

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"

RCVD JUN 14 '12
OIL CONS. DIV.

WELL LOCATION AND ACREAGE DEDICATION PLAT

DIST. 3

*API Number 30-039-27422		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 215A
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION		*Elevation 6428'

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
E	26	31N	6W		2631	NORTH	1150	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

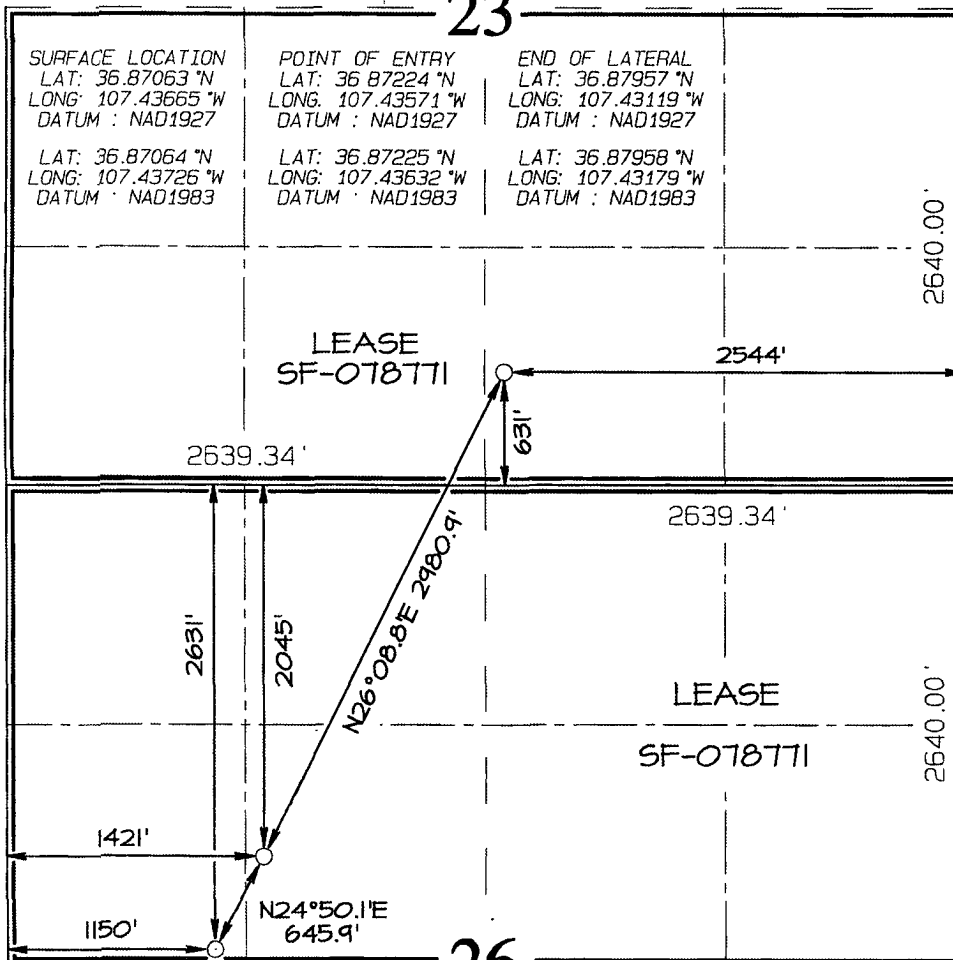
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	31N	6W		625	SOUTH	2532	EAST	RIO ARriba

¹² Dedicated Acres 640.0 Acres	S/2 - Section 23 N/2 - Section 26	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No R-13491 31,571.92 Acres
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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

¹⁶

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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: 6-14-12

Printed Name: Larry Higgins

E-mail Address: larry.higgins@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: JUNE 14, 2012
Date of Survey: MARCH 12, 2003

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

AV



Rosa Unit 215A
ST01
Sec 26 T31N R06W
Rio Arriba Co., NM

PATHFINDER
A Schlumberger Company

GE: 6428' / KB: 14'

