

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31313	*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 640H
*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	963	NORTH	512	WEST	RIO ARriba

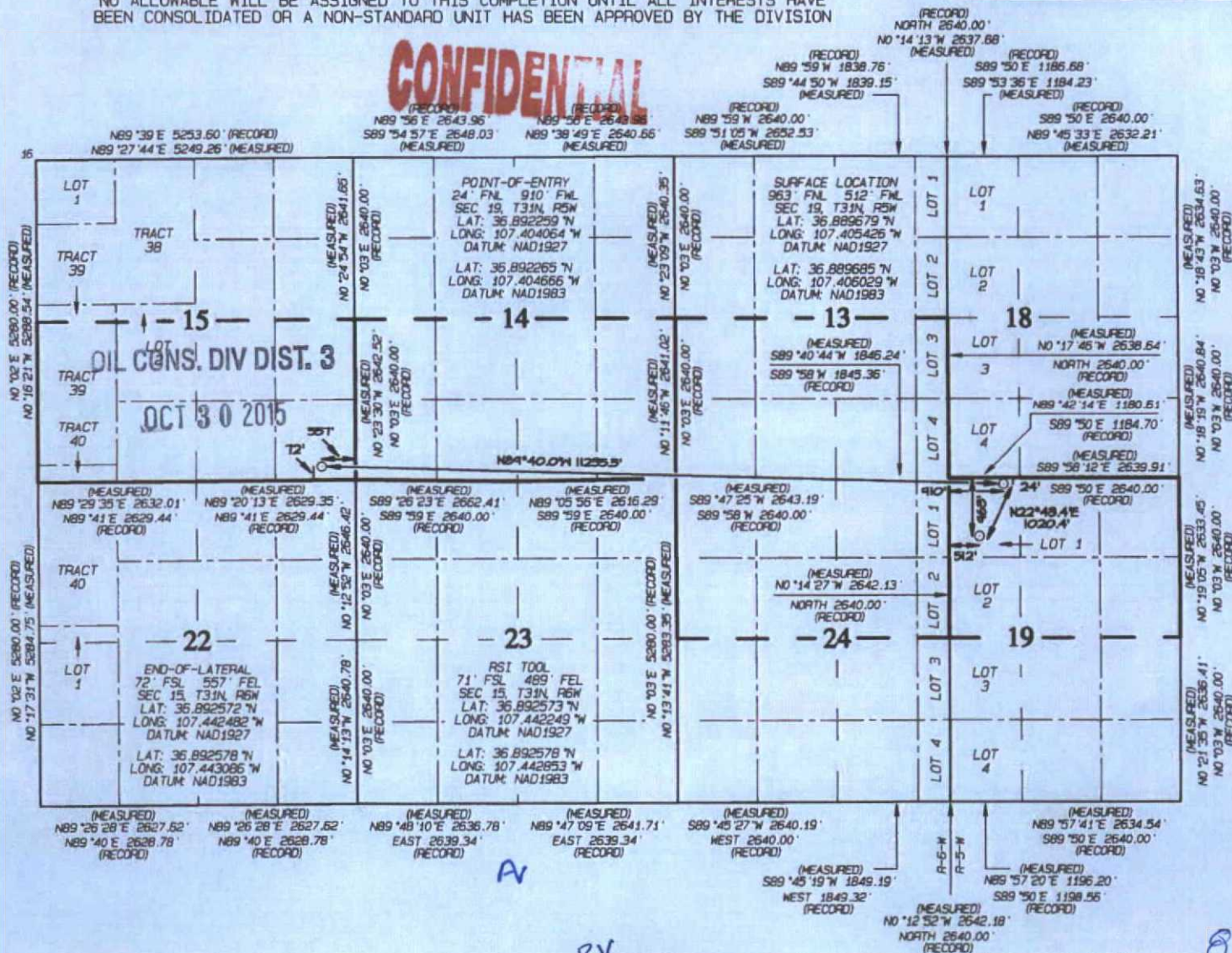
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	31N	6W	72	72	SOUTH	557	EAST	RIO ARriba

*Dedicated Acres 1415.65	S/2 - Sections 13, 14, 15, T31N, R6W N/2 - Section 24, T31N, R6W N/2 - Section 19, T31N, R5W	*Joint or Infill	*Consolidation Code	*Order No. R-13457-A
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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



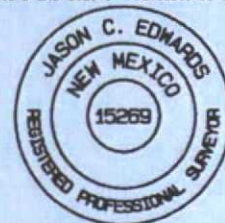
17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless mineral interest in the land including the proposed bottom-hole location or has a right to 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
Date
Marie E. Jaramillo
Printed Name
marie.jaramillo@wpenergy.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: OCTOBER 27, 2015
Date of Survey: JANUARY 2, 2015

Signature and Seal of Professional Surveyor



Jason C. Edwards
Certificate Number 15269



Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #640H - Slot B02
Project:	T31N R5W Rosa Unit	TVD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #640H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

CONFIDENTIAL

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	Latitude:	36.8897153
From:	Lat/Long	Easting:	625,077.55 usft	Longitude:	-107.4056260
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.26 °

Well	ROSA UT 27 #640H - Slot B02					
Well Position	+N/-S	0.00 usft	Northing:	2,143,386.97 usft	Latitude:	36.8896787
	+E/-W	0.00 usft	Easting:	625,136.11 usft	Longitude:	-107.4054259
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,305.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/25/2015	9.20	63.55	50,238

Design	Wellbore #1				
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	270.24	

Survey Program	Date 10/23/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
25.00	288.00	Surface Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
389.00	6,451.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD	SDI MWD - Standard ver 1.0.1	
6,481.00	7,601.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1	
7,631.00	18,040.00	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD	SDI MWD - Standard ver 1.0.1	

