

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

CONFIDENTIAL

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31317	*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 643H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6305'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
C	19	31N	5W	1	972	NORTH	510	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
E	24	31N	6W		1927	NORTH	44	WEST	RIO ARriba

¹² Dedicated Acres N/2 - Section 19, T31N, R5W
503.91 N/2 - Section 24, T31N, R6W

¹³ Joint or Infill

¹⁴ Consolidation Code

¹⁵ 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
1927' FNL 44' FNL
SECTION 24, T31N, R6W
LAT: 36.887073°N
LONG: 107.422379°W
DATUM: NAD1927

RSI TOOL
1928' FNL 103' FNL
SECTION 24, T31N, R6W
LAT: 36.887072°N
LONG: 107.422178°W
DATUM: NAD1927

POINT-OF-ENTRY
1845' FNL 977' FNL
SECTION 19, T31N, R5W
LAT: 36.887258°N
LONG: 107.403835°W
DATUM: NAD1927

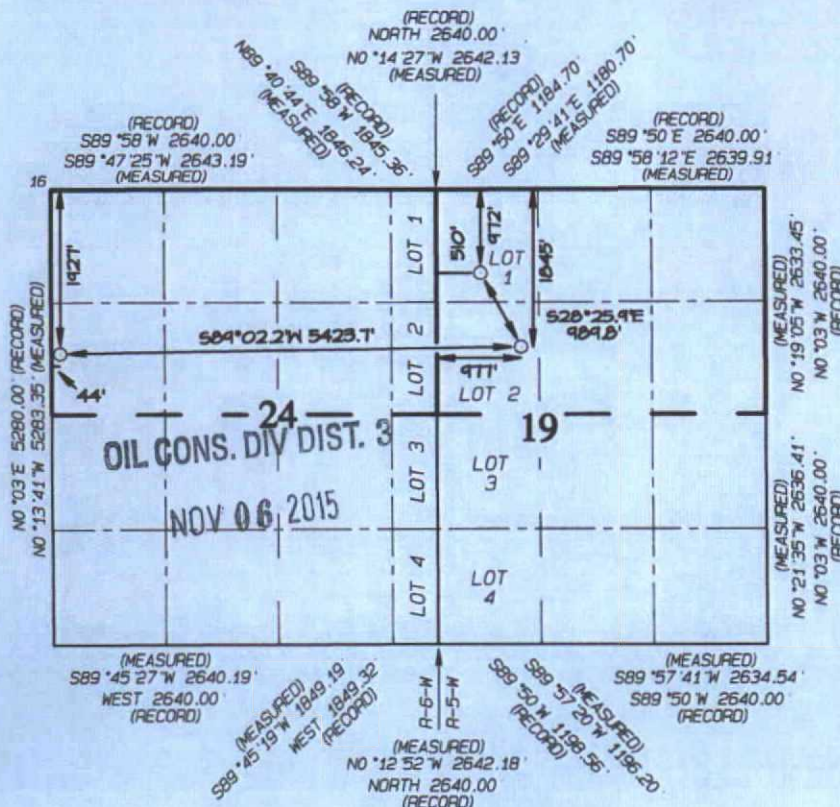
SURFACE LOCATION
972' FNL 510' FNL
SECTION 19, T31N, R5W
LAT: 36.889555°N
LONG: 107.405433°W
DATUM: NAD1927

LAT: 36.887079°N
LONG: 107.422983°W
DATUM: NAD1983

LAT: 36.887078°N
LONG: 107.422781°W
DATUM: NAD1983

LAT: 36.887264°N
LONG: 107.404438°W
DATUM: NAD1983

LAT: 36.889661°N
LONG: 107.405036°W
DATUM: NAD1983



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: *11/01/15*

Printed Name

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 10, 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 #643H - Slot A02
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 #643H	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		

CONFIDENTIAL

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 #643H - Slot A02		
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:	36.8896547
		Longitude:	-107.4054327
		Ground Level:	6,305.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	8/8/2015	9.22
			Dip Angle
			(°)
			Field Strength
			(nT)
			63.55
			50,253

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
			(°)
			270.07

Survey Program	Date 9/2/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
25.00	290.00	Survey #1 - Gyro Survey (Wellbore #1)	NS-GYRO-MS
379.00	6,530.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD
6,560.00	7,685.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD
7,715.00	12,415.05	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

