

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 30-045-35587	*Pool Code 97232	*Pool Name BASIN MANCOS OIL CONS. DIV DIST. 3
*Property Code 40275	*Property Name CHACO 2308-04P	*Well Number 406H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6876'

NOV 03 2014

¹⁰ Surface Location

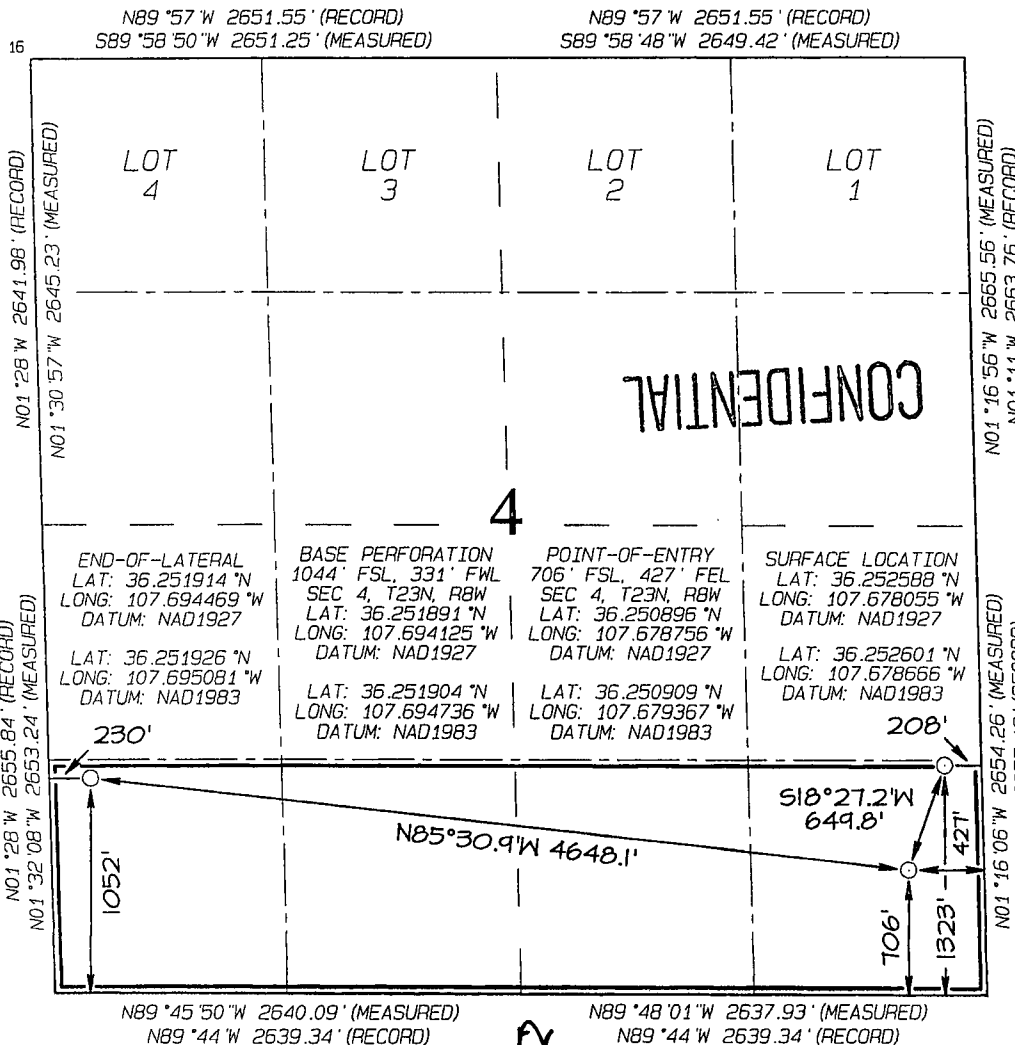
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	23N	8W		1323	SOUTH	208	EAST	SAN JUAN

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
M	4	23N	8W		1052	SOUTH	230	WEST	SAN JUAN

¹² Dedicated Acres 160.0 Acres - S/2 S/2	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



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 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 10/30/14

Printed Name
LARRY HIGGINS

E-mail Address
LARRYHIGGINS@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: OCTOBER 11, 2014
Survey Date: AUGUST 15, 2014

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



Company Name: WPX Energy Rocky Mountain, LLC
 Project: San Juan County, NM NAD27
 Site: Chaco 2308-04P
 Well: Chaco 2308-04P #406H

