44
Easting: 534918.26
Actual

KB @ 6917.00usft (Cyclone 32)
GL @ 6896.00



WELL DETAILS Rodeo UT #500H

		Ground Level: 6896.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1899488.44	534918.26	36.220400	-107.714954

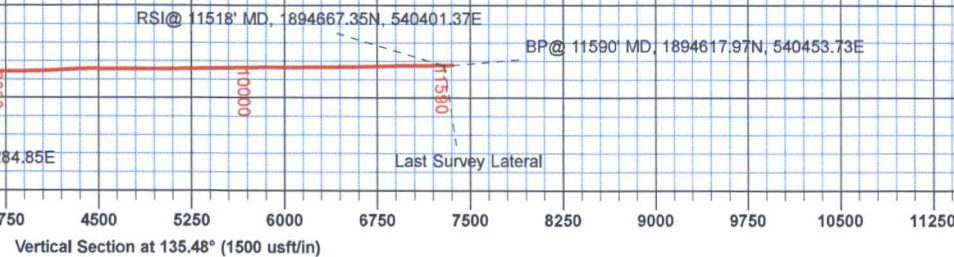
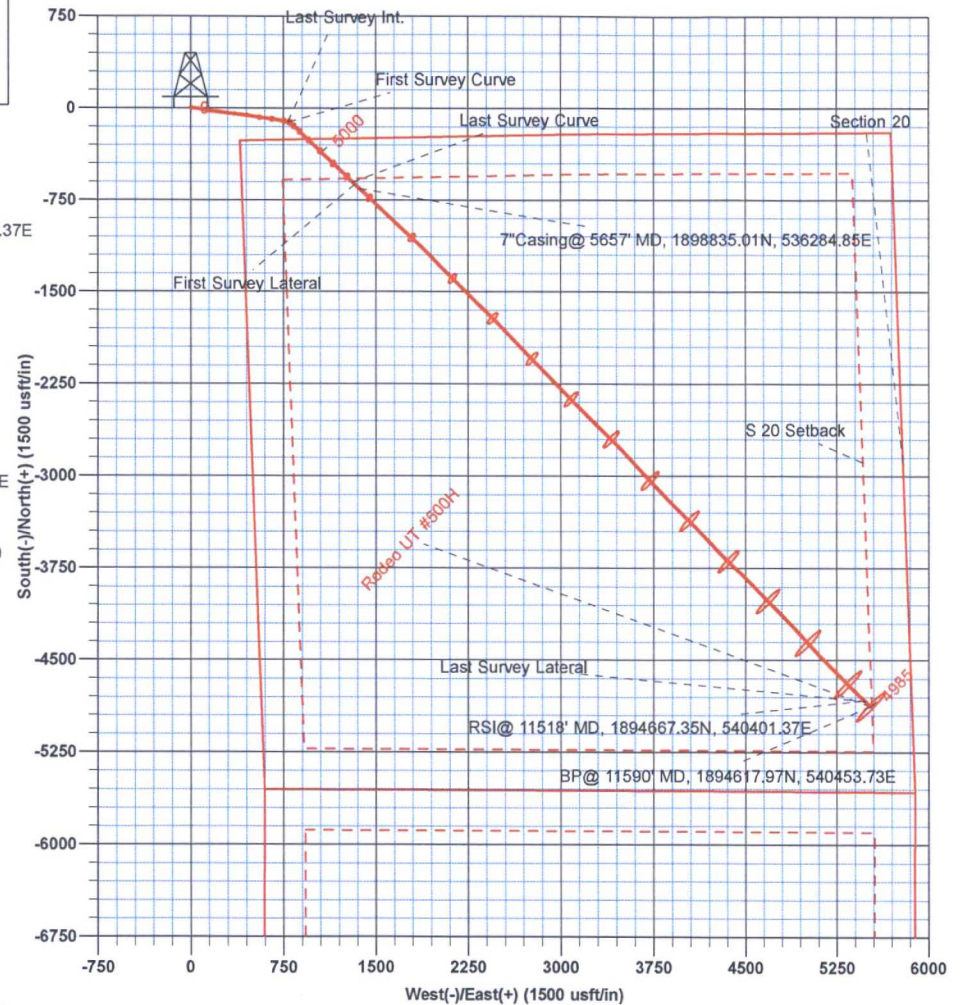
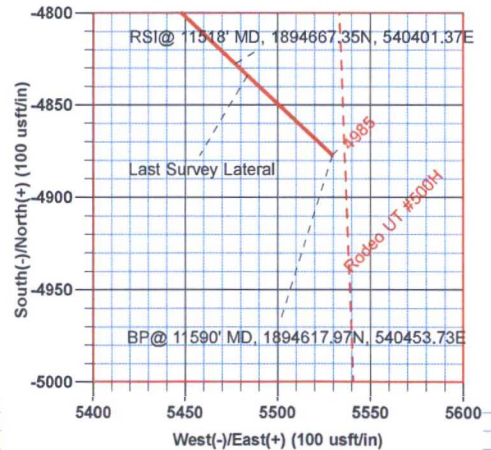
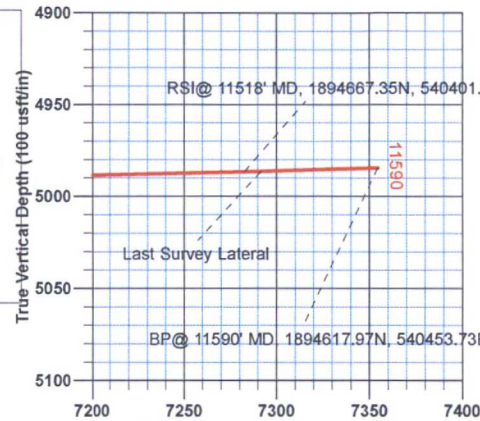
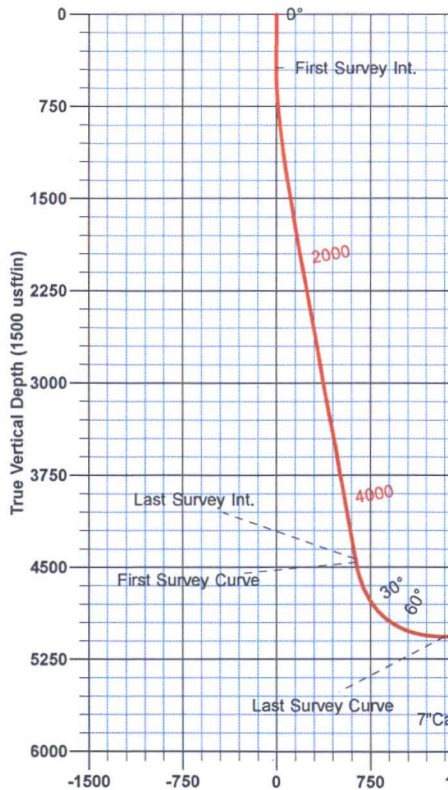


