

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

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

Submit one copy to
Appropriate District Office

☐ AMENDED REPORT

AS ORDERED
OIL CONS. DIV DIST. 3

NOV 06 2014

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35588		*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 313711	*Property Name CHACO 2308-03E		*Well Number 403H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6892'

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	3	23N	8W		1906	NORTH	817	WEST	SAN JUAN

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
D	4	23N	8W	4	329	NORTH	231	WEST	SAN JUAN

¹² Dedicated Acres	159.60 Acres N/2 N/2 - Section 4	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

END-OF-LATERAL
329' FNL 231' FWL
SECTION 4, T23N, R8W
LAT: 36.262674°N
LONG: 107.694801°W
DATUM: NAD1927

LAT: 36.262687 *N
LONG: 107.695413 *W
DATUM: NAD1983

BASE PERFORATION
346' FNL 338' FWL
SECTION 4, T23N, RW
LAT: 36.262626°N
LONG: 107.694436°W
DATUM: NAD1927

LAT: 36.262639 °N
LONG: 107.695048 °W
DATUM: NAD1983

POINT-OF-ENTRY
1121' FNL 387' FEL
SECTION 4, T23N, R8W
LAT: 36.260482°N
LONG: 107.678865°W
DATUM: NAD1927

LAT: 36.260495°N
LONG: 107.679476°W
DATUM: NAD1983

SURFACE LOCATION
1906' FNL 817' FWL
SECTION 3, T23N, R8W
LAT: 36.258319 °N
LONG: 107.674724 °W
DATUM: NAD1927

LAT: 36.258332 °N
LONG: 107.675335 °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, a lease, a right to use a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature [Signature] Date 11/1/14

Printed Name
larry.higgins@wpxenergy.com

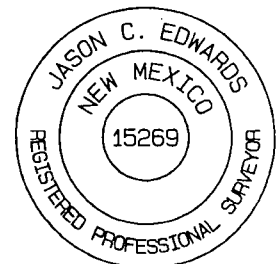
E-mail Address

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.

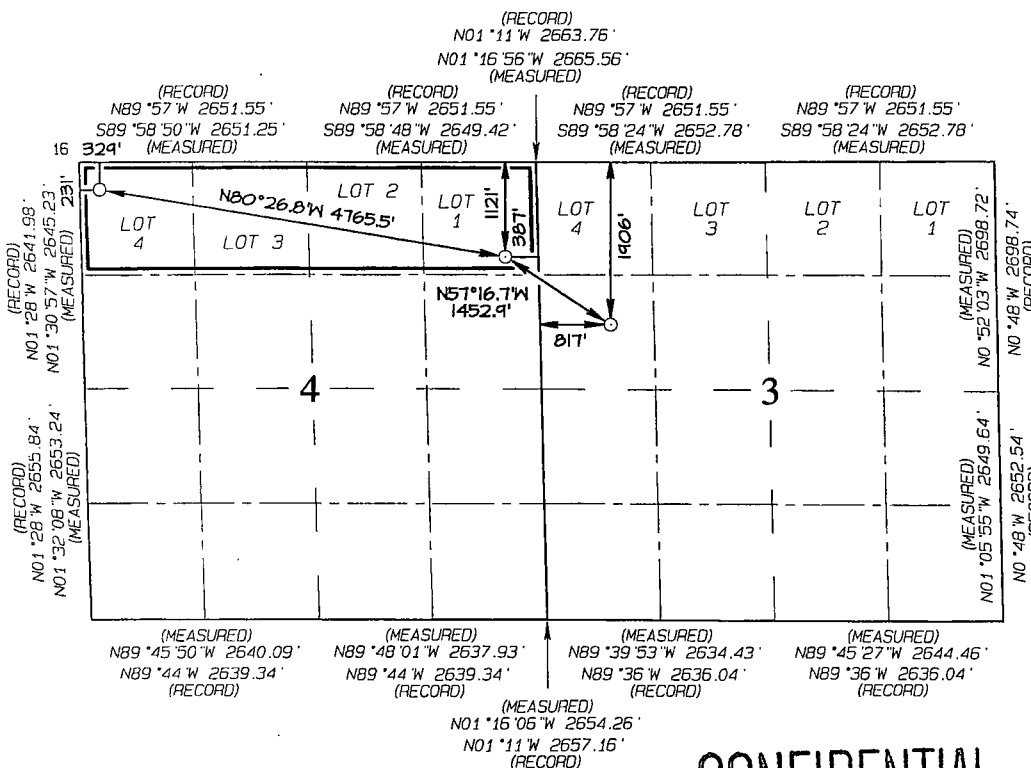
Date Revised: NOVEMBER 4, 2014
Survey Date: FEBRUARY 26, 2014

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



CONFIDENTIAL



Company Name: WPX Energy Rocky Mountain, LLC
 Project: San Juan County, NM NAD27
 Site: Chaco 2308-03E
 Well: Chaco 2308-03E #403H