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	2,143,386.97	625,136.11	36.8896787	-107.4054259	
25.00	0.00	0.00	25.00	0.00	0.00	2,143,386.97	625,136.11	36.8896787	-107.4054259	
55.00	0.44	164.86	55.00	-0.11	0.03	2,143,386.86	625,136.14	36.8896784	-107.4054258	
85.00	0.41	137.63	85.00	-0.30	0.13	2,143,386.67	625,136.24	36.8896779	-107.4054255	
115.00	0.58	117.92	115.00	-0.45	0.34	2,143,386.52	625,136.45	36.8896775	-107.4054248	
145.00	0.76	136.57	145.00	-0.67	0.61	2,143,386.31	625,136.72	36.8896769	-107.4054239	
175.00	0.93	142.70	174.99	-1.01	0.89	2,143,385.97	625,137.01	36.8896760	-107.4054229	
205.00	0.92	155.51	204.99	-1.42	1.14	2,143,385.56	625,137.26	36.8896748	-107.4054220	
235.00	0.78	152.07	234.99	-1.82	1.34	2,143,385.16	625,137.45	36.8896738	-107.4054214	

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #640H - Slot B02
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Site:	Pad 27	MD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #640H	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
265.00	0.60	149.58	264.98	-2.13	1.51	2,143,384.85	625,137.63	36.8896729	-107.4054208
288.00	0.57	143.73	287.98	-2.33	1.64	2,143,384.65	625,137.76	36.8896723	-107.4054203
389.00	0.84	145.26	388.97	-3.34	2.36	2,143,383.64	625,138.48	36.8896696	-107.4054179
First SDI Surface MWD Survey									
449.00	0.73	74.88	448.97	-3.61	2.98	2,143,383.38	625,139.11	36.8896688	-107.4054158
540.00	2.29	32.55	539.94	-1.92	4.52	2,143,385.07	625,140.64	36.8896735	-107.4054105
631.00	3.89	22.70	630.80	2.46	6.69	2,143,389.46	625,142.79	36.8896855	-107.4054031
722.00	5.07	22.05	721.52	9.03	9.39	2,143,396.05	625,145.46	36.8897036	-107.4053938
812.00	5.99	20.62	811.10	17.11	12.53	2,143,404.14	625,148.57	36.8897258	-107.4053831
902.00	7.45	20.80	900.48	26.97	16.26	2,143,414.01	625,152.25	36.8897528	-107.4053703
993.00	9.25	23.50	990.51	39.19	21.27	2,143,426.26	625,157.21	36.8897864	-107.4053532
1,084.00	9.43	23.55	1,080.31	52.73	27.17	2,143,439.82	625,163.04	36.8898236	-107.4053330
1,175.00	10.27	25.09	1,169.97	66.91	33.59	2,143,454.03	625,169.40	36.8898625	-107.4053111
1,266.00	11.04	25.55	1,259.40	82.12	40.78	2,143,469.27	625,176.52	36.8899043	-107.4052865
1,357.00	10.93	24.89	1,348.73	97.80	48.17	2,143,484.99	625,183.84	36.8899474	-107.4052612
1,448.00	10.79	25.45	1,438.10	113.32	55.46	2,143,500.54	625,191.07	36.8899900	-107.4052363
1,539.00	10.25	22.80	1,527.57	128.48	62.26	2,143,515.73	625,197.79	36.8900316	-107.4052130
1,630.00	11.47	23.96	1,616.94	144.21	69.07	2,143,531.49	625,204.54	36.8900749	-107.4051897
1,722.00	10.79	23.49	1,707.21	160.47	76.22	2,143,547.78	625,211.61	36.8901195	-107.4051653
1,813.00	11.34	22.60	1,796.52	176.54	83.05	2,143,563.88	625,218.37	36.8901637	-107.4051419
1,904.00	11.17	22.47	1,885.77	192.94	89.86	2,143,580.32	625,225.11	36.8902087	-107.4051187
1,996.00	11.42	20.46	1,975.98	209.71	96.45	2,143,597.12	625,231.62	36.8902548	-107.4050961
2,087.00	11.01	21.82	2,065.25	226.22	102.83	2,143,613.65	625,237.92	36.8903001	-107.4050743
