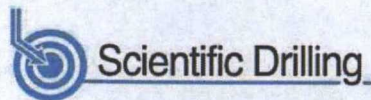


7



Company Name: WPX Energy
 Project: T23N R6W (NM Central)
 Site: Chaco 2306-16L
 Well: NE Chaco Com #243H

WPXENERGY



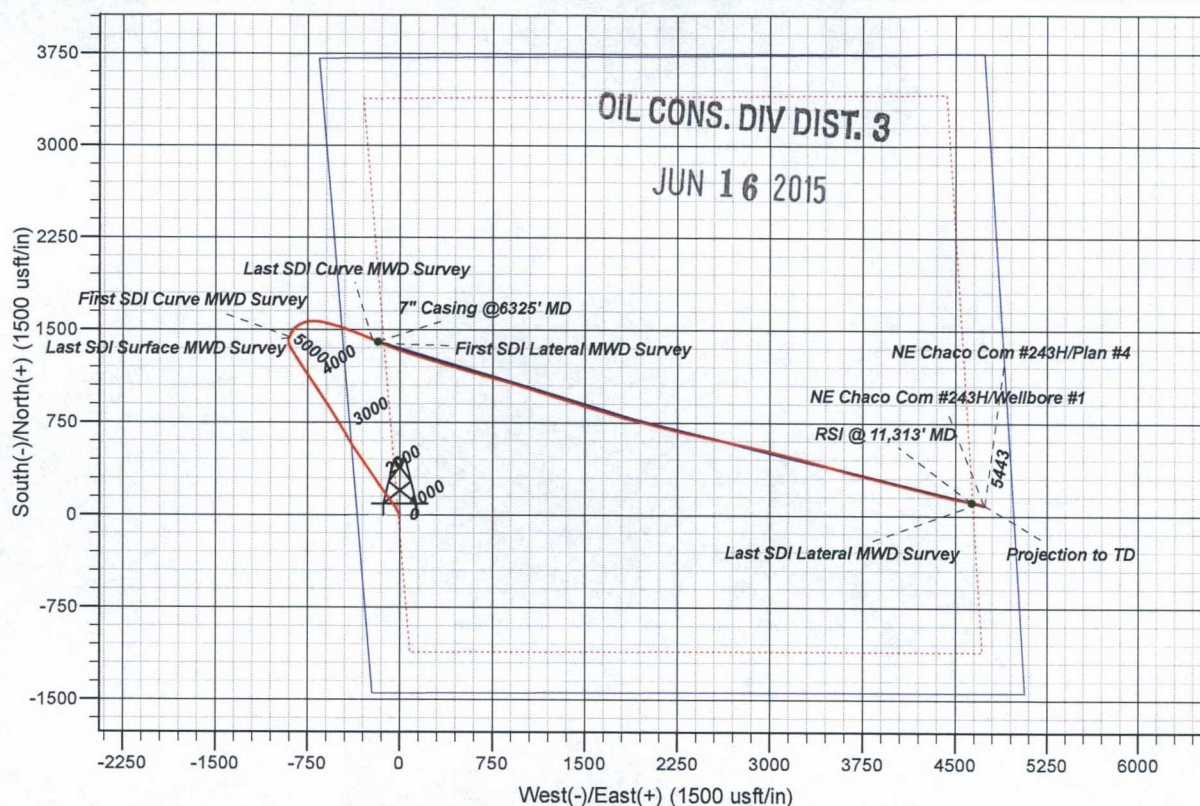
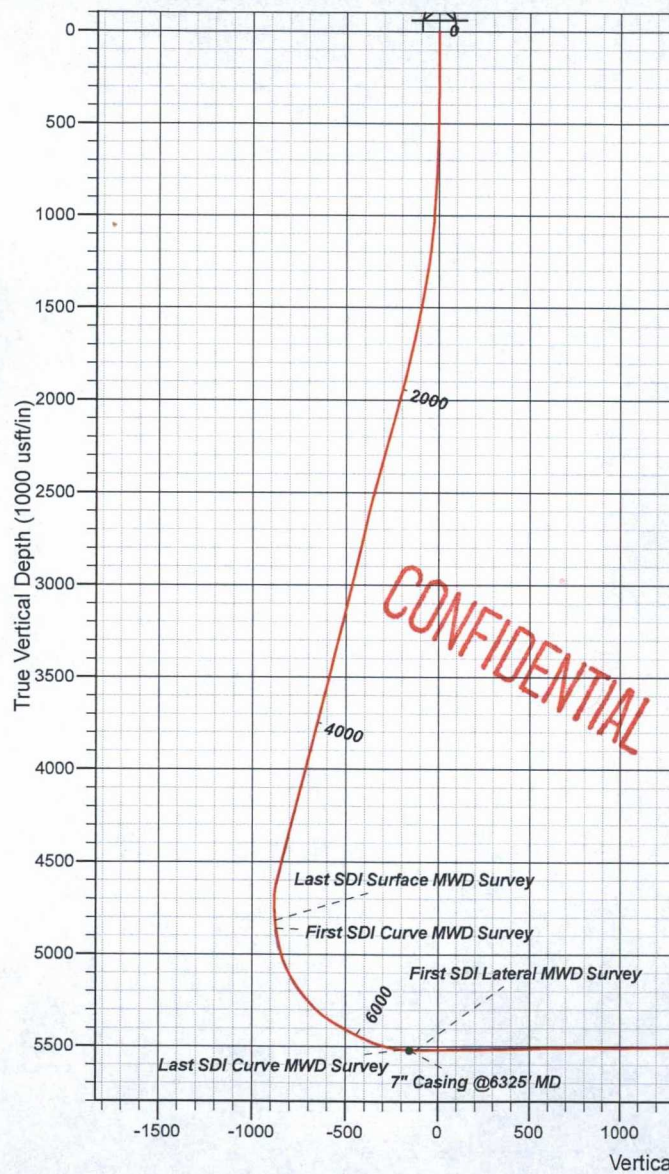
Azimuths to True North
 Magnetic North: 9.30°

