

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 30-039-31315	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 17033	Property Name ROSA UNIT	Well Number 642H
GRID No. 120782	Operator Name WPX ENERGY PRODUCTION, LLC	Elevation 6305'

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
C	19	31N	5W	1	975	NORTH	524	WEST	RIO ARriba

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	23	31N	6W		1309	NORTH	1	EAST	RIO ARriba

Dedicated Acres N/2 - Section 19, T31N, R5W
823.91 N/2 - 23 & 24, T31N, R6W

Joint or Infill

Consolidation Code

Order No.

R-13457-A

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

END-OF-LATERAL
1309' FNL 1' FEL
SECTION 23, T31N, R6W
LAT: 36.888772°N
LONG: 107.422530°W
DATUM: NAD1927

RSI TOOL
1307' FNL 54' FNL
SECTION 24, T31N, R6W
LAT: 36.888777°N
LONG: 107.422342°W
DATUM: NAD1927

SURFACE LOCATION
975' FNL 524' FNL
SECTION 19, T31N, R5W
LAT: 36.889646°N
LONG: 107.405383°W
DATUM: NAD1927

POINT-OF-ENTRY
1243' FNL 899' FNL
SECTION 19, T31N, R5W
LAT: 36.888910°N
LONG: 107.404101°W
DATUM: NAD1927

LAT: 36.888778°N
LONG: 107.423134°W
DATUM: NAD1983

LAT: 36.888783°N
LONG: 107.422946°W
DATUM: NAD1983

LAT: 36.889652°N
LONG: 107.405986°W
DATUM: NAD1983

LAT: 36.888916°N
LONG: 107.404704°W
DATUM: NAD1983

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 *Marie E. Jaramillo* Date 3/21/16

Printed Name Marie E. Jaramillo
marie.jaramillo@wpxenergy.com
E-mail Address

18 SURVEYOR CERTIFICATION

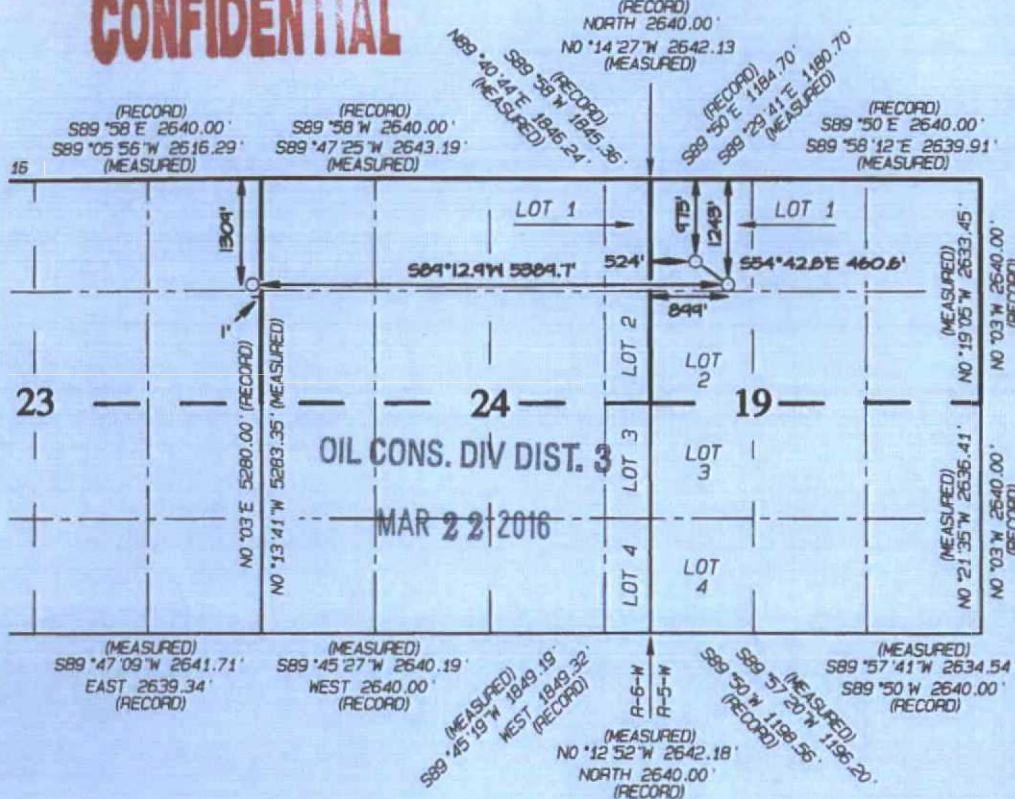
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: SEPTEMBER 22, 2015
Date of Survey: JANUARY 2, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269