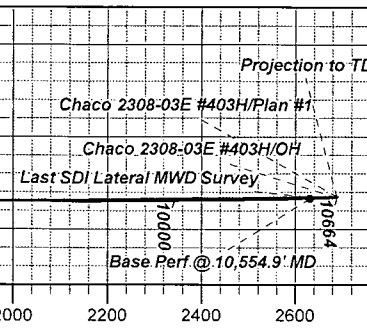
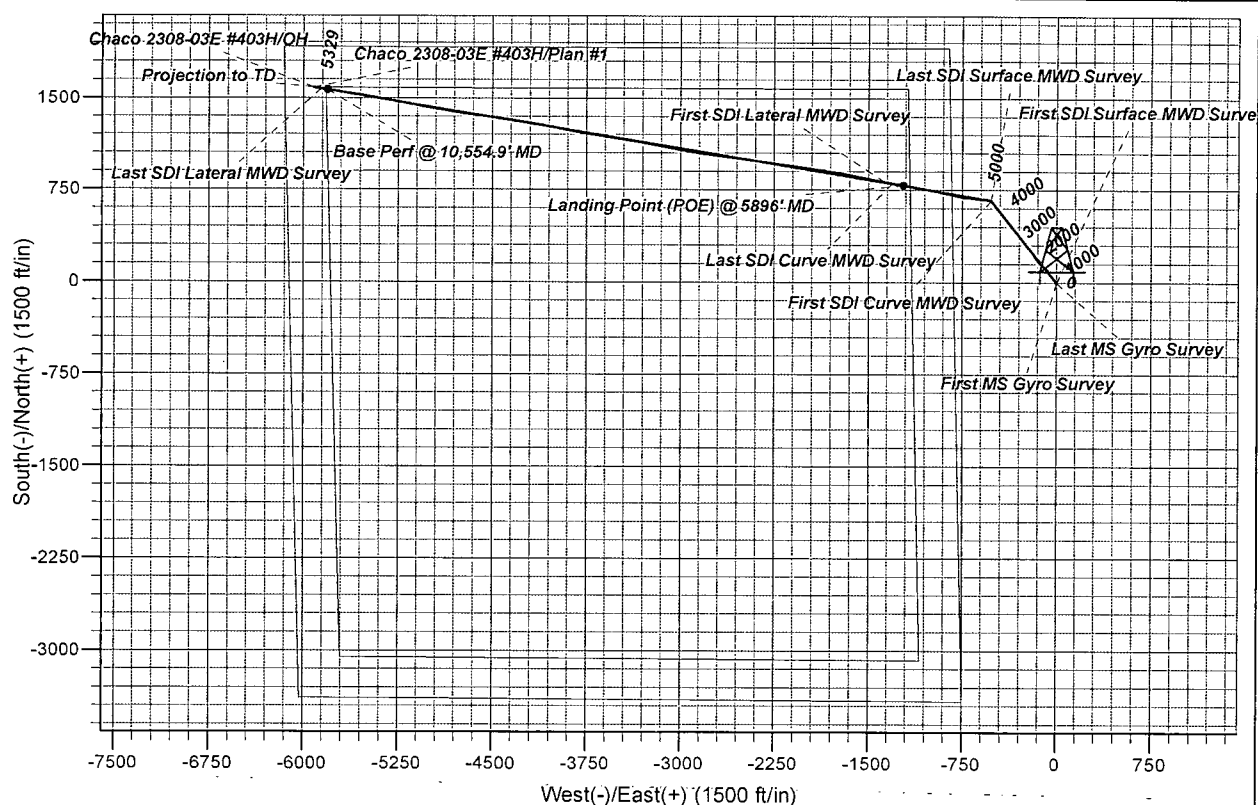
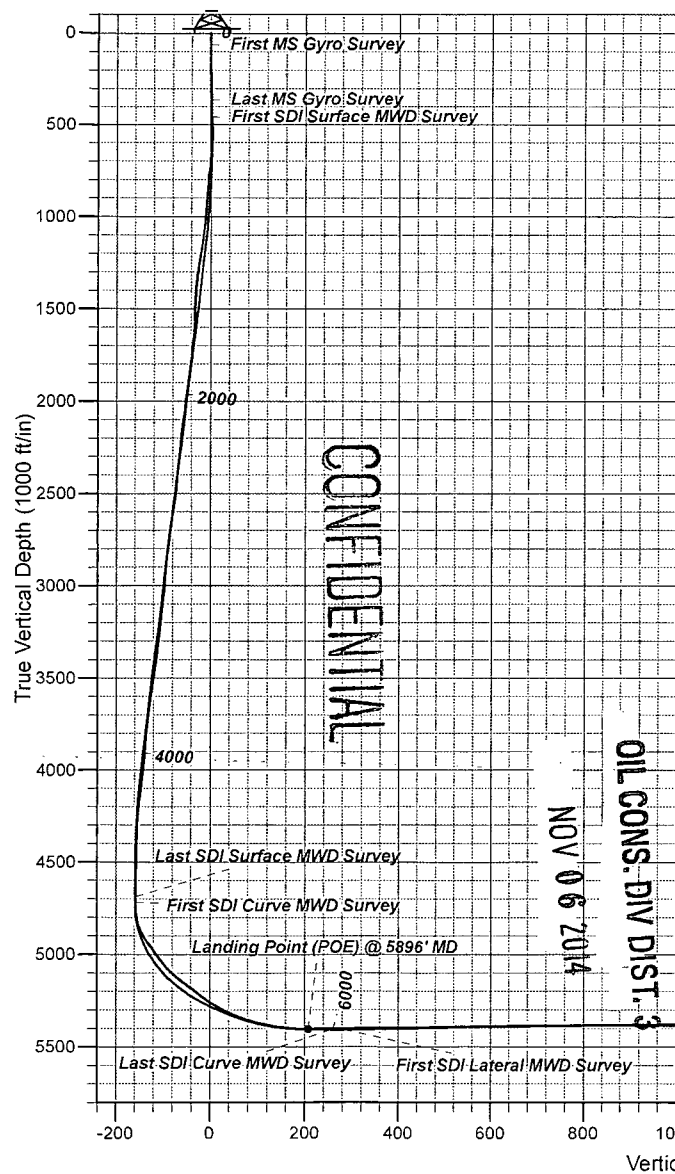


