

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #900H - Slot A2
Project:	T23N R6W	TVD Reference:	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)
Site:	Chaco 2306-20M	MD Reference:	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)
Well:	NE Chaco COM #900H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Project	T23N R6W		
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 2306-20M			
Site Position:		Northing:	1,894,085.80 usft	Latitude: 36.2051499
From:	Map	Easting:	598,604.90 usft	Longitude: -107.4991100
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence: 0.20 °

Well	NE Chaco COM #900H - Slot A2			
Well Position	+N/-S	0.00 usft	Northing:	1,894,070.85 usft
	+E/-W	0.00 usft	Easting:	598,618.13 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	7,037.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/21/2015	9.05	62.93	49,789

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	295.41

Survey Program	Date	7/13/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
25.00	330.00	Survey #1 - Gyro Surveys (Wellbore #1)	GYRO-NS	Gyrocompass Gyro
404.00	4,637.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD	SDI MWD - Standard ver 1.0.1
4,683.00	5,794.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1
5,864.00	15,391.00	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	1,894,070.85	598,618.13	36.2051087	-107.4990653
25.00	0.00	0.00	25.00	0.00	0.00	1,894,070.85	598,618.13	36.2051087	-107.4990653
55.00	0.17	31.85	55.00	0.04	0.02	1,894,070.89	598,618.16	36.2051088	-107.4990653
85.00	0.20	340.52	85.00	0.12	0.03	1,894,070.98	598,618.16	36.2051091	-107.4990652
115.00	0.16	1.71	115.00	0.22	0.01	1,894,071.07	598,618.15	36.2051093	-107.4990653
145.00	0.33	355.04	145.00	0.34	0.01	1,894,071.20	598,618.14	36.2051097	-107.4990653
175.00	0.27	342.11	175.00	0.50	-0.02	1,894,071.35	598,618.11	36.2051101	-107.4990654
205.00	0.23	24.76	205.00	0.62	-0.02	1,894,071.47	598,618.11	36.2051104	-107.4990654
235.00	0.14	25.16	235.00	0.71	0.02	1,894,071.56	598,618.15	36.2051107	-107.4990653