Azimuths to True North
Magnetic North: 9.02°

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

TVD	MD	ANNOTATIONS
437.97	438.00	Annotation
4431.79	4515.00	First Survey Int.
4462.11	4546.00	Last Survey Int.
5067.44	5580.00	First Survey Curve
5067.70	5608.00	Last Survey Curve
5067.68	5608.00	First Survey Lateral
4986.72	5657.00	7" Casing@ 5657' MD, 1898835.01N, 536284.85E
4986.47	11518.00	RSI@ 11518' MD, 1894667.35N, 540401.37E
4984.68	11527.00	Last Survey Lateral
	11590.00	BP@ 11590' MD, 1894617.97N, 540453.73E

CONFIDENTIAL



Bailey Fellows
9:58, June 22 2017

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

WPX Energy

San Juan County, NM

Rodeo UT 500 Pad

Rodeo UT #500H

API: 30-045-35796

Wellbore #1

Design: Actual

Survey Report - Geographic

22 June, 2017

CONFIDENTIAL



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #500H
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 #500H	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 #500H					
Well Position	+N/-S	0.00 usft	Northing:	1,899,488.44 usft	Latitude:	36.220400
	+E/-W	0.00 usft	Easting:	534,918.27 usft	Longitude:	-107.714954
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	135.48	