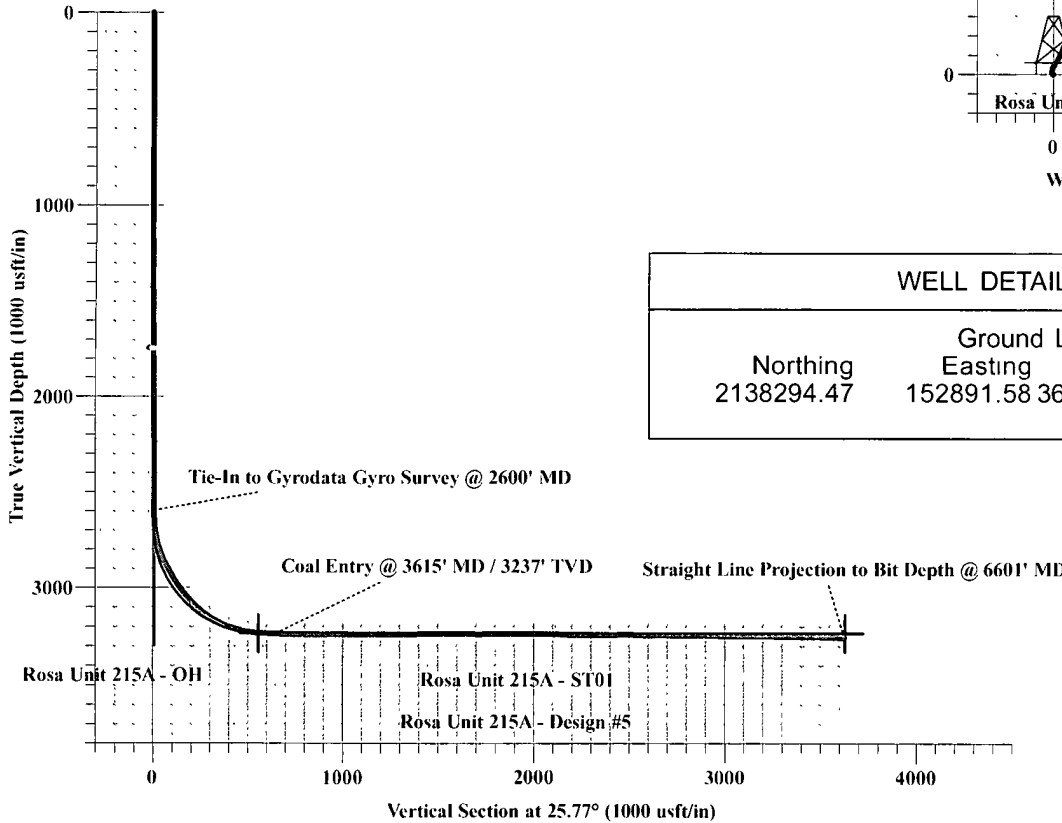
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL 215A	3236.0	3268.2	1577.8	2141542.78	154509.88	Point
Land 215A	3236.0	508.3	221.9	2138799.97	153119.78	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2615.0	2615.1	Kirtland
3000.0	3019.9	Fruitland
3235.0	3516.3	Top Target

EOW
No Hardlines
Crossed



WELL DETAILS: Rosa Unit 215A

Ground Level: 6428.0			
Northing	Easting	Latitude	Longitude
2138294.47	152891.58	36° 52' 14.282 N	107° 26' 11.954 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSECT	Target
2600.0	0.52	313.24	2599.9	13.1	-10.1	0.00	0.00	7.4	
2690.1	0.55	302.50	2690.0	13.7	-10.8	0.12	-78.76	7.6	
3548.0	90.00	26.10	3235.9	506.7	225.0	10.48	83.60	554.2	
6623.0	90.00	26.10	3236.0	3268.2	1577.8	0.00	0.00	3629.1	BHL 215A

Plan: Design #5 (Rosa Unit 215A/ST01)

Created By: Breck Enoch

Date: 12-Jun-2012

WPXENERGY

WPXEnergy

Rio Arriba Co., NM
Sec 26 T31N R06W
Rosa Unit 215A

ST01

Design: ST01

Standard Survey Report

12 June, 2012

PATHFINDER
A Schlumberger Company



Pathfinder Survey Report

PATHFINDER
A Schlumberger Company

Company:	WPXEnergy	Local Co-ordinate Reference:	Well Rosa Unit 215A
Project:	Rio Arriba Co - NM	TVD Reference:	WELL @ 6442 0usft (New RKB)
Site:	Sec 26 T31N R06W	MD Reference:	WELL @ 6442 0usft (New RKB)
Well:	Rosa Unit 215A	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 26 T31N R06W			
Site Position:		Northing:	2,138,294.47 usft	Latitude:	36° 52' 14.282 N
From:	Lat/Long	Easting:	152,891.58 usft	Longitude:	107° 26' 11.954 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.71 °