2,178.00	10.94	24.79	2,154.58	242.13	109.68	2,143,629.59	625,244.70	36.8903438	-107.4050509
2,269.00	11.02	23.54	2,243.92	257.94	116.78	2,143,645.43	625,251.73	36.8903873	-107.4050266
2,361.00	11.07	23.60	2,334.21	274.09	123.82	2,143,661.62	625,258.70	36.8904316	-107.4050025
2,452.00	10.93	24.96	2,423.54	289.92	130.96	2,143,677.48	625,265.77	36.8904751	-107.4049781
2,542.00	11.10	25.31	2,511.88	305.49	138.27	2,143,693.08	625,273.00	36.8905179	-107.4049531
2,632.00	11.40	24.76	2,600.15	321.40	145.69	2,143,709.02	625,280.36	36.8905616	-107.4049277
2,723.00	11.39	24.57	2,689.36	337.74	153.20	2,143,725.39	625,287.79	36.8906064	-107.4049021
2,815.00	11.44	23.06	2,779.54	354.39	160.55	2,143,742.08	625,295.07	36.8906522	-107.4048769
2,906.00	10.76	22.34	2,868.84	370.55	167.31	2,143,758.27	625,301.76	36.8906966	-107.4048538
2,997.00	10.28	23.72	2,958.31	385.85	173.81	2,143,773.59	625,308.19	36.8907386	-107.4048316
3,087.00	10.58	26.45	3,046.82	400.60	180.72	2,143,788.37	625,315.03	36.8907791	-107.4048080
3,178.00	10.76	26.84	3,136.25	415.65	188.27	2,143,803.47	625,322.52	36.8908205	-107.4047821
3,268.00	11.26	30.86	3,224.59	430.69	196.58	2,143,818.54	625,330.75	36.8908618	-107.4047537
3,360.00	11.57	32.45	3,314.77	446.19	206.13	2,143,834.08	625,340.24	36.8909043	-107.4047211
3,451.00	11.47	25.35	3,403.94	462.07	214.90	2,143,850.00	625,348.94	36.8909480	-107.4046911
3,542.00	11.21	24.61	3,493.17	478.29	222.46	2,143,866.25	625,356.42	36.8909925	-107.4046652
3,633.00	10.21	24.04	3,582.58	493.69	229.43	2,143,881.69	625,363.32	36.8910348	-107.4046414
3,724.00	10.12	23.28	3,672.15	508.40	235.88	2,143,896.43	625,369.70	36.8910752	-107.4046194
3,815.00	10.49	25.26	3,761.68	523.24	242.57	2,143,911.30	625,376.33	36.8911160	-107.4045965
3,906.00	11.13	25.04	3,851.07	538.69	249.82	2,143,926.78	625,383.51	36.8911584	-107.4045717
3,998.00	11.57	28.18	3,941.27	554.87	257.94	2,143,942.99	625,391.56	36.8912029	-107.4045439
4,089.00	11.14	29.49	4,030.49	570.56	266.58	2,143,958.73	625,400.12	36.8912460	-107.4045144
4,180.00	11.50	30.86	4,119.72	586.00	275.56	2,143,974.21	625,409.04	36.8912884	-107.4044837
4,271.00	12.16	28.94	4,208.79	602.18	284.85	2,143,990.42	625,418.25	36.8913328	-107.4044519
4,362.00	11.47	28.21	4,297.86	618.54	293.76	2,144,006.82	625,427.10	36.8913777	-107.4044214
4,453.00	10.05	27.48	4,387.26	633.56	301.70	2,144,021.88	625,434.97	36.8914190	-107.4043943
4,545.00	11.15	33.06	4,477.69	648.13	310.26	2,144,036.49	625,443.46	36.8914590	-107.4043650
4,636.00	11.58	29.81	4,566.90	663.43	319.60	2,144,051.83	625,452.73	36.8915011	-107.4043331
4,727.00	10.99	28.28	4,656.14	679.00	328.25	2,144,067.44	625,461.31	36.8915438	-107.4043035
4,818.00	11.55	28.59	4,745.39	694.63	336.72	2,144,083.11	625,469.71	36.8915868	-107.4042745
4,909.00	11.64	28.85	4,834.53	710.68	345.51	2,144,099.19	625,478.43	36.8916308	-107.4042445
5,000.00	10.64	27.19	4,923.82	726.19	353.78	2,144,114.74	625,486.63	36.8916734	-107.4042162

