

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-29982		*Pool Code 72319 / 71599		*Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
*Property Code 17033		*Property Name ROSA UNIT			*Well Number 77C
*GRID No. 120782		*Operator Name WPX ENERGY PRODUCTION, LLC			*Elevation 6504'

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	33	31N	5W		660	SOUTH	540	EAST	RIO ARriba

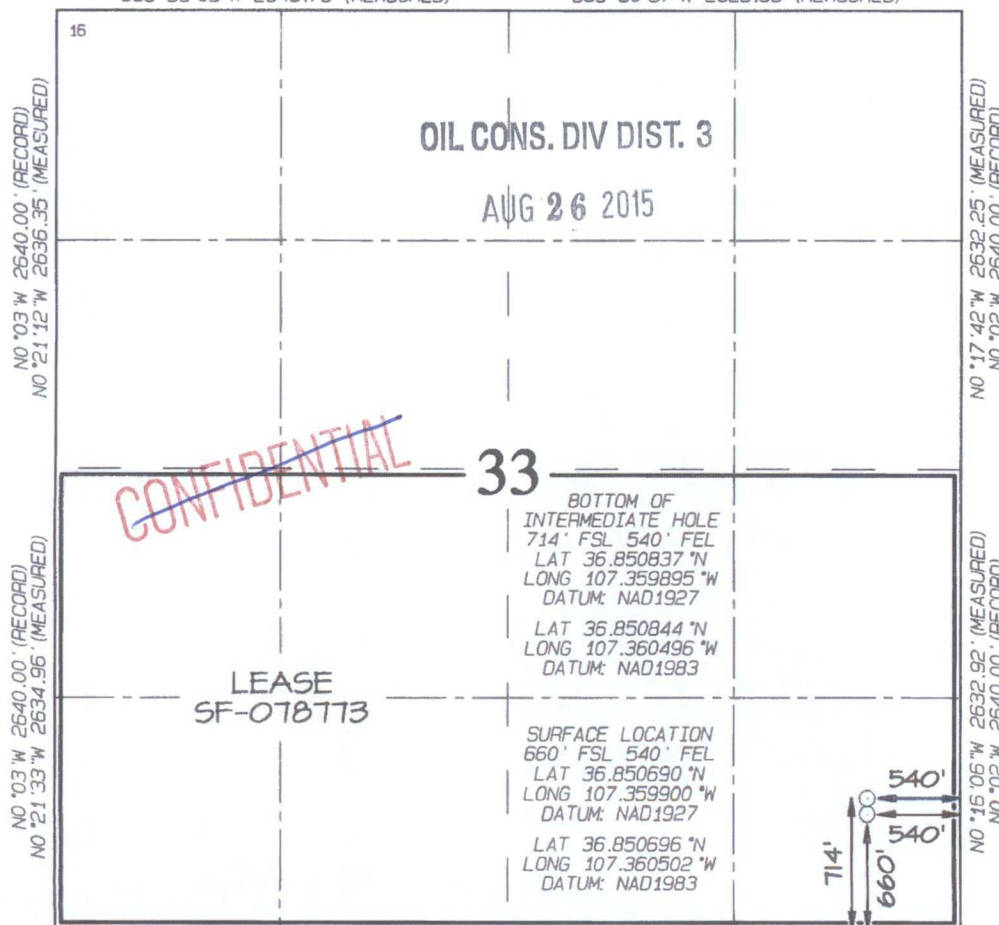
¹¹ Bottom of Intermediate Hole If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	33	31N	5W		714	SOUTH	540	EAST	RIO ARriba
¹² Dedicated Acres 320.0 Acres - (S/2)					¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. DHC PENDING

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

S89°58'W 2643.30' (RECORD)
S89°36'03"W 2645.79' (MEASURED)

S89°58'W 2643.30' (RECORD)
S89°50'57"W 2625.99' (MEASURED)



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: *[Signature]* Date: 8/25/15
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: AUGUST 7, 2015
Survey Date: OCTOBER 5, 2005

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



OIL CONS. DIV DIST. 3

AUG 26 2015

Exploration and Production

August 25, 2015

DEVIATION REPORT

Well Name: Rosa Unit #077C
Location: 660' FSL & 540' FEL, P SEC 33, T31N, R5W NMPM
County, State: Rio Arriba, New Mexico
Formation: Blanco Mesa Verde, Basin Dakota
API#: 30-039-29982

DEVIATION (Degrees)	DEPTH (Feet)
0.0	3825
1.3	4325
0.5	4825
0.7	5325
1.1	5825
0.7	6325
0.7	6825
0.8	7325
1.6	7825
1.1	8213

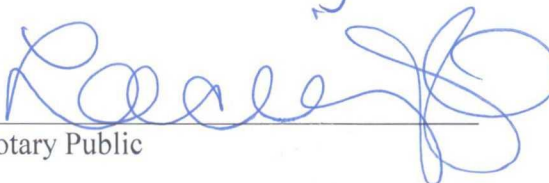
CONFIDENTIAL



Andrew Brunk
Drilling Superintendent

State of New Mexico)
)
County of San Juan) ss.