OIL CONS. DIV DIST. 3
MAR 22 2016

WPX Energy

T31N R5W Rosa Unit

Pad 27

ROSA UT 27 #642H - Slot A01

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

14 September, 2015

CONFIDENTIAL



Scientific Drilling

www.scientificdrilling.com



OIL CONS. DIV DIST. 3

MAR 22 2016



Company Name: WPX Energy
Project: T31N R5W Rosa Unit
Site: Pad 27
Well: ROSA UT 27 #642H



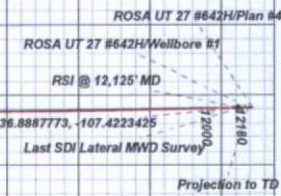
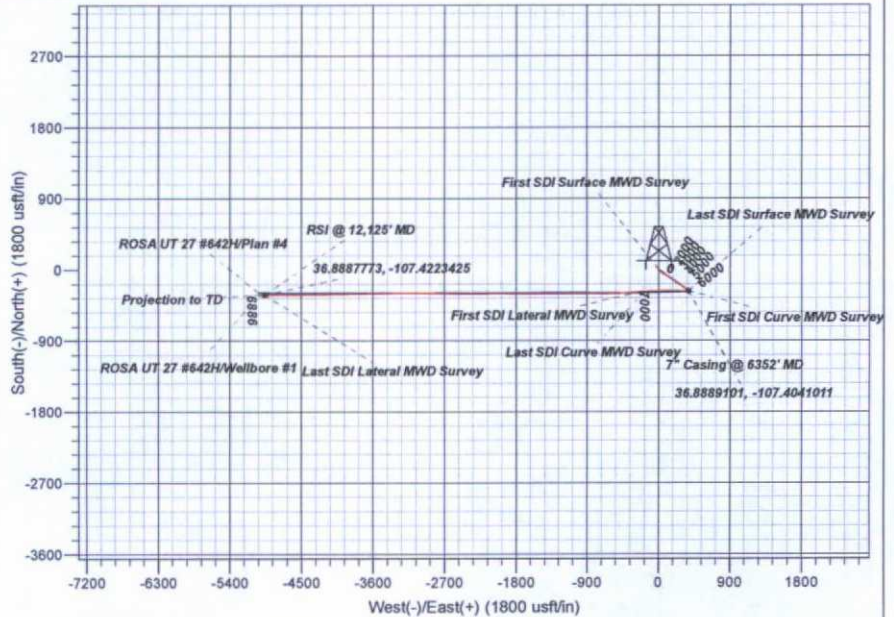
Azimuths to True North
Magnetic North: 9.22°

Magnetic Field
Strength: 50247.6nT
Dip Angle: 63.55°
Date: 8/26/2015
Model: HDGM

WELL DETAILS: ROSA UT 27 #642H

+N/-S	+E/-W	KB @ 6330.00usft (Aztec 1000)	6305.00		
0.00	0.00	Northing	Easting	Latitude	Longitude
		2143374.94	625148.79	36.8896456	-107.4053827

A01



Design: Wellbore #1 (ROSA UT 27 #642H/Wellbore #1)
Created By: Janie Collins Date: 12.21, September 14 2015

PROJECT DETAILS: T31N R5W Rosa Unit

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	Local Co-ordinate Reference:	Well ROSA UT 27 #642H - Slot A01
Project:	T31N R5W Rosa Unit	TVD Reference:	KB @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	KB @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #642H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Project	T31N R5W Rosa Unit		
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	Pad 27		
Site Position:		Northing:	2,143,400.02 usft
From:	Lat/Long	Easting:	625,077.55 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.8897153
		Longitude:	-107.4056260
		Grid Convergence:	0.26 °

Well	ROSA UT 27 #642H - Slot A01		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.8896455
		Longitude:	-107.4053827
		Ground Level:	6,305.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	8/26/2015	9.22
			Dip Angle
			(°)
			Field Strength
			(nT)
			50,248