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #640H - Slot B02
Project:	T31N R5W Rosa Unit	TVD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #640H	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
5,092.00	10.84	28.16	5,014.20	741.37	361.74	2,144,129.96	625,494.52	36.8917151	-107.4041889
5,183.00	12.43	27.79	5,103.33	757.58	370.35	2,144,146.21	625,503.06	36.8917597	-107.4041595
5,274.00	12.26	27.50	5,192.23	774.81	379.37	2,144,163.48	625,512.01	36.8918070	-107.4041286
5,365.00	11.96	27.09	5,281.20	791.78	388.13	2,144,180.48	625,520.69	36.8918536	-107.4040987
5,456.00	11.66	26.45	5,370.28	808.41	396.52	2,144,197.15	625,529.00	36.8918993	-107.4040700
5,547.00	11.27	26.26	5,459.46	824.61	404.55	2,144,213.39	625,536.96	36.8919438	-107.4040426
5,639.00	11.28	21.62	5,549.69	841.04	411.84	2,144,229.85	625,544.18	36.8919889	-107.4040176
5,730.00	11.70	13.17	5,638.87	858.30	417.22	2,144,247.14	625,549.48	36.8920363	-107.4039992
5,821.00	11.84	11.42	5,727.96	876.44	421.18	2,144,265.29	625,553.35	36.8920861	-107.4039857
5,912.00	10.30	5.02	5,817.26	893.69	423.74	2,144,282.56	625,555.83	36.8921335	-107.4039769
6,004.00	8.90	351.60	5,907.98	908.93	423.42	2,144,297.79	625,555.45	36.8921754	-107.4039780
6,095.00	7.51	338.62	5,998.06	921.43	420.22	2,144,310.28	625,552.19	36.8922097	-107.4039890
6,186.00	6.80	322.06	6,088.36	931.22	414.74	2,144,320.04	625,546.67	36.8922366	-107.4040077
6,277.00	6.32	290.95	6,178.79	937.26	406.75	2,144,326.05	625,538.65	36.8922532	-107.4040350
6,309.00	6.05	286.26	6,210.60	938.36	403.48	2,144,327.14	625,535.38	36.8922562	-107.4040462
6,361.00	5.44	277.94	6,262.34	939.47	398.41	2,144,328.22	625,530.30	36.8922593	-107.4040635
7" Casing @ 6361' MD - 36.8922593, -107.4040635									
6,424.00	4.90	265.44	6,325.09	939.67	392.77	2,144,328.39	625,524.66	36.8922598	-107.4040828
6,451.00	4.23	263.41	6,352.00	939.46	390.63	2,144,328.18	625,522.52	36.8922593	-107.4040901
Last SDI Surface MWD Survey									
6,481.00	6.60	271.86	6,381.87	939.39	387.81	2,144,328.10	625,519.70	36.8922591	-107.4040998
First SDI Curve MWD Survey									
6,511.00	10.21	274.18	6,411.54	939.64	383.43	2,144,328.33	625,515.32	36.8922597	-107.4041148
6,541.00	13.18	279.61	6,440.92	940.41	377.41	2,144,329.06	625,509.30	36.8922619	-107.4041354
6,572.00	14.95	284.54	6,470.99	942.00	370.05	2,144,330.62	625,501.93	36.8922662	-107.4041605
6,602.00	15.82	284.81	6,499.91	944.02	362.35	2,144,332.61	625,494.22	36.8922718	-107.4041869
6,632.00	16.62	282.54	6,528.72	946.00	354.21	2,144,334.55	625,486.07	36.8922772	-107.4042147
6,662.00	18.30	279.41	6,557.33	947.70	345.37	2,144,336.21	625,477.23	36.8922819	-107.4042449
6,692.00	21.37	277.97	6,585.55	949.23	335.31	2,144,337.69	625,467.16	36.8922861	-107.4042793
6,723.00	24.61	277.80	6,614.09	950.88	323.32	2,144,339.30	625,455.16	36.8922906	-107.4043203
6,753.00	28.58	279.29	6,640.91	952.89	310.04	2,144,341.25	625,441.88	36.8922961	-107.4043657
6,784.00	31.02	279.15	6,667.81	955.36	294.84	2,144,343.65	625,426.66	36.8923029	-107.4044177
6,814.00	33.48	278.90	6,693.18	957.87	279.03	2,144,346.08	625,410.84	36.8923098	-107.4044718
6,844.00	36.31	278.73	6,717.78	960.50	262.07	2,144,348.64	625,393.87	36.8923170	-107.4045298
6,874.00	39.48	278.23	6,741.45	963.21	243.85	2,144,351.27	625,375.64	36.8923245	-107.4045921
6,905.00	41.44	277.95	6,765.04	966.04	223.93	2,144,354.01	625,355.71	36.8923323	-107.4046602
6,935.00	43.26	277.27	6,787.21	968.72	203.90	2,144,356.59	625,335.67	36.8923396	-107.4047287
6,966.00	46.08	277.71	6,809.25	971.56	182.30	2,144,359.34	625,314.05	36.8923474	-107.4048026
6,996.00	48.41	276.48	6,829.61	974.27	160.44	2,144,361.96	625,292.18	36.8923549	-107.4048773
7,025.00	50.47	276.04	6,848.47	976.68	138.54	2,144,364.26	625,270.27	36.8923615	-107.4049522
7,055.00	52.76	275.77	6,867.10	979.09	115.15	2,144,366.57	625,246.87	36.8923681	-107.4050322
7,085.00	55.22	275.60	6,884.73	981.50	91.00	2,144,368.87	625,222.71	36.8923747	-107.4051147
7,115.00	57.86	275.42	6,901.27	983.90	66.09	2,144,371.16	625,197.79	36.8923813	-107.4051999
7,146.00	60.82	275.65	6,917.08	986.47	39.55	2,144,373.61	625,171.24	36.8923884	-107.4052907
7,176.00	63.51	275.46	6,931.09	989.04	13.15	2,144,376.06	625,144.83	36.8923954	-107.4053810
7,206.00	66.13	275.16	6,943.85	991.55	-13.88	2,144,378.45	625,117.79	36.8924023	-107.4054734
7,237.00	68.94	274.54	6,955.69	993.97	-42.42	2,144,380.74	625,089.23	36.8924090	-107.4055710
7,267.00	71.31	273.69	6,965.89	995.99	-70.56	2,144,382.64	625,061.09	36.8924145	-107.4056672
7,298.00	73.69	273.84	6,975.21	997.94	-100.06	2,144,384.45	625,031.58	36.8924199	-107.4057681
7,328.00	76.15	273.58	6,983.02	999.81	-128.96	2,144,386.19	625,002.67	36.8924250	-107.4058669
7,359.00	78.66	272.76	6,989.78	1,001.48	-159.17	2,144,387.73	624,972.45	36.8924296	-107.4059702
7,389.00	81.51	272.87	6,994.94	1,002.93	-188.68	2,144,389.05	624,942.94	36.8924336	-107.4060712
7,419.00	83.27	272.78	6,998.92	1,004.40	-218.38	2,144,390.38	624,913.23	36.8924376	-107.4061727
7,449.00	83.47	272.69	7,002.38	1,005.82	-248.14	2,144,391.67	624,883.46	36.8924415	-107.4062745
7,479.00	83.62	272.96	7,005.75	1,007.29	-277.92	2,144,393.01	624,853.68	36.8924456	-107.4063763