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #900H - Slot A2
Project:	T23N R6W	TVD Reference:	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)
Site:	Chaco 2306-20M	MD Reference:	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)
Well:	NE Chaco COM #900H	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	0.24	1.59	265.00	0.80	0.04	1,894,071.66	598,618.17	36.2051109	-107.4990652
295.00	0.37	9.53	295.00	0.96	0.06	1,894,071.81	598,618.19	36.2051114	-107.4990651
325.00	0.51	356.31	325.00	1.19	0.06	1,894,072.04	598,618.19	36.2051120	-107.4990651
330.00	0.52	355.42	330.00	1.24	0.06	1,894,072.09	598,618.19	36.2051121	-107.4990651
404.00	1.02	18.67	403.99	2.19	0.25	1,894,073.05	598,618.37	36.2051147	-107.4990645
First SDI Surface MWD Survey									
450.00	1.80	20.75	449.98	3.26	0.63	1,894,074.11	598,618.75	36.2051177	-107.4990632
541.00	3.37	67.30	540.89	5.63	3.61	1,894,076.49	598,621.72	36.2051242	-107.4990531
633.00	5.29	67.54	632.62	8.29	10.02	1,894,079.18	598,628.13	36.2051315	-107.4990314
724.00	5.79	64.11	723.20	11.90	18.03	1,894,082.81	598,636.12	36.2051414	-107.4990042
815.00	6.22	66.70	813.70	15.85	26.68	1,894,086.80	598,644.76	36.2051523	-107.4989749
906.00	7.55	75.69	904.04	19.28	37.01	1,894,090.26	598,655.07	36.2051617	-107.4989399
997.00	10.13	67.31	993.96	23.85	50.19	1,894,094.87	598,668.24	36.2051742	-107.4988952
1,088.00	11.39	51.60	1,083.37	32.52	64.61	1,894,103.59	598,682.63	36.2051980	-107.4988463
1,179.00	9.27	31.14	1,172.92	44.38	75.45	1,894,115.49	598,693.43	36.2052306	-107.4988096
1,270.00	6.86	24.87	1,263.02	55.58	81.53	1,894,126.71	598,699.47	36.2052614	-107.4987890
1,361.00	4.62	31.57	1,353.56	63.64	85.73	1,894,134.78	598,703.65	36.2052835	-107.4987748
1,452.00	1.59	34.47	1,444.41	67.80	88.37	1,894,138.96	598,706.27	36.2052950	-107.4987658
1,544.00	1.39	291.62	1,536.40	69.26	88.05	1,894,140.42	598,705.95	36.2052990	-107.4987669
1,634.00	1.45	307.21	1,626.37	70.35	86.13	1,894,141.50	598,704.02	36.2053020	-107.4987734
1,726.00	1.45	309.26	1,718.34	71.80	84.30	1,894,142.94	598,702.19	36.2053059	-107.4987796
1,817.00	0.44	226.10	1,809.33	72.28	83.16	1,894,143.42	598,701.04	36.2053073	-107.4987835
1,908.00	0.14	37.48	1,900.33	72.13	82.97	1,894,143.27	598,700.86	36.2053069	-107.4987841
1,999.00	0.55	315.99	1,991.33	72.53	82.74	1,894,143.67	598,700.62	36.2053080	-107.4987849
2,090.00	0.81	188.10	2,082.32	72.21	82.34	1,894,143.34	598,700.23	36.2053071	-107.4987862
2,181.00	1.38	200.88	2,173.31	70.55	81.86	1,894,141.68	598,699.75	36.2053025	-107.4987879
2,272.00	1.37	198.83	2,264.28	68.49	81.12	1,894,139.62	598,699.02	36.2052969	-107.4987904
2,364.00	1.69	198.88	2,356.25	66.17	80.33	1,894,137.30	598,698.23	36.2052905	-107.4987931
2,455.00	2.07	168.01	2,447.20	63.29	80.23	1,894,134.42	598,698.15	36.2052826	-107.4987934
2,546.00	1.17	121.42	2,538.17	61.20	81.37	1,894,132.33	598,699.29	36.2052768	-107.4987895
2,637.00	1.25	120.18	2,629.15	60.22	83.02	1,894,131.35	598,700.95	36.2052741	-107.4987839
2,727.00	1.11	118.45	2,719.13	59.31	84.64	1,894,130.45	598,702.56	36.2052716	-107.4987785
2,818.00	1.11	116.92	2,810.11	58.49	86.20	1,894,129.64	598,704.13	36.2052694	-107.4987732
2,909.00	0.94	166.55	2,901.10	57.36	87.16	1,894,128.52	598,705.09	36.2052663	-107.4987699
3,000.00	0.87	163.96	2,992.09	55.97	87.52	1,894,127.13	598,705.46	36.2052625	-107.4987687
3,091.00	1.07	197.14	3,083.07	54.50	87.46	1,894,125.65	598,705.41	36.2052584	-107.4987689
3,182.00	1.21	208.83	3,174.06	52.84	86.75	1,894,123.99	598,704.70	36.2052539	-107.4987713
3,273.00	0.88	249.08	3,265.04	51.75	85.63	1,894,122.90	598,703.59	36.2052509	-107.4987751
3,364.00	0.79	252.77	3,356.03	51.32	84.38	1,894,122.46	598,702.33	36.2052497	-107.4987793
3,455.00	1.01	249.25	3,447.02	50.85	83.03	1,894,121.98	598,700.99	36.2052484	-107.4987839
3,545.00	0.85	239.65	3,537.01	50.23	81.71	1,894,121.36	598,699.67	36.2052467	-107.4987884
3,637.00	0.66	334.59	3,629.00	50.36	80.90	1,894,121.49	598,698.85	36.2052471	-107.4987911
3,728.00	0.48	344.84	3,720.00	51.20	80.57	1,894,122.33	598,698.53	36.2052494	-107.4987922
3,818.00	0.47	304.32	3,810.00	51.78	80.17	1,894,122.90	598,698.12	36.2052509	-107.4987936
3,908.00	0.27	304.09	3,899.99	52.10	79.69	1,894,123.23	598,697.64	36.2052518	-107.4987952
4,000.00	0.17	240.40	3,991.99	52.16	79.39	1,894,123.28	598,697.34	36.2052520	-107.4987963
4,091.00	0.24	78.12	4,082.99	52.13	79.46	1,894,123.26	598,697.41	36.2052519	-107.4987960
4,182.00	0.18	108.10	4,173.99	52.12	79.78	1,894,123.25	598,697.73	36.2052519	-107.4987949
4,273.00	0.40	146.97	4,264.99	51.81	80.09	1,894,122.94	598,698.04	36.2052511	-107.4987939
4,364.00	0.20	131.38	4,355.99	51.44	80.38	1,894,122.57	598,698.34	36.2052500	-107.4987929
4,455.00	0.33	128.84	4,446.99	51.17	80.71	1,894,122.30	598,698.66	36.2052493	-107.4987918
4,547.00	0.20	172.79	4,538.99	50.85	80.93	1,894,121.98	598,698.89	36.2052484	-107.4987910
4,592.00	0.34	158.46	4,583.99	50.65	80.99	1,894,121.78	598,698.95	36.2052478	-107.4987908
4,637.00	0.46	224.70	4,628.99	50.39	80.91	1,894,121.52	598,698.87	36.2052471	-107.4987911
Last SDI Surface MWD Survey									