WPXENERGY

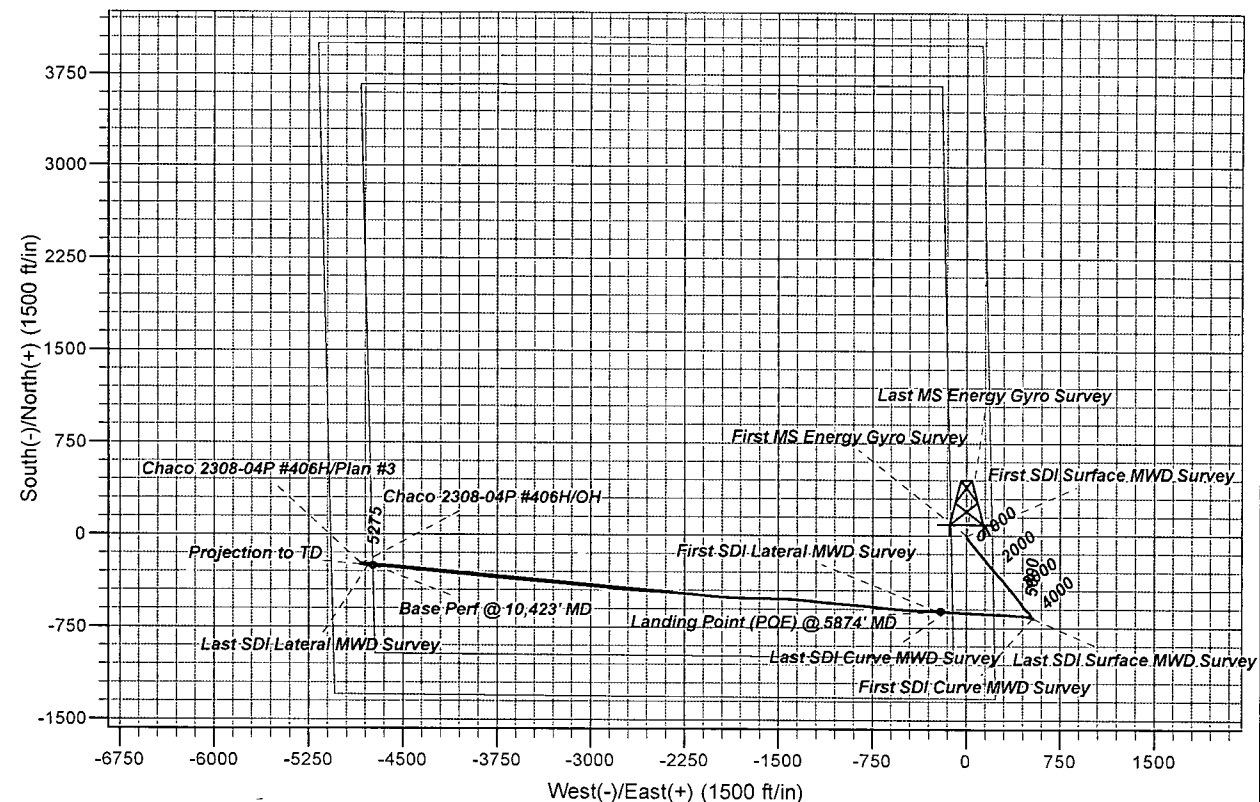
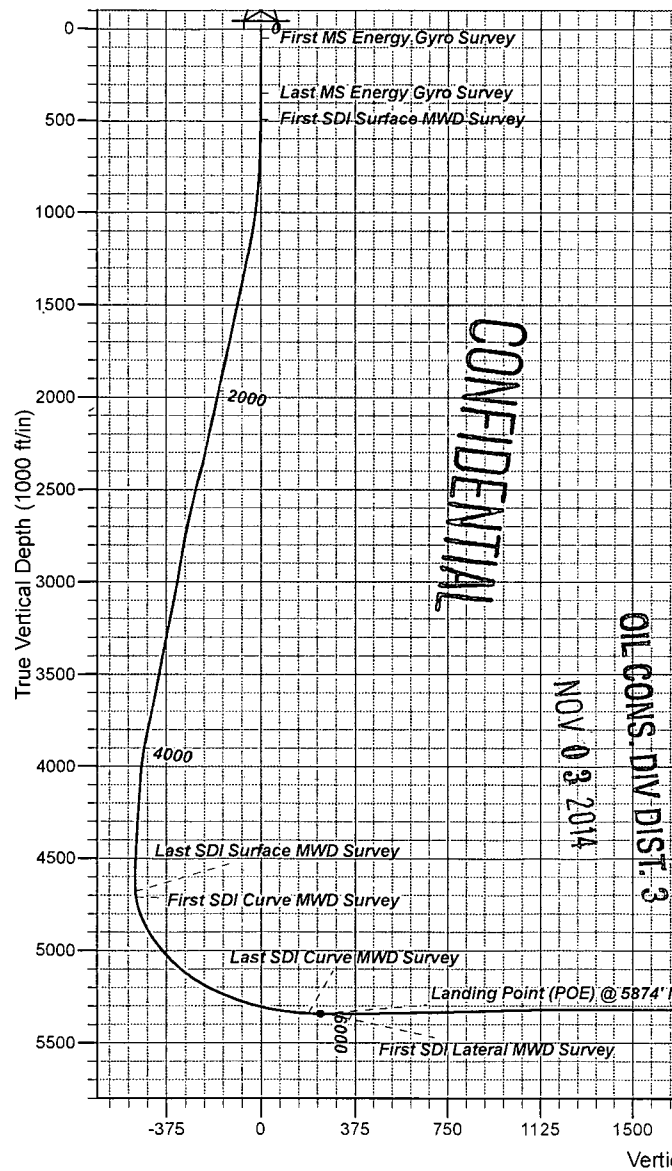


Azimuths to True North
 Magnetic North: 9.48°

Magnetic Field
 Strength: 50052.5snT
 Dip Angle: 62.99°
 Date: 9/26/2014
 Model: BGGM2014