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	2,143,378.20	625,134.16	36.8896547	-107.4054327
25.00	0.00	0.00	25.00	0.00	0.00	2,143,378.20	625,134.16	36.8896547	-107.4054327
55.00	0.22	242.59	55.00	-0.03	-0.05	2,143,378.17	625,134.11	36.8896546	-107.4054329
85.00	0.57	267.55	85.00	-0.06	-0.25	2,143,378.14	625,133.91	36.8896545	-107.4054336
115.00	0.69	254.13	115.00	-0.12	-0.57	2,143,378.08	625,133.59	36.8896543	-107.4054347
145.00	0.69	247.28	145.00	-0.23	-0.91	2,143,377.96	625,133.25	36.8896540	-107.4054359
175.00	0.86	242.13	174.99	-0.41	-1.28	2,143,377.78	625,132.88	36.8896535	-107.4054371
205.00	0.92	232.63	204.99	-0.66	-1.67	2,143,377.53	625,132.49	36.8896528	-107.4054385
235.00	1.05	224.33	234.98	-1.00	-2.05	2,143,377.18	625,132.11	36.8896519	-107.4054398

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #643H - Slot A02
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 #643H	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	1.01	219.91	264.98	-1.40	-2.42	2,143,376.78	625,131.75	36.8896508	-107.4054410
290.00	0.97	220.35	289.98	-1.73	-2.69	2,143,376.45	625,131.48	36.8896499	-107.4054420
379.00	0.72	197.36	378.97	-2.84	-3.35	2,143,375.34	625,130.83	36.8896469	-107.4054442
First SDI Surface MWD Survey									
450.00	1.81	177.00	449.95	-4.39	-3.42	2,143,373.79	625,130.76	36.8896426	-107.4054444
541.00	3.75	155.91	540.84	-8.54	-2.13	2,143,369.85	625,132.07	36.8896312	-107.4054400
632.00	5.33	151.90	631.55	-14.98	1.07	2,143,363.22	625,135.30	36.8896135	-107.4054291
722.00	5.90	153.84	721.12	-22.82	5.08	2,143,355.40	625,139.35	36.8895920	-107.4054154
813.00	7.77	151.25	811.47	-32.42	10.10	2,143,345.83	625,144.41	36.8895656	-107.4053982
903.00	8.32	149.26	900.58	-43.35	16.36	2,143,334.92	625,150.71	36.8895356	-107.4053768
994.00	8.60	149.51	990.59	-54.87	23.17	2,143,323.43	625,157.58	36.8895040	-107.4053535
1,085.00	8.68	152.44	1,080.56	-66.82	29.80	2,143,311.51	625,164.26	36.8894711	-107.4053308
1,176.00	10.30	149.62	1,170.31	-79.93	37.10	2,143,298.44	625,171.62	36.8894351	-107.4053059
1,267.00	10.89	148.88	1,259.76	-94.30	45.65	2,143,284.10	625,180.24	36.8893956	-107.4052766
1,358.00	11.51	148.84	1,349.03	-109.43	54.79	2,143,269.01	625,189.45	36.8893541	-107.4052454
1,449.00	11.86	148.94	1,438.14	-125.21	64.32	2,143,253.28	625,199.04	36.8893107	-107.4052128
1,540.00	11.51	147.81	1,527.25	-140.91	73.98	2,143,237.62	625,208.77	36.8892676	-107.4051798
1,631.00	11.71	148.01	1,616.39	-156.42	83.71	2,143,222.15	625,218.57	36.8892250	-107.4051465
1,723.00	10.56	147.38	1,706.66	-171.44	93.20	2,143,207.18	625,228.13	36.8891838	-107.4051141
1,814.00	11.18	146.17	1,796.03	-185.79	102.60	2,143,192.87	625,237.60	36.8891443	-107.4050819
1,905.00	10.39	152.10	1,885.42	-200.37	111.35	2,143,178.32	625,246.41	36.8891043	-107.4050520
1,997.00	9.78	153.33	1,976.00	-214.69	118.74	2,143,164.04	625,253.87	36.8890650	-107.4050267
2,088.00	9.25	152.02	2,065.75	-228.05	125.64	2,143,150.71	625,260.83	36.8890282	-107.4050031