Azimuths to True North
 Magnetic North: 9.48°

Magnetic Field
 Strength: 50051.5nT
 Dip Angle: 63.00°
 Date: 10/9/2014
 Model: BGGM2014

WELL DETAILS: Chaco 2308-03E #403H

		GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)	6892.00
+N/-S	+E/-W	Northing	Easting
0.00	0.00	1913308.49	546762.42
		Latitude	Longitude
		36.2583192	-107.6747236



Design: OH (Chaco 2308-03E #403H/OH)
Created By: Janie Collins Date: 11:08, October 30 2014
PROJECT DETAILS: San Juan County, NM NAD27
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



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain LLC	Local Co-ordinate Reference:	Well Chaco 2308-03E #403H
Project:	San Juan County NM NAD27	TVD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Site:	Chaco 2308-03E	MD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Well:	Chaco 2308-03E #403H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project: San Juan 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 West 3003		

Site: Chaco 2308-03E					
Site Position:		Northing:	1,913,308.49 usft	Latitude:	36.2583192
From:	Lat/Long	Easting:	546,762.42 usft	Longitude:	-107.6747236
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.09 °

Well:	Chaco 2308-03E #403H					
Well Position	+N/-S	0.00 ft	Northing:	1,913,308.49 usft	Latitude:	36.2583192
	+E/-W	0.00 ft	Easting:	546,762.42 usft	Longitude:	-107.6747236
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,892.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	10/9/2014	9.48	63.00	50,051

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	221.02	

Survey Program		Date	10/30/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
64.00	364.00	Survey #1 - MS Gyro Survey (OH)	Gyro		
460.00	4,784.00	Survey #2 - Surface MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
4,816.00	5,990.00	Survey #3 - Curve MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
6,049.00	10,664.00	Survey #4 - Lateral MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,913,308.49	546,762.42	36.2583192	-107.6747236
64.00	0.01	219.44	64.00	0.00	0.00	1,913,308.49	546,762.42	36.2583192	-107.6747236
First MS Gyro Survey									
114.00	0.18	201.09	114.00	-0.08	-0.03	1,913,308.41	546,762.39	36.2583189	-107.6747237
164.00	0.36	229.80	164.00	-0.26	-0.18	1,913,308.24	546,762.24	36.2583185	-107.6747242
214.00	0.31	220.35	214.00	-0.46	-0.39	1,913,308.03	546,762.03	36.2583179	-107.6747249
264.00	0.18	186.44	264.00	-0.64	-0.49	1,913,307.85	546,761.94	36.2583174	-107.6747253
314.00	0.55	231.70	314.00	-0.87	-0.68	1,913,307.62	546,761.74	36.2583168	-107.6747259



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-03E #403H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Site:	Chaco 2308-03E	MD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Well:	Chaco 2308-03E #403H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

