

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 30-039-31288	*Pool Code 98088	*Pool Name CHACO UNIT NE HZ (OIL)
*Property Code 313800	*Property Name NE CHACO COM	*Well Number 271H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6858'

¹⁰ Surface Location

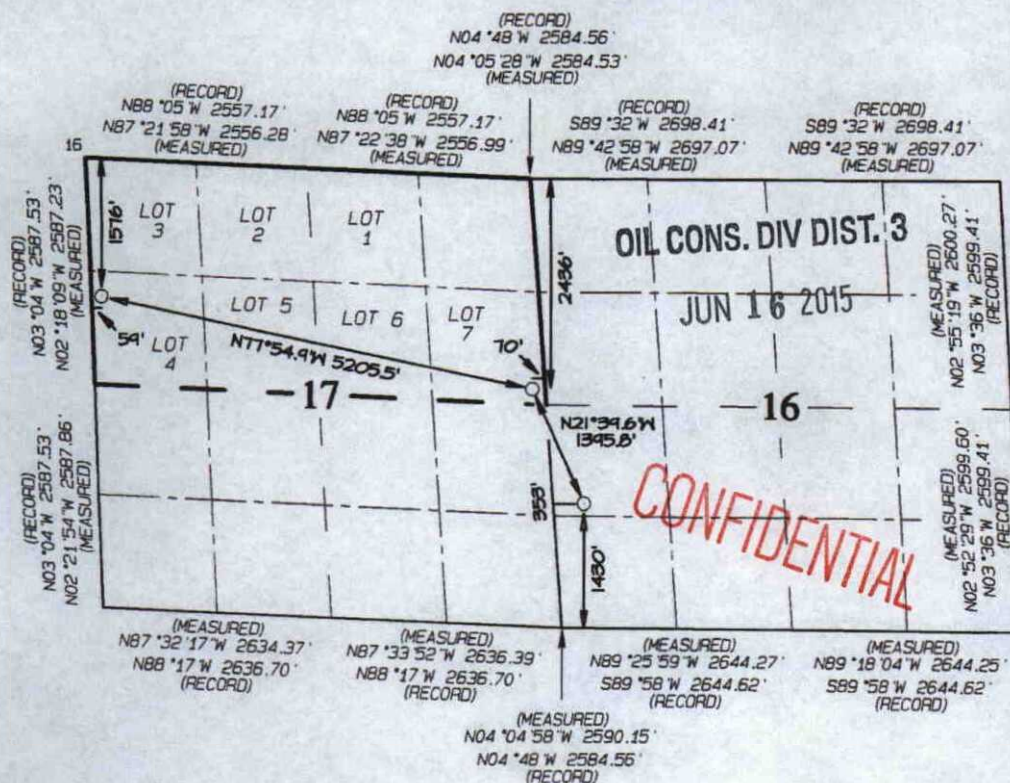
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	16	23N	6W		1430	SOUTH	353	WEST	RIO ARriba

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
E	17	23N	6W	4	1576	NORTH	59	WEST	RIO ARriba

¹² Dedicated Acres 306.55	¹³ Joint or Infill N/2 - Section 17	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



END-OF-LATERAL
1576' FNL 59' FWL
SECTION 17, T23N, R6W
LAT: 36.227876°N
LONG: 107.500328°W
DATUM: NAD1927

RSI TOOL
1591' FNL 167' FWL
SECTION 17, T23N, R6W
LAT: 36.227825°N
LONG: 107.499958°W
DATUM: NAD1927

POINT-OF-ENTRY
2436' FNL 70' FEL
SECTION 17, T23N, R6W
LAT: 36.225062°N
LONG: 107.483027°W
DATUM: NAD1927

SURFACE LOCATION
1430' FSL 353' FWL
SECTION 16, T23N, R6W
LAT: 36.221517°N
LONG: 107.481225°W
DATUM: NAD1927

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
LACEY GRANILLO

Date

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: APRIL 24, 2015

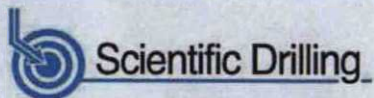
Survey Date: SEPTEMBER 4, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



Company Name: WPX Energy
 Project: T23N R6W (NM Central)
 Site: Chaco 2306-16L
 Well: NE Chaco Com #271H