Survey Program	Date	6/22/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
50.00	306.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
306.00	4,515.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,546.00	5,580.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,608.00	11,590.00	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	1,899,488.44	534,918.27	36.220400	-107.714954	
50.00	0.43	6.71	50.00	0.19	0.02	1,899,488.63	534,918.29	36.220401	-107.714954	
100.00	0.53	18.49	100.00	0.59	0.12	1,899,489.03	534,918.38	36.220402	-107.714954	
150.00	0.65	0.81	150.00	1.09	0.19	1,899,489.54	534,918.46	36.220403	-107.714954	
200.00	0.88	13.68	199.99	1.75	0.29	1,899,490.19	534,918.55	36.220405	-107.714953	
250.00	0.52	20.87	249.99	2.34	0.46	1,899,490.78	534,918.72	36.220407	-107.714953	
300.00	0.62	21.08	299.98	2.80	0.64	1,899,491.24	534,918.90	36.220408	-107.714952	
306.00	0.65	19.49	305.98	2.86	0.66	1,899,491.30	534,918.93	36.220408	-107.714952	

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #500H
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 #500H	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	0.78	19.93	437.97	4.41	1.22	1,899,492.86	534,919.48	36.220412	-107.714950
First Survey Int.									
530.00	1.62	101.04	529.96	4.75	2.71	1,899,493.20	534,920.97	36.220413	-107.714945
623.00	4.13	107.28	622.83	3.51	7.20	1,899,491.96	534,925.46	36.220410	-107.714930
715.00	6.04	103.61	714.47	1.38	15.07	1,899,489.84	534,933.33	36.220404	-107.714903
807.00	8.07	97.47	805.77	-0.60	26.17	1,899,487.88	534,944.44	36.220398	-107.714866
899.00	8.44	97.79	896.81	-2.35	39.27	1,899,486.14	534,957.54	36.220394	-107.714821
991.00	8.34	97.15	987.83	-4.10	52.58	1,899,484.41	534,970.85	36.220389	-107.714776
1,084.00	8.00	99.97	1,079.89	-6.06	65.64	1,899,482.47	534,983.92	36.220383	-107.714732
1,177.00	9.19	98.67	1,171.84	-8.30	79.36	1,899,480.24	534,997.63	36.220377	-107.714685
1,269.00	9.72	98.01	1,262.59	-10.48	94.31	1,899,478.07	535,012.59	36.220371	-107.714635
1,361.00	10.83	103.66	1,353.12	-13.61	110.40	1,899,474.97	535,028.68	36.220363	-107.714580
1,454.00	12.14	102.43	1,444.25	-17.78	128.44	1,899,470.82	535,046.73	36.220351	-107.714519
1,548.00	12.80	96.03	1,536.04	-21.00	148.45	1,899,467.62	535,066.74	36.220342	-107.714451
1,641.00	11.63	92.82	1,626.93	-22.54	168.06	1,899,466.10	535,086.35	36.220338	-107.714385
1,736.00	11.72	101.11	1,719.97	-24.87	187.09	1,899,463.80	535,105.39	36.220332	-107.714320
1,829.00	13.05	97.41	1,810.81	-28.05	206.77	1,899,460.65	535,125.07	36.220323	-107.714253
1,923.00	12.51	98.30	1,902.48	-30.89	227.37	1,899,457.83	535,145.68	36.220315	-107.714183
2,017.00	13.22	98.78	1,994.12	-34.00	248.07	1,899,454.75	535,166.38	36.220307	-107.714113
2,111.00	11.84	98.26	2,085.88	-37.02	268.24	1,899,451.75	535,186.55	36.220298	-107.714045
2,205.00	13.26	96.47	2,177.63	-39.62	288.49	1,899,449.17	535,206.81	36.220291	-107.713976
