

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 30-039-31293		*Pool Code 98088	*Pool Name CHACO UNIT NE HZ (OIL)
*Property Code 313800	*Property Name NE CHACO COM		*Well Number 210H
*GRID No 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6858'

¹⁰ Surface Location

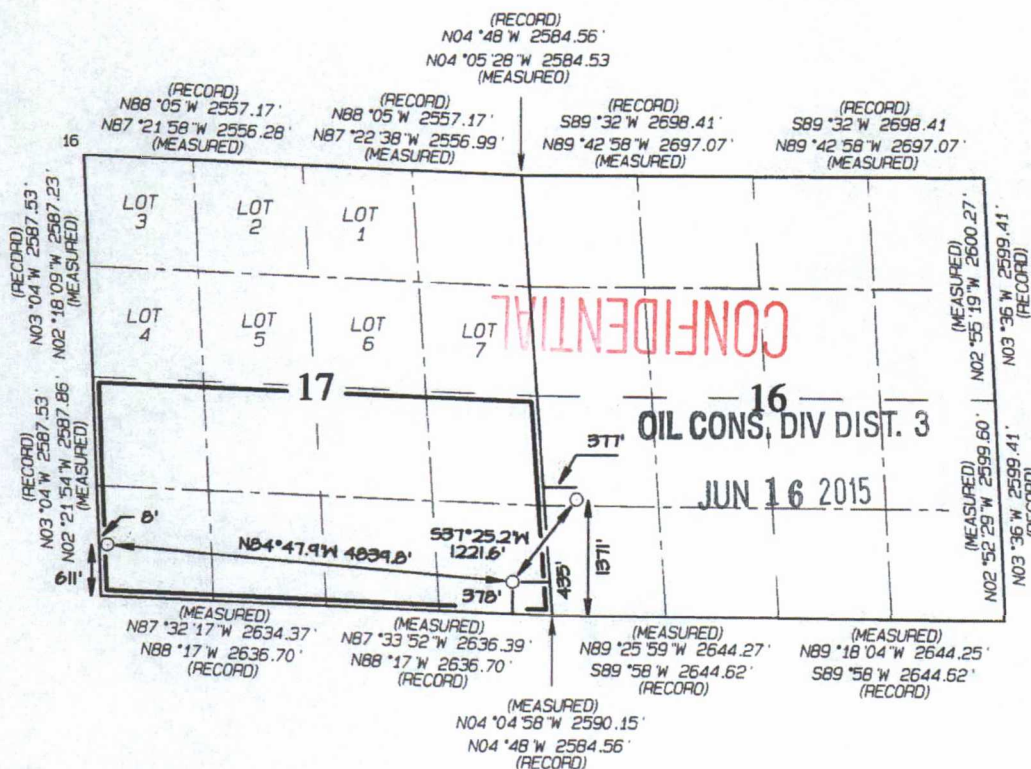
UL or lot no.	Section	Township	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County
L	16	23N	6W		1371	SOUTH	377	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County
M	17	23N	6W		611	SOUTH	8	WEST	RIO ARriba

¹² Dedicated Acres 320.0 Acres S/2 - Section 17		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13817-A
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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: *[Signature]* Date: 6/15/15
LACEY GRANILLO
Printed Name
lacey.granillo@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: MAY 27, 2015
Survey Date: SEPTEMBER 4, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

END-OF-LATERAL
611' FSL 8' FWL
SECTION 17, T23N, R6W
LAT: 36.219701°N
LONG: 107.499955°W
DATUM: NAD1927

RSI TOOL
610' FSL 118' FWL
SECTION 17, T23N, R6W
LAT: 36.219688°N
LONG: 107.499583°W
DATUM: NAD1927

POINT-OF-ENTRY
378' FSL 435' FEL
SECTION 17, T23N, R6W
LAT: 36.218665°N
LONG: 107.483600°W
DATUM: NAD1927

SURFACE LOCATION
1371' FSL 377' FWL
SECTION 16, T23N, R6W
LAT: 36.221354°N
LONG: 107.481126°W
DATUM: NAD1927

LAT: 36.219714°N
LONG: 107.500561°W
DATUM: NAD1983

LAT: 36.219701°N
LONG: 107.500188°W
DATUM: NAD1983

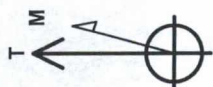
LAT: 36.218679°N
LONG: 107.484205°W
DATUM: NAD1983