Well	Rosa Unit 215A					
Well Position	+N/-S	0 0 usft	Northing:	2,138,294 47 usft	Latitude:	36° 52' 14 282 N
	+E/-W	0 0 usft	Easting:	152,891 58 usft	Longitude:	107° 26' 11 954 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	6,428 0 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/11/12	9.67	63.62	50,771

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	25.77	

Survey Program		Date	06/12/12		
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
200 0	2,600 0	Survey #1 (OH)	MWD	MWD - Standard	
2,758 0	6,541 0	Survey #1 (ST01)	MWD	MWD - Standard	
6,601 0	6,601 0	Survey #2 (ST01)	MWD	MWD - Standard	

Survey:									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.11	96.37	200.0	0.0	0.2	0.1	0.06	0.06	0.00
400.0	0.16	72.29	400.0	0.0	0.6	0.3	0.04	0.03	-12.04
600.0	0.45	237.41	600.0	-0.3	0.3	-0.2	0.30	0.15	82.56
800.0	0.52	276.49	800.0	-0.6	-1.3	-1.1	0.17	0.04	19.54
1,000.0	0.34	277.82	1,000.0	-0.4	-2.8	-1.6	0.09	-0.09	0.67
1,200.0	0.37	359.99	1,200.0	0.3	-3.4	-1.2	0.23	0.02	41.09
1,400.0	0.60	344.00	1,400.0	1.9	-3.7	0.2	0.13	0.12	-8.00
1,600.0	0.79	10.30	1,600.0	4.3	-3.7	2.3	0.18	0.10	13.15

Company:	WPXEnergy	Local Co-ordinate Reference:	Well Rosa Unit 215A
Project:	Rio Arriba Co., NM	TVD Reference:	WELL @ 6442 0usft (New RKB)
Site:	Sec 26 T31N R06W	MD Reference:	WELL @ 6442 0usft (New RKB)
Well:	Rosa Unit 215A	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)	
1,800.0	0.87	328.96	1,799.9	7.0	-4.3	4.4	0.30	0.04	-20.67	
2,000.0	0.85	329.76	1,999.9	9.5	-5.8	6.1	0.01	-0.01	0.40	
2,200.0	0.49	301.16	2,199.9	11.3	-7.3	7.0	0.24	-0.18	-14.30	
2,400.0	0.48	298.87	2,399.9	12.1	-8.7	7.1	0.01	-0.01	-1.15	
2,600.0	0.52	313.24	2,599.9	13.1	-10.1	7.4	0.07	0.02	7.19	
Tie-In to Gyrodata Gyro Survey @ 2600' MD										
2,758.0	12.49	9.83	2,756.6	30.5	-7.7	24.1	7.73	7.58	35.82	
2,790.0	16.62	19.16	2,787.6	38.3	-5.6	32.0	14.80	12.91	29.16	
2,821.0	20.58	32.27	2,817.0	47.1	-1.3	41.8	18.50	12.77	42.29	
2,853.0	23.13	35.28	2,846.7	57.0	5.4	53.6	8.70	7.97	9.41	
2,884.0	26.20	34.06	2,874.8	67.6	12.7	66.4	10.04	9.90	-3.94	
