

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 12 '12

OIL CONS. DIV.

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-29495		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 206A
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION		*Elevation 6297'

10 Surface Location

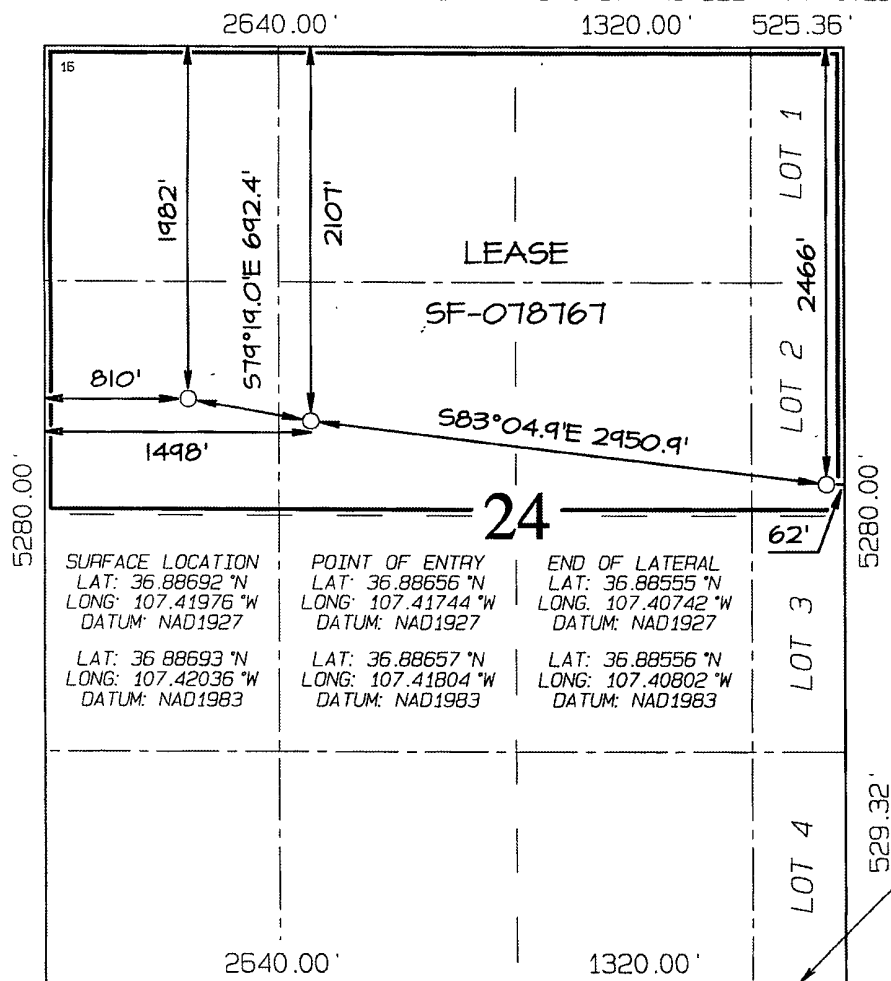
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	24	31N	6W		1982	NORTH	810	WEST	RIO ARriba

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
H	24	31N	6W		2466	NORTH	62	EAST	RIO ARriba

12 Dedicated Acres 271.90 Acres - N/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: 6/6/12

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 6, 2012
Survey Date: JANUARY 15, 2004

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Rosa Unit #206A
ST01
Sec 24 T31N R06W
Rio Arriba Co., NM