2,179.00	9.65	151.33	2,155.51	-241.20	132.74	2,143,137.59	625,267.98	36.8889921	-107.4049789
2,270.00	9.41	151.16	2,245.26	-254.41	139.98	2,143,124.41	625,275.28	36.8889558	-107.4049541
2,361.00	9.63	151.45	2,335.00	-267.62	147.21	2,143,111.24	625,282.57	36.8889196	-107.4049294
2,452.00	9.31	147.12	2,424.76	-280.48	154.84	2,143,098.41	625,290.26	36.8888842	-107.4049033
2,543.00	10.49	150.85	2,514.41	-293.90	162.87	2,143,085.03	625,298.35	36.8888474	-107.4048758
2,633.00	10.76	150.15	2,602.86	-308.34	171.05	2,143,070.62	625,306.59	36.8888077	-107.4048479
2,724.00	11.43	151.44	2,692.16	-323.63	179.59	2,143,055.38	625,315.20	36.8887657	-107.4048187
2,816.00	11.00	152.95	2,782.41	-339.45	187.94	2,143,039.59	625,323.62	36.8887223	-107.4047901
2,907.00	11.16	147.83	2,871.71	-354.64	196.57	2,143,024.44	625,332.32	36.8886805	-107.4047606
2,997.00	9.73	146.74	2,960.22	-368.37	205.38	2,143,010.75	625,341.19	36.8886428	-107.4047304
3,088.00	10.11	147.07	3,049.86	-381.51	213.94	2,142,997.65	625,349.81	36.8886067	-107.4047012
3,179.00	9.68	146.34	3,139.50	-394.58	222.52	2,142,984.62	625,358.45	36.8885708	-107.4046718
3,269.00	9.63	150.07	3,228.23	-407.40	230.47	2,142,971.83	625,366.46	36.8885356	-107.4046447
3,361.00	10.24	151.16	3,318.85	-421.23	238.26	2,142,958.04	625,374.31	36.8884976	-107.4046180
3,452.00	10.02	146.66	3,408.43	-434.93	246.51	2,142,944.37	625,382.62	36.8884600	-107.4045898
3,543.00	9.74	149.47	3,498.08	-448.18	254.77	2,142,931.17	625,390.94	36.8884236	-107.4045616
3,634.00	9.27	151.05	3,587.83	-461.22	262.23	2,142,918.16	625,398.46	36.8883878	-107.4045361
3,725.00	9.74	152.33	3,677.59	-474.45	269.35	2,142,904.96	625,405.64	36.8883514	-107.4045117
3,816.00	9.18	148.36	3,767.35	-487.45	276.73	2,142,891.99	625,413.08	36.8883157	-107.4044865
3,907.00	8.45	154.92	3,857.28	-499.68	283.38	2,142,879.79	625,419.78	36.8882821	-107.4044638
3,998.00	7.60	157.40	3,947.38	-511.30	288.52	2,142,868.20	625,424.97	36.8882502	-107.4044462
4,090.00	8.65	153.73	4,038.46	-523.12	293.92	2,142,856.40	625,430.43	36.8882178	-107.4044277
4,181.00	8.14	157.23	4,128.48	-535.19	299.45	2,142,844.35	625,436.00	36.8881846	-107.4044088
4,272.00	8.94	151.70	4,218.48	-547.36	305.29	2,142,832.21	625,441.90	36.8881512	-107.4043888
4,363.00	8.47	150.85	4,308.43	-559.44	311.91	2,142,820.16	625,448.58	36.8881180	-107.4043662
4,454.00	9.49	147.27	4,398.31	-571.60	319.23	2,142,808.03	625,455.95	36.8880846	-107.4043412
4,545.00	9.94	148.61	4,488.01	-584.62	327.38	2,142,795.05	625,464.16	36.8880488	-107.4043133
4,637.00	10.61	148.00	4,578.53	-598.58	336.00	2,142,781.13	625,472.84	36.8880105	-107.4042838
4,728.00	10.57	150.45	4,667.98	-612.95	344.56	2,142,768.80	625,481.46	36.8879710	-107.4042546
4,819.00	11.70	151.75	4,757.27	-628.33	353.04	2,142,751.45	625,490.02	36.8879287	-107.4042256
4,910.00	11.69	153.22	4,846.38	-644.69	361.56	2,142,735.13	625,498.61	36.8878838	-107.4041964
5,001.00	11.01	151.35	4,935.60	-660.55	369.88	2,142,719.31	625,507.00	36.8878403	-107.4041680