LAT: 36.221368°N
LONG: 107.481730°W
DATUM: NAD1983

AV

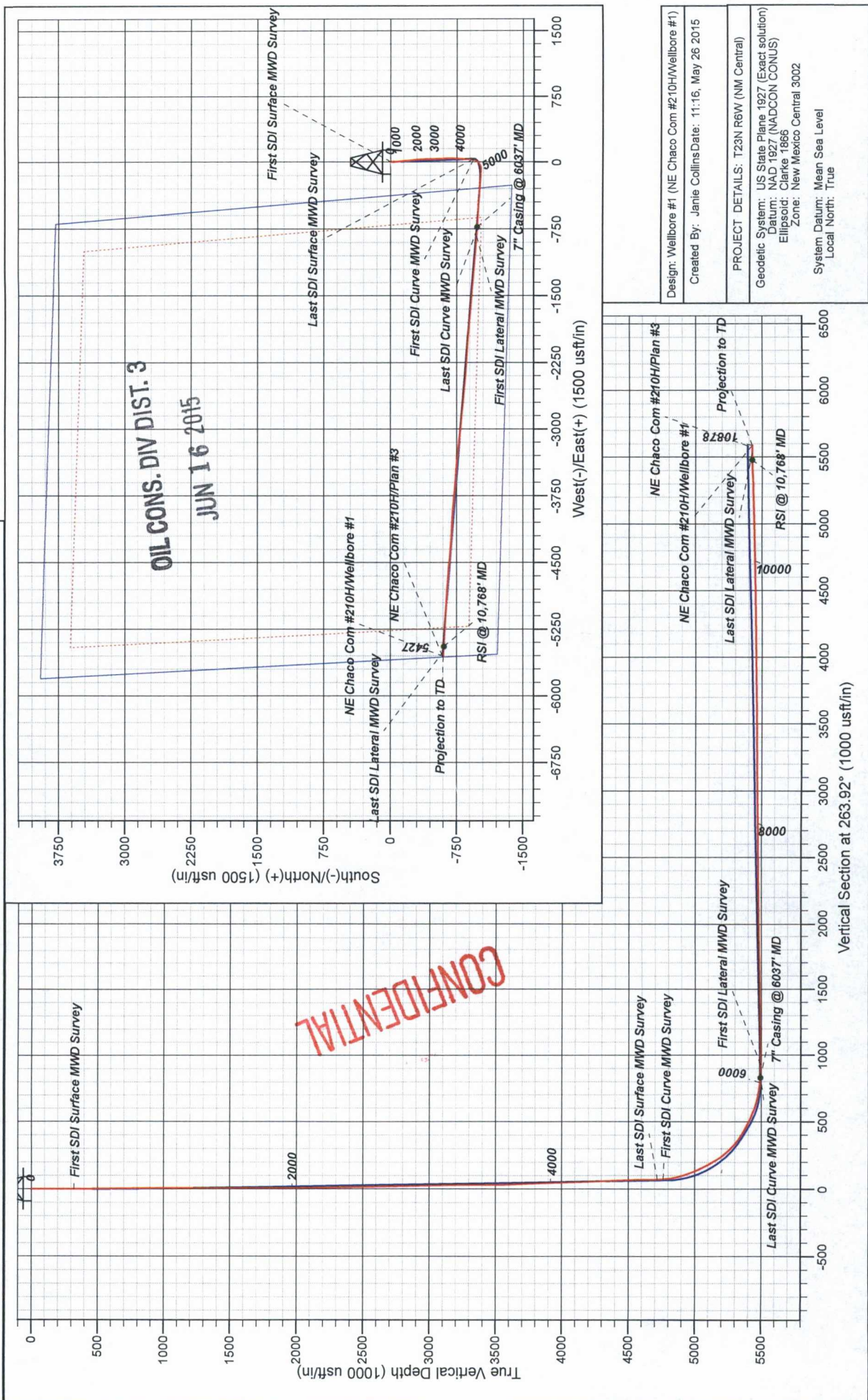


Company Name: WPX Energy
Project: T23N R6W (NM Central)
Site: Chaco 2306-16L
Well: NE Chaco Com #210H



Azinuths to True North:
Magnetic North: 9.05°
Magnetic Field
Strength: 49810.7snT
Dip Angle: 62.93°
Date: 5/17/2015
Model: HDGM