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #640H - Slot B02
Project:	T31N R5W Rosa Unit	TVD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #640H	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	
7,510.00	84.68	272.52	7,008.91	1,008.76	-308.72	2,144,394.34	624,822.87	36.8924496	-107.4064816	
7,540.00	85.70	272.10	7,011.43	1,009.97	-338.59	2,144,395.41	624,793.00	36.8924529	-107.4065838	
7,570.00	88.29	271.38	7,013.00	1,010.88	-368.53	2,144,396.19	624,763.05	36.8924554	-107.4066862	
7,601.00	89.43	271.64	7,013.62	1,011.69	-399.51	2,144,396.87	624,732.06	36.8924577	-107.4067921	
Last SDI Curve MWD Survey										
7,631.00	90.03	271.26	7,013.76	1,012.45	-429.50	2,144,397.49	624,702.07	36.8924597	-107.4068947	
First SDI Lateral MWD Survey										
7,722.00	90.23	270.68	7,013.55	1,013.99	-520.49	2,144,398.62	624,611.08	36.8924640	-107.4072058	
7,813.00	90.97	270.60	7,012.60	1,015.01	-611.48	2,144,399.23	624,520.09	36.8924668	-107.4075170	
7,905.00	90.77	270.43	7,011.20	1,015.84	-703.46	2,144,399.65	624,428.10	36.8924690	-107.4078315	
7,996.00	89.56	270.67	7,010.94	1,016.71	-794.46	2,144,400.11	624,337.10	36.8924714	-107.4081427	
8,087.00	89.87	270.83	7,011.39	1,017.90	-885.45	2,144,400.89	624,246.11	36.8924747	-107.4084538	
8,179.00	90.40	270.74	7,011.18	1,019.16	-977.44	2,144,401.74	624,154.11	36.8924781	-107.4087684	
8,270.00	90.91	270.41	7,010.13	1,020.08	-1,068.43	2,144,402.25	624,063.12	36.8924806	-107.4090796	
8,361.00	91.14	270.00	7,008.51	1,020.40	-1,159.41	2,144,402.17	623,972.13	36.8924815	-107.4093907	
8,452.00	91.14	269.95	7,006.70	1,020.36	-1,250.40	2,144,401.72	623,881.15	36.8924814	-107.4097018	
8,543.00	91.21	270.00	7,004.83	1,020.32	-1,341.38	2,144,401.27	623,790.17	36.8924813	-107.4100129	
8,635.00	90.50	269.57	7,003.46	1,019.98	-1,433.36	2,144,400.51	623,698.19	36.8924803	-107.4103275	
8,725.00	90.57	269.34	7,002.62	1,019.12	-1,523.36	2,144,399.25	623,608.20	36.8924780	-107.4106352	
8,816.00	90.77	269.16	7,001.55	1,017.93	-1,614.34	2,144,397.65	623,517.22	36.8924747	-107.4109464	
8,906.00	90.94	268.67	7,000.21	1,016.23	-1,704.32	2,144,395.55	623,427.25	36.8924700	-107.4112540	
8,998.00	91.34	269.74	6,998.38	1,014.95	-1,796.29	2,144,393.86	623,335.29	36.8924664	-107.4115685	
9,089.00	91.01	269.88	6,996.51	1,014.65	-1,887.27	2,144,393.15	623,244.31	36.8924656	-107.4118797	
9,180.00	90.67	269.86	6,995.18	1,014.44	-1,978.26	2,144,392.53	623,153.32	36.8924650	-107.4121908	
9,270.00	90.74	269.76	6,994.07	1,014.14	-2,068.25	2,144,391.83	623,063.33	36.8924642	-107.4124986	
9,361.00	90.77	270.19	6,992.87	1,014.10	-2,159.24	2,144,391.38	622,972.34	36.8924641	-107.4128097	
9,451.00	90.54	270.55	6,991.84	1,014.68	-2,249.23	2,144,391.56	622,882.35	36.8924656	-107.4131174	
9,543.00	90.74	270.34	6,990.82	1,015.40	-2,341.23	2,144,391.86	622,790.36	36.8924676	-107.4134320	
9,634.00	90.44	270.70	6,989.88	1,016.22	-2,432.22	2,144,392.28	622,699.36	36.8924698	-107.4137432	
9,725.00	90.74	270.53	6,988.94	1,017.20	-2,523.21	2,144,392.85	622,608.37	36.8924725	-107.4140543	
9,816.00	90.27	270.17	6,988.14	1,017.76	-2,614.20	2,144,393.00	622,517.37	36.8924740	-107.4143655	
9,907.00	90.57	270.49	6,987.47	1,018.28	-2,705.20	2,144,393.12	622,426.37	36.8924754	-107.4146767	
9,999.00	90.20	269.30	6,986.86	1,018.11	-2,797.19	2,144,392.53	622,334.38	36.8924749	-107.4149913	
10,090.00	89.97	268.36	6,986.72	1,016.25	-2,888.17	2,144,390.27	622,243.41	36.8924698	-107.4153024	
10,181.00	91.71	269.55	6,985.39	1,014.59	-2,979.14	2,144,388.20	622,152.45	36.8924652	-107.4156134	
10,272.00	91.68	269.51	6,982.69	1,013.85	-3,070.10	2,144,387.05	622,061.50	36.8924631	-107.4159245	
10,363.00	91.84	271.15	6,979.90	1,014.37	-3,161.05	2,144,387.16	621,970.54	36.8924645	-107.4162355	
10,454.00	90.50	271.92	6,978.04	1,016.81	-3,252.00	2,144,389.19	621,879.59	36.8924712	-107.4165465	
10,546.00	90.57	272.00	6,977.18	1,019.96	-3,343.94	2,144,391.93	621,787.63	36.8924798	-107.4168609	
10,637.00	90.87	272.39	6,976.04	1,023.44	-3,434.87	2,144,395.00	621,696.69	36.8924894	-107.4171718	
10,728.00	90.81	271.94	6,974.70	1,026.88	-3,525.79	2,144,398.03	621,605.75	36.8924988	-107.4174828	
10,819.00	89.87	271.01	6,974.16	1,029.22	-3,616.76	2,144,399.97	621,514.77	36.8925052	-107.4177938	
10,910.00	89.87	270.84	6,974.37	1,030.69	-3,707.74	2,144,401.03	621,423.78	36.8925092	-107.4181050	
11,001.00	90.30	269.99	6,974.24	1,031.35	-3,798.74	2,144,401.28	621,332.78	36.8925109	-107.4184162	
11,092.00	90.67	269.39	6,973.47	1,030.86	-3,889.74	2,144,400.38	621,241.79	36.8925096	-107.4187273	
11,183.00	90.91	270.02	6,972.21	1,030.39	-3,980.73	2,144,399.50	621,150.80	36.8925082	-107.4190385	
11,274.00	90.40	269.58	6,971.17	1,030.07	-4,071.72	2,144,398.78	621,059.81	36.8925073	-107.4193496	
11,365.00	90.84	269.99	6,970.19	1,029.73	-4,162.71	2,144,398.03	620,968.82	36.8925064	-107.4196608	
11,456.00	90.70	269.20	6,968.96	1,029.09	-4,253.70	2,144,396.98	620,877.84	36.8925045	-107.4199720	
11,547.00	91.28	269.50	6,967.39	1,028.05	-4,344.68	2,144,395.54	620,786.86	36.8925017	-107.4202831	
11,638.00	91.18	269.62	6,965.44	1,027.35	-4,435.66	2,144,394.43	620,695.89	36.8924997	-107.4205942	
11,729.00	91.31	269.92	6,963.46	1,026.99	-4,526.63	2,144,393.66	620,604.92	36.8924987	-107.4209053	
11,820.00	91.51	270.28	6,961.22	1,027.15	-4,617.61	2,144,393.41	620,513.94	36.8924991	-107.4212164	
11,911.00	91.48	269.98	6,958.85	1,027.35	-4,708.58	2,144,393.21	620,422.98	36.8924996	-107.4215274	
12,002.00	91.81	270.37	6,956.23	1,027.63	-4,799.54	2,144,393.08	620,332.01	36.8925003	-107.4218385	