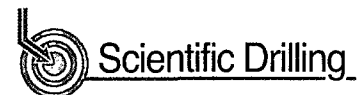
Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
364.00	0.39	224.15	364.00	-1.14	-0.99	1,913,307.35	546,761.43	36.2583160	-107.6747270
Last MS Gyro Survey									
460.00	0.80	246.00	459.99	-1.65	-1.83	1,913,306.84	546,760.59	36.2583146	-107.6747298
First SDI Surface MWD Survey									
523.00	0.85	244.90	522.98	-2.02	-2.66	1,913,306.46	546,759.77	36.2583136	-107.6747326
585.00	1.73	326.04	584.97	-1.44	-3.59	1,913,307.04	546,758.83	36.2583152	-107.6747358
647.00	3.17	339.20	646.91	0.94	-4.73	1,913,309.42	546,757.69	36.2583217	-107.6747397
711.00	4.68	341.25	710.76	5.06	-6.19	1,913,313.55	546,756.22	36.2583331	-107.6747446
773.00	6.00	336.72	772.49	10.44	-8.29	1,913,318.91	546,754.12	36.2583478	-107.6747517
837.00	7.26	321.59	836.07	16.68	-12.12	1,913,325.15	546,750.27	36.2583650	-107.6747647
899.00	8.55	320.67	897.48	23.31	-17.48	1,913,331.78	546,744.91	36.2583832	-107.6747829
962.00	10.50	322.30	959.60	31.48	-23.96	1,913,339.93	546,738.41	36.2584056	-107.6748049
1,025.00	12.10	321.29	1,021.38	41.17	-31.60	1,913,349.61	546,730.76	36.2584323	-107.6748308
1,088.00	13.62	323.36	1,082.80	52.28	-40.15	1,913,360.70	546,722.18	36.2584628	-107.6748598
1,150.00	15.37	325.77	1,142.82	64.93	-49.13	1,913,373.34	546,713.18	36.2584975	-107.6748903
1,210.00	16.64	323.91	1,200.50	78.45	-58.67	1,913,386.84	546,703.63	36.2585347	-107.6749226
1,271.00	17.21	321.00	1,258.86	92.52	-69.49	1,913,400.90	546,692.78	36.2585733	-107.6749593
1,303.00	17.53	321.29	1,289.40	99.96	-75.48	1,913,408.33	546,686.77	36.2585938	-107.6749797
1,363.00	16.51	318.25	1,346.77	113.37	-86.81	1,913,421.72	546,675.42	36.2586306	-107.6750181
1,424.00	15.15	316.42	1,405.46	125.61	-98.08	1,913,433.94	546,664.14	36.2586642	-107.6750563
1,485.00	15.01	313.97	1,464.36	136.87	-109.26	1,913,445.18	546,652.94	36.2586952	-107.6750942
1,546.00	15.23	312.03	1,523.24	147.72	-120.90	1,913,456.01	546,641.28	36.2587250	-107.6751337
1,606.00	14.38	314.19	1,581.25	158.19	-132.09	1,913,466.46	546,630.07	36.2587537	-107.6751717
1,667.00	13.58	320.72	1,640.45	169.01	-142.06	1,913,477.27	546,620.09	36.2587835	-107.6752055
1,728.00	13.44	318.39	1,699.76	179.86	-151.30	1,913,488.10	546,610.83	36.2588133	-107.6752368
1,789.00	12.47	319.15	1,759.21	190.14	-160.32	1,913,498.37	546,601.80	36.2588415	-107.6752674
1,849.00	12.28	327.31	1,817.82	200.41	-168.00	1,913,508.63	546,594.10	36.2588697	-107.6752935
1,910.00	12.14	329.07	1,877.44	211.37	-174.80	1,913,519.58	546,587.28	36.2588998	-107.6753165
1,971.00	12.13	326.43	1,937.08	222.21	-181.64	1,913,530.41	546,580.42	36.2589296	-107.6753397
2,032.00	11.90	324.92	1,996.74	232.70	-188.80	1,913,540.88	546,573.24	36.2589584	-107.6753640
2,094.00	12.31	324.22	2,057.36	243.29	-196.34	1,913,551.46	546,565.69	36.2589875	-107.6753896
2,155.00	11.94	323.76	2,117.00	253.66	-203.87	1,913,561.82	546,558.14	36.2590160	-107.6754151
2,215.00	12.15	322.62	2,175.68	263.68	-211.37	1,913,571.83	546,550.62	36.2590435	-107.6754406
2,276.00	12.45	321.58	2,235.28	273.93	-219.36	1,913,582.07	546,542.62	36.2590717	-107.6754676
2,338.00	12.45	320.97	2,295.82	284.36	-227.72	1,913,592.48	546,534.24	36.2591003	-107.6754960
2,399.00	12.39	321.52	2,355.39	294.59	-235.93	1,913,602.70	546,526.01	36.2591285	-107.6755239
2,460.00	12.58	320.21	2,414.95	304.82	-244.25	1,913,612.91	546,517.67	36.2591565	-107.6755521
2,519.00	12.62	319.74	2,472.53	314.68	-252.53	1,913,622.75	546,509.38	36.2591836	-107.6755802
2,582.00	13.14	324.41	2,533.95	325.75	-261.15	1,913,633.82	546,500.74	36.2592140	-107.6756094
2,645.00	13.57	328.22	2,595.24	337.86	-269.21	1,913,645.91	546,492.66	36.2592473	-107.6756367
2,708.00	13.24	328.95	2,656.53	350.32	-276.82	1,913,658.36	546,485.03	36.2592815	-107.6756626
2,771.00	13.40	322.83	2,717.84	362.32	-284.95	1,913,670.34	546,476.88	36.2593145	-107.6756901
2,833.00	13.83	320.69	2,778.09	373.78	-293.99	1,913,681.79	546,467.82	36.2593460	-107.6757208
2,896.00	13.36	320.66	2,839.33	385.23	-303.37	1,913,693.23	546,458.42	36.2593775	-107.6757526
2,959.00	13.02	319.90	2,900.67	396.29	-312.56	1,913,704.27	546,449.22	36.2594078	-107.6757838
3,021.00	12.61	317.32	2,961.12	406.61	-321.64	1,913,714.57	546,440.11	36.2594362	-107.6758146
3,084.00	12.99	319.04	3,022.56	417.01	-330.95	1,913,724.96	546,430.79	36.2594648	-107.6758462
3,147.00	13.76	320.46	3,083.85	428.14	-340.36	1,913,736.07	546,421.36	36.2594953	-107.6758781
3,209.00	13.66	319.94	3,144.08	439.43	-349.76	1,913,747.35	546,411.94	36.2595263	-107.6759100
3,272.00	15.28	322.55	3,205.08	451.71	-359.60	1,913,759.61	546,402.08	36.2595601	-107.6759433
3,336.00	15.32	321.94	3,266.81	465.06	-369.94	1,913,772.95	546,391.72	36.2595968	-107.6759784
3,398.00	15.10	321.21	3,326.64	477.81	-380.05	1,913,785.68	546,381.59	36.2596318	-107.6760127
3,461.00	14.10	321.32	3,387.61	490.19	-389.99	1,913,798.05	546,371.63	36.2596658	-107.6760464
3,524.00	14.63	324.12	3,448.64	502.63	-399.45	1,913,810.47	546,362.16	36.2597000	-107.6760785
3,588.00	14.65	325.19	3,510.56	515.83	-408.80	1,913,823.65	546,352.78	36.2597362	-107.6761102