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #643H - Slot A02
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 #643H	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	9.93	150.96	5,025.08	-675.03	377.86	2,142,704.86	625,515.04	36.8878005	-107.4041407
5,184.00	10.68	154.11	5,115.60	-689.64	385.43	2,142,690.29	625,522.68	36.8877604	-107.4041148
5,275.00	11.25	153.20	5,204.94	-705.15	393.11	2,142,674.82	625,530.43	36.8877178	-107.4040885
5,366.00	10.99	154.87	5,294.23	-720.92	400.80	2,142,659.08	625,538.19	36.8876744	-107.4040622
5,457.00	11.44	153.92	5,383.49	-736.88	408.45	2,142,643.15	625,545.91	36.8876306	-107.4040361
5,548.00	10.37	152.57	5,472.85	-752.26	416.19	2,142,627.81	625,553.72	36.8875884	-107.4040096
5,640.00	10.31	151.27	5,563.35	-766.83	423.96	2,142,613.28	625,561.56	36.8875483	-107.4039830
5,731.00	10.16	150.57	5,652.90	-780.96	431.82	2,142,599.18	625,569.48	36.8875095	-107.4039562
5,822.00	10.17	152.94	5,742.48	-795.10	439.42	2,142,585.07	625,577.14	36.8874707	-107.4039302
5,914.00	9.29	152.71	5,833.15	-808.94	446.52	2,142,571.27	625,584.30	36.8874327	-107.4039059
6,005.00	8.79	152.39	5,923.02	-821.63	453.11	2,142,558.61	625,590.95	36.8873978	-107.4038834
6,096.00	8.60	152.50	6,012.98	-833.82	459.47	2,142,546.44	625,597.37	36.8873643	-107.4038616
6,187.00	7.20	167.01	6,103.12	-845.41	463.90	2,142,534.87	625,601.85	36.8873325	-107.4038465
6,278.00	6.38	174.51	6,193.48	-856.00	465.66	2,142,524.29	625,603.66	36.8873034	-107.4038405
6,369.00	5.72	172.87	6,283.97	-865.54	466.71	2,142,514.76	625,604.75	36.8872772	-107.4038369
6,393.00	5.54	175.17	6,307.86	-867.88	466.96	2,142,512.42	625,605.00	36.8872708	-107.4038360
6,443.00	5.08	176.82	6,357.64	-872.50	467.28	2,142,507.80	625,605.35	36.8872581	-107.4038349
7" Casing @ 6443' MD - 36.8872581 / -107.4038349									
6,500.00	4.57	179.11	6,414.44	-877.29	467.46	2,142,503.01	625,605.55	36.8872449	-107.4038343
6,530.00	3.91	181.00	6,444.36	-879.51	467.46	2,142,500.80	625,605.56	36.8872388	-107.4038343
Last SDI Surface MWD Survey									
6,560.00	4.67	211.97	6,474.28	-881.56	466.79	2,142,498.73	625,604.90	36.8872332	-107.4038366
First SDI Curve MWD Survey									
6,591.00	7.00	225.64	6,505.12	-883.96	464.77	2,142,496.33	625,602.89	36.8872266	-107.4038435
6,621.00	9.01	235.50	6,534.82	-886.57	461.53	2,142,493.71	625,599.66	36.8872194	-107.4038546
6,651.00	10.14	245.05	6,564.41	-889.01	457.20	2,142,491.25	625,595.34	36.8872127	-107.4038694
6,682.00	11.07	253.11	6,594.88	-891.03	451.88	2,142,489.21	625,590.03	36.8872072	-107.4038876
6,712.00	12.24	257.23	6,624.26	-892.57	446.02	2,142,487.64	625,584.18	36.8872030	-107.4039076
6,742.00	13.84	259.62	6,653.49	-893.92	439.39	2,142,486.26	625,577.55	36.8871992	-107.4039303
6,772.00	15.90	260.62	6,682.48	-895.23	431.80	2,142,484.91	625,569.98	36.8871956	-107.4039562
6,803.00	18.33	261.12	6,712.11	-896.68	422.80	2,142,483.42	625,560.97	36.8871917	-107.4039870
6,833.00	20.35	260.85	6,740.41	-898.23	412.99	2,142,481.82	625,551.17	36.8871874	-107.4040206
6,864.00	22.02	260.56	6,769.32	-900.04	401.93	2,142,479.96	625,540.12	36.8871824	-107.4040584
6,895.00	24.36	260.67	6,797.81	-902.03	389.89	2,142,477.92	625,528.09	36.8871769	-107.4040996
6,925.00	26.91	260.85	6,824.85	-904.12	377.08	2,142,475.78	625,515.29	36.8871712	-107.4041434
6,956.00	29.15	261.09	6,852.22	-906.40	362.69	2,142,473.43	625,500.91	36.8871649	-107.4041926
6,986.00	31.04	260.95	6,878.17	-908.75	347.83	2,142,471.01	625,486.07	36.8871585	-107.4042434
7,017.00	33.38	261.08	6,904.40	-911.33	331.51	2,142,468.36	625,469.76	36.8871514	-107.4042992
7,047.00	36.03	261.64	6,929.06	-913.89	314.63	2,142,465.72	625,452.88	36.8871444	-107.4043569
7,078.00	39.00	261.75	6,953.64	-916.62	295.95	2,142,462.91	625,434.22	36.8871369	-107.4044208
7,107.00	41.25	262.04	6,975.82	-919.25	277.45	2,142,460.20	625,415.73	36.8871297	-107.4044840
7,138.00	43.19	262.38	6,998.77	-922.08	256.81	2,142,457.28	625,395.10	36.8871219	-107.4045546
7,169.00	46.11	262.63	7,020.83	-924.92	235.21	2,142,454.34	625,373.52	36.8871141	-107.4046285
7,199.00	48.98	262.96	7,041.07	-927.69	213.25	2,142,451.47	625,351.57	36.8871065	-107.4047035
7,229.00	51.72	262.94	7,060.21	-930.53	190.33	2,142,448.53	625,328.66	36.8870987	-107.4047819
7,260.00	54.58	263.57	7,078.80	-933.44	165.70	2,142,445.51	625,304.05	36.8870907	-107.4048661
7,290.00	57.22	264.08	7,095.62	-936.11	141.00	2,142,442.73	625,279.36	36.8870834	-107.4049506
7,321.00	59.63	265.31	7,111.85	-938.54	114.71	2,142,440.18	625,253.08	36.8870767	-107.4050405
7,351.00	61.93	266.52	7,126.50	-940.41	88.60	2,142,438.20	625,226.97	36.8870716	-107.4051298
7,381.00	62.76	266.65	7,140.42	-941.99	62.07	2,142,436.50	625,200.46	36.8870672	-107.4052205
7,412.00	64.21	266.67	7,154.26	-943.60	34.38	2,142,434.76	625,172.77	36.8870628	-107.4053152
7,442.00	67.04	267.22	7,166.64	-945.06	7.09	2,142,433.18	625,145.49	36.8870588	-107.4054085
7,472.00	69.31	267.52	7,177.79	-946.34	-20.72	2,142,431.78	625,117.68	36.8870553	-107.4055036
7,502.00	71.25	267.40	7,187.92	-947.59	-48.94	2,142,430.40	625,089.48	36.8870518	-107.4056001
7,533.00	73.70	267.22	7,197.25	-948.98	-78.46	2,142,428.88	625,059.96	36.8870480	-107.4057010