Subscribed and sworn to before me this 25 day of August,
2015, by Andrew Brunk.



Notary Public

My Commission Expires: 12/8/15



WPX Energy Rocky Mountain, LLC

Rio Arriba County, NM NAD27

Rosa Unit #77C

Rosa Unit #77C

OH

OIL CONS. DIV DIST. 3

AUG 26 2015

Design: OH

Survey Report - Geographic

06 August, 2015



www.scientificdrilling.com

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5. Support Staff





Company: WPX Energy Rocky Mountain, LLC
Project: Rio Arriba County, NM NAD27
Site: Rosa Unit #77C
Well: Rosa Unit #77C

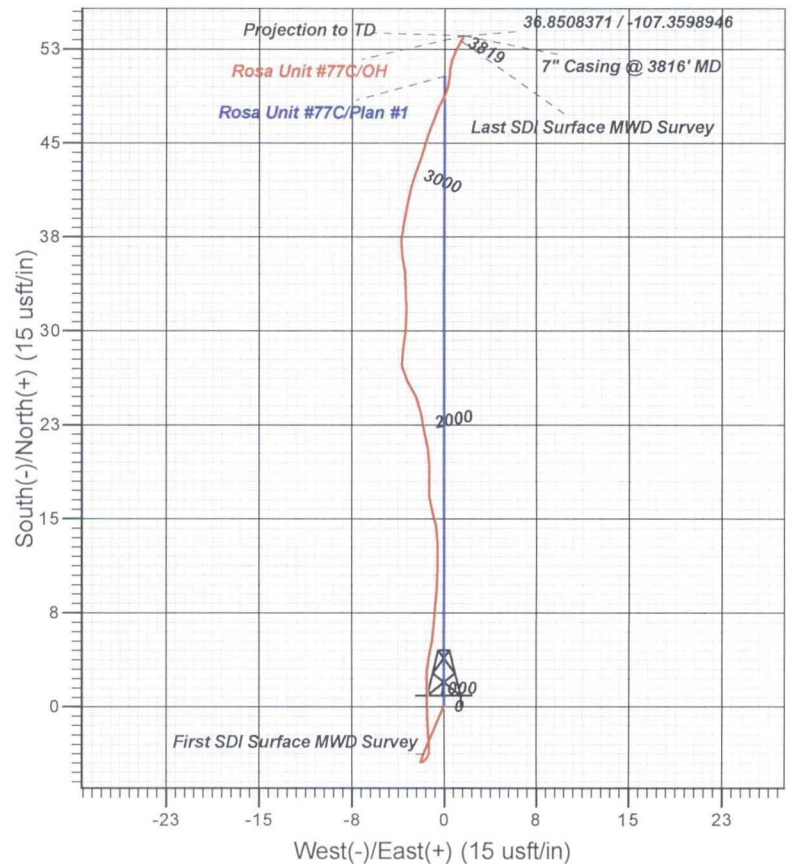
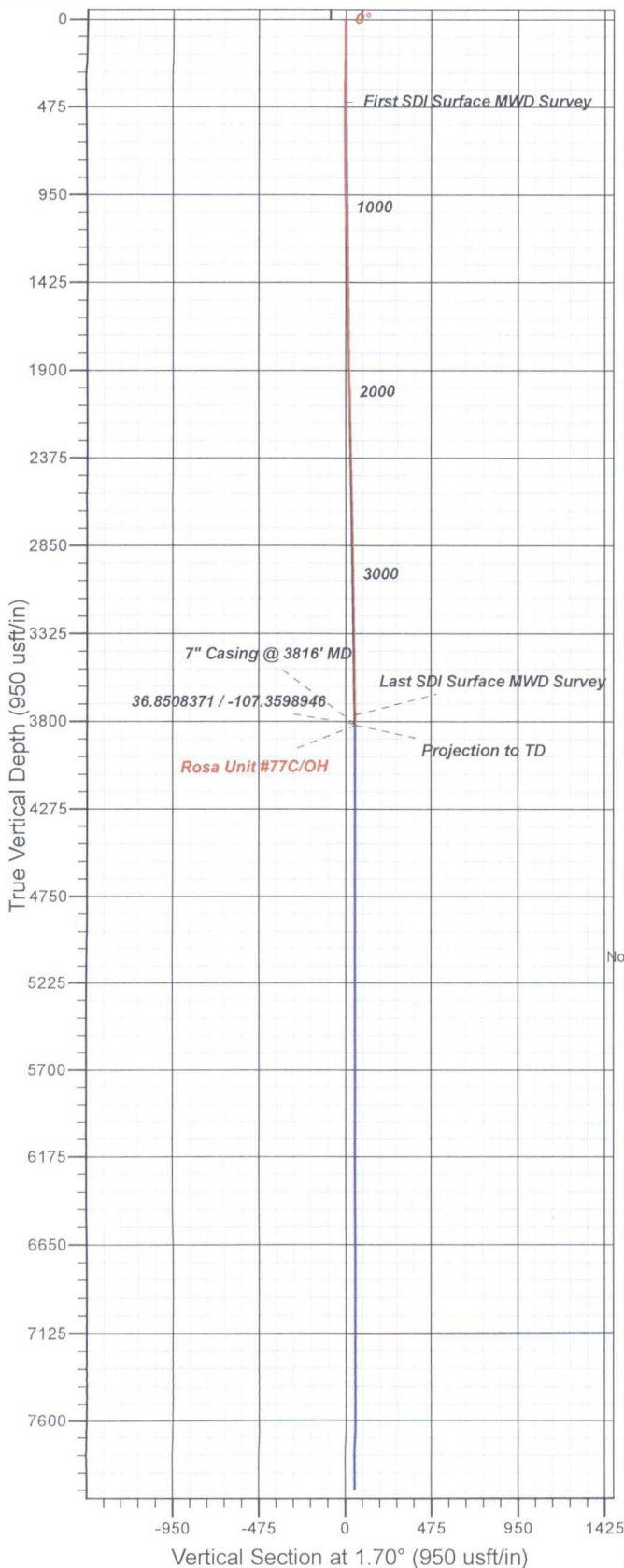