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-03E #403H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Site:	Chaco 2308-03E	MD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Well:	Chaco 2308-03E #403H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,652.00	14.02	324.00	3,572.57	528.74	-417.98	1,913,836.55	546,343.58	36.2597717	-107.6761414
3,715.00	13.53	322.88	3,633.75	540.79	-426.91	1,913,848.58	546,334.63	36.2598048	-107.6761717
3,778.00	13.55	322.26	3,695.00	552.51	-435.88	1,913,860.28	546,325.64	36.2598370	-107.6762021
3,842.00	12.93	320.13	3,757.30	563.93	-445.06	1,913,871.69	546,316.44	36.2598683	-107.6762332
3,905.00	12.59	320.37	3,818.75	574.63	-453.95	1,913,882.37	546,307.53	36.2598977	-107.6762634
3,968.00	12.58	319.17	3,880.23	585.11	-462.82	1,913,892.84	546,298.65	36.2599265	-107.6762935
4,031.00	12.68	319.93	3,941.71	595.59	-471.76	1,913,903.31	546,289.69	36.2599553	-107.6763238
4,093.00	11.49	324.90	4,002.34	605.85	-479.69	1,913,913.55	546,281.74	36.2599835	-107.6763507
4,156.00	10.14	327.11	4,064.22	615.64	-486.31	1,913,923.33	546,275.11	36.2600104	-107.6763731
4,219.00	9.89	326.96	4,126.26	624.83	-492.27	1,913,932.52	546,269.13	36.2600357	-107.6763933
4,281.00	9.27	326.78	4,187.39	633.47	-497.91	1,913,941.15	546,263.48	36.2600594	-107.6764125
4,344.00	7.50	322.29	4,249.72	640.97	-503.20	1,913,948.64	546,258.17	36.2600800	-107.6764304
4,407.00	6.17	315.92	4,312.27	646.66	-508.07	1,913,954.32	546,253.29	36.2600956	-107.6764470
4,470.00	5.64	316.66	4,374.93	651.34	-512.55	1,913,958.99	546,248.80	36.2601085	-107.6764621
4,532.00	4.60	317.97	4,436.68	655.40	-516.31	1,913,963.05	546,245.04	36.2601196	-107.6764749
4,596.00	3.11	312.62	4,500.54	658.49	-519.31	1,913,966.13	546,242.04	36.2601281	-107.6764850
4,658.00	1.70	326.78	4,562.48	660.39	-521.05	1,913,968.03	546,240.30	36.2601333	-107.6764910
4,721.00	0.98	349.93	4,625.46	661.71	-521.65	1,913,969.34	546,239.69	36.2601370	-107.6764930
4,784.00	0.59	319.98	4,688.46	662.49	-521.96	1,913,970.12	546,239.38	36.2601391	-107.6764940
Last SDI Surface MWD Survey									
4,816.00	2.90	312.17	4,720.44	663.16	-522.66	1,913,970.79	546,238.68	36.2601409	-107.6764964
First SDI Curve MWD Survey									
4,847.00	6.10	306.43	4,751.34	664.66	-524.57	1,913,972.29	546,236.77	36.2601451	-107.6765029
4,877.00	9.50	300.75	4,781.06	666.87	-527.98	1,913,974.50	546,233.35	36.2601511	-107.6765145
4,910.00	12.35	290.88	4,813.46	669.52	-533.62	1,913,977.14	546,227.71	36.2601584	-107.6765336
4,942.00	14.86	279.30	4,844.57	671.41	-540.87	1,913,979.01	546,220.46	36.2601636	-107.6765582
4,974.00	17.74	272.89	4,875.28	672.32	-549.79	1,913,979.91	546,211.53	36.2601661	-107.6765884
5,005.00	20.60	272.65	4,904.56	672.81	-559.96	1,913,980.38	546,201.37	36.2601674	-107.6766229
5,036.00	23.13	272.54	4,933.33	673.33	-571.49	1,913,980.88	546,189.83	36.2601689	-107.6766620
5,068.00	25.42	272.34	4,962.50	673.89	-584.63	1,913,981.42	546,176.69	36.2601704	-107.6767066
5,099.00	27.69	276.07	4,990.23	674.92	-598.44	1,913,982.43	546,162.88	36.2601733	-107.6767535
5,131.00	28.93	278.95	5,018.40	676.91	-613.48	1,913,984.40	546,147.83	36.2601787	-107.6768045
5,162.00	30.60	279.61	5,045.31	679.40	-628.67	1,913,986.86	546,132.64	36.2601855	-107.6768560
5,194.00	32.54	277.63	5,072.57	681.90	-645.23	1,913,989.33	546,116.07	36.2601924	-107.6769122
5,225.00	35.27	275.79	5,098.30	683.91	-662.41	1,913,991.31	546,098.90	36.2601979	-107.6769704
5,256.00	37.99	274.03	5,123.17	685.48	-680.83	1,913,992.86	546,080.47	36.2602023	-107.6770329
5,288.00	39.64	274.24	5,148.11	686.93	-700.84	1,913,994.27	546,060.46	36.2602062	-107.6771008
5,319.00	42.47	276.67	5,171.48	688.88	-721.10	1,913,996.19	546,040.20	36.2602116	-107.6771695
5,350.00	44.92	279.30	5,193.90	691.86	-742.30	1,913,999.14	546,018.99	36.2602198	-107.6772414
5,382.00	46.87	283.79	5,216.17	696.47	-764.80	1,914,003.71	545,996.49	36.2602324	-107.6773177
5,413.00	49.21	284.45	5,236.90	702.10	-787.15	1,914,009.30	545,974.13	36.2602479	-107.6773936
5,444.00	52.76	282.82	5,256.41	707.77	-810.55	1,914,014.93	545,950.71	36.2602635	-107.6774729
5,475.00	54.30	282.03	5,274.84	713.13	-834.90	1,914,020.25	545,926.36	36.2602782	-107.6775555
5,507.00	56.81	282.82	5,292.94	718.81	-860.67	1,914,025.89	545,900.58	36.2602938	-107.6776429
5,538.00	59.78	282.92	5,309.23	724.68	-886.38	1,914,031.72	545,874.86	36.2603099	-107.6777301
5,570.00	61.55	282.82	5,324.90	730.90	-913.57	1,914,037.89	545,847.66	36.2603270	-107.6778224
5,602.00	63.65	282.07	5,339.63	737.02	-941.31	1,914,043.96	545,819.91	36.2603438	-107.6779165
5,634.00	67.36	281.59	5,352.89	742.98	-969.81	1,914,049.89	545,791.40	36.2603602	-107.6780131
5,665.00	70.62	280.46	5,364.01	748.51	-998.21	1,914,055.37	545,762.99	36.2603754	-107.6781094
5,697.00	72.55	280.09	5,374.12	753.93	-1,028.08	1,914,060.74	545,733.11	36.2603903	-107.6782108
5,728.00	74.74	279.30	5,382.84	758.94	-1,057.40	1,914,065.69	545,703.78	36.2604040	-107.6783102
5,760.00	78.26	279.48	5,390.31	764.01	-1,088.10	1,914,070.72	545,673.08	36.2604180	-107.6784143
5,791.00	80.60	279.33	5,396.00	768.99	-1,118.16	1,914,075.65	545,643.01	36.2604316	-107.6785163
5,822.00	83.62	280.36	5,400.25	774.24	-1,148.41	1,914,080.85	545,612.75	36.2604461	-107.6786189
5,853.00	86.14	280.21	5,403.02	779.75	-1,178.79	1,914,086.31	545,582.36	36.2604612	-107.6787219