WELL DETAILS: Chaco 2308-04P #406H

	+N/-S	+E/-W	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)	6876.00		
			Northing	Easting	Latitude	Longitude
	0.00	0.00	1911220.66	545783.57	36.2525880	-107.6780550



Design: OH (Chaco 2308-04P #406H/OH)
Created By: Janie Collins Date: 11:28, October 09 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

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-04P #406H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Site:	Chaco 2308-04P	MD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Well:	Chaco 2308-04P #406H	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 2308-04P				
Site Position:		Northing:	1,911,220.66 usft	Latitude:	36.2525880
From:	Lat/Long	Easting:	545,783.57 usft	Longitude:	-107.6780550
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.09 °

Well	Chaco 2308-04P #406H					
Well Position	+N/-S	0.00 ft	Northing:	1,911,220.66 usft	Latitude:	36.2525880
	+E/-W	0.00 ft	Easting:	545,783.57 usft	Longitude:	-107.6780550
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,876.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	9/26/2014	9.48	62.99	50,053

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	267.23	

Survey Program	Date	10/9/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	348.00	Survey #1 - Gyro Surveys (OH)	Gyro		
494.00	4,782.00	Survey #2 - Surface MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
4,814.00	5,826.00	Survey #3 - Curve MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,901.00	10,525.00	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	1,911,220.66	545,783.57	36.2525880	-107.6780550
50.00	0.11	285.34	50.00	0.01	-0.05	1,911,220.68	545,783.53	36.2525880	-107.6780552
First MS Energy Gyro Survey									
100.00	0.11	205.68	100.00	-0.02	-0.11	1,911,220.65	545,783.46	36.2525879	-107.6780554
150.00	0.17	153.84	150.00	-0.13	-0.10	1,911,220.54	545,783.47	36.2525876	-107.6780554
200.00	0.51	147.41	200.00	-0.38	0.05	1,911,220.28	545,783.63	36.2525869	-107.6780549
250.00	0.45	163.68	250.00	-0.76	0.23	1,911,219.91	545,783.80	36.2525859	-107.6780543
300.00	0.50	153.44	300.00	-1.14	0.38	1,911,219.52	545,783.95	36.2525848	-107.6780538