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #643H - Slot A02
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 #643H	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
7,563.00	75.87	266.82	7,205.12	-950.48	-107.37	2,142,427.24	625,031.06	36.8870439	-107.4057999
7,594.00	77.79	266.70	7,212.19	-952.19	-137.50	2,142,425.40	625,000.93	36.8870392	-107.4059029
7,624.00	80.79	267.45	7,217.76	-953.69	-166.94	2,142,423.77	624,971.50	36.8870351	-107.4060036
7,655.00	83.34	268.69	7,222.04	-954.72	-197.62	2,142,422.60	624,940.82	36.8870322	-107.4061085
7,685.00	85.67	269.39	7,224.91	-955.22	-227.48	2,142,421.96	624,910.97	36.8870309	-107.4062106
Last SDI Curve MWD Survey									
7,715.00	88.05	270.23	7,226.56	-955.32	-257.43	2,142,421.73	624,881.02	36.8870306	-107.4063130
First SDI Lateral MWD Survey									
7,745.00	90.07	270.25	7,227.05	-955.20	-287.42	2,142,421.72	624,851.02	36.8870309	-107.4064155
7,775.00	90.64	269.89	7,226.86	-955.16	-317.42	2,142,421.62	624,821.02	36.8870310	-107.4065181
7,866.00	90.97	268.99	7,225.58	-956.05	-408.41	2,142,420.33	624,730.04	36.8870286	-107.4068292
7,957.00	91.01	269.72	7,224.01	-957.07	-499.39	2,142,418.89	624,639.07	36.8870258	-107.4071403
8,049.00	90.64	269.58	7,222.69	-957.64	-591.38	2,142,417.92	624,547.08	36.8870242	-107.4074549
8,140.00	92.15	269.72	7,220.47	-958.19	-682.35	2,142,416.96	624,456.12	36.8870227	-107.4077659
8,230.00	90.47	269.51	7,218.41	-958.80	-772.32	2,142,415.95	624,366.15	36.8870210	-107.4080736
8,321.00	89.70	269.02	7,218.28	-959.96	-863.31	2,142,414.37	624,275.17	36.8870178	-107.4083847
8,412.00	90.44	269.28	7,218.17	-961.31	-954.30	2,142,412.61	624,184.18	36.8870141	-107.4086958
8,502.00	90.47	269.27	7,217.45	-962.45	-1,044.29	2,142,411.07	624,094.20	36.8870109	-107.4090035
8,594.00	90.13	269.99	7,216.97	-963.05	-1,136.28	2,142,410.07	624,002.21	36.8870093	-107.4093181
8,684.00	90.60	269.49	7,216.40	-963.45	-1,226.28	2,142,409.25	623,912.21	36.8870082	-107.4096258
8,776.00	91.11	270.47	7,215.02	-963.49	-1,318.27	2,142,408.81	623,820.23	36.8870081	-107.4099404
8,866.00	89.76	270.92	7,214.34	-962.39	-1,408.26	2,142,409.50	623,730.23	36.8870111	-107.4102481
8,958.00	89.97	270.94	7,214.56	-960.90	-1,500.25	2,142,410.58	623,638.24	36.8870151	-107.4105626
9,049.00	90.57	270.54	7,214.13	-959.73	-1,591.24	2,142,411.35	623,547.24	36.8870184	-107.4108738
9,140.00	91.21	269.75	7,212.72	-959.50	-1,682.22	2,142,411.17	623,456.26	36.8870190	-107.4111849
9,231.00	90.44	271.38	7,211.41	-958.60	-1,773.21	2,142,411.66	623,365.27	36.8870214	-107.4114960
9,323.00	91.80	271.66	7,209.61	-956.16	-1,865.15	2,142,413.69	623,273.31	36.8870281	-107.4118104
9,414.00	90.50	271.39	7,207.78	-953.74	-1,956.10	2,142,415.70	623,182.36	36.8870347	-107.4121214
9,505.00	89.97	272.52	7,207.41	-950.63	-2,047.05	2,142,418.40	623,091.40	36.8870433	-107.4124323
9,596.00	90.37	271.15	7,207.14	-947.72	-2,138.00	2,142,420.90	623,000.44	36.8870512	-107.4127433
9,687.00	89.70	270.31	7,207.08	-946.56	-2,228.99	2,142,421.65	622,909.44	36.8870544	-107.4130545
9,779.00	90.17	269.83	7,207.19	-946.45	-2,320.99	2,142,421.35	622,817.44	36.8870547	-107.4133690
9,870.00	90.60	268.68	7,206.57	-947.63	-2,411.98	2,142,419.76	622,726.46	36.8870514	-107.4136802
9,961.00	89.80	269.82	7,206.26	-948.82	-2,502.96	2,142,418.16	622,635.48	36.8870481	-107.4139913
10,052.00	91.14	268.36	7,205.51	-950.27	-2,593.95	2,142,416.31	622,544.50	36.8870441	-107.4143024
10,143.00	90.54	269.55	7,204.18	-951.93	-2,684.92	2,142,414.24	622,453.54	36.8870396	-107.4146135
10,234.00	91.45	269.02	7,202.60	-953.06	-2,775.90	2,142,412.70	622,362.57	36.8870364	-107.4149245
10,325.00	90.67	271.50	7,200.91	-952.65	-2,866.87	2,142,412.70	622,271.59	36.8870375	-107.4152356
10,416.00	90.71	271.65	7,199.82	-950.15	-2,957.83	2,142,414.80	622,180.62	36.8870444	-107.4155467
10,507.00	91.61	271.72	7,197.97	-947.47	-3,048.77	2,142,417.07	622,089.67	36.8870517	-107.4158576
10,598.00	90.67	270.20	7,196.16	-945.95	-3,139.74	2,142,418.18	621,998.70	36.8870558	-107.4161687
10,689.00	89.53	269.98	7,196.01	-945.81	-3,230.74	2,142,417.92	621,907.70	36.8870562	-107.4164798
10,780.00	90.50	270.66	7,195.98	-945.30	-3,321.73	2,142,418.02	621,816.70	36.8870576	-107.4167910
10,871.00	90.20	270.06	7,195.43	-944.73	-3,412.73	2,142,418.18	621,725.70	36.8870591	-107.4171021
10,962.00	91.18	269.83	7,194.33	-944.81	-3,503.72	2,142,417.69	621,634.71	36.8870588	-107.4174133
11,053.00	89.43	269.37	7,193.85	-945.45	-3,594.71	2,142,416.64	621,543.72	36.8870571	-107.4177244
11,144.00	90.40	268.73	7,193.98	-946.96	-3,685.70	2,142,414.73	621,452.74	36.8870529	-107.4180355
11,235.00	91.41	268.38	7,192.54	-949.25	-3,776.66	2,142,412.02	621,361.80	36.8870466	-107.4183465
11,326.00	90.54	269.27	7,190.99	-951.12	-3,867.62	2,142,409.75	621,270.84	36.8870414	-107.4186576
11,417.00	91.65	269.24	7,189.26	-952.30	-3,958.60	2,142,408.16	621,179.87	36.8870381	-107.4189686
11,508.00	89.80	270.22	7,188.10	-952.73	-4,049.59	2,142,407.32	621,088.89	36.8870369	-107.4192798
11,599.00	90.97	270.00	7,187.49	-952.55	-4,140.58	2,142,407.09	620,997.89	36.8870373	-107.4195909
11,691.00	89.09	270.51	7,187.44	-952.14	-4,232.58	2,142,407.09	620,905.90	36.8870384	-107.4199055
11,782.00	90.04	270.69	7,188.14	-951.19	-4,323.57	2,142,407.63	620,814.90	36.8870410	-107.4202166
11,873.00	91.45	271.66	7,186.95	-949.33	-4,414.54	2,142,409.09	620,723.93	36.8870461	-107.4205277

