

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

District II
811 S. First Street, Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 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"

RCVD JUN 12 '12

OIL CONS. DIV.

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-27699		*Pool Code 71629		*Pool Name BASIN FRUITLAND COAL	
*Property Code 17033		*Property Name ROSA UNIT			*Well Number 209A
*OGRID No. 120782		*Operator Name WPX ENERGY PRODUCTION			*Elevation 6310'

¹⁰ Surface Location

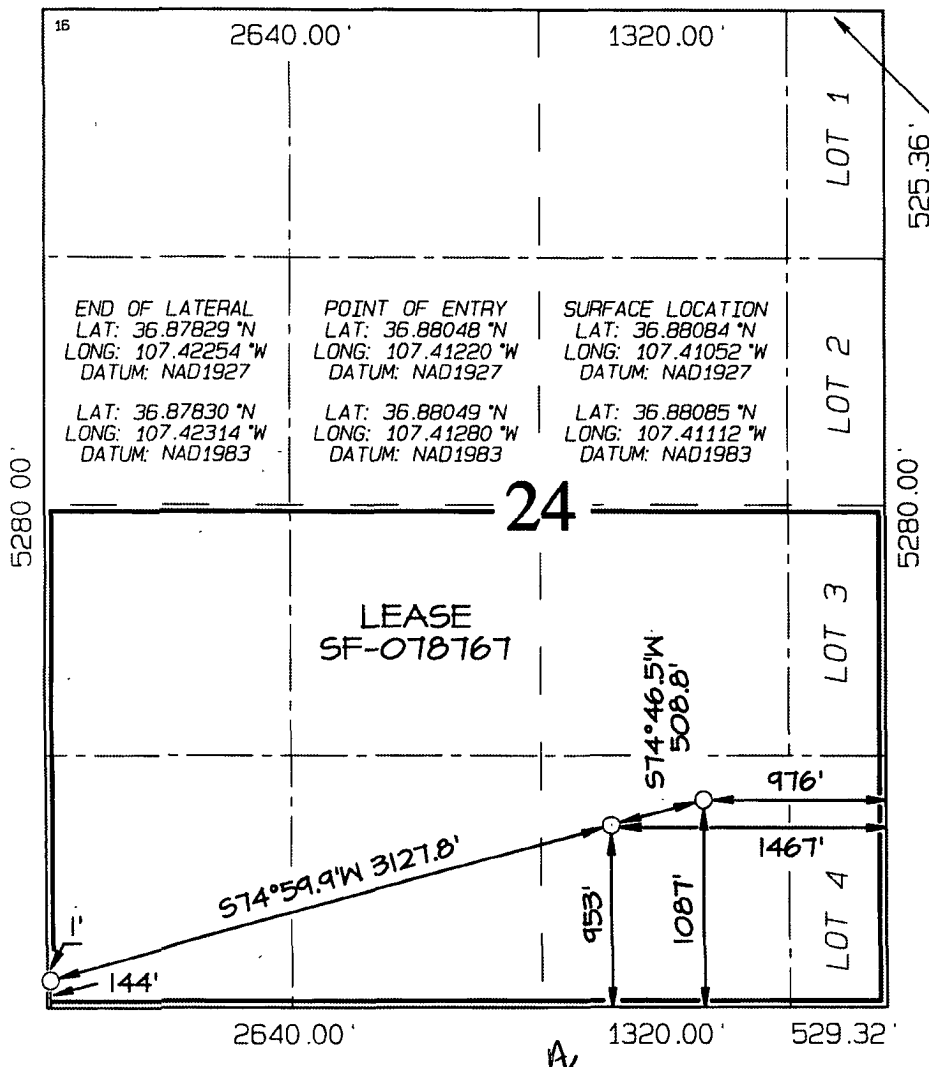
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	24	31N	6W		1087	SOUTH	976	EAST	RIO ARriba

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
M	24	31N	6W		144	SOUTH	1	WEST	RIO ARriba

¹² Dedicated Acres 272.90 Acre - S/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No R-13491/31571.92 acre
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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



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: *Larry Higgins* Date: 6/4/12