2,299.00	12.98	96.26	2,269.18	-41.99	309.70	1,899,446.83	535,228.02	36.220285	-107.713904
2,393.00	13.26	96.57	2,360.72	-44.37	330.90	1,899,444.47	535,249.22	36.220278	-107.713832
2,487.00	13.82	95.48	2,452.11	-46.68	352.79	1,899,442.19	535,271.11	36.220272	-107.713758
2,581.00	13.70	94.78	2,543.41	-48.68	375.06	1,899,440.22	535,293.38	36.220266	-107.713683
2,675.00	13.17	95.55	2,634.84	-50.64	396.81	1,899,438.28	535,315.13	36.220261	-107.713609
2,769.00	12.14	96.10	2,726.55	-52.73	417.29	1,899,436.22	535,335.62	36.220255	-107.713540
2,863.00	12.85	98.78	2,818.33	-55.37	437.45	1,899,433.60	535,355.79	36.220248	-107.713471
2,957.00	10.51	97.53	2,910.38	-58.09	456.28	1,899,430.91	535,374.62	36.220240	-107.713407
3,051.00	11.47	100.29	3,002.65	-60.89	473.98	1,899,428.13	535,392.32	36.220233	-107.713347
3,145.00	12.84	101.78	3,094.54	-64.69	493.40	1,899,424.36	535,411.75	36.220222	-107.713282
3,239.00	13.16	100.00	3,186.13	-68.68	514.16	1,899,420.39	535,432.51	36.220211	-107.713211
3,333.00	12.76	101.02	3,277.74	-72.52	534.89	1,899,416.57	535,453.25	36.220201	-107.713141
3,427.00	14.09	98.07	3,369.17	-76.11	556.41	1,899,413.01	535,474.77	36.220191	-107.713068
3,520.00	13.09	96.45	3,459.56	-78.88	578.08	1,899,410.26	535,496.45	36.220183	-107.712994
3,614.00	11.50	96.76	3,551.41	-81.18	597.97	1,899,407.99	535,516.33	36.220177	-107.712927
3,708.00	12.42	96.69	3,643.36	-83.46	617.31	1,899,405.73	535,535.68	36.220171	-107.712861
3,802.00	12.27	97.29	3,735.19	-85.91	637.26	1,899,403.31	535,555.63	36.220164	-107.712794
3,896.00	13.12	99.11	3,826.89	-88.87	657.70	1,899,400.38	535,576.08	36.220156	-107.712725
3,990.00	12.87	99.81	3,918.48	-92.34	678.55	1,899,396.93	535,596.93	36.220146	-107.712654
4,084.00	12.59	101.09	4,010.17	-96.09	698.92	1,899,393.20	535,617.31	36.220136	-107.712585
4,178.00	11.94	98.48	4,102.03	-99.50	718.59	1,899,389.82	535,636.98	36.220127	-107.712518
4,272.00	11.59	99.26	4,194.05	-102.45	737.53	1,899,386.89	535,655.92	36.220119	-107.712454
4,366.00	11.28	100.99	4,286.19	-105.72	755.87	1,899,383.64	535,674.27	36.220110	-107.712392
4,460.00	13.01	99.94	4,378.08	-109.30	775.32	1,899,380.09	535,693.72	36.220100	-107.712326
4,483.00	12.42	100.38	4,400.52	-110.19	780.31	1,899,379.20	535,698.71	36.220097	-107.712309
4,515.00	11.99	99.96	4,431.79	-111.39	786.96	1,899,378.01	535,705.37	36.220094	-107.712286
Last Survey Int.									
4,546.00	12.10	106.44	4,462.11	-112.87	793.25	1,899,376.54	535,711.66	36.220090	-107.712265
First Survey Curve									
4,577.00	12.30	118.34	4,492.42	-115.35	799.28	1,899,374.06	535,717.68	36.220083	-107.712245
4,609.00	12.72	129.56	4,523.66	-119.22	804.99	1,899,370.21	535,723.40	36.220073	-107.712225
4,640.00	14.25	132.83	4,553.81	-123.98	810.42	1,899,365.45	535,728.84	36.220059	-107.712207
4,671.00	16.53	133.47	4,583.69	-129.61	816.42	1,899,359.83	535,734.85	36.220044	-107.712186
4,702.00	18.96	132.96	4,613.22	-136.08	823.31	1,899,353.37	535,741.74	36.220026	-107.712163