Company:	WPX Energy	Local Co-ordinate Reference:	Well ROSA UT 27 #643H - Slot A02
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 #643H	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
11,964.00	91.88	271.55	7,184.31	-946.78	-4,505.46	2,142,411.23	620,632.99	36.8870530	-107.4208386
12,055.00	92.15	271.31	7,181.11	-944.51	-4,596.38	2,142,413.09	620,542.06	36.8870592	-107.4211495
12,146.00	91.81	270.81	7,177.96	-942.83	-4,687.31	2,142,414.37	620,451.13	36.8870638	-107.4214604
12,237.00	92.55	271.18	7,174.50	-941.25	-4,778.23	2,142,415.54	620,360.20	36.8870681	-107.4217713
12,328.00	92.72	270.32	7,170.32	-940.06	-4,869.12	2,142,416.32	620,269.30	36.8870713	-107.4220821
12,356.00	93.12	270.40	7,168.89	-939.88	-4,897.09	2,142,416.37	620,241.34	36.8870718	-107.4221777
RSI @ 12,356' MD - 36.8870718 / -107.4221776									
12,369.00	93.30	270.43	7,168.17	-939.79	-4,910.06	2,142,416.40	620,228.36	36.8870721	-107.4222221
Last SDI Lateral MWD Survey									
12,415.00	93.30	270.43	7,165.52	-939.44	-4,955.99	2,142,416.54	620,182.44	36.8870730	-107.4223791
Projection to TD									
12,415.05	93.30	270.43	7,165.52	-939.44	-4,956.04	2,142,416.54	620,182.39	36.8870730	-107.4223793