Well Details: Rosa Unit #77C

GL 6504' & RKB 14' @ 6517.99usft (Aztec 920)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	2130763.54	175259.34	36.8506900	-107.3599000	

T M Azimuths to True North
Magnetic North: 9.18°
Magnetic Field
Strength: 50250.4snT
Dip Angle: 63.53°
Date: 7/17/2015
Model: HDGM



FORMATION TOP DETAILS	
No formation data is available	
Plan: OH	
10:07, August 06 2015 Created By: Janie Collins	
PROJECT DETAILS: Rio Arriba County, NM NAD27	
Geodetic System: US State Plane 1927 (Exact solution) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: New Mexico Central 3002	
System Datum: Mean Sea Level	
CASING DETAILS	
No casing data is available	
SECTION DETAILS	
No plan data is available	
DESIGN TARGET DETAILS	
No target data is available.	



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Rosa Unit #77C
Project:	Rio Arriba County, NM NAD27	TVD Reference:	GL 6504' & RKB 14' @ 6517.99usft (Aztec 920)
Site:	Rosa Unit #77C	MD Reference:	GL 6504' & RKB 14' @ 6517.99usft (Aztec 920)
Well:	Rosa Unit #77C	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project	Rio Arriba County, NM NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site	Rosa Unit #77C		
Site Position:		Northing:	2,130,763.53 usft
From:	Lat/Long	Easting:	175,259.35 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.8506900
		Longitude:	-107.3599000
		Grid Convergence:	-0.67 °

Well	Rosa Unit #77C		
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:	36.8506900
		Longitude:	-107.3599000
		Ground Level:	6,503.99 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	7/17/2015	9.18
			Dip Angle
			(°)
			63.53
			Field Strength
			(nT)
			50,250

Design	OH		
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
			(°)
			1.70

Survey Program	Date 8/6/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
447.00	3,820.00	Survey #1 - Surface MWD (OH)	SDI MWD
			Description
			SDI MWD - Standard ver 1.0.1