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #640H - Slot B02
Project:	T31N R5W Rosa Unit	TVD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #640H	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
12,093.00	91.24	270.57	6,953.81	1,028.38	-4,890.50	2,144,393.42	620,241.05	36.8925023	-107.4221496
12,184.00	91.28	270.71	6,951.81	1,029.39	-4,981.47	2,144,394.02	620,150.07	36.8925051	-107.4224607
12,275.00	90.67	270.73	6,950.26	1,030.54	-5,072.45	2,144,394.76	620,059.09	36.8925082	-107.4227718
12,367.00	90.91	270.87	6,948.99	1,031.82	-5,164.44	2,144,395.63	619,967.10	36.8925116	-107.4230863
12,458.00	89.80	270.01	6,948.43	1,032.52	-5,255.43	2,144,395.92	619,876.10	36.8925135	-107.4233975
12,549.00	90.22	270.32	6,948.42	1,032.78	-5,346.43	2,144,395.78	619,785.10	36.8925142	-107.4237087
12,640.00	90.24	270.18	6,948.05	1,033.18	-5,437.43	2,144,395.77	619,694.11	36.8925152	-107.4240198
12,731.00	89.90	269.82	6,947.94	1,033.18	-5,528.43	2,144,395.36	619,603.11	36.8925152	-107.4243310
12,822.00	89.93	269.18	6,948.07	1,032.39	-5,619.42	2,144,394.15	619,512.12	36.8925130	-107.4246422
12,913.00	90.60	268.97	6,947.65	1,030.92	-5,710.41	2,144,392.28	619,421.14	36.8925089	-107.4249533
13,004.00	91.38	270.09	6,946.08	1,030.17	-5,801.39	2,144,391.12	619,330.16	36.8925068	-107.4252645
13,095.00	91.63	272.43	6,943.69	1,032.17	-5,892.33	2,144,392.72	619,239.21	36.8925122	-107.4255754
13,186.00	91.58	272.47	6,941.14	1,036.06	-5,983.21	2,144,396.20	619,148.31	36.8925228	-107.4258862
13,277.00	91.14	271.28	6,938.98	1,039.04	-6,074.13	2,144,398.77	619,057.38	36.8925310	-107.4261971
13,368.00	91.10	271.47	6,937.20	1,041.22	-6,165.09	2,144,400.54	618,966.41	36.8925369	-107.4265082
13,459.00	90.91	270.36	6,935.61	1,042.67	-6,256.06	2,144,401.59	618,875.43	36.8925408	-107.4268193
13,551.00	90.66	269.88	6,934.35	1,042.86	-6,348.06	2,144,401.37	618,783.44	36.8925413	-107.4271338
13,641.00	90.77	270.02	6,933.22	1,042.79	-6,438.05	2,144,400.88	618,693.45	36.8925410	-107.4274416
13,732.00	90.20	269.49	6,932.45	1,042.40	-6,529.04	2,144,400.09	618,602.46	36.8925399	-107.4277528
13,823.00	90.57	270.06	6,931.84	1,042.04	-6,620.04	2,144,399.32	618,511.46	36.8925389	-107.4280639
13,914.00	90.17	269.66	6,931.25	1,041.82	-6,711.04	2,144,398.69	618,420.47	36.8925382	-107.4283751
14,005.00	90.50	269.66	6,930.72	1,041.28	-6,802.03	2,144,397.74	618,329.48	36.8925366	-107.4286863
14,096.00	90.70	269.59	6,929.77	1,040.68	-6,893.03	2,144,396.74	618,238.49	36.8925350	-107.4289974
14,186.00	90.91	270.22	6,928.50	1,040.53	-6,983.02	2,144,396.19	618,148.50	36.8925345	-107.4293052
14,277.00	90.77	270.49	6,927.17	1,041.10	-7,074.01	2,144,396.34	618,057.51	36.8925360	-107.4296163
14,368.00	90.54	270.35	6,926.13	1,041.76	-7,165.00	2,144,396.60	617,966.51	36.8925377	-107.4299275
14,459.00	90.27	270.44	6,925.49	1,042.39	-7,255.99	2,144,396.82	617,875.52	36.8925394	-107.4302386
14,550.00	90.03	270.68	6,925.25	1,043.28	-7,346.99	2,144,397.30	617,784.52	36.8925418	-107.4305498
14,641.00	90.54	270.89	6,924.80	1,044.53	-7,437.98	2,144,398.14	617,693.52	36.8925451	-107.4308610
14,732.00	91.17	270.23	6,923.44	1,045.42	-7,528.96	2,144,398.62	617,602.54	36.8925475	-107.4311721
14,823.00	90.60	268.98	6,922.03	1,044.79	-7,619.95	2,144,397.59	617,511.55	36.8925457	-107.4314832
14,914.00	90.47	268.62	6,921.18	1,042.88	-7,710.92	2,144,395.27	617,420.59	36.8925404	-107.4317943
15,005.00	90.47	269.06	6,920.44	1,041.04	-7,801.90	2,144,393.02	617,329.62	36.8925353	-107.4321054
15,097.00	90.54	269.91	6,919.62	1,040.21	-7,893.89	2,144,391.79	617,237.63	36.8925329	-107.4324200
15,188.00	90.27	270.35	6,918.98	1,040.42	-7,984.89	2,144,391.58	617,146.63	36.8925334	-107.4327312
15,279.00	90.23	271.24	6,918.58	1,041.68	-8,075.88	2,144,392.44	617,055.64	36.8925368	-107.4330423
15,370.00	90.66	271.55	6,917.88	1,043.90	-8,166.85	2,144,394.25	616,964.66	36.8925428	-107.4333534
15,461.00	90.60	271.94	6,916.88	1,046.67	-8,257.80	2,144,396.61	616,873.70	36.8925504	-107.4336645
15,552.00	90.31	271.91	6,916.15	1,049.73	-8,348.75	2,144,399.26	616,782.74	36.8925587	-107.4339755
15,643.00	90.64	270.80	6,915.40	1,051.88	-8,439.72	2,144,401.00	616,691.76	36.8925645	-107.4342865
15,734.00	89.87	269.26	6,915.00	1,051.93	-8,530.71	2,144,400.64	616,600.77	36.8925646	-107.4345977
15,826.00	90.17	269.17	6,914.96	1,050.66	-8,622.70	2,144,398.97	616,508.78	36.8925611	-107.4349123
15,917.00	90.92	270.06	6,914.10	1,050.05	-8,713.70	2,144,397.95	616,417.79	36.8925593	-107.4352234
16,007.00	91.18	270.65	6,912.45	1,050.61	-8,803.68	2,144,398.10	616,327.81	36.8925608	-107.4355312
16,099.00	91.14	270.14	6,910.59	1,051.25	-8,895.66	2,144,398.32	616,235.83	36.8925624	-107.4358457
16,190.00	90.97	270.27	6,908.91	1,051.57	-8,986.64	2,144,398.24	616,144.84	36.8925632	-107.4361568
16,281.00	91.28	269.69	6,907.12	1,051.54	-9,077.62	2,144,397.80	616,053.86	36.8925631	-107.4364679
16,371.00	91.24	269.97	6,905.14	1,051.27	-9,167.60	2,144,397.13	615,963.89	36.8925622	-107.4367756
16,462.00	91.41	270.30	6,903.04	1,051.49	-9,258.58	2,144,396.94	615,872.91	36.8925628	-107.4370867
16,553.00	90.40	269.35	6,901.60	1,051.21	-9,349.56	2,144,396.25	615,781.93	36.8925619	-107.4373979
16,644.00	90.44	268.89	6,900.94	1,049.81	-9,440.55	2,144,394.45	615,690.95	36.8925580	-107.4377090
16,735.00	90.87	269.81	6,899.90	1,048.78	-9,531.54	2,144,393.01	615,599.97	36.8925551	-107.4380201
16,826.00	90.74	270.28	6,898.62	1,048.85	-9,622.53	2,144,392.67	615,508.98	36.8925552	-107.4383313
16,917.00	90.81	271.15	6,897.39	1,049.99	-9,713.51	2,144,393.40	615,417.99	36.8925582	-107.4386424
17,008.00	90.60	271.16	6,896.27	1,051.82	-9,804.49	2,144,394.82	615,327.01	36.8925632	-107.4389535