WELL DETAILS: NE Chaco Com #210H			
KB @ 6886.00usft (Aztec 1000)	6861.00	Longitude	A5
Northing	Latitude		
1902088.33	36.2213540	-107.4811260	
+E/-W	0.00		
+N/-S	0.00		



Design: Wellbore #1 (NE Chaco Com #210H/Wellbore #1)
Created By: Janie Collins Date: 11:16, May 26 2015
PROJECT DETAILS: T23N R6W (NM Central)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002
System Datum: Mean Sea Level
Local North: True



JUN 16 2015



Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #210H - Slot A5
Project:	T23N R6W (NM Central)	TVD Reference:	KB @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	KB @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #210H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Project	T23N R6W (NM Central)		
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		Using geodetic scale factor

Site	Chaco 2306-16L		
Site Position:		Northing:	1,902,127.16 usft
From:	Lat/Long	Easting:	136,839.32 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.2214600
		Longitude:	-107.4811900
		Grid Convergence:	-0.73 °

Well	NE Chaco Com #210H - Slot A5		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.2213540
		Longitude:	-107.4811261
		Ground Level:	6,861.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	5/11/2015	9.05
			Dip Angle (°)
			62.93
			Field Strength (nT)
			49,811

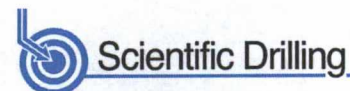
Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			263.92

Survey Program	Date 5/26/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
25.00	286.00	Survey #1 (Wellbore #1)	GYRO-NS
323.00	4,825.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD
4,870.00	6,067.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD
6,138.00	10,878.00	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD
			Description
			Gyrocompass Gyro
			SDI MWD - Standard ver 1.0.1
			SDI MWD - Standard ver 1.0.1
			SDI MWD - Standard ver 1.0.1

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,902,088.33	136,857.70	36.2213540	-107.4811261
25.00	0.00	0.00	25.00	0.00	0.00	1,902,088.33	136,857.70	36.2213540	-107.4811261
55.00	1.26	157.67	55.00	-0.31	0.13	1,902,088.03	136,857.82	36.2213532	-107.4811256
85.00	1.21	162.19	84.99	-0.91	0.35	1,902,087.42	136,858.04	36.2213515	-107.4811249
115.00	0.89	161.02	114.99	-1.43	0.52	1,902,086.89	136,858.21	36.2213501	-107.4811243
145.00	1.12	175.66	144.98	-1.95	0.62	1,902,086.38	136,858.30	36.2213486	-107.4811240
175.00	1.00	174.54	174.98	-2.50	0.67	1,902,085.82	136,858.34	36.2213471	-107.4811238
205.00	0.88	175.96	204.97	-2.99	0.71	1,902,085.33	136,858.37	36.2213458	-107.4811237
235.00	0.80	185.39	234.97	-3.43	0.70	1,902,084.90	136,858.36	36.2213446	-107.4811237



Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #210H - Slot A5
Project:	T23N R6W (NM Central)	TVD Reference:	KB @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	KB @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #210H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
265.00	0.93	195.97	264.97	-3.87	0.62	1,902,084.45	136,858.27	36.2213434	-107.4811240
286.00	1.16	211.82	285.96	-4.22	0.46	1,902,084.11	136,858.11	36.2213424	-107.4811245
323.00	1.03	209.74	322.95	-4.82	0.09	1,902,083.51	136,857.74	36.2213407	-107.4811257
First SDI Surface MWD Survey									
360.00	0.91	207.08	359.95	-5.37	-0.20	1,902,082.96	136,857.43	36.2213392	-107.4811267
451.00	2.80	177.09	450.90	-8.24	-0.42	1,902,080.10	136,857.18	36.2213314	-107.4811275
542.00	2.82	181.35	541.79	-12.69	-0.36	1,902,075.64	136,857.18	36.2213191	-107.4811273
634.00	4.37	189.77	633.61	-18.41	-1.01	1,902,069.94	136,856.46	36.2213034	-107.4811295
725.00	6.12	187.95	724.22	-26.63	-2.27	1,902,061.73	136,855.10	36.2212808	-107.4811337
816.00	8.04	177.96	814.53	-37.80	-2.71	1,902,050.57	136,854.51	36.2212502	-107.4811353
907.00	8.40	176.31	904.59	-50.79	-2.06	1,902,037.57	136,855.00	36.2212145	-107.4811330
999.00	9.91	173.16	995.42	-65.36	-0.68	1,902,022.99	136,856.19	36.2211745	-107.4811284
1,090.00	11.99	172.09	1,084.76	-82.50	1.55	1,902,005.82	136,858.21	36.2211274	-107.4811208
1,181.00	12.03	172.02	1,173.77	-101.25	4.17	1,901,987.03	136,860.59	36.2210759	-107.4811119
1,273.00	11.47	171.28	1,263.84	-119.79	6.89	1,901,968.46	136,863.07	36.2210249	-107.4811027
1,364.00	12.09	178.01	1,352.92	-138.26	8.59	1,901,949.97	136,864.54	36.2209742	-107.4810969
1,455.00	13.79	176.19	1,441.61	-158.60	9.64	1,901,929.61	136,865.33	36.2209183	-107.4810934
1,546.00	14.53	174.75	1,529.85	-180.79	11.41	1,901,907.40	136,866.81	36.2208574	-107.4810874
1,637.00	14.77	173.36	1,617.89	-203.68	13.79	1,901,884.48	136,868.91	36.2207945	-107.4810793
1,728.00	13.89	174.40	1,706.05	-226.07	16.20	1,901,862.06	136,871.03	36.2207330	-107.4810711
1,819.00	12.86	171.52	1,794.59	-246.96	18.76	1,901,841.14	136,873.32	36.2206756	-107.4810625
1,910.00	13.02	176.17	1,883.28	-267.21	20.94	1,901,820.87	136,875.25	36.2206200	-107.4810551
2,001.00	13.45	174.75	1,971.86	-287.97	22.59	1,901,800.08	136,876.64	36.2205629	-107.4810495
2,092.00	13.39	174.93	2,060.38	-309.01	24.49	1,901,779.02	136,878.27	36.2205052	-107.4810430
2,183.00	13.65	175.53	2,148.85	-330.21	26.26	1,901,757.80	136,879.77	36.2204469	-107.4810370
2,274.00	12.87	180.52	2,237.43	-351.05	27.00	1,901,736.95	136,880.25	36.2203897	-107.4810345