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map		
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting	Latitude	Longitude
(usft)			(usft)			(usft)	(usft)		
0.00	0.00	0.00	0.00	0.00	0.00	2,130,763.53	175,259.35	36.8506900	-107.3599000
447.00	1.06	203.68	446.97	-3.79	-1.66	2,130,759.77	175,257.64	36.8506796	-107.3599057
First SDI Surface MWD Survey									
508.00	0.14	168.22	507.97	-4.38	-1.87	2,130,759.18	175,257.43	36.8506779	-107.3599064
569.00	0.42	60.01	568.97	-4.34	-1.66	2,130,759.22	175,257.63	36.8506781	-107.3599057
629.00	0.34	36.52	628.97	-4.08	-1.37	2,130,759.46	175,257.93	36.8506788	-107.3599047
691.00	0.47	13.41	690.97	-3.69	-1.20	2,130,759.86	175,258.11	36.8506798	-107.3599041
751.00	0.77	355.38	750.96	-3.05	-1.17	2,130,760.50	175,258.14	36.8506816	-107.3599041
812.00	0.96	354.52	811.96	-2.13	-1.26	2,130,761.42	175,258.07	36.8506841	-107.3599043
873.00	1.06	359.86	872.95	-1.06	-1.31	2,130,762.49	175,258.03	36.8506871	-107.3599045
933.00	1.15	358.64	932.94	0.10	-1.32	2,130,763.65	175,258.03	36.8506902	-107.3599046
993.00	1.34	359.26	992.92	1.40	-1.34	2,130,764.95	175,258.02	36.8506938	-107.3599046