WPXENERGY

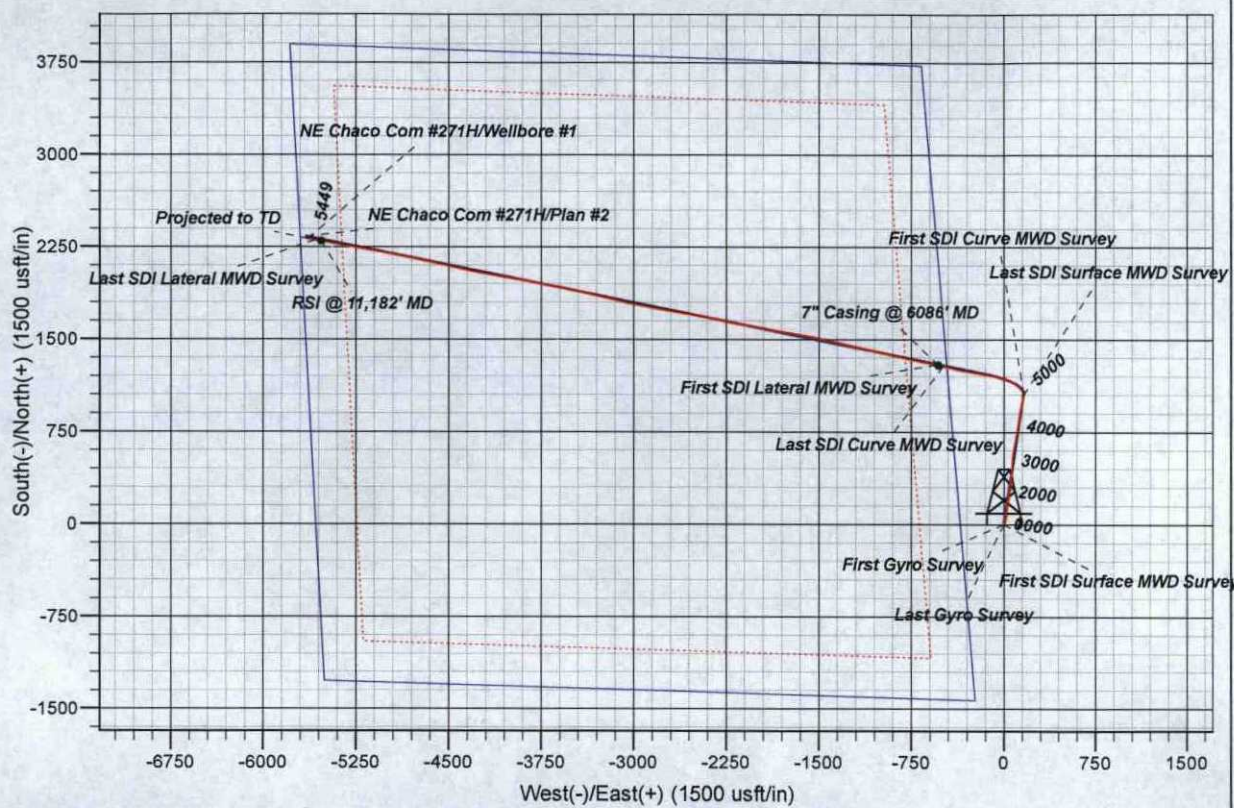
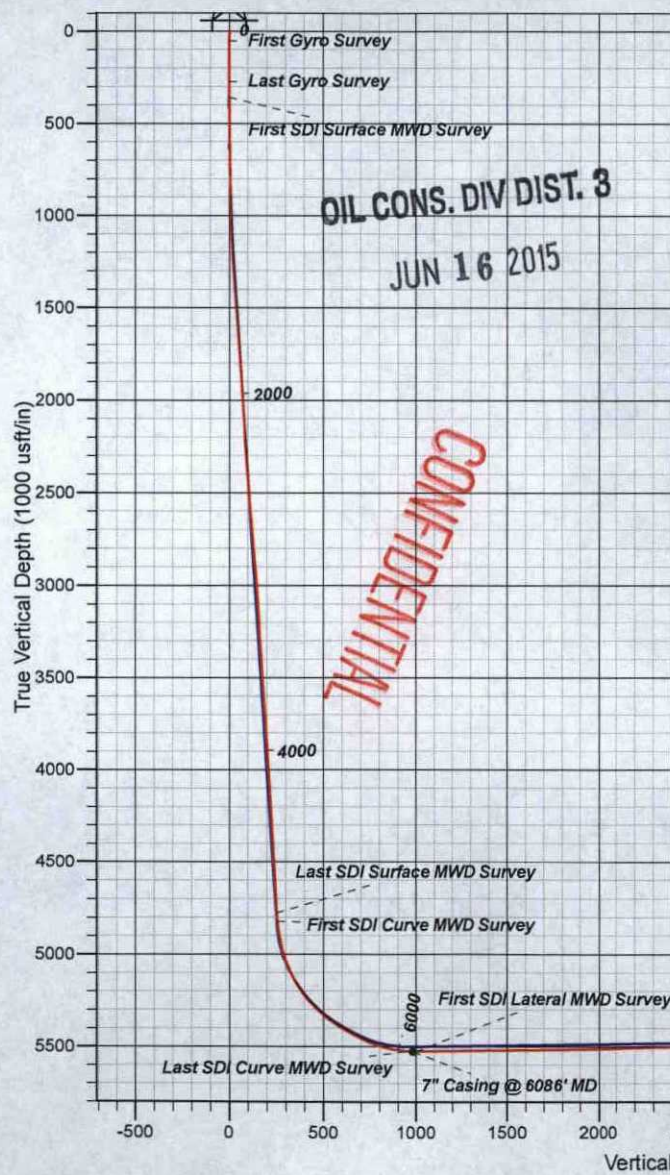