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			270.02

Survey Program	Date 9/14/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
125.00	305.00	Surface Gyro (Wellbore #1)	NS-GYRO-MS
389.00	6,351.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD
6,382.00	7,345.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD
7,376.00	12,180.00	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD
			Description
			North sensing gyrocompassing m/s
			SDI MWD - Standard ver 1.0.1
			SDI MWD - Standard ver 1.0.1
			SDI MWD - Standard ver 1.0.1

CONFIDENTIAL

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting		
(usft)			(usft)			(usft)	(usft)		
0.00	0.00	0.00	0.00	0.00	0.00	2,143,374.94	625,148.80	36.8896455	-107.4053827
125.00	0.68	137.88	125.00	-0.55	0.50	2,143,374.39	625,149.30	36.8896440	-107.4053810
225.00	0.89	140.48	224.99	-1.59	1.39	2,143,373.35	625,150.20	36.8896412	-107.4053780
305.00	0.71	151.92	304.98	-2.51	2.02	2,143,372.44	625,150.83	36.8896386	-107.4053758
389.00	0.68	151.00	388.97	-3.40	2.50	2,143,371.55	625,151.32	36.8896362	-107.4053742
First SDI Surface MWD Survey									
449.00	1.42	144.89	448.96	-4.32	3.11	2,143,370.63	625,151.92	36.8896337	-107.4053721
540.00	2.70	142.32	539.90	-6.94	5.06	2,143,368.02	625,153.89	36.8896265	-107.4053654
631.00	4.20	131.47	630.74	-10.84	8.87	2,143,364.13	625,157.72	36.8896157	-107.4053524