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #640H - Slot B02
Project:	T31N R5W Rosa Unit	TVD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Site:	Pad 27	MD Reference:	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)
Well:	ROSA UT 27 #640H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

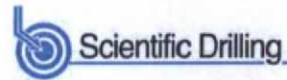
Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,099.00	90.81	270.31	6,895.15	1,052.99	-9,895.47	2,144,395.58	615,236.02	36.8925663	-107.4392647
17,190.00	91.01	270.59	6,893.70	1,053.70	-9,986.46	2,144,395.89	615,145.03	36.8925681	-107.4395758
17,281.00	91.34	270.81	6,891.84	1,054.81	-10,077.43	2,144,396.59	615,054.05	36.8925711	-107.4398869
17,371.00	91.81	270.61	6,889.36	1,055.93	-10,167.39	2,144,397.31	614,964.09	36.8925741	-107.4401945
17,462.00	91.88	270.38	6,886.43	1,056.71	-10,258.34	2,144,397.68	614,873.14	36.8925761	-107.4405055
17,553.00	90.94	270.31	6,884.19	1,057.26	-10,349.31	2,144,397.82	614,782.17	36.8925776	-107.4408166
17,644.00	90.13	269.91	6,883.34	1,057.44	-10,440.30	2,144,397.59	614,691.17	36.8925779	-107.4411278
17,736.00	89.63	269.66	6,883.54	1,057.09	-10,532.30	2,144,396.83	614,599.17	36.8925769	-107.4414424
17,827.00	89.60	269.65	6,884.15	1,056.54	-10,623.30	2,144,395.88	614,508.18	36.8925753	-107.4417536
17,918.00	89.66	269.60	6,884.73	1,055.95	-10,714.29	2,144,394.87	614,417.19	36.8925736	-107.4420647
17,963.00	89.66	269.60	6,885.00	1,055.63	-10,759.29	2,144,394.36	614,372.19	36.8925727	-107.4422186
17,972.00	89.73	269.68	6,885.05	1,055.58	-10,768.29	2,144,394.26	614,363.19	36.8925725	-107.4422494
RSI @ 17,972' MD - 36.8925725, -107.4422493									
17,995.00	89.90	269.88	6,885.12	1,055.49	-10,791.29	2,144,394.07	614,340.19	36.8925722	-107.4423280
Last SDI Lateral MWD Survey									
18,040.00	89.90	269.88	6,885.20	1,055.39	-10,836.29	2,144,393.77	614,295.20	36.8925719	-107.4424819
Projection to TD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
389.00	388.97	-3.34	2.36	First SDI Surface MWD Survey
6,361.00	6,262.34	939.47	398.41	7" Casing @ 6361' MD
6,361.00	6,262.34	939.47	398.41	36.8922593, -107.4040635
6,451.00	6,352.00	939.46	390.63	Last SDI Surface MWD Survey
6,481.00	6,381.87	939.39	387.81	First SDI Curve MWD Survey
7,601.00	7,013.62	1,011.69	-399.51	Last SDI Curve MWD Survey
7,631.00	7,013.76	1,012.45	-429.50	First SDI Lateral MWD Survey
17,972.00	6,885.05	1,055.58	-10,768.29	RSI @ 17,972' MD
17,972.00	6,885.05	1,055.58	-10,768.29	36.8925725, -107.4422493
17,995.00	6,885.12	1,055.49	-10,791.29	Last SDI Lateral MWD Survey
18,040.00	6,885.20	1,055.39	-10,836.29	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



Company Name: WPX Energy
Project: T31N R5W Rosa Unit
Site: Pad 27
Well: ROSA UT 27 #640H