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-04P #406H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Site:	Chaco 2308-04P	MD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Well:	Chaco 2308-04P #406H	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
348.00	0.59	187.53	347.99	-1.57	0.44	1,911,219.09	545,784.02	36.2525837	-107.6780535
Last MS Energy Gyro Survey									
494.00	0.15	144.12	493.99	-2.47	0.45	1,911,218.19	545,784.03	36.2525812	-107.6780535
First SDI Surface MWD Survey									
526.00	0.74	164.53	525.99	-2.71	0.53	1,911,217.96	545,784.11	36.2525805	-107.6780532
588.00	1.99	153.53	587.97	-4.06	1.12	1,911,216.61	545,784.70	36.2525768	-107.6780512
650.00	2.73	158.99	649.92	-6.40	2.13	1,911,214.27	545,785.71	36.2525704	-107.6780478
713.00	3.93	154.91	712.81	-9.75	3.58	1,911,210.91	545,787.17	36.2525612	-107.6780429
776.00	5.57	149.58	775.59	-14.35	6.05	1,911,206.33	545,789.64	36.2525486	-107.6780345
838.00	6.57	147.47	837.24	-19.93	9.48	1,911,200.75	545,793.08	36.2525332	-107.6780229
901.00	7.96	145.49	899.74	-26.57	13.89	1,911,194.12	545,797.50	36.2525150	-107.6780079
964.00	8.86	142.38	962.06	-34.00	19.32	1,911,186.69	545,802.95	36.2524946	-107.6779895
1,026.00	10.55	141.23	1,023.17	-42.21	25.79	1,911,178.49	545,809.43	36.2524720	-107.6779676
1,089.00	12.13	142.02	1,084.94	-51.93	33.47	1,911,168.79	545,817.13	36.2524453	-107.6779415
1,152.00	13.20	141.96	1,146.40	-62.81	41.98	1,911,157.92	545,825.66	36.2524154	-107.6779127
1,212.00	14.83	143.15	1,204.62	-74.35	50.81	1,911,146.40	545,834.50	36.2523837	-107.6778827
1,273.00	15.04	140.18	1,263.56	-86.67	60.56	1,911,134.09	545,844.27	36.2523499	-107.6778497
1,304.00	14.90	140.26	1,293.50	-92.83	65.68	1,911,127.94	545,849.40	36.2523330	-107.6778323
1,365.00	14.78	140.97	1,352.47	-104.90	75.60	1,911,115.88	545,859.34	36.2522998	-107.6777987
1,426.00	14.49	139.52	1,411.49	-116.75	85.45	1,911,104.05	545,869.21	36.2522672	-107.6777652
1,487.00	14.05	139.21	1,470.61	-128.16	95.24	1,911,092.65	545,879.02	36.2522359	-107.6777320
1,549.00	14.52	142.24	1,530.69	-140.01	104.92	1,911,080.83	545,888.71	36.2522034	-107.6776992
1,611.00	14.66	142.57	1,590.69	-152.38	114.44	1,911,068.47	545,898.26	36.2521694	-107.6776669
1,672.00	15.43	142.30	1,649.60	-164.93	124.10	1,911,055.93	545,907.94	36.2521349	-107.6776342
1,732.00	16.68	143.40	1,707.26	-178.16	134.11	1,911,042.72	545,917.97	36.2520985	-107.6776002
1,794.00	16.78	143.39	1,766.64	-192.49	144.76	1,911,028.41	545,928.64	36.2520592	-107.6775641
1,855.00	16.17	142.48	1,825.13	-206.29	155.18	1,911,014.62	545,939.09	36.2520213	-107.6775287
1,916.00	15.77	141.36	1,883.78	-219.50	165.53	1,911,001.43	545,949.46	36.2519850	-107.6774936
1,977.00	15.36	140.19	1,942.54	-232.18	175.88	1,910,988.76	545,959.82	36.2519501	-107.6774585
2,038.00	14.55	139.83	2,001.47	-244.25	185.99	1,910,976.72	545,969.96	36.2519170	-107.6774242
2,098.00	13.73	138.94	2,059.65	-255.37	195.53	1,910,965.60	545,979.52	36.2518864	-107.6773919
2,158.00	13.78	140.57	2,117.93	-266.26	204.75	1,910,954.73	545,988.75	36.2518565	-107.6773606
2,218.00	15.13	140.74	2,176.03	-277.85	214.24	1,910,943.16	545,998.26	36.2518247	-107.6773284
2,279.00	15.84	140.44	2,234.82	-290.43	224.58	1,910,930.60	546,008.62	36.2517901	-107.6772934
2,339.00	15.74	140.90	2,292.55	-303.06	234.93	1,910,917.98	546,018.99	36.2517554	-107.6772583
2,401.00	16.45	139.70	2,352.12	-316.28	245.91	1,910,904.78	546,029.99	36.2517191	-107.6772210
2,461.00	16.24	139.17	2,409.70	-329.11	256.89	1,910,891.97	546,040.99	36.2516839	-107.6771838
2,522.00	17.00	138.61	2,468.15	-342.25	268.37	1,910,878.85	546,052.49	36.2516478	-107.6771449
2,583.00	16.93	139.34	2,526.50	-355.68	280.05	1,910,865.44	546,064.19	36.2516109	-107.6771053
2,643.00	16.18	137.33	2,584.01	-368.45	291.41	1,910,852.68	546,075.57	36.2515758	-107.6770667
2,706.00	14.68	138.95	2,644.74	-380.93	302.60	1,910,840.22	546,086.78	36.2515415	-107.6770288
2,769.00	13.86	138.42	2,705.79	-392.59	312.85	1,910,828.58	546,097.05	36.2515095	-107.6769940
2,832.00	12.95	142.51	2,767.08	-403.84	322.15	1,910,817.34	546,106.37	36.2514786	-107.6769625
2,894.00	12.50	145.46	2,827.55	-414.88	330.19	1,910,806.32	546,114.43	36.2514483	-107.6769352
2,957.00	12.52	143.33	2,889.06	-425.97	338.13	1,910,795.24	546,122.39	36.2514178	-107.6769083
3,020.00	12.66	141.58	2,950.54	-436.86	346.50	1,910,784.36	546,130.77	36.2513879	-107.6768799
3,083.00	12.32	143.20	3,012.05	-447.65	354.82	1,910,773.59	546,139.11	36.2513582	-107.6768517
3,146.00	12.79	139.92	3,073.55	-458.36	363.33	1,910,762.88	546,147.64	36.2513288	-107.6768228
3,209.00	13.87	139.69	3,134.85	-469.46	372.71	1,910,751.80	546,157.03	36.2512983	-107.6767910
3,272.00	14.12	140.48	3,195.98	-481.14	382.48	1,910,740.13	546,166.83	36.2512662	-107.6767579
3,335.00	14.49	139.76	3,257.03	-493.09	392.46	1,910,728.21	546,176.83	36.2512334	-107.6767240
3,398.00	14.19	138.55	3,318.06	-504.89	402.67	1,910,716.42	546,187.05	36.2512010	-107.6766894
3,461.00	14.20	145.34	3,379.14	-517.04	412.17	1,910,704.29	546,196.57	36.2511676	-107.6766572
3,524.00	14.55	148.30	3,440.17	-530.13	420.73	1,910,691.21	546,205.15	36.2511316	-107.6766282
3,587.00	14.99	146.04	3,501.09	-543.62	429.44	1,910,677.74	546,213.88	36.2510946	-107.6765986