Azimuths to True North
 Magnetic North: 9.31°
 Magnetic Field
 Strength: 50011.6snT
 Dip Angle: 62.97°
 Date: 3/25/2015
 Model: IGRF2015

WELL DETAILS: NE Chaco Com #271H

KB @ 6886.00usft (Aztec 1000) 6861.00
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1902148.03 136829.25 36.2215170 -107.4812250

A2



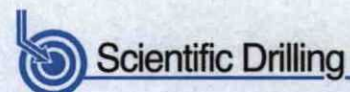
Vertical Section at 292.45° (1000 usft/in)

NE Chaco Com #271H/Plan #2
 NE Chaco Com #271H/Wellbore #1
 Last SDI Lateral MWD Survey
 RSI @ 11,182' MD
 Projected to TD

Design: Wellbore #1 (NE Chaco Com #271H/Wellbore #1)
 Created By: Janie Collins Date: 15:46, 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 Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #271H - Slot A2
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 #271H	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	Latitude:	36.2214600
From:	Lat/Long	Easting:	136,839.32 usft	Longitude:	-107.4811900
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-0.73 °

Well	NE Chaco Com #271H - Slot A2					
Well Position	+N/-S	0.00 usft	Northing:	1,902,148.03 usft	Latitude:	36.2215170
	+E/-W	0.00 usft	Easting:	136,829.25 usft	Longitude:	-107.4812251
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,861.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/25/2015	9.31	62.97	50,012

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)	Direction (°)	
	0.00	0.00	0.00	292.45	

Survey Program	Date 4/23/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
25.00	275.00	Survey #1 - Gyro Survey (Wellbore #1)	GYRO-NS	Gyrocompass Gyro
360.00	4,915.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD	SDI MWD - Standard ver 1.0.1
4,961.00	6,043.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1
6,100.00	11,293.00	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD	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	1,902,148.03	136,829.25	36.2215170	-107.4812251
25.00	0.00	0.00	25.00	0.00	0.00	1,902,148.03	136,829.25	36.2215170	-107.4812251
55.00	0.24	150.45	55.00	-0.05	0.03	1,902,147.98	136,829.28	36.2215168	-107.4812250
First Gyro Survey									
85.00	0.23	206.93	85.00	-0.16	0.03	1,902,147.87	136,829.29	36.2215165	-107.4812249
115.00	0.22	241.64	115.00	-0.24	-0.04	1,902,147.79	136,829.21	36.2215163	-107.4812252
145.00	0.28	252.52	145.00	-0.29	-0.16	1,902,147.74	136,829.09	36.2215162	-107.4812256
175.00	0.48	258.14	175.00	-0.34	-0.36	1,902,147.70	136,828.89	36.2215160	-107.4812263
205.00	0.46	237.78	205.00	-0.43	-0.58	1,902,147.61	136,828.67	36.2215158	-107.4812270