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #500H
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 #500H	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
4,734.00	21.01	133.22	4,643.29	-143.55	831.29	1,899,345.91	535,749.74	36.220006	-107.712136
4,765.00	23.45	133.26	4,671.98	-151.58	839.84	1,899,337.88	535,758.29	36.219984	-107.712107
4,796.00	25.19	133.05	4,700.23	-160.32	849.15	1,899,329.16	535,767.61	36.219960	-107.712076
4,828.00	27.26	133.07	4,728.93	-169.97	859.48	1,899,319.52	535,777.96	36.219933	-107.712040
4,859.00	29.99	134.79	4,756.14	-180.28	870.17	1,899,309.22	535,788.66	36.219905	-107.712004
4,890.00	31.39	134.88	4,782.80	-191.43	881.39	1,899,298.08	535,799.89	36.219874	-107.711966
4,922.00	35.41	135.24	4,809.51	-203.90	893.83	1,899,285.63	535,812.34	36.219840	-107.711924
4,953.00	38.23	134.05	4,834.32	-216.95	907.05	1,899,272.60	535,825.58	36.219804	-107.711879
4,984.00	41.50	133.66	4,858.12	-230.71	921.38	1,899,258.85	535,839.92	36.219766	-107.711831
5,016.00	44.15	133.07	4,881.58	-245.65	937.19	1,899,243.94	535,855.76	36.219725	-107.711777
5,047.00	47.20	133.22	4,903.24	-260.81	953.37	1,899,228.79	535,871.95	36.219684	-107.711722
5,078.00	50.56	132.93	4,923.62	-276.76	970.43	1,899,212.87	535,889.03	36.219640	-107.711664
5,110.00	53.27	133.87	4,943.36	-294.06	988.72	1,899,195.58	535,907.35	36.219592	-107.711602
5,141.00	57.24	133.42	4,961.03	-311.64	1,007.15	1,899,178.03	535,925.80	36.219544	-107.711540
5,172.00	60.83	132.76	4,976.97	-329.79	1,026.56	1,899,159.90	535,945.23	36.219494	-107.711474
5,203.00	64.03	133.74	4,991.32	-348.62	1,046.57	1,899,141.10	535,965.26	36.219442	-107.711406
5,234.00	66.30	134.73	5,004.34	-368.25	1,066.73	1,899,121.50	535,985.44	36.219388	-107.711338
5,266.00	68.90	134.94	5,016.53	-389.11	1,087.71	1,899,100.66	536,006.45	36.219331	-107.711267
5,297.00	71.59	134.49	5,027.01	-409.63	1,108.44	1,899,080.16	536,027.20	36.219275	-107.711197
5,329.00	73.44	135.16	5,036.62	-431.15	1,130.08	1,899,058.67	536,048.87	36.219216	-107.711123
5,360.00	76.24	133.83	5,044.73	-452.11	1,151.42	1,899,037.73	536,070.24	36.219158	-107.711051
5,391.00	78.72	132.43	5,051.45	-472.80	1,173.51	1,899,017.08	536,092.35	36.219101	-107.710976
5,423.00	80.89	133.14	5,057.11	-494.19	1,196.62	1,898,995.71	536,115.49	36.219042	-107.710898
5,454.00	83.26	132.63	5,061.39	-515.08	1,219.12	1,898,974.85	536,138.01	36.218985	-107.710821
5,485.00	85.39	133.40	5,064.45	-536.13	1,241.67	1,898,953.83	536,160.59	36.218927	-107.710745
5,517.00	88.12	134.22	5,066.26	-558.24	1,264.72	1,898,931.74	536,183.67	36.218866	-107.710667
5,548.00	89.13	134.39	5,067.01	-579.89	1,286.90	1,898,910.12	536,205.88	36.218807	-107.710592
5,580.00	89.33	133.74	5,067.44	-602.14	1,309.89	1,898,887.90	536,228.89	36.218746	-107.710514
Last Survey Curve									
5,608.00	89.60	133.56	5,067.70	-621.47	1,330.15	1,898,868.60	536,249.18	36.218693	-107.710445
First Survey Lateral									
5,644.12	90.23	133.24	5,067.75	-646.28	1,356.39	1,898,843.81	536,275.45	36.218625	-107.710356
RUT500H POE org.									
5,657.00	90.46	133.13	5,067.68	-655.10	1,365.79	1,898,835.01	536,284.85	36.218600	-107.710324
7"Casing@ 5657' MD, 1898835.01N, 536284.85E									
5,675.00	90.77	132.97	5,067.48	-667.39	1,378.94	1,898,822.74	536,298.02	36.218567	-107.710280
5,770.00	91.85	133.98	5,065.31	-732.73	1,447.86	1,898,757.48	536,367.02	36.218387	-107.710046
5,865.00	90.50	134.57	5,063.36	-799.03	1,515.86	1,898,691.26	536,435.10	36.218205	-107.709815
5,960.00	88.49	132.94	5,064.20	-864.73	1,584.47	1,898,625.65	536,503.79	36.218024	-107.709583
6,054.00	89.77	132.37	5,065.63	-928.41	1,653.60	1,898,562.05	536,572.99	36.217849	-107.709348
6,149.00	89.90	133.42	5,065.90	-993.07	1,723.19	1,898,497.47	536,642.67	36.217672	-107.709113
6,244.00	89.26	132.68	5,066.60	-1,057.92	1,792.61	1,898,432.71	536,712.17	36.217494	-107.708877
6,339.00	90.60	134.38	5,066.71	-1,123.34	1,861.48	1,898,367.37	536,781.12	36.217314	-107.708644
6,433.00	92.62	136.79	5,064.07	-1,190.45	1,927.24	1,898,300.34	536,846.95	36.217130	-107.708421
6,527.00	92.52	135.78	5,059.86	-1,258.33	1,992.13	1,898,232.55	536,911.93	36.216943	-107.708201
6,621.00	90.17	135.61	5,057.65	-1,325.57	2,057.76	1,898,165.38	536,977.65	36.216758	-107.707978
6,716.00	90.47	135.48	5,057.12	-1,393.38	2,124.30	1,898,097.65	537,044.26	36.216572	-107.707753
6,808.00	90.84	135.39	5,056.07	-1,458.92	2,188.85	1,898,032.19	537,108.90	36.216392	-107.707534
6,899.00	91.27	134.78	5,054.39	-1,523.35	2,253.09	1,897,967.84	537,173.21	36.216215	-107.707316
6,991.00	91.89	134.53	5,051.86	-1,587.99	2,318.51	1,897,903.28	537,238.71	36.216037	-107.707095
7,083.00	90.54	133.02	5,049.91	-1,651.62	2,384.92	1,897,839.73	537,305.20	36.215863	-107.706869
7,175.00	91.51	135.33	5,048.26	-1,715.71	2,450.89	1,897,775.72	537,371.25	36.215686	-107.706646
7,266.00	91.98	137.57	5,045.49	-1,781.63	2,513.55	1,897,709.88	537,433.99	36.215505	-107.706433
7,358.00	90.07	135.94	5,043.84	-1,848.63	2,576.57	1,897,642.95	537,497.09	36.215321	-107.706220