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #642H - Slot A01
Project:	T31N R5W Rosa Unit	TVD Reference:	KB @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	KB @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #642H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
721.00	4.69	132.42	720.46	-15.51	14.06	2,143,359.49	625,162.93	36.8896029	-107.4053347
812.00	4.74	134.19	811.16	-20.64	19.50	2,143,354.39	625,168.39	36.8895888	-107.4053161
902.00	4.52	128.23	900.86	-25.42	24.95	2,143,349.62	625,173.86	36.8895757	-107.4052974
993.00	4.98	129.64	991.55	-30.16	30.81	2,143,344.91	625,179.74	36.8895627	-107.4052774
1,084.00	4.60	124.63	1,082.23	-34.76	36.85	2,143,340.34	625,185.81	36.8895501	-107.4052567
1,175.00	4.40	126.86	1,172.95	-38.92	42.65	2,143,336.20	625,191.62	36.8895386	-107.4052369
1,266.00	4.44	125.53	1,263.68	-43.07	48.31	2,143,332.09	625,197.30	36.8895272	-107.4052175
1,357.00	4.36	126.23	1,354.41	-47.16	53.97	2,143,328.02	625,202.98	36.8895160	-107.4051982
1,448.00	4.39	126.20	1,445.15	-51.26	59.57	2,143,323.95	625,208.59	36.8895047	-107.4051791
1,539.00	4.20	124.54	1,535.89	-55.20	65.12	2,143,320.02	625,214.17	36.8894939	-107.4051601
1,630.00	4.11	116.85	1,626.66	-58.57	70.78	2,143,316.69	625,219.84	36.8894847	-107.4051407
1,722.00	4.73	117.64	1,718.38	-61.82	77.08	2,143,313.47	625,226.15	36.8894757	-107.4051192
1,813.00	4.80	118.23	1,809.07	-65.36	83.76	2,143,309.95	625,232.85	36.8894660	-107.4050963
1,904.00	4.99	119.39	1,899.73	-69.10	90.56	2,143,306.24	625,239.67	36.8894557	-107.4050731
1,996.00	5.05	116.90	1,991.38	-72.90	97.66	2,143,302.48	625,246.78	36.8894453	-107.4050488
2,087.00	4.51	118.36	2,082.06	-76.41	104.38	2,143,299.00	625,253.52	36.8894356	-107.4050258
2,178.00	4.63	117.85	2,172.78	-79.82	110.77	2,143,295.61	625,259.93	36.8894263	-107.4050040
2,269.00	4.40	121.88	2,263.49	-83.38	116.98	2,143,292.08	625,266.16	36.8894165	-107.4049827
2,360.00	4.50	121.94	2,354.22	-87.11	122.98	2,143,288.37	625,272.17	36.8894062	-107.4049622
2,451.00	4.47	121.36	2,444.94	-90.85	129.04	2,143,284.67	625,278.24	36.8893960	-107.4049415
2,542.00	4.56	120.29	2,535.66	-94.52	135.19	2,143,281.02	625,284.41	36.8893859	-107.4049205
2,632.00	4.71	128.84	2,625.36	-98.64	141.15	2,143,276.93	625,290.39	36.8893746	-107.4049001
2,723.00	4.96	128.14	2,716.04	-103.41	147.16	2,143,272.18	625,296.42	36.8893615	-107.4048795
2,815.00	4.70	128.21	2,807.71	-108.20	153.25	2,143,267.42	625,302.53	36.8893483	-107.4048587
2,906.00	3.98	122.65	2,898.45	-112.21	158.84	2,143,263.44	625,308.14	36.8893373	-107.4048396
2,997.00	3.62	118.80	2,989.25	-115.30	164.01	2,143,260.37	625,313.33	36.8893288	-107.4048219