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
379.00	378.97	-2.84	-3.35	First SDI Surface MWD Survey
6,443.00	6,357.64	-872.50	467.28	7" Casing @ 6443' MD
6,443.00	6,357.64	-872.50	467.28	36.8872581 / -107.4038349
6,530.00	6,444.36	-879.51	467.46	Last SDI Surface MWD Survey
6,560.00	6,474.28	-881.56	466.79	First SDI Curve MWD Survey
7,685.00	7,224.91	-955.22	-227.48	Last SDI Curve MWD Survey
7,715.00	7,226.56	-955.32	-257.43	First SDI Lateral MWD Survey
12,356.00	7,168.89	-939.88	-4,897.09	RSI @ 12,356' MD
12,356.00	7,168.89	-939.88	-4,897.09	36.8870718 / -107.4221776
12,369.00	7,168.17	-939.79	-4,910.06	Last SDI Lateral MWD Survey
12,415.00	7,165.52	-939.44	-4,955.99	Projection to TD

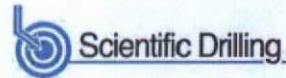
Checked By: _____ Approved By: _____ Date: _____

OIL CONS. DIV DIST. 3

NOV 06 2015



Company Name: WPX Energy
Project: T31N R5W Rosa Unit
Site: Pad 27
Well: ROSA UT 27 #643H