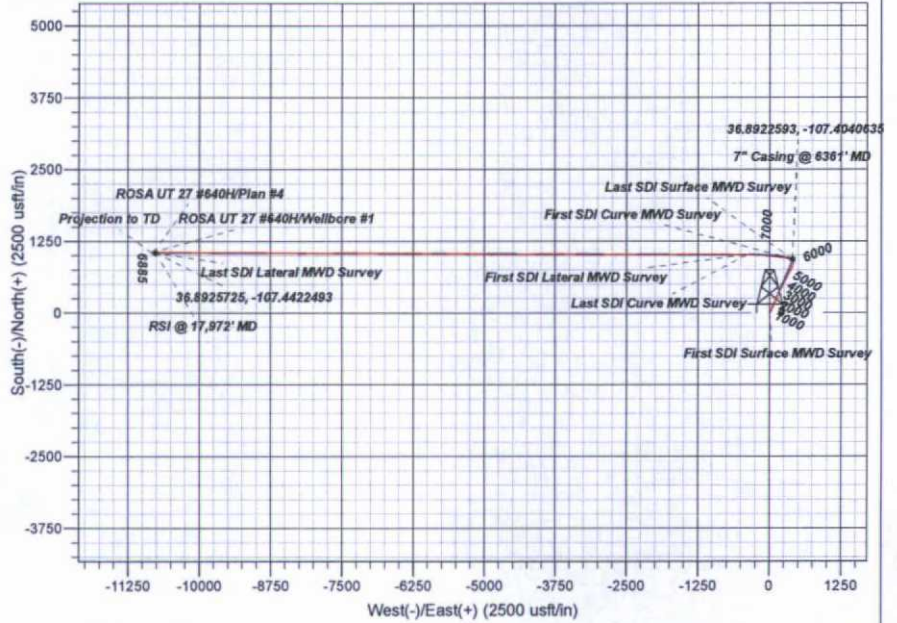
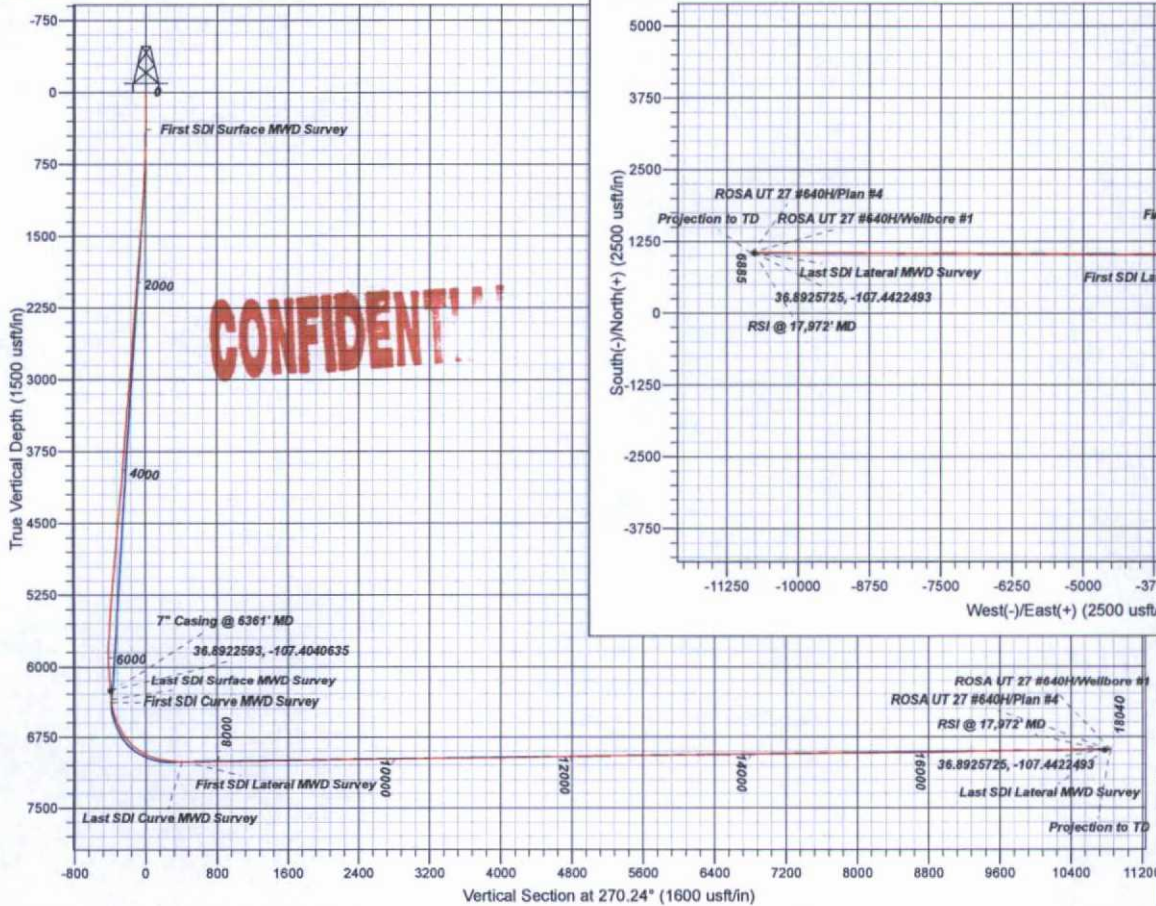


Azimuths to True North
Magnetic North: 9.20°

Magnetic Field
Strength: 50238.4nT
Dip Angle: 63.55°
Date: 9/25/2015
Model: HDGM

WELL DETAILS: ROSA UT 27 #640H

+N/-S	+E/-W	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)	6305.00		
		Northings	Easting	Latitude	Longitude
0.00	0.00	2143386.98	625136.11	36.8896788	-107.4054259
					B02



Design: Wellbore #1 (ROSA UT 27 #640H Wellbore #1)
Created By: Janie Collins Date: 9/23, October 23 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