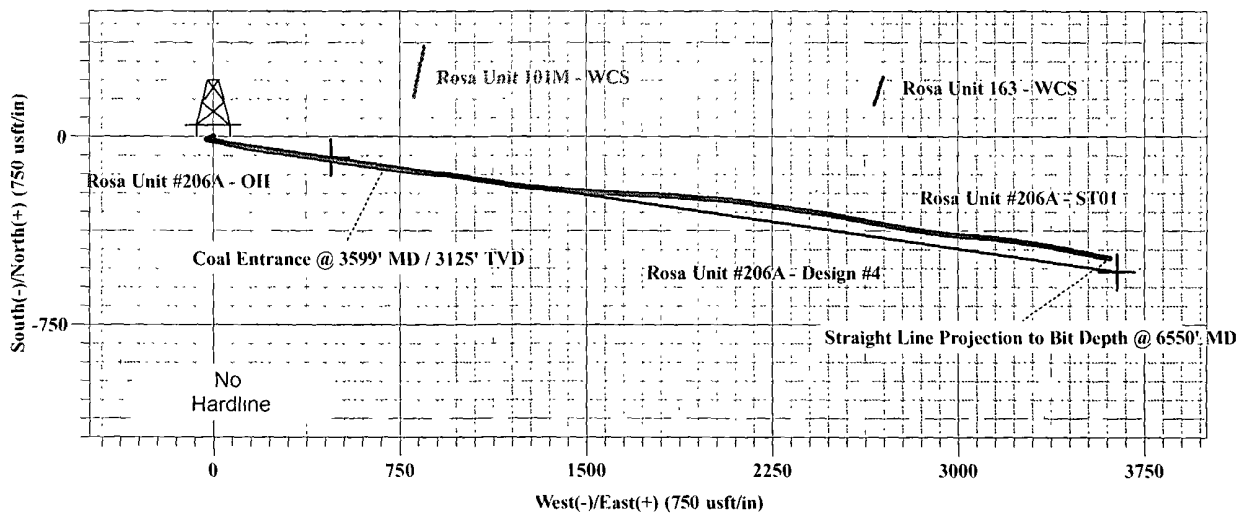
30-089-29495

PATHFINDER
A Schlumberger Company

GL: 6297' / KB: 14'

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

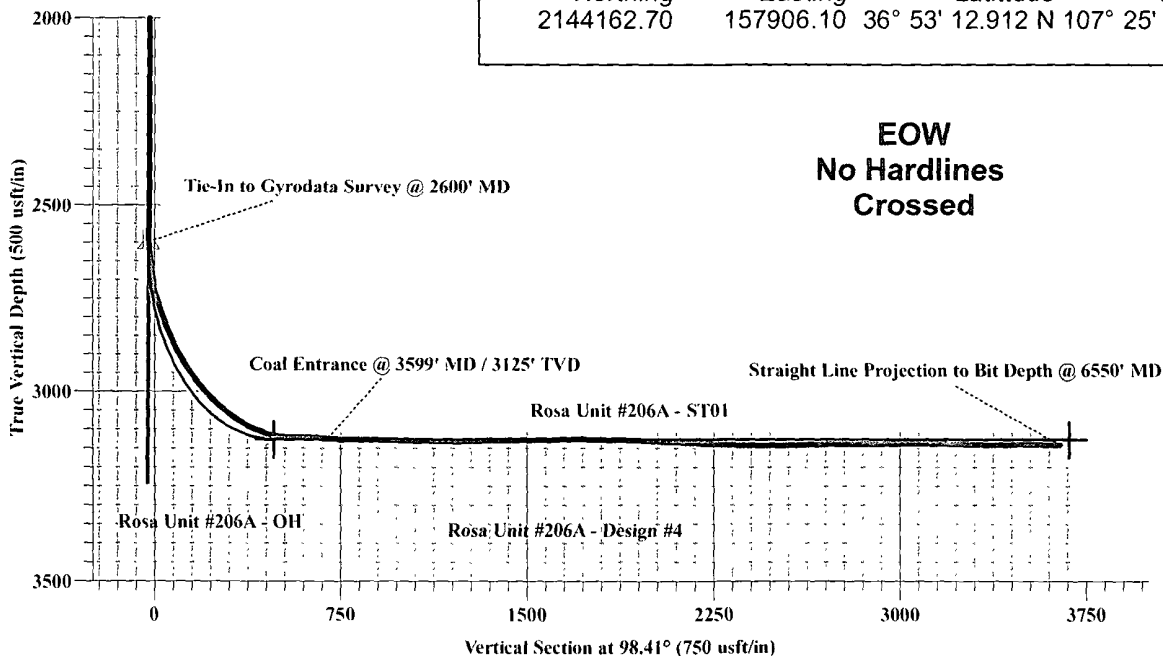
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Land 206A	3128.0	-84.7	474.6	2144072.19	158379.62	Point
TD - 206A	3128.0	-538.6	3641.5	2143579.49	161540.68	Point