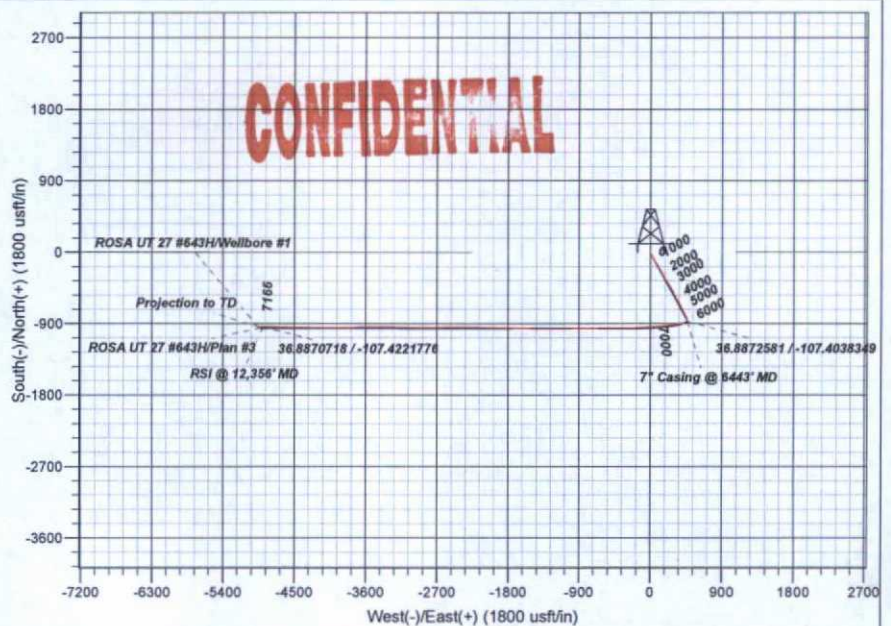
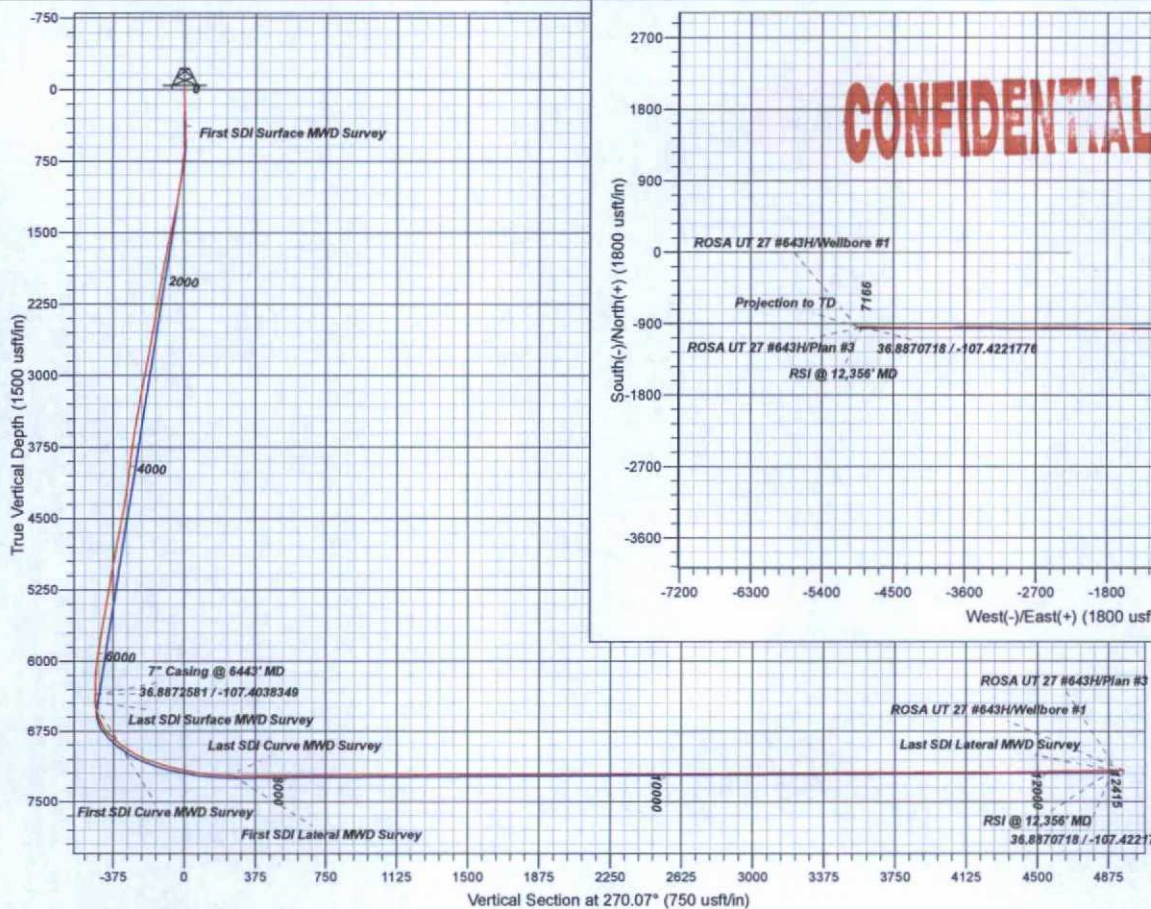


Azimuths to True North
Magnetic North: 9.22°
Magnetic Field
Strength: 50253.2snT
Dip Angle: 63.55°
Date: 8/8/2015
Model: HDGM

WELL DETAILS: ROSA UT 27 #643H

+N/-S	+E/-W	GL 6305' & RKB 25' @ 6330.00usft (Aztec 1000)	6305.00
Northing	Easting	Latitude	Longitude
0.00	0.00	2143378.20	625134.16
		36.8896547	-107.4054327

A02



Design: Wellbore #1 (ROSA UT 27 #643H Wellbore #1)
Created By: Janie Collins Date: 16:21, September 02 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