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #900H - Slot A2
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Site:	Chaco 2306-20M	MD Reference:	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)
Well:	NE Chaco COM #900H	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
4,683.00	4.29	299.80	4,674.94	51.12	79.29	1,894,122.24	598,697.25	36.2052491	-107.4987966
First SDI Curve MWD Survey									
4,728.00	9.08	303.21	4,719.62	53.90	74.85	1,894,125.01	598,692.80	36.2052568	-107.4988116
4,774.00	12.82	303.96	4,764.78	58.74	67.58	1,894,129.83	598,685.51	36.2052701	-107.4988363
4,819.00	15.48	300.12	4,808.41	64.54	58.25	1,894,135.60	598,676.16	36.2052860	-107.4988679
4,865.00	19.56	299.29	4,852.27	71.39	46.21	1,894,142.41	598,664.10	36.2053048	-107.4989087
4,910.00	23.44	295.27	4,894.13	78.90	31.54	1,894,149.86	598,649.41	36.2053255	-107.4989584
4,956.00	26.87	293.27	4,935.76	86.92	13.72	1,894,157.82	598,631.55	36.2053475	-107.4990189
5,002.00	30.43	293.76	4,976.12	95.72	-6.50	1,894,166.55	598,611.30	36.2053717	-107.4990874
5,047.00	33.99	295.51	5,014.19	105.73	-28.29	1,894,176.49	598,589.48	36.2053992	-107.4991612
5,093.00	37.55	296.22	5,051.51	117.47	-52.48	1,894,188.14	598,565.25	36.2054314	-107.4992432
5,138.00	41.16	295.57	5,086.30	129.92	-78.15	1,894,200.51	598,539.54	36.2054656	-107.4993302
5,184.00	43.52	293.49	5,120.30	142.77	-106.33	1,894,213.26	598,511.31	36.2055009	-107.4994258
5,229.00	47.92	292.32	5,151.71	155.30	-136.01	1,894,225.68	598,481.59	36.2055353	-107.4995263
5,275.00	51.92	293.92	5,181.32	169.13	-168.36	1,894,239.40	598,449.19	36.2055733	-107.4996360
5,320.00	53.82	295.45	5,208.49	184.11	-200.96	1,894,254.27	598,416.54	36.2056145	-107.4997465
5,366.00	59.15	296.92	5,233.88	201.04	-235.35	1,894,271.08	598,382.09	36.2056610	-107.4998631
5,411.00	63.19	296.85	5,255.57	218.87	-270.51	1,894,288.79	598,346.87	36.2057100	-107.4999822
5,457.00	63.46	296.35	5,276.22	237.27	-307.26	1,894,307.06	598,310.06	36.2057605	-107.5001068
5,503.00	67.67	296.00	5,295.25	255.74	-344.84	1,894,325.40	598,272.42	36.2058113	-107.5002342
5,548.00	70.37	294.36	5,311.36	273.61	-382.86	1,894,343.14	598,234.33	36.2058603	-107.5003630
5,594.00	74.40	293.34	5,325.28	291.33	-422.95	1,894,360.72	598,194.18	36.2059090	-107.5004989
5,639.00	77.91	293.77	5,336.04	308.79	-463.00	1,894,378.04	598,154.08	36.2059570	-107.5006347
5,685.00	81.43	295.34	5,344.29	327.59	-504.15	1,894,396.71	598,112.86	36.2060086	-107.5007742
5,731.00	84.58	295.84	5,349.89	347.31	-545.32	1,894,416.28	598,071.62	36.2060628	-107.5009137
5,752.00	86.10	295.90	5,351.60	356.44	-564.15	1,894,425.35	598,052.75	36.2060879	-107.5009776