WELL DETAILS: Rosa Unit #206A

		Ground Level:	6297.0	
Northing	Easting	Latitude	Longitude	
2144162.70	157906.10	36° 53' 12.912 N	107° 25' 11.136 W	

EOW
No Hardlines
Crossed



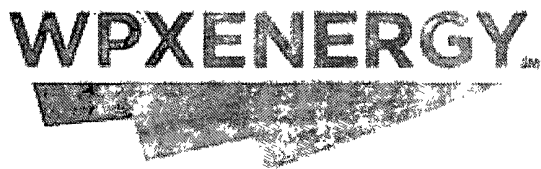
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
2600.0	0.46	261.54	2599.8	-12.2	-25.7	0.00	0.00	-23.6	
2618.9	0.42	267.37	2618.7	-12.2	-25.8	0.32	134.67	-23.8	
3416.8	90.00	98.16	3128.0	-84.7	474.6	11.33	169.21	481.9	
6616.0	90.00	98.16	3128.0	-538.6	3641.5	0.00	0.00	3681.1	TD - 206A

Plan: Design #4 (Rosa Unit #206A/ST01)

Created By: Breck Enoch

Date: 30-May-2012



WPXEnergy

Rio Arriba Co., NM
Sec 24 T31N R06W
Rosa Unit #206A

ST01

Design: ST01

Standard Survey Report

30 May, 2012

PATHFINDER
A Schlumberger Company



Pathfinder
Survey Report

PATHFINDER
A Schlumberger Company

Company:	WPXEnergy	Local Co-ordinate Reference:	Well Rosa Unit #206A
Project:	Rio Arriba Co , NM	TVD Reference:	WELL @ 6311 0usft (Original Well Elev)
Site:	Sec 24 T31N R06W	MD Reference:	WELL @ 6311 0usft (Original Well Elev)
Well:	Rosa Unit #206A	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
From:	Lat/Long	Easting:	160,581 51 usft
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 52' 51 024 N
		Longitude:	107° 24' 37 872 W
		Grid Convergence:	-0 70 °

Well	Rosa Unit #206A		
Well Position	+N/-S	0 0 usft	Northing:
	+E/-W	0 0 usft	Easting:
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
		Latitude:	36° 53' 12 912 N
		Longitude:	107° 25' 11 136 W
		Ground Level:	6,297 0 usft

Wellbore	ST01		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	03/07/12	9 68
			Dip Angle
			(°)
			63 63
			Field Strength
			(nT)
			50,793

Design	ST01		
Audit Notes:			
Version:	1 0	Phase:	ACTUAL
		Tie On Depth:	0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0 0	0 0	0 0
			98 41

Survey Program	Date	05/30/12		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100 0	6,550 0	Survey #1 (ST01)	MWD	MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(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
100 0	0 80	245 23	100 0	-0 3	-0 6	-0 6	0 80	0 80	0 00
200 0	0 73	242 72	200 0	-0 9	-1 8	-1 7	0 08	-0 07	-2 51
300 0	0 94	249 64	300 0	-1 5	-3 2	-2 9	0 23	0 21	6 92
400 0	1 06	247 63	400 0	-2 1	-4 8	-4 4	0 13	0 12	-2 01
500 0	1 08	249 91	499 9	-2 8	-6 5	-6 1	0 05	0 02	2 28
600 0	1 00	249 07	599 9	-3 4	-8 2	-7 6	0 08	-0 08	-0 84
700 0	0 90	247 23	699 9	-4 0	-9 8	-9 1	0 10	-0 10	-1 84
800 0	0 86	249 41	799 9	-4 6	-11 2	-10 4	0 05	-0 04	2 18
900 0	0 73	244 44	899 9	-5 1	-12 5	-11 6	0 15	-0 13	-4 97