Printed Name: Larry Higgins

E-mail Address: larry.higgins@wpxenergy.com

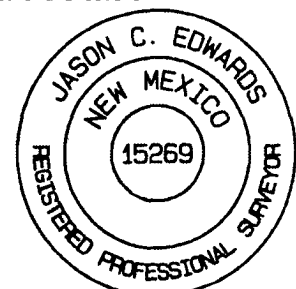
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

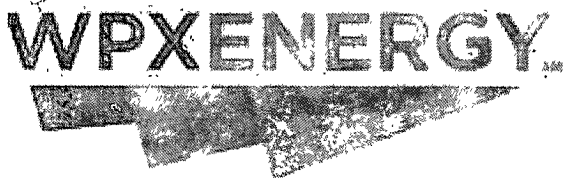
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: JUNE 1, 2012
Survey Date: JANUARY 15, 2004

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



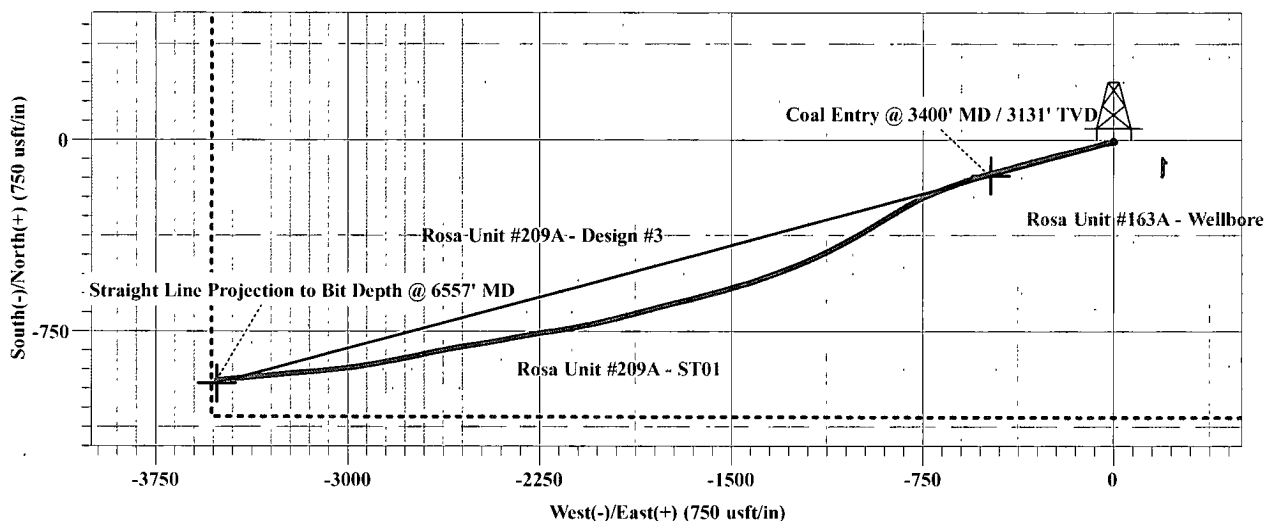
Rosa Unit #209A
ST01
Sec 24 T31N R06W
Rio Arriba Co., NM

PATHFINDER
A Schlumberger Company

GL: 6310' / KB: 14'