5,794.00	88.00	295.63	5,353.76	374.68	-601.93	1,894,443.45	598,014.92	36.2061380	-107.5011056
Last SDI Curve MWD Survey - 7" Casing @ 5794' MD - 36.2061380 / -107.5011055									
5,864.00	91.18	295.19	5,354.26	404.71	-665.15	1,894,473.26	597,951.60	36.2062205	-107.5013199
First SDI Lateral MWD Survey									
5,955.00	90.37	295.39	5,353.03	443.58	-747.42	1,894,511.85	597,869.19	36.2063273	-107.5015987
6,046.00	89.78	294.87	5,352.91	482.22	-829.80	1,894,550.21	597,786.68	36.2064334	-107.5018780
6,138.00	90.17	293.99	5,352.95	520.27	-913.56	1,894,587.97	597,702.78	36.2065379	-107.5021619
6,229.00	90.61	293.07	5,352.33	556.60	-996.99	1,894,624.01	597,619.23	36.2066377	-107.5024447
6,320.00	90.84	294.52	5,351.18	593.31	-1,080.25	1,894,660.44	597,535.85	36.2067386	-107.5027269
6,411.00	90.03	296.31	5,350.49	632.36	-1,162.44	1,894,699.21	597,453.53	36.2068458	-107.5030055
6,502.00	90.50	297.34	5,350.07	673.43	-1,243.64	1,894,739.99	597,372.18	36.2069586	-107.5032807
6,593.00	89.33	296.34	5,350.20	714.51	-1,324.84	1,894,780.80	597,290.84	36.2070715	-107.5035560
6,685.00	89.56	297.19	5,351.09	755.94	-1,406.97	1,894,821.94	597,208.56	36.2071853	-107.5038344
6,776.00	89.63	297.79	5,351.74	797.95	-1,487.70	1,894,863.67	597,127.70	36.2073007	-107.5041080
6,867.00	89.70	299.20	5,352.27	841.36	-1,567.67	1,894,906.80	597,047.57	36.2074199	-107.5043791
6,957.00	88.73	300.45	5,353.50	886.11	-1,645.74	1,894,951.29	596,969.35	36.2075429	-107.5046437
7,044.00	86.44	297.07	5,357.17	927.93	-1,721.92	1,894,992.84	596,893.02	36.2076577	-107.5049020
7,136.00	88.05	292.25	5,361.59	966.26	-1,805.41	1,895,030.88	596,809.41	36.2077630	-107.5051850
7,227.00	89.08	292.59	5,363.87	1,000.95	-1,889.50	1,895,065.29	596,725.19	36.2078583	-107.5054700
7,318.00	90.44	293.28	5,364.25	1,036.41	-1,973.31	1,895,100.46	596,641.27	36.2079557	-107.5057541
7,409.00	90.33	292.03	5,363.64	1,071.46	-2,057.28	1,895,135.22	596,557.17	36.2080520	-107.5060387
7,500.00	89.60	293.61	5,363.70	1,106.75	-2,141.15	1,895,170.22	596,473.18	36.2081489	-107.5063230
7,590.00	90.48	293.02	5,363.63	1,142.37	-2,223.80	1,895,205.55	596,390.41	36.2082467	-107.5066032
7,681.00	90.03	293.38	5,363.23	1,178.22	-2,307.44	1,895,241.11	596,306.64	36.2083452	-107.5068867
7,773.00	89.34	294.61	5,363.74	1,215.63	-2,391.49	1,895,278.24	596,222.47	36.2084479	-107.5071716
7,864.00	89.93	294.99	5,364.32	1,253.80	-2,474.10	1,895,316.12	596,139.73	36.2085528	-107.5074516
7,956.00	90.13	295.31	5,364.27	1,292.90	-2,557.37	1,895,354.93	596,056.32	36.2086602	-107.5077339
8,047.00	90.04	295.31	5,364.13	1,331.80	-2,639.64	1,895,393.55	595,973.92	36.2087670	-107.5080128
8,138.00	90.03	294.89	5,364.08	1,370.41	-2,722.05	1,895,431.87	595,891.38	36.2088731	-107.5082921