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-03E #403H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Site:	Chaco 2308-03E	MD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Well:	Chaco 2308-03E #403H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,896.00	87.26	280.24	5,405.50	787.38	-1,221.03	1,914,093.87	545,540.11	36.2604821	-107.6788652
Landing Point (POE) @ 5896 MD									
5,928.00	88.09	280.27	5,406.80	793.07	-1,252.49	1,914,099.51	545,508.63	36.2604978	-107.6789720
5,990.00	88.93	280.86	5,408.41	804.43	-1,313.42	1,914,110.77	545,447.69	36.2605290	-107.6791786
Last SDI Curve MWD Survey									
6,049.00	90.64	281.13	5,408.63	815.69	-1,371.34	1,914,121.93	545,389.76	36.2605599	-107.6793751
First SDI Lateral MWD Survey									
6,110.00	91.64	281.03	5,407.42	827.41	-1,431.19	1,914,133.55	545,329.89	36.2605921	-107.6795781
6,172.00	92.35	281.69	5,405.26	839.61	-1,491.93	1,914,145.66	545,269.12	36.2606256	-107.6797841
6,233.00	92.09	281.51	5,402.89	851.87	-1,551.64	1,914,157.82	545,209.39	36.2606592	-107.6799867
6,295.00	91.78	280.91	5,400.80	863.91	-1,612.42	1,914,169.76	545,148.59	36.2606923	-107.6801928
6,354.00	91.65	280.83	5,399.03	875.04	-1,670.34	1,914,180.79	545,090.66	36.2607229	-107.6803893
6,418.00	91.78	279.79	5,397.12	886.48	-1,733.28	1,914,192.14	545,027.70	36.2607543	-107.6806028
6,481.00	91.24	278.94	5,395.46	896.73	-1,795.42	1,914,202.28	544,965.54	36.2607825	-107.6808135
6,544.00	90.77	279.01	5,394.35	906.56	-1,857.63	1,914,212.01	544,903.31	36.2608094	-107.6810246
6,607.00	91.38	278.52	5,393.17	916.16	-1,919.89	1,914,221.50	544,841.04	36.2608358	-107.6812357
6,670.00	91.61	278.74	5,391.53	925.61	-1,982.15	1,914,230.85	544,778.76	36.2608617	-107.6814469
6,733.00	91.88	278.68	5,389.61	935.14	-2,044.40	1,914,240.28	544,716.50	36.2608879	-107.6816581
6,796.00	91.75	278.51	5,387.61	944.55	-2,106.66	1,914,249.59	544,654.22	36.2609138	-107.6818692
6,859.00	90.54	277.94	5,386.36	953.56	-2,169.00	1,914,258.50	544,591.87	36.2609385	-107.6820807
6,921.00	90.17	278.24	5,385.97	962.29	-2,230.38	1,914,267.13	544,530.48	36.2609625	-107.6822889
6,984.00	90.70	278.08	5,385.49	971.23	-2,292.74	1,914,275.97	544,468.10	36.2609870	-107.6825004
7,047.00	90.61	278.05	5,384.77	980.07	-2,355.11	1,914,284.70	544,405.71	36.2610113	-107.6827120
7,110.00	90.27	277.91	5,384.29	988.82	-2,417.50	1,914,293.35	544,343.31	36.2610353	-107.6829236
7,172.00	89.90	276.88	5,384.20	996.80	-2,478.98	1,914,301.23	544,281.82	36.2610572	-107.6831321
7,235.00	90.34	277.11	5,384.07	1,004.47	-2,541.51	1,914,308.79	544,219.27	36.2610783	-107.6833443
7,298.00	90.74	278.05	5,383.47	1,012.78	-2,603.96	1,914,317.00	544,156.81	36.2611011	-107.6835561