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-04P #406H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Site:	Chaco 2308-04P	MD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Well:	Chaco 2308-04P #406H	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
3,650.00	15.38	145.71	3,561.89	-557.28	438.69	1,910,664.09	546,223.16	36.2510571	-107.6765672
3,713.00	15.38	145.25	3,622.63	-571.04	448.16	1,910,650.34	546,232.65	36.2510192	-107.6765351
3,776.00	14.79	139.76	3,683.47	-584.05	458.12	1,910,637.35	546,242.63	36.2509835	-107.6765013
3,839.00	13.66	136.13	3,744.54	-595.55	468.47	1,910,625.87	546,253.00	36.2509519	-107.6764662
3,902.00	12.92	135.43	3,805.85	-605.93	478.57	1,910,615.50	546,263.11	36.2509234	-107.6764320
3,964.00	11.20	134.42	3,866.48	-615.08	487.73	1,910,606.36	546,272.29	36.2508982	-107.6764009
4,028.00	9.40	130.10	3,929.44	-622.80	496.17	1,910,598.66	546,280.74	36.2508770	-107.6763723
4,090.00	7.66	135.95	3,990.76	-629.03	502.92	1,910,592.44	546,287.50	36.2508599	-107.6763494
4,153.00	6.71	147.95	4,053.27	-635.17	507.79	1,910,586.31	546,292.38	36.2508431	-107.6763329
4,216.00	6.43	154.91	4,115.85	-641.48	511.24	1,910,580.00	546,295.84	36.2508257	-107.6763212
4,279.00	6.23	151.99	4,178.47	-647.70	514.34	1,910,573.79	546,298.95	36.2508087	-107.6763107
4,342.00	6.37	154.29	4,241.09	-653.86	517.46	1,910,567.63	546,302.08	36.2507917	-107.6763001
4,405.00	5.13	146.24	4,303.77	-659.36	520.54	1,910,562.14	546,305.17	36.2507766	-107.6762896
4,467.00	4.97	142.38	4,365.53	-663.79	523.72	1,910,557.72	546,308.36	36.2507645	-107.6762788
4,531.00	3.93	136.82	4,429.34	-667.58	526.92	1,910,553.93	546,311.56	36.2507540	-107.6762680
4,593.00	2.68	131.26	4,491.23	-670.09	529.46	1,910,551.43	546,314.11	36.2507471	-107.6762594
4,657.00	1.22	118.43	4,555.19	-671.40	531.19	1,910,550.12	546,315.83	36.2507435	-107.6762535
4,688.00	1.14	110.82	4,586.19	-671.67	531.76	1,910,549.85	546,316.41	36.2507428	-107.6762516
4,720.00	1.00	101.27	4,618.18	-671.83	532.34	1,910,549.69	546,316.98	36.2507423	-107.6762496
4,751.00	1.07	307.10	4,649.18	-671.71	532.37	1,910,549.81	546,317.02	36.2507427	-107.6762495
4,782.00	4.20	297.44	4,680.14	-671.01	531.13	1,910,550.50	546,315.78	36.2507446	-107.6762537
Last SDI Surface MWD Survey									
4,814.00	7.74	296.18	4,711.96	-669.52	528.16	1,910,551.99	546,312.80	36.2507487	-107.6762638
First SDI Curve MWD Survey									
4,845.00	10.62	295.06	4,742.56	-667.39	523.69	1,910,554.11	546,308.34	36.2507546	-107.6762789
4,876.00	13.60	290.26	4,772.87	-664.92	517.69	1,910,556.58	546,302.32	36.2507613	-107.6762993
4,908.00	16.07	284.00	4,803.81	-662.54	509.86	1,910,558.94	546,294.49	36.2507679	-107.6763259
4,939.00	18.20	279.31	4,833.43	-660.72	500.92	1,910,560.75	546,285.55	36.2507729	-107.6763562
4,971.00	20.36	279.03	4,863.63	-659.04	490.48	1,910,562.41	546,275.11	36.2507775	-107.6763916
5,002.00	23.65	281.15	4,892.37	-656.99	479.06	1,910,564.44	546,263.68	36.2507831	-107.6764303
5,033.00	25.83	280.54	4,920.52	-654.55	466.31	1,910,566.86	546,250.94	36.2507898	-107.6764735
5,065.00	28.84	280.01	4,948.95	-651.93	451.86	1,910,569.45	546,236.47	36.2507970	-107.6765226
5,096.00	30.69	276.75	4,975.86	-649.71	436.64	1,910,571.66	546,221.25	36.2508031	-107.6765742
5,127.00	32.01	271.13	5,002.34	-648.61	420.56	1,910,572.73	546,205.17	36.2508061	-107.6766287
5,159.00	33.85	269.46	5,029.20	-648.53	403.17	1,910,572.78	546,187.78	36.2508064	-107.6766877
5,190.00	36.49	271.49	5,054.53	-648.37	385.32	1,910,572.91	546,169.93	36.2508068	-107.6767483
5,222.00	38.01	273.36	5,080.01	-647.55	365.97	1,910,573.71	546,150.58	36.2508091	-107.6768139
5,253.00	40.89	274.39	5,103.94	-646.21	346.32	1,910,575.01	546,130.93	36.2508127	-107.6768805
5,285.00	43.55	273.78	5,127.64	-644.68	324.87	1,910,576.50	546,109.48	36.2508169	-107.6769533
5,316.00	47.22	273.60	5,149.41	-643.26	302.85	1,910,577.89	546,087.46	36.2508208	-107.6770279
5,347.00	49.67	272.69	5,169.97	-641.99	279.69	1,910,579.12	546,064.29	36.2508243	-107.6771065
5,379.00	52.85	272.80	5,189.99	-640.80	254.76	1,910,580.28	546,039.36	36.2508276	-107.6771910
5,411.00	55.98	272.71	5,208.61	-639.55	228.77	1,910,581.48	546,013.37	36.2508311	-107.6772792
5,442.00	59.97	272.58	5,225.05	-638.34	202.52	1,910,582.65	545,987.12	36.2508344	-107.6773682
5,474.00	60.79	271.76	5,240.86	-637.28	174.73	1,910,583.66	545,959.32	36.2508373	-107.6774625
5,506.00	62.26	271.57	5,256.12	-636.47	146.61	1,910,584.43	545,931.20	36.2508395	-107.6775578
5,537.00	64.36	271.68	5,270.04	-635.68	118.93	1,910,585.18	545,903.52	36.2508417	-107.6776517
5,569.00	66.74	272.72	5,283.29	-634.56	89.82	1,910,586.25	545,874.41	36.2508448	-107.6777504
5,600.00	68.61	272.89	5,295.06	-633.16	61.18	1,910,587.61	545,845.77	36.2508486	-107.6778476
5,631.00	71.40	273.86	5,305.66	-631.44	32.10	1,910,589.28	545,816.69	36.2508533	-107.6779462
5,661.00	73.98	273.61	5,314.59	-629.57	3.52	1,910,591.10	545,788.11	36.2508585	-107.6780431
5,694.00	77.56	274.03	5,322.70	-627.44	-28.39	1,910,593.18	545,756.19	36.2508643	-107.6781513
5,725.00	80.17	274.02	5,328.68	-625.31	-58.73	1,910,595.26	545,725.85	36.2508702	-107.6782542
5,757.00	82.31	274.12	5,333.56	-623.06	-90.27	1,910,597.46	545,694.30	36.2508763	-107.6783612
5,788.00	83.23	273.74	5,337.46	-620.96	-120.95	1,910,599.52	545,663.62	36.2508821	-107.6784653