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #900H - Slot A2
Project:	T23N R6W	TVD Reference:	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)
Site:	Chaco 2306-20M	MD Reference:	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)
Well:	NE Chaco COM #900H	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
8,229.00	89.78	295.05	5,364.23	1,408.82	-2,804.54	1,895,470.00	595,808.76	36.2089786	-107.5085718
8,320.00	90.71	294.75	5,363.84	1,447.13	-2,887.08	1,895,508.03	595,726.08	36.2090838	-107.5088516
8,411.00	90.13	294.12	5,363.17	1,484.78	-2,969.92	1,895,545.38	595,643.11	36.2091872	-107.5091324
8,502.00	90.24	294.94	5,362.88	1,522.56	-3,052.71	1,895,582.88	595,560.19	36.2092909	-107.5094130
8,594.00	89.70	293.82	5,362.93	1,560.53	-3,136.50	1,895,620.57	595,476.27	36.2093952	-107.5096971
8,685.00	90.10	294.41	5,363.08	1,597.71	-3,219.56	1,895,657.46	595,393.08	36.2094973	-107.5099786
8,776.00	89.59	294.72	5,363.33	1,635.54	-3,302.33	1,895,695.00	595,310.19	36.2096012	-107.5102592
8,867.00	89.73	294.64	5,363.87	1,673.54	-3,385.01	1,895,732.71	595,227.37	36.2097056	-107.5105395
8,958.00	89.66	294.84	5,364.36	1,711.62	-3,467.66	1,895,770.51	595,144.60	36.2098102	-107.5108196
9,049.00	90.13	295.66	5,364.52	1,750.44	-3,549.96	1,895,809.05	595,062.16	36.2099168	-107.5110986
9,141.00	89.78	295.22	5,364.59	1,789.96	-3,633.04	1,895,848.28	594,978.95	36.2100253	-107.5113803
9,232.00	89.08	295.75	5,365.50	1,829.11	-3,715.18	1,895,887.15	594,896.67	36.2101329	-107.5116587
9,323.00	88.81	294.78	5,367.17	1,867.94	-3,797.46	1,895,925.70	594,814.26	36.2102395	-107.5119376
9,414.00	90.47	293.80	5,367.75	1,905.37	-3,880.40	1,895,962.84	594,731.19	36.2103423	-107.5122188
9,505.00	90.07	292.82	5,367.32	1,941.38	-3,963.97	1,895,998.56	594,647.50	36.2104412	-107.5125021
9,596.00	90.13	293.15	5,367.16	1,976.92	-4,047.75	1,896,033.81	594,563.60	36.2105388	-107.5127861
9,687.00	90.31	292.23	5,366.81	2,012.02	-4,131.70	1,896,068.62	594,479.52	36.2106352	-107.5130707
9,778.00	90.07	295.24	5,366.51	2,048.64	-4,214.99	1,896,104.96	594,396.10	36.2107358	-107.5133530
9,869.00	89.96	295.49	5,366.48	2,087.63	-4,297.22	1,896,143.66	594,313.74	36.2108428	-107.5136318
9,961.00	90.44	295.19	5,366.16	2,127.00	-4,380.37	1,896,182.74	594,230.46	36.2109510	-107.5139137
10,052.00	90.34	295.40	5,365.54	2,165.88	-4,462.64	1,896,221.34	594,148.05	36.2110577	-107.5141926
10,142.00	90.74	295.06	5,364.70	2,204.24	-4,544.05	1,896,259.42	594,066.51	36.2111631	-107.5144685
10,232.00	90.17	294.74	5,363.98	2,242.13	-4,625.68	1,896,297.03	593,984.75	36.2112671	-107.5147453
10,324.00	90.04	295.40	5,363.81	2,281.12	-4,709.02	1,896,335.73	593,901.28	36.2113742	-107.5150278
10,415.00	90.50	295.62	5,363.38	2,320.31	-4,791.14	1,896,374.63	593,819.02	36.2114818	-107.5153062
10,505.00	89.30	294.00	5,363.54	2,358.07	-4,872.83	1,896,412.12	593,737.20	36.2115855	-107.5155831