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #271H - Slot A2
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 #271H	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
235.00	0.42	269.81	235.00	-0.50	-0.79	1,902,147.55	136,828.45	36.2215156	-107.4812277
265.00	0.37	310.58	265.00	-0.43	-0.98	1,902,147.61	136,828.27	36.2215158	-107.4812284
275.00	0.34	334.63	275.00	-0.39	-1.01	1,902,147.66	136,828.23	36.2215159	-107.4812285
Last Gyro Survey									
360.00	0.73	342.19	359.99	0.36	-1.29	1,902,148.41	136,827.97	36.2215179	-107.4812294
First SDI Surface MWD Survey									
451.00	0.67	348.21	450.99	1.43	-1.57	1,902,149.48	136,827.70	36.2215209	-107.4812304
542.00	2.28	27.63	541.95	3.56	-0.84	1,902,151.60	136,828.46	36.2215267	-107.4812279
633.00	4.02	18.06	632.81	8.19	0.99	1,902,156.21	136,830.34	36.2215395	-107.4812217
725.00	6.35	16.43	724.43	16.14	3.42	1,902,164.13	136,832.88	36.2215613	-107.4812135
816.00	6.75	14.41	814.84	26.15	6.18	1,902,174.10	136,835.76	36.2215888	-107.4812041
907.00	7.86	14.19	905.10	37.36	9.04	1,902,185.27	136,838.76	36.2216196	-107.4811944
998.00	8.87	8.39	995.13	50.33	11.58	1,902,198.22	136,841.48	36.2216552	-107.4811858
1,090.00	10.15	6.21	1,085.86	65.41	13.50	1,902,213.27	136,843.58	36.2216966	-107.4811793
1,181.00	12.03	5.57	1,175.16	82.82	15.28	1,902,230.66	136,845.59	36.2217445	-107.4811732
1,273.00	12.62	7.10	1,265.04	102.34	17.46	1,902,250.14	136,848.01	36.2217981	-107.4811659
1,363.00	14.35	8.09	1,352.55	123.14	20.24	1,902,270.91	136,851.06	36.2218552	-107.4811564
1,454.00	15.88	7.83	1,440.40	146.64	23.53	1,902,294.36	136,854.64	36.2219198	-107.4811453
1,546.00	17.17	9.01	1,528.60	172.52	27.37	1,902,320.20	136,858.81	36.2219909	-107.4811323
1,637.00	17.90	8.69	1,615.37	199.61	31.58	1,902,347.23	136,863.37	36.2220653	-107.4811180
1,728.00	17.36	9.53	1,702.10	226.82	35.94	1,902,374.39	136,868.08	36.2221400	-107.4811032
1,819.00	15.88	9.99	1,789.29	252.47	40.35	1,902,399.99	136,872.81	36.2222105	-107.4810883
1,910.00	14.21	6.78	1,877.17	275.83	43.83	1,902,423.29	136,876.59	36.2222746	-107.4810765
2,001.00	15.19	5.88	1,965.19	298.78	46.37	1,902,446.21	136,879.42	36.2223377	-107.4810679
2,091.00	14.95	9.24	2,052.10	321.97	49.44	1,902,469.36	136,882.78	36.2224014	-107.4810574
2,182.00	12.92	9.63	2,140.42	343.58	53.03	1,902,490.93	136,886.64	36.2224608	-107.4810453
2,274.00	12.98	9.04	2,230.08	363.93	56.37	1,902,511.23	136,890.25	36.2225167	-107.4810340
2,365.00	12.73	6.43	2,318.80	383.98	59.10	1,902,531.25	136,893.23	36.2225717	-107.4810247
2,455.00	13.82	3.88	2,406.39	404.56	60.94	1,902,551.81	136,895.33	36.2226283	-107.4810185
2,546.00	14.74	4.99	2,494.58	426.94	62.68	1,902,574.16	136,897.36	36.2226897	-107.4810126
2,637.00	15.08	4.24	2,582.52	450.28	64.56	1,902,597.48	136,899.53	36.2227538	-107.4810062
2,728.00	14.56	4.48	2,670.49	473.49	66.33	1,902,620.66	136,901.60	36.2228176	-107.4810002
2,819.00	16.16	5.21	2,758.24	497.50	68.38	1,902,644.65	136,903.95	36.2228836	-107.4809933
2,910.00	15.74	4.47	2,845.73	522.42	70.49	1,902,669.54	136,906.37	36.2229520	-107.4809861
3,002.00	16.40	6.85	2,934.14	547.76	73.01	1,902,694.85	136,909.22	36.2230216	-107.4809776
3,093.00	16.70	11.35	3,021.37	573.33	77.12	1,902,720.37	136,913.65	36.2230919	-107.4809636
3,184.00	16.18	10.63	3,108.65	598.61	82.03	1,902,745.58	136,918.88	36.2231613	-107.4809470
3,275.00	16.14	11.33	3,196.06	623.48	86.85	1,902,770.39	136,924.02	36.2232296	-107.4809306
3,366.00	16.19	10.62	3,283.46	648.35	91.67	1,902,795.20	136,929.16	36.2232979	-107.4809143
3,457.00	16.07	9.26	3,370.88	673.25	96.04	1,902,820.04	136,933.84	36.2233663	-107.4808995
3,549.00	16.44	9.54	3,459.20	698.65	100.25	1,902,845.39	136,938.37	36.2234361	-107.4808852
3,640.00	15.70	8.87	3,546.64	723.52	104.28	1,902,870.20	136,942.72	36.2235044	-107.4808715
3,731.00	14.94	8.86	3,634.41	747.27	107.98	1,902,893.91	136,946.72	36.2235697	-107.4808590
3,822.00	14.92	5.71	3,722.34	770.52	110.96	1,902,917.12	136,949.99	36.2236335	-107.4808489
3,913.00	16.14	10.84	3,810.02	794.60	114.50	1,902,941.16	136,953.84	36.2236997	-107.4808369
4,005.00	16.17	11.52	3,898.38	819.71	119.46	1,902,966.20	136,959.12	36.2237687	-107.4808201
4,096.00	16.10	11.09	3,985.80	844.51	124.42	1,902,990.94	136,964.40	36.2238368	-107.4808033
4,187.00	16.07	9.05	4,073.24	869.33	128.83	1,903,015.70	136,969.12	36.2239050	-107.4807883
4,278.00	15.45	8.30	4,160.82	893.76	132.56	1,903,040.09	136,973.16	36.2239721	-107.4807757
4,369.00	15.98	7.49	4,248.41	918.18	135.94	1,903,064.46	136,976.85	36.2240391	-107.4807642
4,460.00	16.53	12.41	4,335.78	943.24	140.36	1,903,089.46	136,981.59	36.2241080	-107.4807492
4,551.00	15.58	14.71	4,423.23	967.71	146.24	1,903,113.85	136,987.78	36.2241752	-107.4807293
4,642.00	14.11	11.35	4,511.19	990.40	151.53	1,903,136.48	136,993.36	36.2242375	-107.4807114
4,733.00	13.28	9.40	4,599.61	1,011.59	155.42	1,903,157.62	136,997.52	36.2242957	-107.4806982
4,824.00	11.78	8.57	4,688.44	1,031.09	158.51	1,903,177.08	137,000.86	36.2243493	-107.4806877