3,087.00	3.86	124.19	3,079.06	-118.37	169.01	2,143,257.33	625,318.34	36.8893204	-107.4048048
3,178.00	4.69	124.99	3,169.81	-122.22	174.59	2,143,253.50	625,323.94	36.8893098	-107.4047857
3,268.00	4.87	127.38	3,259.49	-126.65	180.64	2,143,249.09	625,330.01	36.8892976	-107.4047650
3,360.00	5.28	127.06	3,351.13	-131.57	187.12	2,143,244.20	625,336.51	36.8892841	-107.4047429
3,451.00	5.24	128.43	3,441.75	-136.68	193.72	2,143,239.12	625,343.13	36.8892701	-107.4047203
3,542.00	5.19	129.15	3,532.37	-141.86	200.17	2,143,233.97	625,349.60	36.8892559	-107.4046983
3,633.00	5.04	129.43	3,623.01	-147.00	206.44	2,143,228.86	625,355.90	36.8892417	-107.4046768
3,724.00	4.57	128.10	3,713.69	-151.78	212.38	2,143,224.11	625,361.86	36.8892286	-107.4046565
3,815.00	4.67	125.88	3,804.40	-156.18	218.24	2,143,219.73	625,367.74	36.8892165	-107.4046365
3,906.00	5.12	121.91	3,895.06	-160.50	224.69	2,143,215.44	625,374.20	36.8892047	-107.4046144
3,998.00	3.83	120.61	3,986.78	-164.24	230.82	2,143,211.74	625,380.35	36.8891944	-107.4045935
4,089.00	5.09	125.42	4,077.50	-168.12	236.72	2,143,207.88	625,386.27	36.8891837	-107.4045733
4,180.00	5.71	123.55	4,168.10	-172.96	243.79	2,143,203.07	625,393.36	36.8891704	-107.4045491
4,271.00	4.95	121.64	4,258.71	-177.53	250.90	2,143,198.54	625,400.49	36.8891579	-107.4045248
4,362.00	5.30	123.16	4,349.34	-181.88	257.76	2,143,194.21	625,407.37	36.8891459	-107.4045013
4,453.00	4.63	119.76	4,440.00	-186.01	264.47	2,143,190.12	625,414.10	36.8891346	-107.4044784
4,545.00	4.63	120.02	4,531.70	-189.71	270.91	2,143,186.44	625,420.55	36.8891244	-107.4044564
4,636.00	4.52	118.61	4,622.41	-193.26	277.24	2,143,182.92	625,426.90	36.8891147	-107.4044347
4,727.00	5.15	125.61	4,713.09	-197.36	283.70	2,143,178.85	625,433.38	36.8891034	-107.4044126
4,818.00	4.87	128.21	4,803.74	-202.12	290.06	2,143,174.11	625,439.76	36.8890903	-107.4043909
4,909.00	5.13	124.90	4,894.39	-206.84	296.43	2,143,169.43	625,446.15	36.8890774	-107.4043691
5,000.00	4.83	126.70	4,985.05	-211.46	302.84	2,143,164.84	625,452.58	36.8890647	-107.4043472
5,092.00	4.25	129.01	5,076.76	-215.92	308.59	2,143,160.40	625,458.36	36.8890524	-107.4043275
5,183.00	4.95	124.61	5,167.47	-220.27	314.45	2,143,156.08	625,464.23	36.8890405	-107.4043075
5,274.00	6.15	126.93	5,258.04	-225.43	321.57	2,143,150.95	625,471.38	36.8890263	-107.4042831
5,365.00	5.96	126.70	5,348.53	-231.18	329.26	2,143,145.23	625,479.09	36.8890105	-107.4042569
5,456.00	5.99	125.34	5,439.04	-236.75	336.92	2,143,139.70	625,486.78	36.8889952	-107.4042307
5,547.00	5.60	121.98	5,529.57	-241.85	344.56	2,143,134.63	625,494.44	36.8889812	-107.4042045
5,639.00	5.00	118.89	5,621.18	-246.16	351.88	2,143,130.35	625,501.78	36.8889694	-107.4041795