7,361.00	89.97	277.25	5,383.08	1,021.16	-2,666.40	1,914,325.29	544,094.36	36.2611241	-107.6837679
7,424.00	89.90	277.85	5,383.15	1,029.44	-2,728.85	1,914,333.46	544,031.90	36.2611468	-107.6839797
7,486.00	90.22	278.78	5,383.09	1,038.41	-2,790.20	1,914,342.33	543,970.53	36.2611714	-107.6841878
7,550.00	89.73	279.37	5,383.12	1,048.50	-2,853.40	1,914,352.32	543,907.32	36.2611991	-107.6844021
7,613.00	90.37	281.32	5,383.06	1,059.81	-2,915.37	1,914,363.53	543,845.33	36.2612302	-107.6846124
7,676.00	90.77	280.47	5,382.43	1,071.72	-2,977.23	1,914,375.34	543,783.45	36.2612629	-107.6848222
7,739.00	92.48	282.21	5,380.65	1,084.10	-3,038.97	1,914,387.62	543,721.69	36.2612969	-107.6850316
7,802.00	92.05	281.30	5,378.16	1,096.93	-3,100.60	1,914,400.34	543,660.04	36.2613321	-107.6852407
7,865.00	92.51	281.15	5,375.65	1,109.18	-3,162.35	1,914,412.49	543,598.27	36.2613658	-107.6854501
7,927.00	92.29	280.81	5,373.05	1,120.98	-3,223.16	1,914,424.19	543,537.44	36.2613981	-107.6856564
7,990.00	90.97	280.41	5,371.26	1,132.57	-3,285.05	1,914,435.68	543,475.53	36.2614300	-107.6858663
8,053.00	91.71	280.13	5,369.79	1,143.80	-3,347.03	1,914,446.81	543,413.53	36.2614608	-107.6860765
8,116.00	91.51	279.71	5,368.02	1,154.65	-3,409.06	1,914,457.56	543,351.48	36.2614906	-107.6862870
8,179.00	89.87	279.42	5,367.26	1,165.12	-3,471.18	1,914,467.92	543,289.35	36.2615193	-107.6864977
8,242.00	89.46	278.87	5,367.63	1,175.13	-3,533.37	1,914,477.84	543,227.14	36.2615468	-107.6867086
8,305.00	90.03	279.26	5,367.91	1,185.06	-3,595.59	1,914,487.66	543,164.91	36.2615741	-107.6869197
8,368.00	90.20	279.11	5,367.78	1,195.11	-3,657.78	1,914,497.61	543,102.70	36.2616017	-107.6871306
8,431.00	89.46	278.57	5,367.97	1,204.80	-3,720.03	1,914,507.19	543,040.43	36.2616282	-107.6873418
8,493.00	90.67	279.83	5,367.90	1,214.71	-3,781.23	1,914,517.00	542,979.22	36.2616554	-107.6875494
8,556.00	92.08	281.83	5,366.39	1,226.54	-3,843.09	1,914,528.74	542,917.34	36.2616879	-107.6877592
8,619.00	92.45	281.29	5,363.90	1,239.16	-3,904.76	1,914,541.25	542,855.65	36.2617226	-107.6879684
8,682.00	92.09	281.61	5,361.40	1,251.65	-3,966.46	1,914,553.65	542,793.93	36.2617569	-107.6881777
8,745.00	92.05	281.55	5,359.13	1,264.29	-4,028.13	1,914,566.18	542,732.23	36.2617916	-107.6883869
8,808.00	92.39	281.33	5,356.69	1,276.78	-4,089.84	1,914,578.57	542,670.51	36.2618258	-107.6885962
8,870.00	92.32	280.74	5,354.14	1,288.63	-4,150.64	1,914,590.33	542,609.69	36.2618584	-107.6888024
8,933.00	92.42	280.62	5,351.53	1,300.30	-4,212.49	1,914,601.89	542,547.81	36.2618904	-107.6890122
8,996.00	90.91	278.93	5,349.70	1,310.99	-4,274.55	1,914,612.48	542,485.74	36.2619198	-107.6892227
9,059.00	90.10	278.09	5,349.15	1,320.31	-4,336.85	1,914,621.70	542,423.42	36.2619453	-107.6894341