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #271H - Slot A2
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 #271H	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
4,870.00	11.34	7.84	4,733.50	1,040.21	159.83	1,903,186.18	137,002.29	36.2243744	-107.4806832
4,915.00	10.38	5.78	4,777.70	1,048.63	160.84	1,903,194.59	137,003.41	36.2243975	-107.4806798
Last SDI Surface MWD Survey									
4,961.00	11.26	351.91	4,822.89	1,057.20	160.63	1,903,203.16	137,003.30	36.2244210	-107.4806805
First SDI Curve MWD Survey									
5,007.00	12.34	342.57	4,867.92	1,066.34	158.52	1,903,212.32	137,001.31	36.2244461	-107.4806877
5,052.00	13.51	333.94	4,911.78	1,075.65	154.77	1,903,221.68	136,997.68	36.2244717	-107.4807004
5,098.00	16.02	326.41	4,956.26	1,085.76	148.90	1,903,231.87	136,991.94	36.2244995	-107.4807203
5,143.00	17.94	320.00	4,999.30	1,096.25	141.01	1,903,242.46	136,984.18	36.2245283	-107.4807470
5,189.00	20.89	314.79	5,042.68	1,107.45	130.63	1,903,253.80	136,973.94	36.2245591	-107.4807822
5,235.00	24.54	309.86	5,085.11	1,119.36	117.47	1,903,265.87	136,960.94	36.2245918	-107.4808268
5,280.00	26.92	302.85	5,125.66	1,130.88	101.73	1,903,277.59	136,945.35	36.2246234	-107.4808802
5,326.00	31.13	300.67	5,165.87	1,142.60	82.75	1,903,289.55	136,926.51	36.2246556	-107.4809445
5,371.00	34.53	299.31	5,203.68	1,154.78	61.62	1,903,302.00	136,905.53	36.2246891	-107.4810162
5,417.00	39.36	292.89	5,240.45	1,166.85	36.79	1,903,314.38	136,880.86	36.2247222	-107.4811004
5,462.00	44.17	289.49	5,274.01	1,177.64	8.84	1,903,325.52	136,853.05	36.2247519	-107.4811951
5,508.00	46.16	285.19	5,306.45	1,187.33	-22.29	1,903,335.61	136,822.05	36.2247785	-107.4813006
5,553.00	49.75	283.39	5,336.58	1,195.56	-54.67	1,903,344.26	136,789.77	36.2248011	-107.4814104
5,599.00	53.23	280.23	5,365.22	1,202.91	-89.89	1,903,352.04	136,754.64	36.2248213	-107.4815298
5,644.00	58.71	280.41	5,390.40	1,209.59	-126.57	1,903,359.19	136,718.05	36.2248396	-107.4816541
5,689.00	60.67	279.87	5,413.10	1,216.42	-164.81	1,903,366.51	136,679.90	36.2248584	-107.4817838
5,735.00	61.06	279.64	5,435.50	1,223.23	-204.41	1,903,373.82	136,640.39	36.2248771	-107.4819180
5,780.00	62.35	279.08	5,456.83	1,229.67	-243.50	1,903,380.76	136,601.38	36.2248948	-107.4820506
5,826.00	67.47	280.72	5,476.33	1,236.85	-284.52	1,903,388.46	136,560.45	36.2249145	-107.4821896
5,872.00	70.61	280.89	5,492.78	1,244.90	-326.71	1,903,397.04	136,518.36	36.2249366	-107.4823326
5,917.00	74.43	281.84	5,506.30	1,253.36	-368.78	1,903,406.04	136,476.40	36.2249598	-107.4824753