2,365.00	13.16	179.52	2,326.09	-371.54	27.00	1,901,716.46	136,879.98	36.2203334	-107.4810345
2,455.00	13.05	178.73	2,413.75	-391.94	27.31	1,901,696.05	136,880.03	36.2202773	-107.4810335
2,546.00	13.00	176.38	2,502.41	-412.43	28.18	1,901,675.56	136,880.65	36.2202211	-107.4810305
2,637.00	13.03	177.76	2,591.07	-432.90	29.23	1,901,655.08	136,881.43	36.2201648	-107.4810270
2,728.00	12.64	178.40	2,679.80	-453.10	29.91	1,901,634.87	136,881.86	36.2201094	-107.4810247
2,819.00	12.49	177.28	2,768.62	-472.88	30.65	1,901,615.08	136,882.35	36.2200550	-107.4810221
2,910.00	13.07	182.12	2,857.37	-492.99	30.74	1,901,594.96	136,882.18	36.2199998	-107.4810219
3,002.00	14.20	180.53	2,946.77	-514.67	30.25	1,901,573.29	136,881.42	36.2199402	-107.4810235
3,093.00	13.80	179.89	3,035.07	-536.69	30.17	1,901,551.28	136,881.05	36.2198797	-107.4810238
3,184.00	12.74	178.76	3,123.64	-557.57	30.41	1,901,530.39	136,881.03	36.2198224	-107.4810230
3,275.00	13.33	175.14	3,212.29	-578.06	31.51	1,901,509.89	136,881.87	36.2197661	-107.4810192
3,366.00	12.76	173.45	3,300.95	-598.50	33.55	1,901,489.43	136,883.65	36.2197100	-107.4810123
3,457.00	12.56	174.62	3,389.73	-618.33	35.62	1,901,469.57	136,885.47	36.2196555	-107.4810053
3,549.00	12.11	173.61	3,479.61	-637.88	37.63	1,901,449.99	136,887.23	36.2196018	-107.4809985
3,640.00	13.16	182.43	3,568.41	-657.72	38.26	1,901,430.15	136,887.61	36.2195473	-107.4809964
3,731.00	14.02	183.17	3,656.86	-679.07	37.21	1,901,408.81	136,886.29	36.2194886	-107.4809999
3,822.00	13.65	181.96	3,745.22	-700.81	36.23	1,901,387.08	136,885.03	36.2194289	-107.4810032
3,914.00	13.33	182.56	3,834.69	-722.26	35.39	1,901,365.65	136,883.92	36.2193700	-107.4810061
4,005.00	13.21	180.21	3,923.26	-743.13	34.88	1,901,344.78	136,883.14	36.2193126	-107.4810078
4,096.00	14.29	181.65	4,011.65	-764.76	34.52	1,901,323.16	136,882.51	36.2192532	-107.4810091
4,187.00	13.48	182.23	4,099.99	-786.58	33.78	1,901,301.34	136,881.49	36.2191933	-107.4810115
4,278.00	13.31	183.95	4,188.51	-807.63	32.65	1,901,280.31	136,880.09	36.2191355	-107.4810154
4,369.00	14.02	182.79	4,276.94	-829.09	31.39	1,901,258.87	136,878.56	36.2190765	-107.4810197
4,460.00	14.49	184.76	4,365.13	-851.45	29.91	1,901,236.53	136,876.80	36.2190151	-107.4810247
4,551.00	13.14	181.18	4,453.50	-873.14	28.75	1,901,214.86	136,875.36	36.2189555	-107.4810286
4,643.00	11.69	178.71	4,543.35	-892.91	28.74	1,901,195.08	136,875.11	36.2189012	-107.4810286
4,733.00	12.25	182.28	4,631.39	-911.57	28.57	1,901,176.43	136,874.70	36.2188500	-107.4810292
4,779.00	11.14	178.63	4,676.44	-920.89	28.48	1,901,167.11	136,874.49	36.2188244	-107.4810295



Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #210H - Slot A5
Project:	T23N R6W (NM Central)	TVD Reference:	KB @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	KB @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #210H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,825.00	10.43	180.62	4,721.62	-929.49	28.54	1,901,158.51	136,874.44	36.2188007	-107.4810293
Last SDI Surface MWD Survey									
4,870.00	12.16	197.55	4,765.76	-938.09	27.07	1,901,149.93	136,872.86	36.2187771	-107.4810343
First SDI Curve MWD Survey									
4,916.00	15.05	203.06	4,810.47	-948.20	23.27	1,901,139.86	136,868.93	36.2187493	-107.4810472
4,961.00	19.61	207.59	4,853.42	-960.28	17.48	1,901,127.86	136,862.99	36.2187162	-107.4810668
5,007.00	23.21	211.81	4,896.24	-974.83	9.12	1,901,113.42	136,854.45	36.2186762	-107.4810951
5,052.00	24.73	225.11	4,937.39	-989.02	-2.23	1,901,099.37	136,842.91	36.2186372	-107.4811336
5,098.00	24.76	234.73	4,979.18	-1,001.38	-16.92	1,901,087.20	136,828.07	36.2186033	-107.4811834
5,144.00	25.33	245.78	5,020.88	-1,010.98	-33.76	1,901,077.81	136,811.10	36.2185769	-107.4812405
5,189.00	26.06	256.59	5,061.45	-1,017.23	-52.17	1,901,071.80	136,792.62	36.2185597	-107.4813029
5,235.00	27.50	268.85	5,102.55	-1,019.78	-72.63	1,901,069.50	136,772.12	36.2185527	-107.4813723
5,280.00	30.22	271.10	5,141.96	-1,019.78	-94.35	1,901,069.79	136,750.41	36.2185527	-107.4814459
5,326.00	34.54	271.91	5,180.80	-1,019.12	-118.97	1,901,070.76	136,725.80	36.2185545	-107.4815293
5,371.00	38.22	270.76	5,217.02	-1,018.51	-145.64	1,901,071.70	136,699.13	36.2185562	-107.4816198
5,417.00	42.89	273.56	5,251.96	-1,017.35	-175.52	1,901,073.25	136,669.27	36.2185594	-107.4817210
5,462.00	47.07	274.84	5,283.79	-1,015.00	-207.23	1,901,075.99	136,637.59	36.2185658	-107.4818285
5,508.00	51.37	275.41	5,313.83	-1,011.89	-241.91	1,901,079.55	136,602.95	36.2185744	-107.4819461
5,553.00	56.12	274.65	5,340.43	-1,008.71	-278.05	1,901,083.18	136,566.85	36.2185831	-107.4820686
5,599.00	61.39	274.42	5,364.28	-1,005.61	-317.24	1,901,086.78	136,527.70	36.2185916	-107.4822015
5,610.00	61.34	274.04	5,369.55	-1,004.90	-326.87	1,901,087.62	136,518.08	36.2185936	-107.4822341
5,644.00	61.18	272.88	5,385.90	-1,003.10	-356.63	1,901,089.79	136,488.35	36.2185985	-107.4823350
5,690.00	62.32	273.05	5,407.67	-1,001.00	-397.09	1,901,092.40	136,447.91	36.2186043	-107.4824721
5,701.00	63.29	273.15	5,412.70	-1,000.47	-406.86	1,901,093.06	136,438.15	36.2186058	-107.4825053
5,735.00	66.27	273.46	5,427.19	-998.70	-437.57	1,901,095.22	136,407.47	36.2186106	-107.4826093
5,781.00	69.91	273.49	5,444.35	-996.11	-480.16	1,901,098.35	136,364.91	36.2186177	-107.4827537
5,826.00	72.63	273.31	5,458.80	-993.58	-522.70	1,901,101.42	136,322.40	36.2186247	-107.4828979
5,872.00	76.38	273.68	5,471.08	-990.88	-566.93	1,901,104.68	136,278.20	36.2186321	-107.4830479
5,917.00	80.42	274.26	5,480.13	-987.83	-610.90	1,901,108.29	136,234.28	36.2186405	-107.4831969
5,963.00	83.23	274.34	5,486.67	-984.41	-656.30	1,901,112.28	136,188.92	36.2186498	-107.4833508
5,986.00	84.61	274.53	5,489.11	-982.65	-679.10	1,901,114.34	136,166.14	36.2186547	-107.4834281
6,037.00	87.41	273.86	5,492.66	-978.93	-729.84	1,901,118.70	136,115.46	36.2186649	-107.4836001
7" Casing @ 6037' MD									
6,067.00	89.06	273.46	5,493.58	-977.01	-759.76	1,901,121.00	136,085.56	36.2186702	-107.4837015
Last SDI Curve MWD Survey									
6,138.00	90.13	273.37	5,494.08	-972.79	-830.63	1,901,126.12	136,014.74	36.2186818	-107.4839418
First SDI Lateral MWD Survey									
6,229.00	90.67	273.24	5,493.45	-967.54	-921.48	1,901,132.52	135,923.97	36.2186962	-107.4842497
6,320.00	90.10	275.54	5,492.83	-960.57	-1,012.20	1,901,140.64	135,833.33	36.2187153	-107.4845573
6,411.00	90.74	275.47	5,492.17	-951.84	-1,102.78	1,901,150.52	135,742.87	36.2187393	-107.4848643
6,502.00	90.74	274.75	5,490.99	-943.74	-1,193.41	1,901,159.78	135,652.34	36.2187615	-107.4851715
6,593.00	90.87	274.59	5,489.71	-936.33	-1,284.10	1,901,168.34	135,561.75	36.2187819	-107.4854789
6,683.00	90.60	274.68	5,488.56	-929.06	-1,373.80	1,901,176.75	135,472.15	36.2188018	-107.4857830
6,774.00	91.14	274.39	5,487.18	-921.87	-1,464.50	1,901,185.09	135,381.54	36.2188216	-107.4860905
6,866.00	90.57	274.69	5,485.80	-914.58	-1,556.20	1,901,193.54	135,289.93	36.2188416	-107.4864013
6,957.00	90.91	275.05	5,484.63	-906.86	-1,646.87	1,901,202.41	135,199.37	36.2188628	-107.4867087
7,047.00	90.91	274.92	5,483.20	-899.04	-1,736.51	1,901,211.37	135,109.82	36.2188842	-107.4870126
7,138.00	91.08	275.27	5,481.62	-890.96	-1,827.14	1,901,220.60	135,019.30	36.2189064	-107.4873198
7,229.00	90.27	274.40	5,480.55	-883.29	-1,917.81	1,901,229.42	134,928.73	36.2189275	-107.4876271
7,320.00	90.84	274.43	5,479.67	-876.29	-2,008.53	1,901,237.58	134,838.10	36.2189467	-107.4879347
7,410.00	90.87	273.55	5,478.32	-870.02	-2,098.30	1,901,244.98	134,748.41	36.2189639	-107.4882390
7,501.00	90.74	273.72	5,477.04	-864.26	-2,189.11	1,901,251.90	134,657.68	36.2189797	-107.4885468
7,593.00	90.75	273.51	5,475.85	-858.45	-2,280.92	1,901,258.87	134,565.95	36.2189956	-107.4888580
7,685.00	90.13	274.03	5,475.14	-852.41	-2,372.72	1,901,266.08	134,474.23	36.2190122	-107.4891692



Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #210H - Slot A5
Project:	T23N R6W (NM Central)	TVD Reference:	KB @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	KB @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #210H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,776.00	90.34	275.67	5,474.77	-844.71	-2,463.39	1,901,274.93	134,383.66	36.2190333	-107.4894766
7,867.00	89.90	274.94	5,474.58	-836.30	-2,554.00	1,901,284.49	134,293.16	36.2190564	-107.4897837
7,958.00	91.35	275.70	5,473.58	-827.86	-2,644.60	1,901,294.08	134,202.67	36.2190796	-107.4900908
8,049.00	90.54	274.80	5,472.08	-819.54	-2,735.20	1,901,303.56	134,112.17	36.2191024	-107.4903980
8,140.00	91.24	274.77	5,470.67	-811.95	-2,825.87	1,901,312.30	134,021.60	36.2191233	-107.4907053
8,231.00	91.24	276.10	5,468.70	-803.33	-2,916.44	1,901,322.06	133,931.15	36.2191469	-107.4910123
8,323.00	90.54	276.02	5,467.27	-793.62	-3,007.92	1,901,332.94	133,839.80	36.2191735	-107.4913224
8,414.00	90.20	276.17	5,466.68	-783.96	-3,098.40	1,901,343.75	133,749.44	36.2192001	-107.4916292
8,505.00	90.13	275.95	5,466.42	-774.35	-3,188.89	1,901,354.50	133,659.07	36.2192264	-107.4919359
8,596.00	91.01	277.25	5,465.52	-763.89	-3,279.28	1,901,366.11	133,568.82	36.2192551	-107.4922423
8,687.00	90.71	274.05	5,464.15	-754.94	-3,369.82	1,901,376.21	133,478.40	36.2192797	-107.4925492
8,779.00	90.60	273.57	5,463.10	-748.82	-3,461.61	1,901,383.49	133,386.69	36.2192965	-107.4928604
8,870.00	90.67	274.59	5,462.09	-742.35	-3,552.37	1,901,391.12	133,296.01	36.2193142	-107.4931681
8,961.00	90.04	275.18	5,461.53	-734.60	-3,643.04	1,901,400.02	133,205.45	36.2193355	-107.4934754
9,052.00	90.64	275.31	5,460.99	-726.28	-3,733.65	1,901,409.49	133,114.94	36.2193583	-107.4937826
9,143.00	90.57	275.12	5,460.03	-718.01	-3,824.27	1,901,418.91	133,024.43	36.2193810	-107.4940898
9,234.00	91.24	275.17	5,458.59	-709.85	-3,914.89	1,901,428.22	132,933.91	36.2194034	-107.4943970
9,324.00	91.44	272.33	5,456.48	-703.97	-4,004.67	1,901,435.24	132,844.22	36.2194195	-107.4947013
9,415.00	90.17	272.70	5,455.21	-699.97	-4,095.57	1,901,440.39	132,753.37	36.2194304	-107.4950094
9,506.00	90.54	272.36	5,454.64	-695.96	-4,186.48	1,901,445.56	132,662.51	36.2194414	-107.4953176
9,597.00	90.54	275.08	5,453.78	-690.05	-4,277.27	1,901,452.62	132,571.79	36.2194576	-107.4956254
9,688.00	90.90	275.11	5,452.64	-681.97	-4,367.91	1,901,461.85	132,481.27	36.2194798	-107.4959326
9,780.00	90.31	275.97	5,451.67	-673.09	-4,459.47	1,901,471.89	132,389.82	36.2195041	-107.4962430
9,871.00	90.57	274.55	5,450.97	-664.75	-4,550.08	1,901,481.39	132,299.32	36.2195270	-107.4965502
9,962.00	90.23	274.33	5,450.33	-657.70	-4,640.81	1,901,489.58	132,208.68	36.2195463	-107.4968577
10,053.00	90.77	273.46	5,449.54	-651.52	-4,731.59	1,901,496.92	132,117.98	36.2195632	-107.4971655
10,144.00	91.81	273.53	5,447.49	-645.98	-4,822.40	1,901,503.62	132,027.25	36.2195784	-107.4974733
10,236.00	91.50	272.91	5,444.83	-640.81	-4,914.21	1,901,509.95	131,935.50	36.2195926	-107.4977846
10,327.00	92.07	272.81	5,442.00	-636.27	-5,005.05	1,901,515.64	131,844.72	36.2196050	-107.4980925
10,418.00	91.65	274.32	5,439.05	-630.62	-5,095.83	1,901,522.45	131,754.02	36.2196205	-107.4984002
10,509.00	92.01	274.15	5,436.14	-623.90	-5,186.53	1,901,530.32	131,663.40	36.2196389	-107.4987077
10,600.00	91.89	274.04	5,433.04	-617.41	-5,277.25	1,901,537.96	131,572.77	36.2196567	-107.4990152
10,691.00	92.75	274.05	5,429.36	-610.99	-5,367.95	1,901,545.53	131,482.16	36.2196743	-107.4993227
10,768.00	90.99	273.22	5,426.85	-606.11	-5,444.75	1,901,551.38	131,405.42	36.2196876	-107.4995830
RSI @ 10,768' MD									
10,782.00	90.67	273.07	5,426.64	-605.35	-5,458.72	1,901,552.33	131,391.45	36.2196897	-107.4996304
10,823.00	89.60	272.19	5,426.55	-603.46	-5,499.68	1,901,554.73	131,350.52	36.2196949	-107.4997692
Last SDI Lateral MWD Survey									
10,878.00	89.60	272.19	5,426.93	-601.36	-5,554.64	1,901,557.53	131,295.59	36.2197006	-107.4999555
Projection to TD									