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #500H
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 #500H	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	
7,450.00	90.17	135.86	5,043.65	-1,914.70	2,640.59	1,897,576.97	537,561.20	36.215140	-107.706003	
7,541.00	90.23	135.52	5,043.33	-1,979.82	2,704.16	1,897,511.93	537,624.84	36.214961	-107.705787	
7,633.00	90.97	135.40	5,042.37	-2,045.39	2,768.69	1,897,446.44	537,689.45	36.214781	-107.705569	
7,725.00	91.44	137.65	5,040.43	-2,112.13	2,831.97	1,897,379.77	537,752.81	36.214597	-107.705354	
7,816.00	90.97	136.76	5,038.52	-2,178.89	2,893.78	1,897,313.09	537,814.70	36.214414	-107.705145	
7,907.00	89.13	134.46	5,038.44	-2,243.91	2,957.43	1,897,248.14	537,878.43	36.214235	-107.704929	
7,999.00	91.14	136.96	5,038.22	-2,309.76	3,021.66	1,897,182.38	537,942.75	36.214054	-107.704711	
8,091.00	89.40	134.84	5,037.79	-2,375.82	3,085.68	1,897,116.39	538,006.84	36.213873	-107.704494	
8,183.00	90.40	135.90	5,037.95	-2,441.29	3,150.31	1,897,051.00	538,071.55	36.213693	-107.704275	
8,275.00	92.95	135.23	5,035.26	-2,506.95	3,214.68	1,896,985.42	538,136.01	36.213513	-107.704057	
8,367.00	93.36	135.08	5,030.20	-2,572.08	3,279.46	1,896,920.37	538,200.87	36.213334	-107.703837	
8,459.00	93.79	134.08	5,024.46	-2,636.52	3,344.86	1,896,856.00	538,266.35	36.213157	-107.703616	
8,550.00	92.92	134.66	5,019.14	-2,700.05	3,409.80	1,896,792.56	538,331.36	36.212982	-107.703396	
8,642.00	90.77	136.00	5,016.17	-2,765.44	3,474.44	1,896,727.25	538,396.08	36.212802	-107.703176	
8,733.00	88.96	137.94	5,016.39	-2,831.95	3,536.53	1,896,660.81	538,458.25	36.212620	-107.702966	
8,825.00	89.29	137.76	5,017.79	-2,900.15	3,598.26	1,896,592.68	538,520.07	36.212432	-107.702757	
8,917.00	89.43	137.19	5,018.82	-2,967.95	3,660.44	1,896,524.96	538,582.33	36.212246	-107.702546	
9,010.00	89.33	137.42	5,019.83	-3,036.30	3,723.50	1,896,456.69	538,645.47	36.212058	-107.702332	
9,101.00	90.10	136.61	5,020.28	-3,102.87	3,785.54	1,896,390.20	538,707.60	36.211875	-107.702122	
9,193.00	91.14	137.07	5,019.29	-3,169.97	3,848.47	1,896,323.17	538,770.61	36.211691	-107.701909	
9,284.00	90.94	136.08	5,017.63	-3,236.05	3,911.01	1,896,257.17	538,833.23	36.211509	-107.701697	
9,376.00	90.13	134.79	5,016.77	-3,301.59	3,975.57	1,896,191.71	538,897.86	36.211329	-107.701478	
9,468.00	90.27	133.79	5,016.45	-3,365.83	4,041.42	1,896,127.54	538,963.79	36.211153	-107.701255	
9,559.00	90.13	136.87	5,016.14	-3,430.54	4,105.39	1,896,062.91	539,027.84	36.210975	-107.701038	