5,963.00	77.94	282.80	5,517.28	1,262.89	-412.42	1,903,416.12	136,432.89	36.2249860	-107.4826232
6,008.00	83.49	283.20	5,524.54	1,272.88	-455.67	1,903,426.66	136,389.76	36.2250135	-107.4827698
6,043.00	87.54	283.15	5,527.28	1,280.83	-489.64	1,903,435.04	136,355.90	36.2250353	-107.4828850
Last SDI Curve MWD Survey									
6,086.00	89.43	282.74	5,528.41	1,290.46	-531.53	1,903,445.20	136,314.13	36.2250617	-107.4830270
36.2250618, -107.4830270 - 7" Casing @ 6086' MD									
6,100.00	90.04	282.60	5,528.48	1,293.53	-545.19	1,903,448.44	136,300.51	36.2250702	-107.4830733
First SDI Lateral MWD Survey									
6,122.00	91.01	282.39	5,528.28	1,298.29	-566.67	1,903,453.48	136,279.09	36.2250833	-107.4831461
6,134.00	90.92	282.12	5,528.08	1,300.83	-578.39	1,903,456.17	136,267.40	36.2250902	-107.4831859
6,227.00	90.60	281.70	5,526.84	1,320.02	-669.38	1,903,476.52	136,176.66	36.2251430	-107.4834943
6,318.00	90.51	281.41	5,525.96	1,338.25	-758.53	1,903,495.88	136,087.74	36.2251930	-107.4837966
6,409.00	91.27	281.81	5,524.55	1,356.56	-847.66	1,903,515.32	135,998.85	36.2252433	-107.4840987
6,500.00	90.22	281.95	5,523.36	1,375.29	-936.70	1,903,535.18	135,910.05	36.2252948	-107.4844006
6,591.00	90.74	282.72	5,522.60	1,394.73	-1,025.60	1,903,555.75	135,821.40	36.2253482	-107.4847019
6,682.00	90.13	282.20	5,521.91	1,414.37	-1,114.45	1,903,576.51	135,732.80	36.2254021	-107.4850032
6,773.00	90.44	282.80	5,521.46	1,434.06	-1,203.29	1,903,597.33	135,644.21	36.2254562	-107.4853044
6,864.00	90.64	283.23	5,520.60	1,454.55	-1,291.95	1,903,618.95	135,555.82	36.2255124	-107.4856049
6,955.00	91.27	282.73	5,519.08	1,474.99	-1,380.61	1,903,640.51	135,467.42	36.2255686	-107.4859055
7,046.00	91.01	282.04	5,517.27	1,494.51	-1,469.47	1,903,661.16	135,378.80	36.2256222	-107.4862068
7,136.00	91.68	281.24	5,515.16	1,512.66	-1,557.60	1,903,680.43	135,290.91	36.2256720	-107.4865055
7,227.00	91.65	280.11	5,512.52	1,529.51	-1,646.98	1,903,698.41	135,201.74	36.2257183	-107.4868085
7,318.00	91.40	280.21	5,510.09	1,545.55	-1,736.53	1,903,715.60	135,112.41	36.2257624	-107.4871121
7,409.00	91.40	279.84	5,507.87	1,561.39	-1,826.11	1,903,732.57	135,023.03	36.2258058	-107.4874158
7,500.00	91.69	279.82	5,505.42	1,578.92	-1,915.74	1,903,749.24	134,933.60	36.2258485	-107.4877197
7,591.00	91.27	281.42	5,503.07	1,593.69	-2,005.15	1,903,767.14	134,844.40	36.2258945	-107.4880228
7,683.00	90.54	281.10	5,501.61	1,611.65	-2,095.37	1,903,786.24	134,754.42	36.2259438	-107.4883286
7,774.00	90.50	281.45	5,500.79	1,629.44	-2,184.61	1,903,805.17	134,665.41	36.2259927	-107.4886312