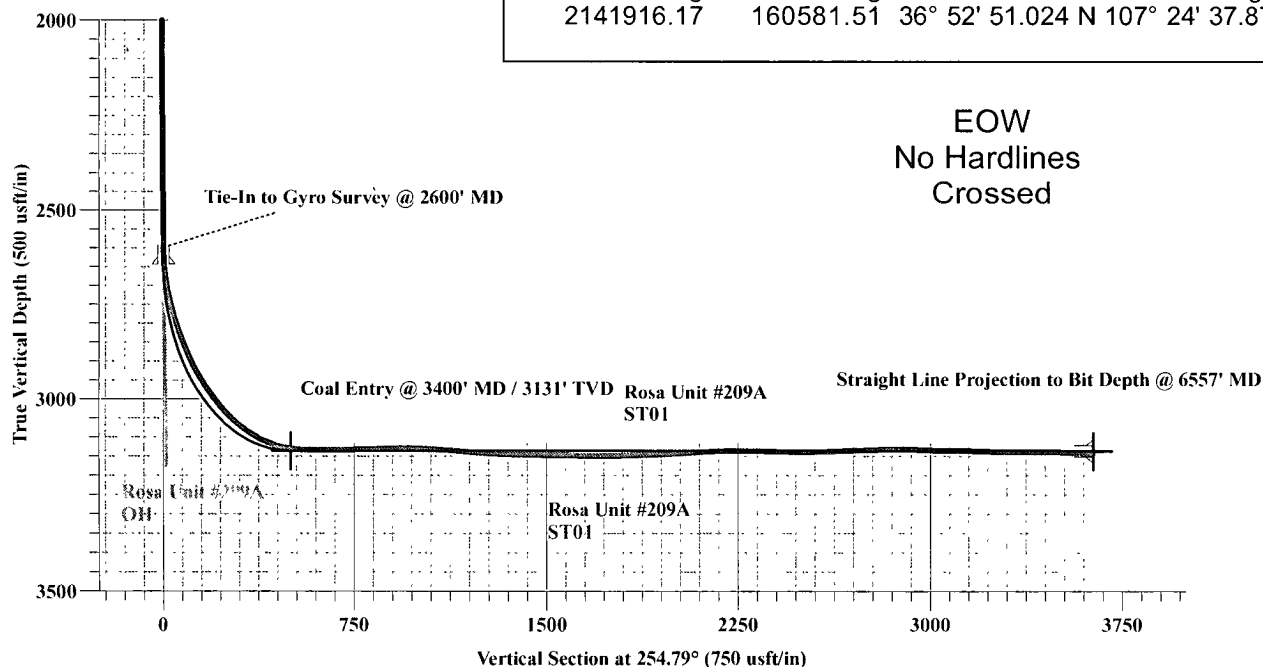
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Land - 209A	3137.0	-139.8	-481.1	2141782.23	160098.74	Point
TD - 209A	3137.0	-954.4	-3511.6	2141004.50	157058.53	Point



WELL DETAILS: Rosa Unit #209A

	Ground Level: 6310.0			
Northing	Easting	Latitude	Longitude	
2141916.17	160581.51	36° 52' 51.024 N	107° 24' 37.872 W	



EOW
No Hardlines
Crossed

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
2600.0	0.56	245.99	2599.9	-9.8	0.4	0.00	0.00	2.1	
2644.0	0.61	249.36	2643.9	-10.0	0.0	0.14	36.23	2.6	
3421.5	90.00	254.95	3137.0	-139.8	-481.1	11.50	5.59	500.9	
6559.7	90.00	254.95	3137.0	-954.4	-3511.6	0.00	0.00	3639.0	TD - 209A

Plan: Design #3 (Rosa Unit #209A/ST01)

Created By: Breck Enoch Date: 21-May-2012

WPXENERGY

WPXEnergy

Rio Arriba Co., NM
Sec 24 T31N R06W
Rosa Unit #209A

ST01

Design: ST01

Standard Survey Report

21 May, 2012

PATHFINDER
A Schlumberger Company

Company:	WPXEnergy	Local Co-ordinate Reference:	Well Rosa Unit #209A
Project:	Rio Arriba Co., NM	TVD Reference:	WELL @ 6324 0usft (Original Well Elev)
Site:	Sec 24 T31N R06W	MD Reference:	WELL @ 6324 0usft (Original Well Elev)
Well:	Rosa Unit #209A	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000-1 Single User Db

Project: Rio Arriba Co., NM			
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	Sec 24 T31N R06W				
Site Position:		Northing:	2,141,916 17 usft	Latitude:	36° 52' 51 024 N
From:	Lat/Long	Easting:	160,581 51 usft	Longitude:	107° 24' 37 872 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0 70 °

Well:	Rosa Unit #209A					
Well Position	+N/-S	0 0 usft	Northing:	2,141,916 17 usft	Latitude:	36° 52' 51 024 N
	+E/-W	0 0 usft	Easting:	160,581 51 usft	Longitude:	107° 24' 37 872 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	6,310 0 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/07/12	9 67	63 63	50,791

Design	ST01				
Audit Notes:					
Version:	1 0	Phase:	ACTUAL	Tie On Depth:	2,600 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0 0	0 0	0 0	254 79	