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #642H - Slot A01
Project:	T31N R5W Rosa Unit	TVD Reference:	KB @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	KB @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #642H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
5,730.00	5.15	124.45	5,711.82	-250.39	358.72	2,143,126.16	625,508.63	36.8889577	-107.4041561
5,821.00	4.76	120.78	5,802.48	-254.63	365.33	2,143,121.94	625,515.27	36.8889461	-107.4041335
5,912.00	4.62	127.41	5,893.18	-258.79	371.48	2,143,117.81	625,521.44	36.8889347	-107.4041125
6,004.00	3.22	137.78	5,984.96	-262.96	376.16	2,143,113.67	625,526.14	36.8889232	-107.4040965
6,095.00	1.71	176.87	6,075.88	-266.21	377.95	2,143,110.43	625,527.94	36.8889143	-107.4040903
6,186.00	0.38	223.24	6,166.86	-267.78	377.82	2,143,108.85	625,527.82	36.8889100	-107.4040908
6,277.00	1.15	277.58	6,257.86	-267.88	376.71	2,143,108.75	625,526.71	36.8889097	-107.4040946
6,300.00	1.35	277.68	6,280.85	-267.81	376.21	2,143,108.81	625,526.21	36.8889099	-107.4040963
6,351.00	1.78	268.35	6,331.83	-267.76	374.83	2,143,108.86	625,524.82	36.8889100	-107.4041010
Last SDI Surface MWD Survey									
6,352.00	1.79	268.21	6,332.83	-267.76	374.79	2,143,108.86	625,524.79	36.8889100	-107.4041011
7" Casing @ 6352' MD - 36.8889101, -107.4041011									
6,382.00	2.06	264.64	6,362.81	-267.82	373.79	2,143,108.79	625,523.79	36.8889099	-107.4041046
First SDI Curve MWD Survey									
6,404.00	1.99	262.05	6,384.80	-267.91	373.02	2,143,108.70	625,523.01	36.8889096	-107.4041072
6,434.00	3.16	262.70	6,414.77	-268.09	371.68	2,143,108.51	625,521.68	36.8889091	-107.4041118
6,464.00	6.03	265.22	6,444.67	-268.33	369.29	2,143,108.27	625,519.29	36.8889085	-107.4041200
6,495.00	8.53	266.96	6,475.42	-268.58	365.37	2,143,107.99	625,515.37	36.8889078	-107.4041334
6,525.00	10.72	267.81	6,504.99	-268.81	360.36	2,143,107.75	625,510.36	36.8889072	-107.4041505
6,555.00	13.13	269.96	6,534.34	-268.92	354.16	2,143,107.61	625,504.17	36.8889069	-107.4041717
6,586.00	14.97	270.76	6,564.42	-268.87	346.64	2,143,107.63	625,496.64	36.8889070	-107.4041974
6,616.00	16.76	269.42	6,593.27	-268.86	338.44	2,143,107.60	625,488.44	36.8889070	-107.4042255
6,646.00	18.14	267.93	6,621.89	-269.07	329.45	2,143,107.34	625,479.45	36.8889064	-107.4042562
6,677.00	19.72	265.94	6,651.21	-269.62	319.41	2,143,106.75	625,469.41	36.8889049	-107.4042905
6,707.00	21.10	266.09	6,679.33	-270.34	308.97	2,143,105.98	625,458.98	36.8889029	-107.4043262
6,738.00	23.88	270.45	6,707.97	-270.67	297.12	2,143,105.60	625,447.13	36.8889020	-107.4043667
6,768.00	26.31	273.80	6,735.14	-270.19	284.42	2,143,106.03	625,434.42	36.8889034	-107.4044102
6,799.00	28.58	274.68	6,762.65	-269.13	270.17	2,143,107.02	625,420.17	36.8889063	-107.4044589
6,829.00	31.31	273.61	6,788.64	-268.05	255.23	2,143,108.03	625,405.23	36.8889092	-107.4045100
6,860.00	34.40	273.56	6,814.68	-267.00	238.45	2,143,109.01	625,388.45	36.8889121	-107.4045674
6,890.00	37.89	274.12	6,838.90	-265.81	220.80	2,143,110.12	625,370.79	36.8889154	-107.4046277
6,920.00	41.94	272.90	6,861.91	-264.64	201.59	2,143,111.20	625,351.57	36.8889186	-107.4046934
6,951.00	45.62	270.45	6,884.29	-264.03	180.16	2,143,111.72	625,330.14	36.8889203	-107.4047667
6,981.00	49.68	268.90	6,904.49	-264.16	157.99	2,143,111.48	625,307.97	36.8889199	-107.4048425
7,012.00	54.15	268.17	6,923.61	-264.79	133.61	2,143,110.74	625,283.59	36.8889182	-107.4049259
7,043.00	59.09	268.67	6,940.66	-265.50	107.74	2,143,109.92	625,257.73	36.8889162	-107.4050143
7,073.00	63.75	268.85	6,955.01	-266.07	81.41	2,143,109.23	625,231.40	36.8889147	-107.4051044
7,103.00	68.31	268.28	6,967.19	-266.76	54.01	2,143,108.42	625,204.01	36.8889128	-107.4051980
7,134.00	72.10	267.62	6,977.69	-267.81	24.87	2,143,107.24	625,174.87	36.8889099	-107.4052977
7,164.00	75.49	267.70	6,986.06	-268.98	-3.91	2,143,105.94	625,146.09	36.8889067	-107.4053961
7,194.00	78.40	267.63	6,992.84	-270.17	-33.11	2,143,104.62	625,116.90	36.8889034	-107.4054960
7,224.00	81.07	267.79	6,998.18	-271.35	-62.60	2,143,103.31	625,087.41	36.8889002	-107.4055968
7,255.00	83.03	267.86	7,002.47	-272.52	-93.28	2,143,102.00	625,056.74	36.8888970	-107.4057017
7,285.00	84.24	267.46	7,005.79	-273.73	-123.07	2,143,100.65	625,026.96	36.8888936	-107.4058036
7,315.00	86.27	266.91	7,008.28	-275.20	-152.93	2,143,099.05	624,997.10	36.8888896	-107.4059057
7,345.00	88.93	266.89	7,009.53	-276.82	-182.86	2,143,097.30	624,967.18	36.8888851	-107.4060080
Last SDI Curve MWD Survey									
7,376.00	91.11	266.93	7,009.52	-278.49	-213.81	2,143,095.49	624,936.24	36.8888806	-107.4061139
First SDI Lateral MWD Survey									
7,437.00	91.91	267.26	7,007.91	-281.58	-274.71	2,143,092.12	624,875.35	36.8888721	-107.4063221
7,528.00	91.01	265.34	7,005.60	-287.45	-365.49	2,143,085.84	624,784.61	36.8888559	-107.4066325
7,618.00	91.51	266.30	7,003.62	-294.01	-455.22	2,143,078.88	624,694.90	36.8888379	-107.4069394
7,709.00	91.44	268.55	7,001.27	-298.10	-546.10	2,143,074.39	624,604.04	36.8888267	-107.4072501
7,800.00	91.38	268.79	6,999.03	-300.21	-637.04	2,143,071.87	624,513.11	36.8888209	-107.4075611