9,651.00	91.11	137.15	5,015.14	-3,497.83	4,168.12	1,895,995.70	539,090.65	36.210790	-107.700825	
9,743.00	91.74	136.55	5,012.85	-3,564.93	4,231.02	1,895,928.68	539,153.63	36.210606	-107.700612	
9,835.00	90.57	134.97	5,011.00	-3,630.82	4,295.18	1,895,862.86	539,217.88	36.210425	-107.700395	
9,926.00	90.77	134.48	5,009.93	-3,694.86	4,359.83	1,895,798.91	539,282.61	36.210249	-107.700176	
10,018.00	91.17	133.49	5,008.38	-3,758.74	4,426.02	1,895,735.11	539,348.87	36.210073	-107.699951	
10,110.00	90.50	132.89	5,007.04	-3,821.70	4,493.09	1,895,672.23	539,416.02	36.209900	-107.699724	
10,202.00	89.50	135.34	5,007.04	-3,885.73	4,559.13	1,895,608.28	539,482.14	36.209724	-107.699500	
10,294.00	91.31	136.23	5,006.38	-3,951.67	4,623.28	1,895,542.42	539,546.37	36.209543	-107.699283	
10,386.00	91.61	136.92	5,004.04	-4,018.46	4,686.51	1,895,475.70	539,609.67	36.209360	-107.699068	
10,480.00	90.00	134.72	5,002.72	-4,085.86	4,752.00	1,895,408.38	539,675.25	36.209174	-107.698846	
10,575.00	89.87	133.64	5,002.83	-4,152.07	4,820.13	1,895,342.26	539,743.46	36.208993	-107.698616	
10,670.00	89.83	137.22	5,003.08	-4,219.73	4,886.79	1,895,274.68	539,810.20	36.208807	-107.698390	
10,764.00	91.27	137.67	5,002.17	-4,288.97	4,950.36	1,895,205.52	539,873.86	36.208616	-107.698174	
10,859.00	92.08	137.78	4,999.40	-4,359.23	5,014.23	1,895,135.33	539,937.82	36.208423	-107.697958	
10,953.00	91.54	136.99	4,996.43	-4,428.37	5,077.85	1,895,066.27	540,001.52	36.208233	-107.697742	
11,048.00	91.45	135.76	4,993.95	-4,497.12	5,143.37	1,894,997.61	540,067.12	36.208045	-107.697520	
11,142.00	91.81	134.98	4,991.28	-4,563.99	5,209.38	1,894,930.82	540,133.21	36.207861	-107.697296	
11,236.00	89.60	135.09	4,990.12	-4,630.49	5,275.79	1,894,864.40	540,199.71	36.207678	-107.697071	
11,330.00	90.48	134.97	4,990.05	-4,696.99	5,342.23	1,894,797.98	540,266.22	36.207495	-107.696846	
11,425.00	91.01	133.98	4,988.82	-4,763.54	5,410.01	1,894,731.51	540,334.09	36.207312	-107.696616	
11,518.00	91.58	133.44	4,986.72	-4,827.79	5,477.21	1,894,667.35	540,401.37	36.207136	-107.696389	
RSI@ 11518' MD, 1894667.35N, 540401.37E										
11,527.00	91.63	133.39	4,986.47	-4,833.97	5,483.75	1,894,661.17	540,407.91	36.207119	-107.696367	
Last Survey Lateral										
11,579.52	91.63	133.39	4,984.97	-4,870.03	5,521.90	1,894,625.15	540,446.11	36.207020	-107.696237	
RUT500H BHL										
11,590.00	91.63	133.39	4,984.68	-4,877.23	5,529.51	1,894,617.97	540,453.73	36.207000	-107.696211	
BP@ 11590' MD, 1894617.97N, 540453.73E										