Magnetic Field
 Strength: 50009.3snT
 Dip Angle: 62.97°
 Date: 4/2/2015
 Model: IGRF2015

WELL DETAILS: NE Chaco Com #243H

+N/-S	+E/-W	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)	6861.00
Northing	Easting	Latitude	Longitude
0.00	0.00	1902167.81	136819.77
		36.2215710	-107.4812580

A1



Design: Wellbore #1 (NE Chaco Com #243H/Wellbore #1)

Created By: Janie Collins Date: 15:32, 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



Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #243H - Slot A1
Project:	T23N R6W (NM Central)	TVD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #243H	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 #243H - Slot A1		
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:	36.2215710
		Longitude:	-107.4812580
		Ground Level:	6,861.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	4/2/2015	9.31
			Dip Angle
			(°)
			62.97
			Field Strength
			(nT)
			50,009

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			89.00

Survey Program	Date 4/14/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
25.00	319.00	Survey #1 - Gyro Survey (Wellbore #1)	GYRO-NS
450.00	5,174.00	Survey #2 - Surface MWD (Wellbore #1)	SDI MWD
5,219.00	6,277.00	Survey #3 - Curve MWD Survey (Wellbore)	SDI MWD
6,360.00	11,414.00	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	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting		
(usft)			(usft)			(usft)	(usft)		
0.00	0.00	0.00	0.00	0.00	0.00	1,902,167.81	136,819.77	36.2215710	-107.4812580
25.00	0.00	0.00	25.00	0.00	0.00	1,902,167.81	136,819.77	36.2215710	-107.4812580
55.00	0.15	273.10	55.00	0.00	-0.04	1,902,167.82	136,819.73	36.2215710	-107.4812582
85.00	0.24	190.83	85.00	-0.06	-0.09	1,902,167.76	136,819.68	36.2215708	-107.4812583
115.00	0.13	180.04	115.00	-0.15	-0.10	1,902,167.66	136,819.67	36.2215705	-107.4812584
145.00	0.15	205.99	145.00	-0.22	-0.12	1,902,167.59	136,819.65	36.2215704	-107.4812584
175.00	0.32	222.35	175.00	-0.32	-0.19	1,902,167.50	136,819.58	36.2215701	-107.4812587
205.00	0.50	243.88	205.00	-0.44	-0.37	1,902,167.38	136,819.40	36.2215698	-107.4812593
235.00	0.28	212.30	235.00	-0.56	-0.52	1,902,167.26	136,819.24	36.2215694	-107.4812598