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-04P #406H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Site:	Chaco 2308-04P	MD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Well:	Chaco 2308-04P #406H	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
5,819.00	86.09	274.39	5,340.34	-618.77	-151.74	1,910,601.65	545,632.83	36.2508881	-107.6785697
5,826.00	86.30	273.95	5,340.81	-618.26	-158.70	1,910,602.15	545,625.86	36.2508895	-107.6785933
Last SDI Curve MWD Survey									
5,874.00	88.78	271.56	5,342.87	-615.95	-206.60	1,910,604.38	545,577.97	36.2508959	-107.6787557
Landing Point (POE) @ 5874' MD - 36.2508959, -107.6787557									
5,901.00	90.17	270.22	5,343.12	-615.54	-233.59	1,910,604.76	545,550.97	36.2508970	-107.6788473
First SDI Lateral MWD Survey									
5,931.00	90.40	270.71	5,342.97	-615.29	-263.59	1,910,604.95	545,520.97	36.2508977	-107.6789490
5,991.00	90.81	271.06	5,342.33	-614.37	-323.58	1,910,605.78	545,460.98	36.2509002	-107.6791525
6,052.00	91.01	272.79	5,341.37	-612.32	-384.53	1,910,607.73	545,400.02	36.2509059	-107.6793592
6,112.00	91.28	274.37	5,340.17	-608.57	-444.40	1,910,611.38	545,340.15	36.2509161	-107.6795622
6,174.00	91.55	275.43	5,338.64	-603.28	-506.16	1,910,616.58	545,278.39	36.2509307	-107.6797717
6,234.00	91.38	275.54	5,337.10	-597.54	-565.86	1,910,622.21	545,218.67	36.2509464	-107.6799742
6,295.00	91.35	275.47	5,335.65	-591.69	-626.56	1,910,627.97	545,157.96	36.2509625	-107.6801800
6,356.00	91.21	275.60	5,334.29	-585.81	-687.26	1,910,633.75	545,097.25	36.2509787	-107.6803859
6,416.00	91.51	275.59	5,332.86	-579.96	-746.96	1,910,639.50	545,037.54	36.2509947	-107.6805884
6,478.00	91.54	275.33	5,331.21	-574.07	-808.66	1,910,645.30	544,975.84	36.2510109	-107.6807976
6,541.00	91.89	275.52	5,329.33	-568.11	-871.35	1,910,651.16	544,913.14	36.2510273	-107.6810102
6,603.00	92.45	274.76	5,326.98	-562.56	-933.05	1,910,656.61	544,851.43	36.2510425	-107.6812195
6,666.00	91.14	274.52	5,325.01	-557.47	-995.82	1,910,661.60	544,788.66	36.2510565	-107.6814323
6,729.00	91.62	274.44	5,323.49	-552.55	-1,058.60	1,910,666.42	544,725.86	36.2510700	-107.6816453
6,792.00	91.38	274.43	5,321.84	-547.68	-1,121.39	1,910,671.19	544,663.06	36.2510834	-107.6818582
6,856.00	90.91	277.05	5,320.56	-541.28	-1,185.05	1,910,677.49	544,599.39	36.2511009	-107.6820741
6,919.00	90.60	276.68	5,319.73	-533.75	-1,247.60	1,910,684.92	544,536.84	36.2511216	-107.6822863
6,982.00	90.17	276.13	5,319.31	-526.72	-1,310.20	1,910,691.84	544,474.22	36.2511409	-107.6824986
7,044.00	89.50	274.52	5,319.49	-520.97	-1,371.93	1,910,697.50	544,412.48	36.2511567	-107.6827079
7,107.00	90.00	272.53	5,319.76	-517.09	-1,434.81	1,910,701.27	544,349.60	36.2511673	-107.6829212