10,596.00	90.13	294.69	5,363.99	2,395.58	-4,955.74	1,896,449.34	593,654.17	36.2116885	-107.5158642
10,688.00	90.92	295.31	5,363.15	2,434.46	-5,039.11	1,896,487.93	593,570.66	36.2117953	-107.5161468
10,779.00	90.13	296.01	5,362.32	2,473.86	-5,121.13	1,896,527.05	593,488.50	36.2119035	-107.5164249
10,869.00	90.13	296.54	5,362.11	2,513.71	-5,201.83	1,896,566.62	593,407.67	36.2120129	-107.5166985
10,960.00	91.38	296.44	5,360.91	2,554.29	-5,283.27	1,896,606.92	593,326.09	36.2121244	-107.5169745
11,051.00	89.43	294.08	5,360.27	2,593.12	-5,365.56	1,896,645.46	593,243.67	36.2122310	-107.5172535
11,143.00	91.07	293.42	5,359.87	2,630.17	-5,449.76	1,896,682.22	593,159.34	36.2123327	-107.5175390
11,233.00	90.20	293.85	5,358.87	2,666.25	-5,532.21	1,896,718.02	593,076.77	36.2124318	-107.5178184
11,323.00	89.90	294.42	5,358.79	2,703.05	-5,614.34	1,896,754.53	592,994.51	36.2125328	-107.5180969
11,415.00	89.78	295.31	5,359.05	2,741.73	-5,697.81	1,896,792.93	592,910.91	36.2126391	-107.5183799
11,506.00	90.10	295.15	5,359.14	2,780.52	-5,780.13	1,896,831.44	592,828.46	36.2127456	-107.5186589
11,597.00	89.96	295.31	5,359.10	2,819.31	-5,862.45	1,896,869.94	592,746.00	36.2128521	-107.5189380
11,688.00	89.16	294.26	5,359.80	2,857.46	-5,945.06	1,896,907.80	592,663.26	36.2129568	-107.5192181
11,779.00	89.52	294.96	5,360.84	2,895.35	-6,027.79	1,896,945.41	592,580.40	36.2130609	-107.5194985
11,870.00	90.31	296.63	5,360.98	2,934.95	-6,109.72	1,896,984.72	592,498.34	36.2131696	-107.5197763
11,961.00	89.76	296.92	5,360.92	2,975.94	-6,190.96	1,897,025.44	592,416.95	36.2132822	-107.5200517
12,052.00	89.53	296.93	5,361.49	3,017.15	-6,272.10	1,897,066.36	592,335.68	36.2133953	-107.5203268
12,098.00	88.76	297.40	5,362.17	3,038.14	-6,313.02	1,897,087.22	592,294.68	36.2134530	-107.5206010
12,143.00	89.23	297.34	5,362.96	3,058.83	-6,352.97	1,897,107.77	592,254.66	36.2135098	-107.5208792
12,235.00	88.89	296.38	5,364.47	3,100.39	-6,435.03	1,897,149.05	592,172.45	36.2136239	-107.5211543
12,326.00	90.77	297.45	5,364.74	3,141.58	-6,516.17	1,897,189.96	592,091.17	36.2137370	-107.5214288
12,417.00	89.83	296.85	5,364.27	3,183.10	-6,597.14	1,897,231.20	592,010.06	36.2138511	-107.5217062
12,508.00	89.93	295.02	5,364.46	3,222.90	-6,678.97	1,897,270.72	591,928.09	36.2139603	-107.5219882
12,600.00	89.87	295.57	5,364.62	3,262.21	-6,762.15	1,897,309.74	591,844.78	36.2140683	-107.5222671
12,691.00	90.04	295.05	5,364.69	3,301.11	-6,844.42	1,897,348.36	591,762.38	36.2141751	-107.5225483
12,782.00	90.48	293.55	5,364.28	3,338.56	-6,927.35	1,897,385.52	591,679.32	36.2142779	-107.5228243
12,812.00	89.53	294.09	5,364.27	3,350.68	-6,954.80	1,897,397.54	591,651.83	36.2143112	-107.5229233
12,903.00	90.27	293.76	5,364.43	3,387.58	-7,037.98	1,897,434.16	591,568.52	36.2144125	-107.5232064
12,994.00	90.40	293.11	5,363.90	3,423.77	-7,121.47	1,897,470.06	591,484.91	36.2145119	-107.5232064