Survey Program		Date	05/21/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200 0	2,600 0	Survey #1 (OH)	MWD	MWD - Standard	
2,709 0	6,557 0	Survey #1 (ST01)	MWD	MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0 00	0 00	0 0	0 0	0 0	0 0	0 00	0 00	0 00
200 0	0 08	308 85	200 0	0 1	-0 1	0 1	0 04	0 04	0 00
400 0	0 44	101 74	400 0	0 0	0 5	-0 5	0 26	0 18	76 45
600 0	0 64	138 12	600 0	-1 0	2 0	-1 7	0 19	0 10	18 19
800 0	0 59	153 94	800 0	-2 7	3 2	-2 4	0 09	-0 03	7 91
1,000 0	0 39	157 56	1,000 0	-4 3	3 9	-2 7	0 10	-0 10	1 81
1,200 0	0 41	132 60	1,200 0	-5 4	4 7	-3 1	0 09	0 01	-12 48
1,400 0	0 39	156 83	1,400 0	-6 5	5 5	-3 6	0 08	-0 01	12 12
1,600 0	0 25	161 98	1,600 0	-7 5	5 9	-3 7	0 07	-0 07	2 58
1,800 0	0 18	89 32	1,800 0	-8 0	6 4	-4 1	0 13	-0 04	-36 33

Company:	WPX Energy	Local Co-ordinate Reference:	Well Rosa Unit #209A
Project:	Rio Arriba Co. NM	TVD Reference:	WELL @ 6324 0usft (Original Well Elev.)
Site:	Sec 24 T31N R06W	MD Reference:	WELL @ 6324 0usft (Original Well Elev.)
Well:	Rosa Unit #209A	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000 1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,000 0	0 06	223 54	2,000 0	-8 0	6 6	-4 3	0 11	-0 06	67 11
2,200 0	0 58	259 96	2,200 0	-8 3	5 5	-3 2	0 27	0 26	18 21
2,400 0	0 96	253 34	2,399 9	-8 9	2 9	-0 5	0 19	0 19	-3 31
2,600 0	0 56	245 99	2,599 9	-9 8	0 4	2 1	0 21	-0 20	-3 68
2,709 0	15 04	265 74	2,707 6	-11 1	-14 2	16 6	13 32	13 28	18 12
2,740 0	19 70	260 87	2,737 2	-12 2	-23 4	25 8	15 73	15 03	-15 71
2,772 0	23 65	256 79	2,766 9	-14 5	-35 0	37 6	13 20	12 34	-12 75
2,803 0	24 80	256 11	2,795 2	-17 5	-47 3	50 3	3 82	3 71	-2 19
2,835 0	26 38	255 09	2,824 1	-21 0	-60 7	64 1	5 13	4 94	-3 19
2,867 0	30 07	254 69	2,852 3	-24 9	-75 3	79 2	11 55	11 53	-1 25
2,899 0	34 03	255 54	2,879 4	-29 3	-91 7	96 2	12 45	12 38	2 66
2,930 0	36 58	255 02	2,904 7	-33 8	-109 1	114 1	8 28	8 23	-1 68
2,962 0	39 57	255 44	2,929 9	-38 8	-128 1	133 9	9 38	9 34	1 31