7,170.00	90.07	271.68	5,319.72	-514.78	-1,497.77	1,910,703.48	544,286.64	36.2511737	-107.6831347
7,233.00	89.43	270.53	5,320.00	-513.57	-1,560.75	1,910,704.60	544,223.65	36.2511770	-107.6833483
7,296.00	90.44	269.98	5,320.07	-513.29	-1,623.75	1,910,704.78	544,160.65	36.2511778	-107.6835620
7,359.00	90.60	270.04	5,319.50	-513.27	-1,686.75	1,910,704.69	544,097.65	36.2511778	-107.6837756
7,422.00	92.38	270.84	5,317.86	-512.79	-1,749.72	1,910,705.07	544,034.68	36.2511791	-107.6839892
7,485.00	93.67	272.15	5,314.53	-511.15	-1,812.61	1,910,706.61	543,971.79	36.2511836	-107.6842025
7,547.00	93.77	272.23	5,310.51	-508.79	-1,874.43	1,910,708.87	543,909.96	36.2511901	-107.6844122
7,612.00	91.35	274.33	5,307.61	-505.07	-1,939.25	1,910,712.49	543,845.14	36.2512003	-107.6846320
7,674.00	91.88	276.16	5,305.86	-499.40	-2,000.97	1,910,718.05	543,783.41	36.2512159	-107.6848413
7,738.00	92.52	276.08	5,303.40	-492.59	-2,064.56	1,910,724.77	543,719.82	36.2512346	-107.6850570
7,801.00	90.91	276.27	5,301.52	-485.81	-2,127.16	1,910,731.44	543,657.20	36.2512532	-107.6852693
7,863.00	89.13	274.81	5,301.50	-479.83	-2,188.87	1,910,737.33	543,595.48	36.2512696	-107.6854786
7,926.00	89.19	274.65	5,302.42	-474.63	-2,251.64	1,910,742.42	543,532.70	36.2512838	-107.6856915
7,989.00	90.44	274.57	5,302.62	-469.57	-2,314.44	1,910,747.38	543,469.90	36.2512977	-107.6859045
8,051.00	90.07	273.65	5,302.35	-465.13	-2,376.28	1,910,751.73	543,408.05	36.2513099	-107.6861142
8,115.00	90.57	273.16	5,301.99	-461.33	-2,440.16	1,910,755.43	543,344.16	36.2513204	-107.6863309
8,178.00	91.11	272.66	5,301.07	-458.13	-2,503.08	1,910,758.53	543,281.24	36.2513291	-107.6865442
8,241.00	91.51	273.27	5,299.63	-454.87	-2,565.97	1,910,761.68	543,218.34	36.2513381	-107.6867576
8,303.00	91.14	273.69	5,298.19	-451.11	-2,627.84	1,910,765.35	543,156.46	36.2513484	-107.6869674
8,366.00	91.28	274.20	5,296.86	-446.77	-2,690.68	1,910,769.58	543,093.62	36.2513603	-107.6871805
8,429.00	90.57	275.47	5,295.84	-441.46	-2,753.45	1,910,774.79	543,030.85	36.2513748	-107.6873934
8,492.00	89.66	276.30	5,295.72	-435.01	-2,816.11	1,910,781.15	542,968.17	36.2513926	-107.6876059
8,555.00	89.63	276.02	5,296.11	-428.25	-2,878.75	1,910,787.81	542,905.52	36.2514111	-107.6878183
8,618.00	91.28	275.83	5,295.61	-421.74	-2,941.41	1,910,794.21	542,842.85	36.2514290	-107.6880308
8,680.00	90.88	275.34	5,294.44	-415.71	-3,003.10	1,910,800.14	542,781.15	36.2514455	-107.6882401
8,743.00	91.21	275.48	5,293.29	-409.77	-3,065.81	1,910,805.98	542,718.43	36.2514618	-107.6884528
8,805.00	91.58	275.55	5,291.78	-403.81	-3,127.50	1,910,811.84	542,656.73	36.2514782	-107.6886620
8,868.00	89.66	275.71	5,291.10	-397.63	-3,190.19	1,910,817.92	542,594.03	36.2514951	-107.6888746