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #900H - Slot A2
Project:	T23N R6W	TVD Reference:	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)
Site:	Chaco 2306-20M	MD Reference:	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)
Well:	NE Chaco COM #900H	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
13,085.00	90.57	292.50	5,363.13	3,459.04	-7,205.35	1,897,505.04	591,400.90	36.2146087	-107.5234908
13,176.00	89.56	293.51	5,363.03	3,494.60	-7,289.11	1,897,540.32	591,317.02	36.2147063	-107.5237747
13,267.00	89.60	293.58	5,363.69	3,530.95	-7,372.53	1,897,576.38	591,233.47	36.2148061	-107.5240576
13,358.00	90.03	294.95	5,363.99	3,568.35	-7,455.49	1,897,613.49	591,150.39	36.2149088	-107.5243388
13,450.00	89.93	294.94	5,364.02	3,607.15	-7,538.91	1,897,652.00	591,066.84	36.2150153	-107.5246216
13,541.00	89.60	294.21	5,364.39	3,645.00	-7,621.66	1,897,689.56	590,983.95	36.2151192	-107.5249022
13,632.00	90.13	295.13	5,364.61	3,682.98	-7,704.36	1,897,727.26	590,901.13	36.2152235	-107.5251825
13,723.00	89.46	294.88	5,364.93	3,721.44	-7,786.83	1,897,765.44	590,818.53	36.2153291	-107.5254621
13,814.00	90.13	295.57	5,365.26	3,760.22	-7,869.15	1,897,803.93	590,736.07	36.2154356	-107.5257412
13,905.00	89.87	294.69	5,365.26	3,798.87	-7,951.53	1,897,842.30	590,653.55	36.2155417	-107.5260206
13,995.00	89.60	293.46	5,365.67	3,835.58	-8,033.70	1,897,878.73	590,571.26	36.2156425	-107.5262991
14,086.00	90.04	295.05	5,365.96	3,872.96	-8,116.67	1,897,915.82	590,488.17	36.2157451	-107.5265804
14,177.00	90.22	294.52	5,365.75	3,911.11	-8,199.28	1,897,953.68	590,405.42	36.2158499	-107.5268605
14,268.00	89.96	293.99	5,365.61	3,948.49	-8,282.25	1,897,990.78	590,322.33	36.2159525	-107.5271418
14,359.00	89.96	293.90	5,365.67	3,985.43	-8,365.42	1,898,027.43	590,239.03	36.2160539	-107.5274238
14,450.00	90.13	294.87	5,365.60	4,023.00	-8,448.30	1,898,064.71	590,156.02	36.2161570	-107.5277048
14,542.00	89.78	294.17	5,365.67	4,061.18	-8,532.00	1,898,102.60	590,072.19	36.2162618	-107.5279886
14,633.00	90.80	293.10	5,365.21	4,097.66	-8,615.36	1,898,138.80	589,988.70	36.2163620	-107.5282712
14,723.00	89.08	293.38	5,365.31	4,133.17	-8,698.06	1,898,174.02	589,905.88	36.2164595	-107.5285516
14,814.00	90.24	295.23	5,365.85	4,170.62	-8,780.99	1,898,211.19	589,822.83	36.2165623	-107.5288327
14,905.00	89.08	295.05	5,366.39	4,209.28	-8,863.36	1,898,249.56	589,740.32	36.2166684	-107.5291120
14,996.00	91.47	294.80	5,365.95	4,247.63	-8,945.88	1,898,287.62	589,657.67	36.2167737	-107.5293918
15,087.00	91.82	296.33	5,363.34	4,286.88	-9,027.94	1,898,326.59	589,575.48	36.2168815	-107.5296700
15,177.00	92.25	296.75	5,360.14	4,327.07	-9,108.40	1,898,366.51	589,494.87	36.2169918	-107.5299428
15,268.00	89.03	295.51	5,359.13	4,367.14	-9,190.08	1,898,406.29	589,413.05	36.2171018	-107.5302198
15,291.00	89.00	295.22	5,359.52	4,376.99	-9,210.86	1,898,416.07	589,392.24	36.2171288	-107.5302902
36.2171289 / -107.5302902 - RSI @ 15,291' MD									
15,325.00	88.96	294.78	5,360.13	4,391.35	-9,241.67	1,898,430.33	589,361.38	36.2171683	-107.5303947
Last SDI Lateral MWD Survey									
15,391.00	88.96	294.78	5,361.32	4,419.01	-9,301.59	1,898,457.78	589,301.37	36.2172442	-107.5305978
Projection to TD									