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #642H - Slot A01
Project:	T31N R5W Rosa Unit	TVD Reference:	KB @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	KB @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #642H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
7,892.00	91.98	270.77	6,996.34	-300.56	-729.00	2,143,071.10	624,421.16	36.8888199	-107.4078755
7,983.00	91.31	269.99	6,993.72	-299.96	-819.96	2,143,071.30	624,330.19	36.8888216	-107.4081865
8,073.00	90.97	269.48	6,991.93	-300.38	-909.94	2,143,070.48	624,240.22	36.8888204	-107.4084942
8,164.00	91.88	269.45	6,989.67	-301.23	-1,000.91	2,143,069.22	624,149.25	36.8888181	-107.4088053
8,255.00	91.38	269.91	6,987.08	-301.74	-1,091.87	2,143,068.31	624,058.30	36.8888167	-107.4091163
8,345.00	91.11	270.12	6,985.13	-301.71	-1,181.85	2,143,067.93	623,968.32	36.8888167	-107.4094240
8,437.00	92.11	269.79	6,982.54	-301.78	-1,273.81	2,143,067.44	623,876.36	36.8888165	-107.4097385
8,528.00	91.14	270.29	6,979.96	-301.72	-1,364.77	2,143,067.10	623,785.40	36.8888167	-107.4100495
8,619.00	90.71	269.65	6,978.49	-301.77	-1,455.76	2,143,066.64	623,694.41	36.8888165	-107.4103606
8,710.00	90.84	270.66	6,977.26	-301.52	-1,546.75	2,143,066.48	623,603.42	36.8888172	-107.4106718
8,801.00	90.50	270.47	6,976.20	-300.62	-1,637.74	2,143,066.97	623,512.43	36.8888196	-107.4109829
8,892.00	91.81	270.07	6,974.36	-300.20	-1,728.72	2,143,066.99	623,421.45	36.8888208	-107.4112940
8,983.00	91.31	269.37	6,971.89	-300.64	-1,819.68	2,143,066.14	623,330.49	36.8888196	-107.4116050
9,074.00	90.40	269.99	6,970.53	-301.15	-1,910.67	2,143,065.22	623,239.50	36.8888181	-107.4119162
9,166.00	90.67	271.69	6,969.67	-299.80	-2,002.65	2,143,066.16	623,147.51	36.8888218	-107.4122307
9,257.00	90.47	269.36	6,968.76	-298.97	-2,093.63	2,143,066.58	623,056.53	36.8888241	-107.4125418
9,348.00	90.60	268.41	6,967.91	-300.74	-2,184.61	2,143,064.41	622,965.56	36.8888192	-107.4128529
9,439.00	90.13	268.93	6,967.33	-302.85	-2,275.59	2,143,061.89	622,874.59	36.8888134	-107.4131640
9,530.00	91.11	270.13	6,966.35	-303.60	-2,366.57	2,143,060.73	622,783.61	36.8888113	-107.4134751
9,621.00	90.81	270.70	6,964.82	-302.94	-2,457.56	2,143,060.98	622,692.62	36.8888131	-107.4137862
9,712.00	91.01	269.99	6,963.38	-302.39	-2,548.54	2,143,061.12	622,601.64	36.8888146	-107.4140974
9,804.00	92.15	271.65	6,960.84	-301.07	-2,640.50	2,143,062.03	622,509.68	36.8888182	-107.4144118
9,895.00	92.59	271.01	6,957.08	-298.96	-2,731.39	2,143,063.73	622,418.77	36.8888240	-107.4147226
9,986.00	92.05	270.71	6,953.40	-297.60	-2,822.31	2,143,064.69	622,327.85	36.8888277	-107.4150335
10,077.00	92.35	271.19	6,949.90	-296.09	-2,913.23	2,143,065.79	622,236.93	36.8888318	-107.4153444
10,169.00	91.54	271.22	6,946.78	-294.16	-3,005.15	2,143,067.31	622,144.99	36.8888371	-107.4156587
10,259.00	92.28	270.76	6,943.78	-292.60	-3,095.09	2,143,068.46	622,055.05	36.8888413	-107.4159662
10,350.00	91.54	270.48	6,940.75	-291.62	-3,186.03	2,143,069.03	621,964.11	36.8888440	-107.4162772
10,441.00	91.24	269.99	6,938.54	-291.25	-3,277.00	2,143,069.00	621,873.13	36.8888450	-107.4165883
10,532.00	91.48	269.20	6,936.38	-291.89	-3,367.98	2,143,067.95	621,782.17	36.8888432	-107.4168994
10,623.00	91.10	269.02	6,934.33	-293.30	-3,458.94	2,143,066.13	621,691.21	36.8888393	-107.4172104
10,714.00	91.74	268.57	6,932.08	-295.21	-3,549.89	2,143,063.81	621,600.27	36.8888340	-107.4175214
10,805.00	92.25	267.85	6,928.91	-298.06	-3,640.79	2,143,060.56	621,509.38	36.8888262	-107.4178322
10,896.00	91.61	268.96	6,925.84	-300.59	-3,731.70	2,143,057.62	621,418.48	36.8888192	-107.4181431
10,987.00	90.24	269.20	6,924.37	-302.05	-3,822.68	2,143,055.75	621,327.51	36.8888151	-107.4184542
11,078.00	90.34	268.95	6,923.91	-303.52	-3,913.66	2,143,053.87	621,236.53	36.8888111	-107.4187653
11,169.00	90.24	267.90	6,923.45	-306.02	-4,004.63	2,143,050.96	621,145.58	36.8888042	-107.4190764
11,260.00	90.60	269.22	6,922.79	-308.30	-4,095.59	2,143,048.27	621,054.63	36.8887978	-107.4193874
11,351.00	91.58	269.90	6,921.06	-309.00	-4,186.57	2,143,047.16	620,963.65	36.8887959	-107.4196985
11,443.00	92.18	270.22	6,918.04	-308.91	-4,278.52	2,143,046.85	620,871.70	36.8887961	-107.4200129
11,534.00	92.35	270.05	6,914.44	-308.69	-4,369.45	2,143,046.65	620,780.77	36.8887967	-107.4203238
11,625.00	92.96	269.74	6,910.23	-308.86	-4,460.35	2,143,046.08	620,689.87	36.8887962	-107.4206347
11,716.00	92.15	269.79	6,906.17	-309.23	-4,551.26	2,143,045.30	620,598.97	36.8887951	-107.4209455
11,807.00	91.88	270.11	6,902.97	-309.31	-4,642.21	2,143,044.81	620,508.03	36.8887948	-107.4212565
11,898.00	92.10	269.14	6,899.91	-309.91	-4,733.15	2,143,043.81	620,417.09	36.8887932	-107.4215675
11,989.00	92.62	268.65	6,896.06	-311.66	-4,824.05	2,143,041.65	620,326.19	36.8887883	-107.4218783
12,080.00	93.13	268.16	6,891.50	-314.19	-4,914.90	2,143,038.71	620,235.35	36.8887813	-107.4221890
12,125.00	93.44	268.12	6,888.92	-315.65	-4,959.80	2,143,037.05	620,190.46	36.8887773	-107.4223425
RSI @ 12,125' MD - 36.8887773, -107.4223425									
12,133.00	93.49	268.11	6,888.44	-315.91	-4,967.79	2,143,036.75	620,182.48	36.8887766	-107.4223698
Last SDI Lateral MWD Survey									
12,180.00	93.49	268.11	6,885.58	-317.46	-5,014.67	2,143,034.99	620,135.60	36.8887723	-107.4225301
Projection to TD									