2,916.0	29.28	32.07	2,903.2	80.1	20.8	81.2	10.05	9.63	-6.22	
2,948.0	29.81	30.37	2,931.0	93.6	29.0	96.9	3.10	1.66	-5.31	
2,979.0	31.04	28.20	2,957.7	107.3	36.7	112.6	5.32	3.97	-7.00	
3,011.0	32.54	25.72	2,984.9	122.3	44.3	129.4	6.22	4.69	-7.75	
3,043.0	35.79	23.70	3,011.4	138.6	51.8	147.4	10.76	10.16	-6.31	
3,075.0	39.39	23.31	3,036.8	156.5	59.6	166.9	11.27	11.25	-1.22	
3,107.0	43.00	24.71	3,060.8	175.8	68.2	187.9	11.64	11.28	4.38	
3,138.0	45.29	25.58	3,083.1	195.3	77.4	209.5	7.64	7.39	2.81	
3,170.0	47.92	26.78	3,105.1	216.2	87.6	232.8	8.66	8.22	3.75	
3,201.0	52.23	27.29	3,124.9	237.3	98.4	256.5	13.96	13.90	1.65	
3,233.0	54.78	27.40	3,144.0	260.2	110.2	282.2	7.97	7.97	0.34	
3,264.0	59.27	26.30	3,160.8	283.4	122.0	308.2	14.79	14.48	-3.55	
3,296.0	62.70	25.17	3,176.4	308.6	134.1	336.2	11.15	10.72	-3.53	
3,328.0	65.77	25.03	3,190.3	334.7	146.3	365.0	9.60	9.59	-0.44	
3,359.0	70.61	25.24	3,201.8	360.7	158.6	393.8	15.63	15.61	0.68	
3,391.0	72.98	25.96	3,211.8	388.2	171.7	424.2	7.71	7.41	2.25	
3,423.0	77.12	26.50	3,220.0	415.9	185.4	455.1	13.04	12.94	1.69	
3,455.0	79.32	26.97	3,226.6	443.9	199.5	486.4	7.02	6.88	1.47	
3,487.0	84.15	26.94	3,231.2	472.1	213.8	518.1	15.09	15.09	-0.09	
3,519.0	87.58	27.17	3,233.5	500.5	228.3	550.0	10.74	10.72	0.72	
3,551.0	88.02	27.01	3,234.7	529.0	242.9	582.0	1.46	1.38	-0.50	
3,599.0	86.44	26.12	3,237.0	571.8	264.3	629.9	3.78	-3.29	-1.85	
3,615.0	86.46	25.88	3,238.0	586.2	271.3	645.9	1.50	0.14	-1.49	
Coal Entry @ 3615' MD / 3237' TVD										
3,662.0	86.53	25.18	3,240.9	628.5	291.5	692.8	1.50	0.14	-1.49	
3,726.0	91.54	23.89	3,242.0	686.7	318.1	756.7	8.08	7.83	-2.02	
3,790.0	89.08	22.78	3,241.6	745.5	343.5	820.7	4.22	-3.84	-1.73	
3,854.0	91.28	22.04	3,241.4	804.6	367.9	884.5	3.63	3.44	-1.16	
3,917.0	90.66	25.56	3,240.4	862.3	393.3	947.5	5.67	-0.98	5.59	
3,980.0	89.96	25.47	3,240.0	919.1	420.4	1,010.5	1.12	-1.11	-0.14	
4,044.0	89.78	25.35	3,240.2	976.9	447.9	1,074.5	0.34	-0.28	-0.19	
4,107.0	89.08	26.26	3,240.8	1,033.6	475.3	1,137.5	1.82	-1.11	1.44	