2,994 0	42 82	256 83	2,953 9	-43 9	-148 6	154 9	10 55	10 16	4 34
3,025 0	45 11	257 07	2,976 2	-48 7	-169 6	176 4	7 41	7 39	0 77
3,057 0	47 40	256 30	2,998 4	-54 1	-192 1	199 5	7 36	7 16	-2 41
3,088 0	51 70	256 16	3,018 5	-59 7	-215 0	223 1	13 88	13 87	-0 45
3,120 0	55 31	256 28	3,037 5	-65 8	-240 0	248 8	11 29	11 28	0 38
3,152 0	57 95	256 44	3,055 1	-72 1	-265 9	275 5	8 26	8 25	0 50
3,183 0	60 59	255 03	3,070 9	-78 7	-291 7	302 2	9 37	8 52	-4 55
3,214 0	64 98	254 42	3,085 1	-85 9	-318 3	329 7	14 27	14 16	-1 97
3,246 0	68 15	254 00	3,097 8	-93 9	-346 6	359 1	9 98	9 91	-1 31
3,278 0	72 55	254 55	3,108 6	-102 1	-375 6	389 2	13 84	13 75	1 72
3,310 0	76 59	254 92	3,117 1	-110 2	-405 3	420 1	12 67	12 63	1 16
3,342 0	79 14	255 09	3,123 8	-118 3	-435 5	451 3	7 99	7 97	0 53
3,373 0	81 87	254 87	3,129 0	-126 2	-465 1	481 9	8 83	8 81	-0 71
3,400 0	85 57	253 40	3,131 9	-133 6	-490 9	508 7	14 75	13 72	-5 44
Coal Entry @ 3400 MD / 3131 TVD									
3,405 0	86 26	253 13	3,132 3	-135 0	-495 7	513 7	14 75	13 73	-5 40
3,437 0	88 99	253 15	3,133 6	-144 3	-526 3	545 7	8 53	8 53	0 06
3,469 0	89 96	251 38	3,133 9	-154 0	-556 7	577 6	6 31	3 03	-5 53
3,527 0	89 78	250 63	3,134 0	-172 9	-611 6	635 5	1 33	-0 31	-1 29
3,591 0	90 04	249 63	3,134 1	-194 7	-671 8	699 3	1 61	0 41	-1 56
3,654 0	91 28	246 72	3,133 4	-218 1	-730 2	761 9	5 02	1 97	-4 62
3,717 0	90 57	240 75	3,132 4	-245 9	-786 7	823 7	9 54	-1 13	-9 48
3,781 0	93 12	238 46	3,130 3	-278 3	-841 9	885 4	5 35	3 98	-3 58
3,844 0	88 81	238 81	3,129 3	-311 1	-895 6	945 9	6 86	-6 84	0 56
3,908 0	88 11	238 96	3,131 0	-344 1	-950 4	1,007 4	1 12	-1 09	0 23
3,972 0	88 02	240 73	3,133 1	-376 3	-1,005 7	1,069 2	2 77	-0 14	2 77
4,036 0	87 32	241 54	3,135 7	-407 1	-1,061 7	1,131 3	1 67	-1 09	1 27
4,099 0	86 70	244 36	3,139 0	-435 7	-1,117 7	1,192 9	4 58	-0 98	4 48
4,162 0	87 49	245 30	3,142 2	-462 5	-1,174 7	1,254 9	1 95	1 25	1 49
4,226 0	88 37	247 45	3,144 5	-488 1	-1,233 3	1,318 1	3 63	1 38	3 36