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #642H - Slot A01
Project:	T31N R5W Rosa Unit	TVD Reference:	KB @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	KB @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #642H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
BHL #642H 27Aug15 sa	0.00	0.00	6,888.00	-290.96	-5,036.17	2,143,061.40	620,113.98	36.8888451	-107.4226037
- actual wellpath misses target center by 34.21usft at 12180.00usft MD (6885.58 TVD, -317.46 N, -5014.67 E)									
- Point									
POE #642H 27Aug15 sa	0.00	0.00	7,010.00	-292.91	-272.69	2,143,080.81	624,877.42	36.8888410	-107.4063152
- actual wellpath misses target center by 11.59usft at 7435.50usft MD (7007.96 TVD, -281.51 N, -273.22 E)									
- Point									

Design Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
389.00	388.97	-3.40	2.50	First SDI Surface MWD Survey
6,351.00	6,331.83	-267.76	374.83	Last SDI Surface MWD Survey
6,352.00	6,332.83	-267.76	374.79	7" Casing @ 6352' MD
6,352.00	6,332.83	-267.76	374.79	36.8889101, -107.4041011
6,382.00	6,362.81	-267.82	373.79	First SDI Curve MWD Survey
7,345.00	7,009.53	-276.82	-182.86	Last SDI Curve MWD Survey
7,376.00	7,009.52	-278.49	-213.81	First SDI Lateral MWD Survey
12,125.00	6,888.92	-315.65	-4,959.80	RSI @ 12,125' MD
12,125.00	6,888.92	-315.65	-4,959.80	36.8887773, -107.4223425
12,133.00	6,888.44	-315.91	-4,967.79	Last SDI Lateral MWD Survey
12,180.00	6,885.58	-317.46	-5,014.67	Projection to TD

Checked By: _____ Approved By: _____ Date: _____