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #243H - Slot A1
Project:	T23N R6W (NM Central)	TVD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #243H	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	0.35	292.88	265.00	-0.59	-0.65	1,902,167.24	136,819.12	36.2215694	-107.4812602
295.00	0.34	280.90	295.00	-0.53	-0.82	1,902,167.29	136,818.95	36.2215695	-107.4812608
319.00	0.37	284.70	319.00	-0.50	-0.96	1,902,167.33	136,818.80	36.2215696	-107.4812613
450.00	0.50	325.76	449.99	0.08	-1.69	1,902,167.91	136,818.08	36.2215712	-107.4812638
First SDI Surface MWD Survey									
542.00	1.86	319.93	541.97	1.55	-2.88	1,902,169.40	136,816.91	36.2215752	-107.4812678
633.00	3.78	327.66	632.86	5.22	-5.44	1,902,173.10	136,814.40	36.2215853	-107.4812765
724.00	5.49	331.88	723.56	11.59	-9.09	1,902,179.52	136,810.83	36.2216028	-107.4812889
815.00	6.99	330.52	814.01	20.25	-13.87	1,902,188.24	136,806.16	36.2216266	-107.4813051
907.00	7.15	332.90	905.32	30.22	-19.23	1,902,198.28	136,800.92	36.2216540	-107.4813232
998.00	7.93	327.83	995.53	40.58	-25.16	1,902,208.71	136,795.13	36.2216824	-107.4813433
1,089.00	9.55	327.27	1,085.47	52.24	-32.58	1,902,220.47	136,787.86	36.2217145	-107.4813685
1,180.00	12.45	327.19	1,174.79	66.84	-41.98	1,902,235.19	136,778.64	36.2217546	-107.4814004
1,272.00	15.15	327.45	1,264.12	85.31	-53.82	1,902,253.81	136,767.04	36.2218053	-107.4814405
1,363.00	16.39	321.08	1,351.70	105.33	-68.29	1,902,274.01	136,752.82	36.2218603	-107.4814895
1,454.00	17.24	322.45	1,438.81	126.01	-84.57	1,902,294.89	136,736.80	36.2219171	-107.4815447
1,546.00	20.21	322.39	1,525.93	149.41	-102.58	1,902,318.52	136,719.09	36.2219814	-107.4816058
1,636.00	21.11	324.34	1,610.15	174.90	-121.52	1,902,344.25	136,700.48	36.2220514	-107.4816700
1,728.00	21.73	325.18	1,695.79	202.34	-140.90	1,902,371.93	136,681.44	36.2221268	-107.4817357
1,819.00	23.14	327.78	1,779.90	231.30	-160.06	1,902,401.14	136,662.66	36.2222063	-107.4818006
1,910.00	24.16	323.87	1,863.26	261.47	-180.57	1,902,431.57	136,642.53	36.2222892	-107.4818702
1,972.00	25.15	325.27	1,919.61	282.54	-195.56	1,902,452.83	136,627.81	36.2223471	-107.4819210
2,033.00	26.57	326.80	1,974.50	304.61	-210.42	1,902,475.09	136,613.23	36.2224077	-107.4819713
2,123.00	27.70	326.30	2,054.60	338.86	-233.04	1,902,509.62	136,591.04	36.2225018	-107.4820481
2,214.00	27.04	324.03	2,135.41	373.20	-256.93	1,902,544.26	136,567.59	36.2225961	-107.4821290
2,306.00	25.88	324.28	2,217.77	406.43	-280.94	1,902,577.79	136,544.01	36.2226874	-107.4822104
2,397.00	25.58	326.10	2,299.75	438.86	-303.49	1,902,610.51	136,521.87	36.2227765	-107.4822869