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #210H - Slot A5
Project:	T23N R6W (NM Central)	TVD Reference:	KB @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	KB @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #210H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Chaco 2306-16L #210H	0.00	0.00	5,365.82	-1,008.71	-295.21	1,901,083.40	136,549.69	36.2185831	-107.4821268
- actual wellpath misses target center by 12.41usft at 5580.80usft MD (5355.28 TVD, -1006.84 N, -301.48 E)									
- Point									
Chaco 2306-16L #210H	0.00	0.00	5,390.00	-591.70	-5,551.90	1,901,567.16	131,298.46	36.2197272	-107.4999462
- actual wellpath misses target center by 38.18usft at 10875.37usft MD (5426.91 TVD, -601.46 N, -5552.01 E)									
- Point									
Chaco 2306-16L #210H	0.00	0.00	5,395.82	-1,004.60	-347.81	1,901,088.18	136,497.15	36.2185944	-107.4823051
- actual wellpath misses target center by 13.01usft at 5640.97usft MD (5384.44 TVD, -1003.23 N, -353.98 E)									
- Point									
Chaco #210H Landing	0.00	0.00	5,493.00	-978.51	-676.14	1,901,118.44	136,169.16	36.2186661	-107.4834180
- actual wellpath misses target center by 6.00usft at 5983.79usft MD (5488.90 TVD, -982.82 N, -676.91 E)									
- Point									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
323.00	322.95	-4.82	0.09	First SDI Surface MWD Survey
4,825.00	4,721.62	-929.49	28.54	Last SDI Surface MWD Survey
4,870.00	4,765.76	-938.09	27.07	First SDI Curve MWD Survey
6,037.00	5,492.66	-978.93	-729.84	7" Casing @ 6037' MD
6,067.00	5,493.58	-977.01	-759.76	Last SDI Curve MWD Survey
6,138.00	5,494.08	-972.79	-830.63	First SDI Lateral MWD Survey
10,768.00	5,426.85	-606.11	-5,444.75	RSI @ 10,768' MD
10,823.00	5,426.55	-603.46	-5,499.68	Last SDI Lateral MWD Survey
10,878.00	5,426.93	-601.36	-5,554.64	Projection to TD

Checked By: _____ Approved By: _____ Date: _____