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rodeo UT #500H
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 #500H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
RUT500H BHL	0.00	0.00	5,004.00	-4,856.48	5,535.45	1,894,638.72	540,459.65	36.207057	-107.696191
- actual wellpath misses target center by 27.01usft at 11579.52usft MD (4984.97 TVD, -4870.03 N, 5521.90 E)									
- Point									
RUT500H POE	0.00	0.00	5,067.36	-733.01	1,480.64	1,898,757.24	536,399.80	36.218386	-107.709935
- actual wellpath misses target center by 22.76usft at 5793.62usft MD (5064.62 TVD, -749.15 N, 1464.83 E)									
- Point									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
438.00	437.97	4.41	1.22	First Survey Int.
4,515.00	4,431.79	-111.39	786.96	Last Survey Int.
4,546.00	4,462.11	-112.87	793.25	First Survey Curve
5,580.00	5,067.44	-602.14	1,309.89	Last Survey Curve
5,608.00	5,067.70	-621.47	1,330.15	First Survey Lateral
5,657.00	5,067.68	-655.10	1,365.79	7"Casing@ 5657' MD, 1898835.01N, 536284.85E
11,518.00	4,986.72	-4,827.79	5,477.21	RSI@ 11518' MD, 1894667.35N, 540401.37E
11,527.00	4,986.47	-4,833.97	5,483.75	Last Survey Lateral
11,590.00	4,984.68	-4,877.23	5,529.51	BP@ 11590' MD, 1894617.97N, 540453.73E

Checked By: _____ Approved By: _____ Date: _____