2,487.00	24.31	322.92	2,381.36	469.77	-325.50	1,902,641.70	136,500.25	36.2228614	-107.4823615
2,578.00	25.28	324.31	2,463.97	500.49	-348.13	1,902,672.71	136,478.01	36.2229458	-107.4824382
2,669.00	25.41	326.63	2,546.21	532.58	-370.20	1,902,705.08	136,456.35	36.2230339	-107.4825130
2,760.00	25.43	328.13	2,628.40	565.48	-391.26	1,902,738.24	136,435.71	36.2231243	-107.4825844
2,850.00	25.25	330.74	2,709.74	598.63	-410.84	1,902,771.65	136,416.55	36.2232154	-107.4826508
2,942.00	25.65	331.97	2,792.82	633.33	-429.79	1,902,806.58	136,398.04	36.2233107	-107.4827150
3,034.00	25.83	330.43	2,875.69	668.34	-449.04	1,902,841.83	136,379.24	36.2234068	-107.4827803
3,125.00	25.17	329.47	2,957.82	702.25	-468.65	1,902,875.99	136,360.05	36.2235000	-107.4828468
3,216.00	25.45	328.31	3,040.09	735.56	-488.75	1,902,909.55	136,340.38	36.2235915	-107.4829149
3,307.00	24.57	327.40	3,122.56	768.13	-509.22	1,902,942.39	136,320.32	36.2236810	-107.4829843
3,398.00	24.52	325.75	3,205.33	799.68	-530.04	1,902,974.20	136,299.91	36.2237676	-107.4830549
3,489.00	25.02	327.15	3,287.96	831.45	-551.11	1,903,006.24	136,279.24	36.2238549	-107.4831263
3,580.00	25.41	326.46	3,370.29	863.89	-572.33	1,903,038.95	136,258.43	36.2239440	-107.4831983
3,671.00	25.63	329.06	3,452.42	897.05	-593.24	1,903,072.37	136,237.94	36.2240351	-107.4832692
3,762.00	26.01	328.91	3,534.33	931.02	-613.66	1,903,106.60	136,217.95	36.2241284	-107.4833384
3,853.00	25.58	326.79	3,616.26	964.54	-634.73	1,903,140.39	136,197.32	36.2242205	-107.4834098
3,944.00	25.54	326.27	3,698.36	997.29	-656.38	1,903,173.41	136,176.08	36.2243104	-107.4834832
4,036.00	25.78	324.88	3,781.29	1,030.15	-678.90	1,903,206.56	136,153.98	36.2244007	-107.4835596
4,127.00	25.13	327.02	3,863.45	1,062.55	-700.80	1,903,239.23	136,132.49	36.2244897	-107.4836338
4,218.00	25.04	326.35	3,945.87	1,094.79	-721.99	1,903,271.74	136,111.71	36.2245782	-107.4837057
4,309.00	24.53	323.99	4,028.49	1,126.10	-743.77	1,903,303.33	136,090.33	36.2246643	-107.4837795
4,400.00	24.12	325.99	4,111.41	1,156.79	-765.28	1,903,334.29	136,069.21	36.2247486	-107.4838524
4,491.00	24.49	326.62	4,194.35	1,187.96	-786.06	1,903,365.72	136,048.83	36.2248342	-107.4839228
4,578.00	26.14	327.17	4,272.99	1,219.12	-806.37	1,903,397.14	136,028.91	36.2249198	-107.4839917
4,673.00	27.02	326.36	4,357.95	1,254.67	-829.67	1,903,432.98	136,006.06	36.2250174	-107.4840707
4,764.00	26.93	328.94	4,439.05	1,289.53	-851.75	1,903,468.13	135,984.42	36.2251132	-107.4841456
4,855.00	25.35	328.47	4,520.74	1,323.79	-872.57	1,903,502.65	135,964.04	36.2252073	-107.4842162
4,901.00	24.62	327.29	4,562.44	1,340.25	-882.90	1,903,519.24	135,953.92	36.2252525	-107.4842512