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-04P #406H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Site:	Chaco 2308-04P	MD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Well:	Chaco 2308-04P #406H	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
8,930.00	89.46	275.71	5,291.58	-391.47	-3,251.88	1,910,823.99	542,532.33	36.2515121	-107.6890839
8,993.00	90.87	275.61	5,291.39	-385.25	-3,314.58	1,910,830.10	542,469.63	36.2515291	-107.6892965
9,056.00	90.94	275.65	5,290.40	-379.07	-3,377.26	1,910,836.18	542,406.93	36.2515461	-107.6895091
9,119.00	91.11	275.68	5,289.27	-372.86	-3,439.95	1,910,842.30	542,344.24	36.2515631	-107.6897217
9,183.00	90.67	275.10	5,288.28	-366.84	-3,503.65	1,910,848.20	542,280.52	36.2515796	-107.6899377
9,246.00	91.04	274.47	5,287.34	-361.59	-3,566.43	1,910,853.36	542,217.74	36.2515940	-107.6901506
9,309.00	91.81	273.87	5,285.77	-357.01	-3,629.24	1,910,857.84	542,154.92	36.2516066	-107.6903637
9,371.00	92.35	274.36	5,283.52	-352.56	-3,691.04	1,910,862.18	542,093.11	36.2516188	-107.6905733
9,435.00	92.68	275.83	5,280.71	-346.89	-3,754.72	1,910,867.76	542,029.42	36.2516344	-107.6907893
9,498.00	92.01	275.54	5,278.13	-340.65	-3,817.36	1,910,873.90	541,966.77	36.2516515	-107.6910017
9,561.00	90.20	275.51	5,276.92	-334.59	-3,880.05	1,910,879.86	541,904.07	36.2516681	-107.6912143
9,624.00	89.26	275.32	5,277.22	-328.64	-3,942.77	1,910,885.70	541,841.34	36.2516844	-107.6914270
9,686.00	89.50	275.52	5,277.89	-322.79	-4,004.49	1,910,891.46	541,779.61	36.2517005	-107.6916364
9,749.00	90.00	275.46	5,278.16	-316.76	-4,067.20	1,910,897.39	541,716.89	36.2517170	-107.6918490
9,812.00	91.04	275.51	5,277.59	-310.74	-4,129.91	1,910,903.31	541,654.18	36.2517335	-107.6920617
9,875.00	90.81	275.42	5,276.57	-304.74	-4,192.61	1,910,909.21	541,591.46	36.2517500	-107.6922744
9,939.00	90.24	275.49	5,275.99	-298.65	-4,256.32	1,910,915.19	541,527.75	36.2517667	-107.6924905
10,001.00	90.70	275.89	5,275.48	-292.51	-4,318.01	1,910,921.24	541,466.04	36.2517835	-107.6926997
10,064.00	89.66	275.37	5,275.28	-286.33	-4,380.71	1,910,927.32	541,403.34	36.2518005	-107.6929123
10,126.00	89.06	275.74	5,275.97	-280.32	-4,442.41	1,910,933.22	541,341.63	36.2518169	-107.6931216
10,189.00	90.04	275.53	5,276.47	-274.14	-4,505.11	1,910,939.30	541,278.92	36.2518339	-107.6933342
10,251.00	90.13	275.70	5,276.38	-268.07	-4,566.81	1,910,945.27	541,217.21	36.2518505	-107.6935435
10,314.00	89.60	275.00	5,276.52	-262.20	-4,629.53	1,910,951.05	541,154.48	36.2518666	-107.6937562
10,376.00	89.56	274.71	5,276.98	-256.95	-4,691.31	1,910,956.19	541,092.69	36.2518810	-107.6939658
10,423.00	90.31	274.44	5,277.03	-253.20	-4,738.16	1,910,959.87	541,045.84	36.2518913	-107.6941246
Base Perf @ 10,423' MD - 36.2518913, -107.6941246									
10,439.00	90.57	274.35	5,276.91	-251.98	-4,754.11	1,910,961.07	541,029.88	36.2518947	-107.6941788
10,462.00	91.08	274.65	5,276.58	-250.17	-4,777.04	1,910,962.84	541,006.95	36.2518996	-107.6942565
Last SDI Lateral MWD Survey									
10,525.00	91.08	274.65	5,275.39	-245.06	-4,839.82	1,910,967.84	540,944.16	36.2519136	-107.6944694
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
50.00	50.00	0.01	-0.05	First MS Energy Gyro Survey
348.00	347.99	-1.57	0.44	Last MS Energy Gyro Survey
494.00	493.99	-2.47	0.45	First SDI Surface MWD Survey
4,782.00	4,680.14	-671.01	531.13	Last SDI Surface MWD Survey
4,814.00	4,711.96	-669.52	528.16	First SDI Curve MWD Survey
5,826.00	5,340.81	-618.26	-158.70	Last SDI Curve MWD Survey
5,874.00	5,342.87	-615.95	-206.60	Landing Point (POE) @ 5874' MD
5,874.00	5,342.87	-615.95	-206.60	36.2508959, -107.6787557
5,901.00	5,343.12	-615.54	-233.59	First SDI Lateral MWD Survey
10,423.00	5,277.03	-253.20	-4,738.16	Base Perf @ 10,423' MD
10,423.00	5,277.03	-253.20	-4,738.16	36.2518913, -107.6941246
10,462.00	5,276.58	-250.17	-4,777.04	Last SDI Lateral MWD Survey
10,525.00	5,275.39	-245.06	-4,839.82	Projection to TD

Company:	WPX Energy, Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-04P #406H
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Site:	Chaco 2308-04P	MD Reference:	GL 6876' & RKB 14' @ 6890.00ft (Aztec 730)
Well:	Chaco 2308-04P #406H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Checked By: _____ Approved By: _____ Date: _____