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-03E #403H
Project:	San Juan County NM NAD27	TVD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Site:	Chaco 2308-03E	MD Reference:	GL 6892' & RKB 14' @ 6906.00ft (Aztec 730)
Well:	Chaco 2308-03E #403H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,122.00	90.13	278.95	5,349.02	1,329.65	-4,399.16	1,914,630.93	542,361.10	36.2619709	-107.6896454	
9,185.00	90.10	277.79	5,348.90	1,338.82	-4,461.48	1,914,640.00	542,298.76	36.2619961	-107.6898568	
9,248.00	90.44	277.48	5,348.60	1,347.19	-4,523.92	1,914,648.27	542,236.31	36.2620191	-107.6900686	
9,311.00	90.17	277.53	5,348.26	1,355.41	-4,586.38	1,914,656.39	542,173.84	36.2620417	-107.6902805	
9,374.00	90.04	278.07	5,348.15	1,363.96	-4,648.80	1,914,664.84	542,111.40	36.2620651	-107.6904922	
9,437.00	89.63	278.96	5,348.33	1,373.29	-4,711.10	1,914,674.07	542,049.09	36.2620907	-107.6907036	
9,500.00	90.04	279.39	5,348.51	1,383.34	-4,773.30	1,914,684.01	541,986.88	36.2621183	-107.6909145	
9,562.00	89.76	279.36	5,348.62	1,393.44	-4,834.47	1,914,694.01	541,925.69	36.2621460	-107.6911220	
9,625.00	90.31	280.27	5,348.58	1,404.18	-4,896.55	1,914,704.65	541,863.59	36.2621755	-107.6913326	
9,688.00	90.04	280.80	5,348.39	1,415.70	-4,958.48	1,914,716.06	541,801.64	36.2622071	-107.6915427	
9,752.00	90.10	280.30	5,348.31	1,427.41	-5,021.40	1,914,727.68	541,738.70	36.2622392	-107.6917561	
9,815.00	90.64	279.83	5,347.90	1,438.42	-5,083.43	1,914,738.59	541,676.65	36.2622695	-107.6919665	
9,878.00	89.96	282.12	5,347.57	1,450.42	-5,145.27	1,914,750.48	541,614.79	36.2623024	-107.6921763	
9,940.00	90.54	281.39	5,347.30	1,463.05	-5,205.97	1,914,763.01	541,554.07	36.2623370	-107.6923822	
10,004.00	90.87	281.20	5,346.51	1,475.58	-5,268.73	1,914,775.44	541,491.30	36.2623714	-107.6925951	
10,066.00	91.34	280.56	5,345.32	1,487.28	-5,329.60	1,914,787.04	541,430.40	36.2624036	-107.6928015	
10,129.00	91.64	280.19	5,343.68	1,498.62	-5,391.55	1,914,798.28	541,368.44	36.2624347	-107.6930117	
10,191.00	91.63	279.83	5,341.91	1,509.40	-5,452.58	1,914,808.96	541,307.39	36.2624642	-107.6932187	
10,255.00	90.40	279.52	5,340.78	1,520.15	-5,515.66	1,914,819.61	541,244.29	36.2624938	-107.6934327	
10,317.00	90.60	279.50	5,340.24	1,530.39	-5,576.81	1,914,829.75	541,183.13	36.2625219	-107.6936401	
10,380.00	91.14	279.41	5,339.28	1,540.74	-5,638.94	1,914,840.00	541,120.98	36.2625503	-107.6938509	
10,444.00	91.61	278.99	5,337.74	1,550.97	-5,702.10	1,914,850.12	541,057.80	36.2625783	-107.6940651	
10,506.00	92.02	279.16	5,335.78	1,560.74	-5,763.29	1,914,859.79	540,996.59	36.2626051	-107.6942727	
10,554.90	92.02	278.97	5,334.06	1,568.44	-5,811.55	1,914,867.41	540,948.32	36.2626263	-107.6944364	
Base Perf @ 10,554.9' MD										
10,569.00	92.02	278.91	5,333.56	1,570.63	-5,825.47	1,914,869.58	540,934.40	36.2626323	-107.6944836	
10,600.00	92.65	279.34	5,332.30	1,575.54	-5,856.05	1,914,874.44	540,903.81	36.2626457	-107.6945873	
Last SDI Lateral MWD Survey										
10,664.00	92.65	279.34	5,329.34	1,585.92	-5,919.14	1,914,884.71	540,840.71	36.2626742	-107.6948013	
Projection to TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
64.00	64.00	0.00	0.00	First MS Gyro Survey	
364.00	364.00	-1.14	-0.99	Last MS Gyro Survey	
460.00	459.99	-1.65	-1.83	First SDI Surface MWD Survey	
4,784.00	4,688.46	662.49	-521.96	Last SDI Surface MWD Survey	
4,816.00	4,720.44	663.16	-522.66	First SDI Curve MWD Survey	
5,896.00	5,405.50	787.38	-1,221.03	Landing Point (POE) @ 5896' MD	
5,990.00	5,408.41	804.43	-1,313.42	Last SDI Curve MWD Survey	
6,049.00	5,408.63	815.69	-1,371.34	First SDI Lateral MWD Survey	
10,554.90	5,334.06	1,568.44	-5,811.55	Base Perf @ 10,554.9' MD	
10,600.00	5,332.30	1,575.54	-5,856.05	Last SDI Lateral MWD Survey	
10,664.00	5,329.34	1,585.92	-5,919.14	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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