Company:	WPXEnergy	Local Co-ordinate Reference:	Well Rosa Unit #206A
Project:	Rio Arriba Co., NM	TVD Reference:	WELL @ 6311' 0usft (Original Well Elev)
Site:	Sec 24 T31N R06W	MD Reference:	WELL @ 6311' 0usft (Original Well Elev)
Well:	Rosa Unit #206A	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)
1,000.0	0.70	248.75	999.9	-5.6	-13.6	-12.7	0.06	-0.03	4.31
1,100.0	0.62	251.61	1,099.9	-6.0	-14.7	-13.7	0.09	-0.08	2.86
1,200.0	0.69	252.17	1,199.9	-6.4	-15.8	-14.7	0.07	0.07	0.56
1,300.0	0.67	251.79	1,299.9	-6.7	-16.9	-15.8	0.02	-0.02	-0.38
1,400.0	0.62	247.89	1,399.9	-7.1	-18.0	-16.7	0.07	-0.05	-3.90
1,500.0	0.53	231.93	1,499.9	-7.6	-18.8	-17.5	0.18	-0.09	-15.96
1,600.0	0.54	227.24	1,599.8	-8.2	-19.6	-18.1	0.04	0.01	-4.69
1,700.0	0.58	218.16	1,699.8	-8.9	-20.2	-18.7	0.10	0.04	-9.08
1,800.0	0.45	230.25	1,799.8	-9.6	-20.8	-19.2	0.17	-0.13	12.09
1,900.0	0.45	225.50	1,899.8	-10.1	-21.4	-19.7	0.04	0.00	-4.75
2,000.0	0.32	224.68	1,999.8	-10.6	-21.9	-20.1	0.13	-0.13	-0.82
2,100.0	0.25	229.91	2,099.8	-10.9	-22.2	-20.4	0.07	-0.07	5.23
2,200.0	0.35	221.83	2,199.8	-11.3	-22.6	-20.7	0.11	0.10	-8.08
2,300.0	0.36	242.36	2,299.8	-11.7	-23.1	-21.1	0.13	0.01	20.53
2,400.0	0.48	258.19	2,399.8	-11.9	-23.8	-21.8	0.17	0.12	15.83
2,500.0	0.64	261.58	2,499.8	-12.1	-24.7	-22.7	0.16	0.16	3.39
2,600.0	0.46	261.54	2,599.8	-12.2	-25.7	-23.6	0.18	-0.18	-0.04
2,727.0	20.40	100.01	2,724.2	-16.2	-4.2	-1.8	16.41	15.70	-127.19
2,758.0	24.97	98.96	2,752.8	-18.1	7.6	10.2	14.80	14.74	-3.39
2,790.0	27.52	101.26	2,781.5	-20.6	21.5	24.3	8.58	7.97	7.19
2,822.0	27.61	101.70	2,809.9	-23.6	36.1	39.1	0.70	0.28	1.38
2,853.0	29.81	102.07	2,837.1	-26.6	50.6	54.0	7.12	7.10	1.19
2,885.0	33.41	103.42	2,864.3	-30.3	67.0	70.7	11.46	11.25	4.22
2,916.0	38.08	103.06	2,889.5	-34.5	84.6	88.7	15.08	15.06	-1.16
2,948.0	41.86	100.73	2,914.0	-38.7	104.7	109.3	12.70	11.81	-7.28
2,979.0	44.49	98.89	2,936.6	-42.3	125.6	130.5	9.41	8.48	-5.94
3,011.0	47.04	99.12	2,958.9	-45.9	148.3	153.4	7.99	7.97	0.72
3,042.0	50.30	98.68	2,979.4	-49.5	171.3	176.7	10.57	10.52	-1.42
3,074.0	53.64	98.92	2,999.1	-53.4	196.2	201.9	10.45	10.44	0.75
3,105.0	55.40	98.18	3,017.1	-57.1	221.1	227.1	6.00	5.68	-2.39
3,137.0	57.95	97.72	3,034.7	-60.8	247.6	253.8	8.06	7.97	-1.44
3,169.0	61.29	97.20	3,050.8	-64.4	275.0	281.4	10.53	10.44	-1.63
3,201.0	65.25	97.56	3,065.2	-68.1	303.3	310.0	12.42	12.38	1.13
3,233.0	67.18	98.04	3,078.1	-72.0	332.3	339.3	6.19	6.03	1.50
3,264.0	69.64	98.30	3,089.5	-76.1	360.8	368.1	7.97	7.94	0.84
3,296.0	72.46	98.19	3,099.9	-80.5	390.8	398.4	8.82	8.81	-0.34
3,328.0	77.03	98.75	3,108.4	-85.0	421.3	429.2	14.38	14.28	1.75
3,359.0	79.58	98.83	3,114.6	-89.7	451.3	459.6	8.23	8.23	0.26
3,391.0	82.48	98.56	3,119.6	-94.4	482.6	491.2	9.10	9.06	-0.84
3,423.0	89.34	98.75	3,121.9	-99.2	514.1	523.1	21.45	21.44	0.59
3,472.0	90.40	99.24	3,122.0	-106.9	562.5	572.1	2.38	2.16	1.00
3,536.0	87.85	98.07	3,123.0	-116.5	625.8	636.1	4.38	-3.98	-1.83
3,599.0	86.97	97.27	3,125.8	-124.9	688.1	699.0	1.89	-1.40	-1.27
Coal Entrance @ 3599' MD / 3125' TVD									