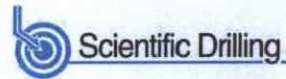
Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
404.00	403.99	2.19	0.25	First SDI Surface MWD Survey
4,637.00	4,628.99	50.39	80.91	Last SDI Surface MWD Survey
4,683.00	4,674.94	51.12	79.29	First SDI Curve MWD Survey
5,794.00	5,353.76	374.68	-601.93	Last SDI Curve MWD Survey
5,794.00	5,353.76	374.68	-601.93	7" Casing @ 5794' MD
5,794.00	5,353.76	374.68	-601.93	36.2061380 / -107.5011055
5,864.00	5,354.26	404.71	-665.15	First SDI Lateral MWD Survey
15,291.00	5,359.52	4,376.99	-9,210.86	36.2171289 / -107.5302902
15,291.00	5,359.52	4,376.99	-9,210.86	RSI @ 15,291' MD
15,325.00	5,360.13	4,391.35	-9,241.67	Last SDI Lateral MWD Survey
15,391.00	5,361.32	4,419.01	-9,301.59	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



Company Name: WPX Energy
 Project: T23N R6W
 Site: Chaco 2306-20M
 Well: NE Chaco COM #900H



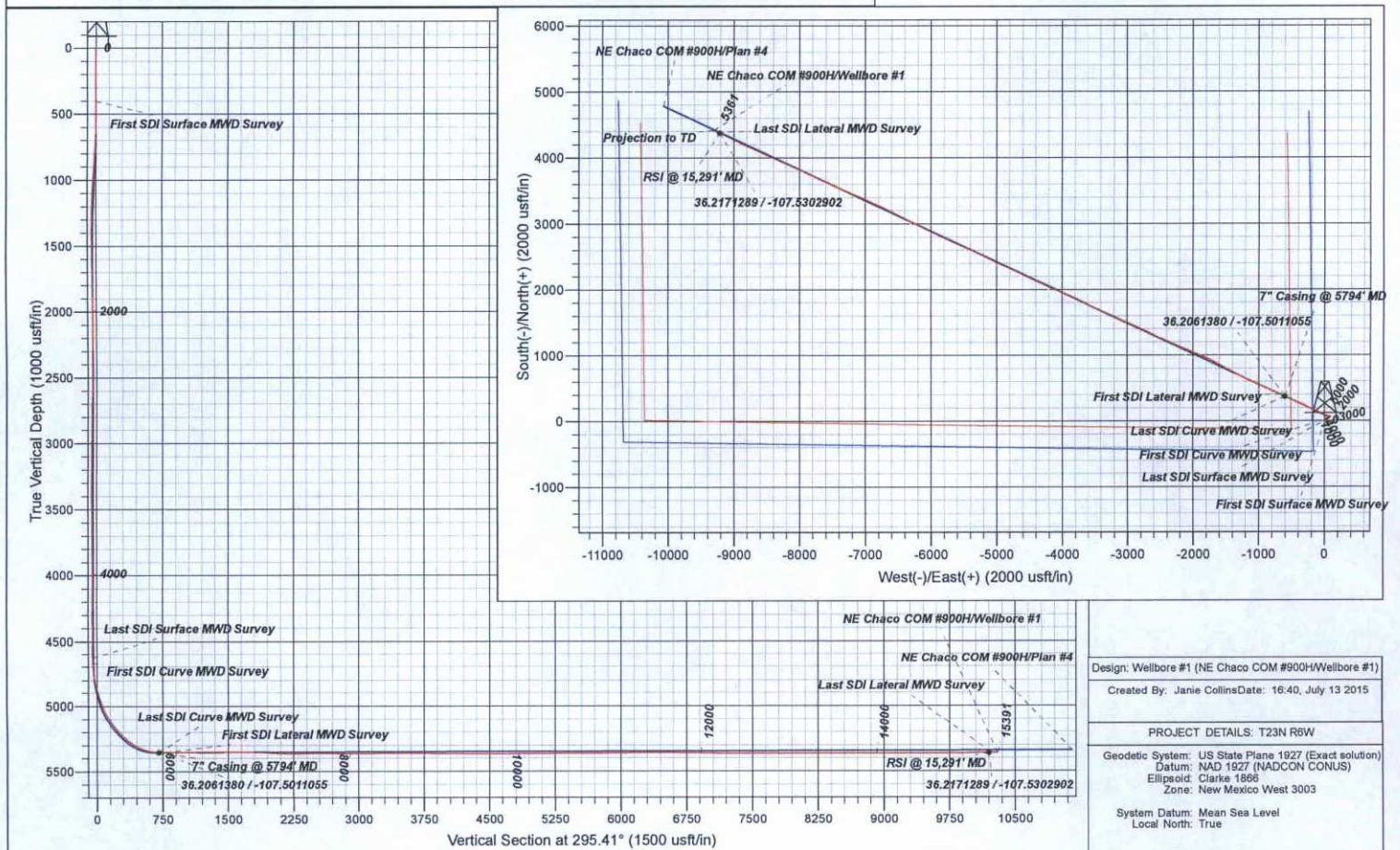
Azimuths to True North
 Magnetic North: 9.05°

Magnetic Field
 Strength: 49789.4anT
 Dip Angle: 62.93°
 Date: 6/21/2015
 Model: HDGM

WELL DETAILS: NE Chaco COM #900H

+N/-S	+E/-W	GL 7037' & RKB 25' @ 7062.00usft (Aztec 1000)	7037.00
Northing	Easting	Latitude	Longitude
0.00	0.00	1894070.85	598618.13
		36.2051087	-107.4990653

A2



Design: Wellbore #1 (NE Chaco COM #900H/Wellbore #1)
 Created By: Janie Collins Date: 16:40, July 13 2015

PROJECT DETAILS: T23N R6W

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

OIL CONS. DIV DIST. 3

JUL 20 2015

CONFIDENTIAL