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #271H - Slot A2
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 #271H	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
7,865.00	90.64	282.42	5,499.88	1,648.26	-2,273.63	1,903,825.12	134,576.62	36.2260444	-107.4889330
7,956.00	90.94	281.58	5,498.63	1,667.17	-2,362.64	1,903,845.16	134,487.86	36.2260963	-107.4892347
8,047.00	90.74	280.54	5,497.29	1,684.63	-2,451.93	1,903,863.75	134,398.79	36.2261442	-107.4895375
8,139.00	91.18	279.79	5,495.75	1,700.86	-2,542.48	1,903,881.14	134,308.45	36.2261888	-107.4898444
8,230.00	91.17	279.73	5,493.89	1,716.29	-2,632.14	1,903,897.70	134,218.99	36.2262312	-107.4901484
8,321.00	91.25	280.07	5,491.97	1,731.93	-2,721.77	1,903,914.48	134,129.56	36.2262741	-107.4904523
8,412.00	91.24	280.81	5,489.99	1,748.41	-2,811.24	1,903,932.10	134,040.31	36.2263194	-107.4907556
8,503.00	90.66	281.07	5,488.48	1,765.68	-2,900.57	1,903,950.50	133,951.19	36.2263668	-107.4910584
8,595.00	90.54	281.16	5,487.52	1,783.42	-2,990.84	1,903,969.38	133,861.15	36.2264155	-107.4913645
8,686.00	90.54	283.63	5,486.66	1,802.95	-3,079.71	1,903,990.04	133,772.53	36.2264691	-107.4916658
8,777.00	90.50	283.65	5,485.83	1,824.41	-3,168.14	1,904,012.62	133,684.38	36.2265280	-107.4919656
8,868.00	90.71	282.85	5,484.87	1,845.26	-3,256.71	1,904,034.60	133,596.08	36.2265853	-107.4922658
8,959.00	90.87	282.39	5,483.62	1,865.14	-3,345.50	1,904,055.61	133,507.54	36.2266398	-107.4925669
9,050.00	91.21	282.50	5,481.96	1,884.75	-3,434.35	1,904,076.34	133,418.94	36.2266937	-107.4928681
9,141.00	90.53	282.30	5,480.58	1,904.29	-3,523.22	1,904,097.01	133,330.33	36.2267473	-107.4931694
9,232.00	90.48	281.33	5,479.78	1,922.92	-3,612.28	1,904,116.77	133,241.50	36.2267985	-107.4934713
9,323.00	91.31	280.93	5,478.36	1,940.48	-3,701.56	1,904,135.47	133,152.45	36.2268467	-107.4937740
9,414.00	91.27	280.79	5,476.31	1,957.62	-3,790.91	1,904,153.75	133,063.32	36.2268937	-107.4940769
9,505.00	91.24	280.11	5,474.32	1,974.13	-3,880.38	1,904,171.38	132,974.06	36.2269390	-107.4943802
9,596.00	90.77	279.14	5,472.72	1,989.34	-3,970.08	1,904,187.73	132,884.56	36.2269808	-107.4946843
9,687.00	91.74	280.24	5,470.73	2,004.65	-4,059.76	1,904,204.18	132,795.08	36.2270228	-107.4949884
9,778.00	91.34	280.03	5,468.28	2,020.66	-4,149.31	1,904,221.33	132,705.73	36.2270667	-107.4952920
9,869.00	91.45	281.33	5,466.07	2,037.52	-4,238.70	1,904,239.32	132,616.56	36.2271130	-107.4955950
9,960.00	91.91	281.60	5,463.40	2,055.60	-4,327.85	1,904,258.53	132,527.64	36.2271626	-107.4958973
10,051.00	91.38	283.16	5,460.79	2,075.10	-4,416.69	1,904,279.16	132,439.05	36.2272162	-107.4961985
10,143.00	90.54	282.83	5,459.25	2,095.78	-4,506.32	1,904,300.99	132,349.68	36.2272730	-107.4965024
10,234.00	90.37	282.59	5,458.52	2,115.80	-4,595.09	1,904,322.13	132,261.17	36.2273279	-107.4968033
10,325.00	91.28	282.06	5,457.21	2,135.23	-4,683.98	1,904,342.68	132,172.53	36.2273812	-107.4971047
10,416.00	91.57	282.26	5,454.95	2,154.39	-4,772.91	1,904,362.98	132,083.85	36.2274338	-107.4974062
10,507.00	90.66	281.33	5,453.18	2,172.99	-4,861.97	1,904,382.70	131,995.02	36.2274849	-107.4977081
10,598.00	90.87	281.13	5,451.96	2,190.71	-4,951.22	1,904,401.56	131,906.00	36.2275335	-107.4980107
10,689.00	90.87	280.25	5,450.58	2,207.58	-5,040.63	1,904,419.57	131,816.81	36.2275798	-107.4983138
10,781.00	90.23	279.88	5,449.70	2,223.66	-5,131.21	1,904,436.80	131,726.44	36.2276239	-107.4986209
10,871.00	90.27	280.71	5,449.31	2,239.75	-5,219.76	1,904,454.01	131,638.10	36.2276681	-107.4989211
10,963.00	90.04	280.10	5,449.06	2,256.36	-5,310.24	1,904,471.77	131,547.82	36.2277137	-107.4992279
11,054.00	90.54	281.13	5,448.60	2,273.12	-5,399.68	1,904,489.67	131,458.60	36.2277597	-107.4995311
11,145.00	89.87	280.47	5,448.27	2,290.18	-5,489.07	1,904,507.85	131,369.43	36.2278065	-107.4998342
11,182.00	89.78	280.11	5,448.38	2,296.79	-5,525.48	1,904,514.93	131,333.11	36.2278246	-107.4999576
RSI @ 11,182' MD - 36.2278246, -107.4999576									
11,236.00	89.66	279.59	5,448.64	2,306.02	-5,578.68	1,904,524.84	131,280.03	36.2278499	-107.5001380
Last SDI Lateral MWD Survey									
11,293.00	89.66	279.59	5,448.98	2,315.52	-5,634.88	1,904,535.05	131,223.95	36.2278760	-107.5003285
Projected to TD									