Company:	WPXEnergy	Local Co-ordinate Reference:	Well Rosa Unit #206A
Project:	Rio Arriba Co., NM	TVD Reference:	WELL @ 6311 0usft. (Original Well Elev)
Site:	Sec 24 T31N R06W	MD Reference:	WELL @ 6311 0usft. (Original Well Elev)
Well:	Rosa Unit #206A	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)
3,663 0	89 25	96 13	3,127 9	-132 4	751 7	762 9	3 98	3 56	-1 78
3,726 0	89 78	96 36	3,128 5	-139 2	814 3	825 9	0 92	0 84	0 37
3,790 0	89 87	95 27	3,128 7	-145 7	877 9	889 8	1 71	0 14	-1 70
3,853 0	89 16	95 26	3,129 2	-151 5	940 7	952 7	1 13	-1 13	-0 02
3,917 0	89 25	98 88	3,130 1	-159 4	1,004 2	1,016 7	5 66	0 14	5 66
3,981 0	89 60	100 31	3,130 7	-170 1	1,067 3	1,080 7	2 30	0 55	2 23
4,044 0	89 34	100 00	3,131 3	-181 2	1,129 3	1,143 6	0 64	-0 41	-0 49
4,107 0	89 34	98 14	3,132 1	-191 1	1,191 5	1,206 6	2 95	0 00	-2 95
4,171 0	90 92	95 99	3,131 9	-199 0	1,255 0	1,270 6	4 17	2 47	-3 36
4,234 0	91 19	95 68	3,130 7	-205 4	1,317 7	1,333 5	0 65	0 43	-0 49
4,297 0	90 84	94 96	3,129 6	-211 2	1,380 4	1,396 4	1 27	-0 56	-1 14
4,361 0	89 87	94 30	3,129 2	-216 4	1,444 2	1,460 3	1 83	-1 52	-1 03
4,424 0	89 34	91 95	3,129 7	-219 8	1,507 1	1,523 0	3 82	-0 84	-3 73
4,489 0	91 98	92 89	3,128 9	-222 5	1,572 0	1,587 6	4 31	4 06	1 45
4,551 0	91 54	92 26	3,127 0	-225 3	1,633 9	1,649 3	1 24	-0 71	-1 02
4,614 0	89 25	93 24	3,126 6	-228 4	1,696 8	1,712 0	3 95	-3 63	1 56
4,678 0	88 99	92 24	3,127 6	-231 4	1,760 7	1,775 7	1 61	-0 41	-1 56
4,742 0	88 64	93 02	3,128 9	-234 3	1,824 7	1,839 3	1 34	-0 55	1 22
4,805 0	89 78	95 51	3,129 8	-239 0	1,887 5	1,902 1	4 35	1 81	3 95
4,868 0	88 46	94 57	3,130 7	-244 6	1,950 2	1,965 0	2 57	-2 10	-1 49
4,932 0	88 20	93 03	3,132 6	-248 8	2,014 1	2,028 8	2 44	-0 41	-2 41
4,995 0	87 23	95 69	3,135 1	-253 6	2,076 8	2,091 6	4 49	-1 54	4 22
5,059 0	88 11	97 86	3,137 7	-261 1	2,140 3	2,155 5	3 66	1 38	3 39
5,122 0	88 99	98 69	3,139 3	-270 2	2,202 6	2,218 5	1 92	1 40	1 32
5,186 0	88 37	98 69	3,140 8	-279 9	2,265 9	2,282 4	0 97	-0 97	0 00
5,248 0	89 16	98 21	3,142 1	-289 0	2,327 2	2,344 4	1 49	1 27	-0 77