Company:	WPXEnergy	Local Co-ordinate Reference:	Well Rosa Unit 215A
Project:	Rio Arriba Co. NM	TVD Reference:	WELL @ 6442 0usft (New RKB)
Site:	Sec 26 T31N R06W	MD Reference:	WELL @ 6442 0usft (New RKB)
Well:	Rosa Unit 215A	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)	
4,171 0	89 87	25 96	3,241 4	1,091 1	503 5	1,201 5	1 32	1 23	-0 47	
4,235 0	90 92	25 43	3,240 9	1,148 8	531 2	1,265 5	1 84	1 64	-0 83	
4,299 0	89 60	24 23	3,240 6	1,206 9	558 1	1,329 5	2 79	-2 06	-1 88	
4,362 0	90 57	24 24	3,240 5	1,264 3	583 9	1,392 4	1 54	1 54	0 02	
4,424 0	91 01	24 21	3,239 7	1,320 8	609 4	1,454 4	0 71	0 71	-0 05	
4,488 0	91 89	23 16	3,238 1	1,379 4	635 1	1,518 3	2 14	1 38	-1 64	
4,552 0	89 60	22 77	3,237 2	1,438 4	660 0	1,582 3	3 63	-3 58	-0 61	
4,616 0	87 76	22 11	3,238 7	1,497 5	684 5	1,646 1	3 05	-2 88	-1 03	
4,679 0	88 81	21 59	3,240 6	1,555 9	707 9	1,709 0	1 86	1 67	-0 83	
4,742 0	92 42	20 51	3,239 9	1,614 7	730 5	1,771.7	5 98	5 73	-1 71	
4,805 0	91 89	20 51	3,237 6	1,673 7	752 6	1,834 4	0 84	-0 84	0 00	
4,868 0	88 29	20 37	3,237 5	1,732 7	774 6	1,897 1	5 72	-5 71	-0 22	
4,932 0	89 69	20 64	3,238 6	1,792 6	797 0	1,960 9	2 23	2 19	0 42	
4,995 0	89 25	23 61	3,239 2	1,851 0	820 7	2,023 7	4 77	-0 70	4 71	
5,058 0	90 13	26 36	3,239 5	1,908 1	847 3	2,086 7	4 58	1 40	4 37	
5,122 0	87 76	28 30	3,240 7	1,964 9	876 7	2,150 7	4 79	-3 70	3 03	
5,186 0	87 49	28 55	3,243 3	2,021 2	907 1	2,214 5	0 57	-0 42	0 39	
5,249 0	90 04	27 62	3,244 7	2,076 7	936 8	2,277 5	4 31	4 05	-1 48	
5,312 0	91 45	26 45	3,243 9	2,132 8	965 4	2,340 4	2 91	2 24	-1 86	
5,376 0	90 84	26 57	3,242 6	2,190 1	994 0	2,404 4	0 97	-0 95	0 19	
5,440 0	90 40	26 48	3,241 9	2,247 4	1,022 6	2,468 4	0 70	-0 69	-0 14	
5,504 0	88 55	26 02	3,242 5	2,304 7	1,050 9	2,532 4	2 98	-2 89	-0 72	
5,568 0	88 46	26 19	3,244 2	2,362 2	1,079 0	2,596 4	0 30	-0 14	0 27	
5,631 0	88 99	27 34	3,245 6	2,418 4	1,107 4	2,659 4	2 01	0 84	1 83	
5,694 0	90 48	28 64	3,245 9	2,474 1	1,136 9	2,722 3	3 14	2 37	2 06	
5,758 0	89 78	28 28	3,245 7	2,530 3	1,167 4	2,786 2	1 23	-1 09	-0 56	
5,821 0	90 66	27 69	3,245 5	2,586 0	1,197 0	2,849 2	1 68	1 40	-0 94	
5,885 0	88 64	28 50	3,245 9	2,642 4	1,227 1	2,913 1	3 40	-3 16	1 27	
5,948 0	87 49	27 74	3,248 0	2,697 9	1,256 8	2,976 0	2 19	-1 83	-1 21	
6,011 0	89 60	28 90	3,249 6	2,753 4	1,286 7	3,039 0	3 82	3.35	1 84	
6,075 0	89 96	29 45	3,249 8	2,809 3	1,317 9	3,102 8	1 03	0 56	0 86	
6,138 0	89 43	30 03	3,250 2	2,864 0	1,349 1	3,165 7	1 25	-0 84	0 92	
6,201 0	90 75	31 63	3,250 1	2,918 1	1,381 4	3,228 4	3 29	2 10	2 54	
6,265 0	89 25	31 95	3,250 1	2,972 5	1,415 1	3,292 1	2 40	-2 34	0 50	
6,327 0	88 72	32 94	3,251 2	3,024 8	1,448 4	3,353 6	1 81	-0 85	1 60	
6,391 0	89 16	32 20	3,252 3	3,078 7	1,482 8	3,417 2	1 35	0 69	-1 16	
6,454 0	87 85	31 23	3,254 0	3,132 3	1,516 0	3,479 8	2 59	-2 08	-1 54	
6,517 0	88 46	27 56	3,256 0	3,187 1	1,546 9	3,542 7	5 90	0 97	-5 83	
6,541 0	88 20	26 84	3,256 7	3,208 5	1,557 8	3,566 6	3 19	-1 08	-3 00	
6,601 0	88 20	26 84	3,258 6	3,262 0	1,584 9	3,626 6	0 00	0 00	0 00	
Straight Line Projection to Bit Depth @ 6601' MD										



Pathfinder
Survey Report



Company:	WPXEnergy	Local Co-ordinate Reference:	Well Rosa Unit 215A
Project:	Rio Arriba Co , NM	TVD Reference:	WELL @ 6442 0usft (New RKB)
Site:	Sec 26 T31N R06W	MD Reference:	WELL @ 6442 0usft (New RKB)
Well:	Rosa Unit 215A	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)	
2,600 0	2,599 9	13 1	-10 1	Tie-In to Gyrodata Gyro Survey @ 2600' MD
3,615 0	3,238 0	586 2	271 3	Coal Entry @ 3615' MD / 3237' TVD
6,601 0	3,258 6	3,262 0	1,584 9	Straight Line Projection to Bit Depth @ 6601' MD

Checked By: _____	Approved By: _____	Date: _____
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