Company:	WPX Energy	Local Co-ordinate Reference:	Well: Rosa Unit #209A
Project:	Rio Arriba Co. NM	TVD Reference:	WELL @ 6324 0usft (Original Well Elev)
Site:	Sec.24 T31N R06W	MD Reference:	WELL @ 6324 0usft (Original Well Elev)
Well:	Rosa Unit #209A	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000 1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,290 0	88 29	248 84	3,146 4	-511 9	-1,292 7	1,381 7	2 17	-0 13	2 17	
4,353 0	89 87	251 88	3,147 4	-533 1	-1,352 0	1,444 5	5 44	2 51	4 83	
4,416 0	89 69	252 32	3,147 6	-552 5	-1,411 9	1,507 4	0 75	-0 29	0 70	
4,480 0	89 25	252 93	3,148 2	-571 6	-1,473 0	1,571 4	1 18	-0 69	0 95	
4,544 0	89 34	254 12	3,149 0	-589 7	-1,534 4	1,635 3	1 86	0 14	1 86	
4,607 0	89 87	254 30	3,149 5	-606 9	-1,595 0	1,698 3	0 89	0 84	0 29	
4,670 0	89 87	255 02	3,149 6	-623 5	-1,655 7	1,761 3	1 14	0 00	1 14	
4,733 0	91 45	256 46	3,148 9	-639 1	-1,716 8	1,824 3	3 39	2 51	2 29	
4,796 0	91 10	256 47	3,147 5	-653 8	-1,778 0	1,887 3	0 56	-0 56	0 02	
4,859 0	91 71	254 97	3,145 9	-669 3	-1,839 1	1,950 2	2 57	0 97	-2 38	
4,923 0	92 77	254 70	3,143 4	-686 1	-1,900 8	2,014 2	1 71	1 66	-0 42	
4,986 0	92 07	255 41	3,140 8	-702 3	-1,961 6	2,077 1	1 58	-1 11	1 13	
5,049 0	92 42	257 98	3,138 3	-716 8	-2,022 9	2,140 0	4 11	0 56	4 08	
5,112 0	90 57	260 12	3,136 7	-728 7	-2,084 7	2,202 8	4 49	-2 94	3 40	
5,175 0	89 16	259 47	3,136 8	-739 9	-2,146 7	2,265 6	2 46	-2 24	-1 03	
5,238 0	90 22	261 59	3,137 1	-750 3	-2,208 8	2,328 3	3 76	1 68	3 37	
5,302 0	88 11	260 05	3,138 1	-760 5	-2,272 0	2,391 9	4 08	-3 30	-2 41	
5,366 0	90 22	258 76	3,139 0	-772 2	-2,334 9	2,455 7	3 86	3 30	-2 02	
5,429 0	89 78	259 44	3,139 0	-784 2	-2,396 7	2,518 5	1 29	-0 70	1 08	
5,493 0	91 10	260 98	3,138 5	-795 0	-2,459 8	2,582 2	3 17	2 06	2 41	
5,556 0	91 89	260 83	3,136 9	-805 0	-2,522 0	2,644 8	1 28	1 25	-0 24	
5,620 0	90 48	259 22	3,135 6	-816 1	-2,585 0	2,708 6	3 34	-2 20	-2 52	
5,684 0	91 01	258 01	3,134 7	-828 7	-2,647 7	2,772 4	2 06	0 83	-1 89	
5,747 0	92 42	257 93	3,132 8	-841 8	-2,709 3	2,835 3	2 24	2 24	-0 13	
5,810 0	88 72	259 40	3,132 2	-854 2	-2,771 1	2,898 1	6 32	-5 87	2 33	
5,874 0	87 58	258 79	3,134 3	-866 3	-2,833 9	2,961 9	2 02	-1 78	-0 95	
5,937 0	89 69	260 87	3,135 8	-877 4	-2,895 9	3,024 6	4 70	3 35	3 30	
6,001 0	90 84	261 47	3,135 5	-887 3	-2,959 1	3,088 2	2 03	1 80	0 94	
6,064 0	88 02	263 33	3,136 1	-895 6	-3,021 6	3,150 7	5 36	-4 48	2 95	
6,127 0	88 37	263 87	3,138 1	-902 6	-3,084 1	3,212 9	1 02	0 56	0 86	
6,191 0	89 25	264 48	3,139 4	-909 1	-3,147 8	3,276 0	1 67	1 38	0 95	
6,255 0	89 52	265 96	3,140 1	-914 4	-3,211 6	3,339 0	2 35	0 42	2 31	
6,320 0	90 75	264 46	3,140 0	-919 9	-3,276 3	3,402 9	2 98	1 89	-2 31	
6,382 0	90 04	264 49	3,139 5	-925 8	-3,338 0	3,464 0	1 15	-1 15	0 05	
6,446 0	88 81	264 11	3,140 2	-932 2	-3,401 7	3,527 1	2 01	-1 92	-0 59	
6,497 0	88 46	264 35	3,141 4	-937 3	-3,452 4	3,577 4	0 83	-0 69	0 47	
6,557 0	88 46	264 35	3,143 0	-943 2	-3,512 1	3,636 6	0 00	0 00	0 00	

Straight Line Projection to Bit Depth @ 6557' MD

Company:	WPXEnergy	Local Co-ordinate Reference:	Well: Rosa Unit #209A
Project:	Rio Arriba Co, NM	TVD Reference:	WELL @ 6324'0usft (Original Well Elev)
Site:	Sec 24 T31N R06W	MD Reference:	WELL @ 6324'0usft (Original Well Elev)
Well:	Rosa Unit #209A	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000 1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,400 0	3,131 9	-133 6	-490 9	Coal Entry @ 3400' MD / 3131' TVD
6,557 0	3,143 0	-943 2	-3,512 1	Straight Line Projection to Bit Depth @ 6557' MD

Checked By: _____ Approved By: _____ Date: _____