5,313 0	89 08	96 59	3,143 1	-297 3	2,391 6	2,409 4	2 50	-0 12	-2 49
5,376 0	90 22	98 57	3,143 5	-305 7	2,454 1	2,472 4	3 63	1 81	3 14
5,439 0	91 10	100 02	3,142 8	-315 8	2,516 3	2,535 4	2 69	1 40	2 30
5,503 0	91 01	101 48	3,141 6	-327 8	2,579 1	2,599 3	2 29	-0 14	2 28
5,566 0	91 10	101 37	3,140 4	-340 2	2,640 9	2,662 2	0 23	0 14	-0 17
5,630 0	90 48	100 63	3,139 5	-352 5	2,703 7	2,726 1	1 51	-0 97	-1 16
5,693 0	89 60	99 07	3,139 5	-363 2	2,765 7	2,789 1	2 84	-1 40	-2 48
5,756 0	90 13	98 06	3,139 6	-372 6	2,828 0	2,852 1	1 81	0 84	-1 60
5,821 0	89 87	97 14	3,139 6	-381 2	2,892 5	2,917 1	1 47	-0 40	-1 42
5,883 0	90 92	96 62	3,139 2	-388 6	2,954 0	2,979 1	1 89	1 69	-0 84
5,947 0	90 84	94 46	3,138 2	-394 8	3,017 7	3,043 0	3 38	-0 13	-3 38
6,011 0	88 90	95 28	3,138 4	-400 2	3,081 5	3,106 9	3 29	-3 03	1 28
6,074 0	88 90	94 18	3,139 6	-405 4	3,144 2	3,169 7	1 75	0 00	-1 75
6,137 0	89 52	97 80	3,140 5	-412 0	3,206 9	3,232 7	5 83	0 98	5 75
6,201 0	90 04	99 29	3,140 7	-421 5	3,270 2	3,296 7	2 47	0 81	2 33
6,265 0	89 34	99 00	3,141 1	-431 7	3,333 4	3,360 6	1 18	-1 09	-0 45
6,327 0	90 75	99 93	3,141 0	-441 9	3,394 5	3,422 6	2 72	2 27	1 50

Company:	WPX Energy	Local Co-ordinate/Reference:	Well Rosa Unit #206A
Project:	Rio Arriba Co - NM	TVD Reference:	WELL @ 6311.0usft (Original Well Elev)
Site:	Sec.24 T31N R06W	MD Reference:	WELL @ 6311.0usft (Original Well Elev)
Well:	Rosa Unit #206A	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)
6,391.0	90.04	101.51	3,140.6	-453.8	3,457.4	3,486.6	2.71	-1.11	2.47
6,454.0	89.69	101.44	3,140.7	-466.3	3,519.1	3,549.5	0.57	-0.56	-0.11
6,489.0	89.08	100.69	3,141.1	-473.0	3,553.5	3,584.5	2.76	-1.74	-2.14
6,550.0	89.08	100.69	3,142.1	-484.4	3,613.4	3,645.4	0.00	0.00	0.00
Straight Line Projection to Bit Depth @ 6550' MD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,599.0	3,125.8	-124.9	688.1	Coal Entrance @ 3599' MD / 3125' TVD
6,550.0	3,142.1	-484.4	3,613.4	Straight Line Projection to Bit Depth @ 6550' MD

Checked By _____	Approved By: _____	Date: _____
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