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Rosa Unit #77C
Project:	Rio Arriba County, NM NAD27	TVD Reference:	GL 6504' & RKB 14' @ 6517.99usft (Aztec 920)
Site:	Rosa Unit #77C	MD Reference:	GL 6504' & RKB 14' @ 6517.99usft (Aztec 920)
Well:	Rosa Unit #77C	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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
1,054.00	1.23	1.82	1,053.91	2.77	-1.33	2,130,766.32	175,258.05	36.8506976	-107.3599046
1,114.00	1.25	12.80	1,113.89	4.05	-1.17	2,130,767.60	175,258.23	36.8507011	-107.3599040
1,175.00	1.19	10.58	1,174.88	5.32	-0.90	2,130,768.87	175,258.51	36.8507046	-107.3599031
1,236.00	1.34	1.30	1,235.86	6.66	-0.77	2,130,770.20	175,258.65	36.8507083	-107.3599027
1,296.00	1.12	8.28	1,295.85	7.94	-0.67	2,130,771.48	175,258.77	36.8507118	-107.3599023
1,357.00	1.39	2.09	1,356.84	9.27	-0.56	2,130,772.81	175,258.90	36.8507154	-107.3599020
1,418.00	1.36	4.03	1,417.82	10.73	-0.48	2,130,774.27	175,258.99	36.8507194	-107.3599017
1,479.00	1.24	355.00	1,478.80	12.11	-0.49	2,130,775.65	175,259.00	36.8507232	-107.3599017
1,540.00	1.06	3.81	1,539.79	13.33	-0.51	2,130,776.87	175,259.00	36.8507266	-107.3599018
1,600.00	1.05	345.75	1,599.78	14.42	-0.61	2,130,777.96	175,258.91	36.8507296	-107.3599021
1,661.00	1.11	346.24	1,660.77	15.53	-0.88	2,130,779.08	175,258.65	36.8507326	-107.3599031
1,722.00	1.21	350.78	1,721.76	16.74	-1.13	2,130,780.29	175,258.42	36.8507360	-107.3599039
1,781.00	1.01	5.38	1,780.75	17.88	-1.18	2,130,781.42	175,258.38	36.8507391	-107.3599041
1,842.00	1.47	359.18	1,841.73	19.19	-1.14	2,130,782.74	175,258.43	36.8507427	-107.3599039
1,904.00	1.31	349.82	1,903.71	20.69	-1.28	2,130,784.23	175,258.31	36.8507468	-107.3599044
1,967.00	1.26	345.81	1,966.70	22.07	-1.57	2,130,785.62	175,258.03	36.8507506	-107.3599054
2,031.00	1.15	353.26	2,030.68	23.39	-1.82	2,130,786.94	175,257.80	36.8507542	-107.3599063
2,094.00	1.38	334.99	2,093.67	24.70	-2.22	2,130,788.26	175,257.42	36.8507578	-107.3599076
2,158.00	1.41	326.99	2,157.65	26.06	-2.97	2,130,789.63	175,256.68	36.8507615	-107.3599102
2,221.00	0.98	358.72	2,220.64	27.25	-3.40	2,130,790.82	175,256.26	36.8507648	-107.3599117
2,284.00	1.40	9.77	2,283.62	28.55	-3.29	2,130,792.12	175,256.39	36.8507684	-107.3599113
2,347.00	1.27	4.49	2,346.61	30.00	-3.10	2,130,793.57	175,256.60	36.8507724	-107.3599106
2,410.00	0.99	359.77	2,409.59	31.24	-3.05	2,130,794.81	175,256.66	36.8507758	-107.3599105
2,474.00	1.06	359.51	2,473.58	32.39	-3.06	2,130,795.95	175,256.67	36.8507789	-107.3599105
2,538.00	1.06	357.66	2,537.57	33.57	-3.09	2,130,797.14	175,256.65	36.8507822	-107.3599106
2,601.00	1.08	356.56	2,600.56	34.74	-3.14	2,130,798.31	175,256.61	36.8507854	-107.3599108
2,664.00	1.05	342.24	2,663.55	35.89	-3.36	2,130,799.46	175,256.41	36.8507885	-107.3599115
2,728.00	1.37	5.35	2,727.54	37.21	-3.46	2,130,800.78	175,256.32	36.8507922	-107.3599119
2,791.00	1.44	11.88	2,790.52	38.73	-3.23	2,130,802.30	175,256.57	36.8507963	-107.3599111
2,854.00	1.37	9.38	2,853.50	40.25	-2.94	2,130,803.81	175,256.87	36.8508005	-107.3599101
2,917.00	1.07	16.32	2,916.48	41.56	-2.66	2,130,805.12	175,257.17	36.8508041	-107.3599091
2,980.00	0.95	20.48	2,979.47	42.61	-2.31	2,130,806.17	175,257.53	36.8508070	-107.3599079
3,043.00	1.15	20.54	3,042.46	43.69	-1.90	2,130,807.24	175,257.95	36.8508100	-107.3599066
3,106.00	1.15	13.81	3,105.45	44.90	-1.53	2,130,808.45	175,258.34	36.8508133	-107.3599053
3,169.00	1.02	23.58	3,168.44	46.03	-1.16	2,130,809.57	175,258.73	36.8508164	-107.3599040
3,232.00	0.88	16.98	3,231.43	47.00	-0.79	2,130,810.54	175,259.10	36.8508191	-107.3599027
3,296.00	0.94	25.09	3,295.42	47.95	-0.42	2,130,811.48	175,259.48	36.8508217	-107.3599015
3,359.00	0.69	31.37	3,358.42	48.74	-0.01	2,130,812.27	175,259.91	36.8508238	-107.3599001
3,423.00	0.82	15.05	3,422.41	49.51	0.31	2,130,813.04	175,260.24	36.8508260	-107.3598990
3,486.00	0.62	5.03	3,485.41	50.29	0.46	2,130,813.81	175,260.39	36.8508281	-107.3598985
3,549.00	0.63	3.24	3,548.40	50.97	0.51	2,130,814.50	175,260.45	36.8508300	-107.3598983
3,611.00	0.74	16.94	3,610.40	51.69	0.64	2,130,815.22	175,260.59	36.8508320	-107.3598978
3,675.00	0.65	30.93	3,674.39	52.40	0.95	2,130,815.92	175,260.91	36.8508339	-107.3598968
3,739.00	0.51	26.29	3,738.39	52.97	1.26	2,130,816.48	175,261.23	36.8508355	-107.3598957
3,764.00	0.50	28.10	3,763.39	53.16	1.36	2,130,816.68	175,261.33	36.8508360	-107.3598954
Last SDI Surface MWD Survey									
3,816.00	0.50	28.10	3,815.39	53.56	1.58	2,130,817.08	175,261.55	36.8508371	-107.3598947
7" Casing @ 3816' MD - 36.8508371 / -107.3598946									
3,820.00	0.50	28.10	3,819.39	53.59	1.59	2,130,817.11	175,261.57	36.8508372	-107.3598946
Projection to TD									



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Rosa Unit #77C
Project:	Rio Arriba County, NM NAD27	TVD Reference:	GL 6504' & RKB 14' @ 6517.99usft (Aztec 920)
Site:	Rosa Unit #77C	MD Reference:	GL 6504' & RKB 14' @ 6517.99usft (Aztec 920)
Well:	Rosa Unit #77C	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
447.00	446.97	-3.79	-1.66	First SDI Surface MWD Survey
3,764.00	3,763.39	53.16	1.36	Last SDI Surface MWD Survey
3,816.00	3,815.39	53.56	1.58	7" Casing @ 3816' MD
3,816.00	3,815.39	53.56	1.58	36.8508371 / -107.3598946
3,820.00	3,819.39	53.59	1.59	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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