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #271H - Slot A2
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 #271H	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 #271H	0.00	0.00	5,387.77	1,214.49	-140.35	1,903,364.27	136,704.33	36.2248531	-107.4817009
- actual wellpath misses target center by 9.98usft at 5655.13usft MD (5396.14 TVD, 1211.30 N, -135.95 E)									
- Point									
Chaco 2306-16L #271H	0.00	0.00	5,417.77	1,224.84	-191.27	1,903,375.27	136,653.54	36.2248815	-107.4818735
- actual wellpath misses target center by 10.09usft at 5715.30usft MD (5425.94 TVD, 1220.33 N, -187.42 E)									
- Point									
Chaco 2306-16L #271H	0.00	0.00	5,432.00	2,333.35	-5,645.88	1,904,553.02	131,213.17	36.2279250	-107.5003658
- actual wellpath misses target center by 26.97usft at 11293.00usft MD (5448.98 TVD, 2315.52 N, -5634.88 E)									
- Point									
Chaco 2306-16L #271H	0.00	0.00	5,503.00	1,289.96	-511.66	1,903,444.45	136,333.99	36.2250604	-107.4829596
- actual wellpath misses target center by 25.37usft at 6065.86usft MD (5528.06 TVD, 1285.98 N, -511.89 E)									
- Point									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
55.00	55.00	-0.05	0.03	First Gyro Survey
275.00	275.00	-0.39	-1.01	Last Gyro Survey
360.00	359.99	0.36	-1.29	First SDI Surface MWD Survey
4,915.00	4,777.70	1,048.63	160.84	Last SDI Surface MWD Survey
4,961.00	4,822.89	1,057.20	160.63	First SDI Curve MWD Survey
6,043.00	5,527.28	1,280.83	-489.64	Last SDI Curve MWD Survey
6,086.00	5,528.41	1,290.46	-531.53	36.2250618, -107.4830270
6,086.00	5,528.41	1,290.46	-531.53	7" Casing @ 6086' MD
6,100.00	5,528.48	1,293.53	-545.19	First SDI Lateral MWD Survey
11,182.00	5,448.38	2,296.79	-5,525.48	RSI @ 11,182' MD
11,182.00	5,448.38	2,296.79	-5,525.48	36.2278246, -107.4999576
11,236.00	5,448.64	2,306.02	-5,578.68	Last SDI Lateral MWD Survey
11,293.00	5,448.98	2,315.52	-5,634.88	Projected to TD

Checked By: _____ Approved By: _____ Date: _____