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #243H - Slot A1
Project:	T23N R6W (NM Central)	TVD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #243H	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
4,946.00	23.88	326.48	4,603.47	1,355.73	-893.00	1,903,534.85	135,944.02	36.2252950	-107.4842854
4,991.00	22.07	337.75	4,644.92	1,371.16	-901.23	1,903,550.38	135,935.98	36.2253374	-107.4843133
5,037.00	21.94	350.80	4,687.59	1,387.65	-905.88	1,903,566.93	135,931.54	36.2253827	-107.4843291
5,083.00	18.91	359.46	4,730.70	1,403.59	-907.33	1,903,582.89	135,930.30	36.2254265	-107.4843340
5,128.00	17.06	10.43	4,773.51	1,417.38	-906.20	1,903,596.66	135,931.60	36.2254644	-107.4843302
5,174.00	14.51	20.73	4,817.78	1,429.41	-902.94	1,903,608.65	135,935.02	36.2254974	-107.4843191
Last SDI Surface MWD Survey									
5,219.00	16.22	23.45	4,861.18	1,440.45	-898.44	1,903,619.63	135,939.66	36.2255277	-107.4843039
First SDI Curve MWD Survey									
5,265.00	19.96	26.09	4,904.89	1,453.40	-892.43	1,903,632.51	135,945.83	36.2255633	-107.4842835
5,311.00	22.63	28.81	4,947.75	1,468.21	-884.71	1,903,647.22	135,953.74	36.2256040	-107.4842573
5,356.00	25.24	35.40	4,988.89	1,483.62	-874.98	1,903,662.50	135,963.67	36.2256463	-107.4842243
5,402.00	27.51	42.08	5,030.10	1,499.51	-862.17	1,903,678.23	135,976.67	36.2256900	-107.4841809
5,416.00	28.84	43.05	5,042.44	1,504.37	-857.70	1,903,683.04	135,981.21	36.2257033	-107.4841657
5,462.00	31.45	50.05	5,082.23	1,520.20	-840.92	1,903,698.64	135,998.19	36.2257468	-107.4841089
5,507.00	33.24	58.26	5,120.27	1,534.23	-821.42	1,903,712.43	136,017.87	36.2257854	-107.4840428
5,553.00	35.17	64.76	5,158.32	1,546.52	-798.70	1,903,724.43	136,040.74	36.2258191	-107.4839657
5,599.00	36.40	72.58	5,195.66	1,556.26	-773.68	1,903,733.85	136,065.88	36.2258459	-107.4838809
5,644.00	37.50	81.42	5,231.64	1,562.30	-747.38	1,903,739.56	136,092.26	36.2258625	-107.4837918
5,690.00	42.20	87.17	5,266.96	1,565.16	-718.08	1,903,742.04	136,121.60	36.2258703	-107.4836924
5,735.00	46.16	92.66	5,299.24	1,565.15	-686.75	1,903,741.64	136,152.93	36.2258703	-107.4835862
5,781.00	51.09	97.01	5,329.64	1,562.19	-652.38	1,903,738.24	136,187.25	36.2258622	-107.4834697
5,826.00	56.41	101.72	5,356.25	1,556.24	-616.61	1,903,731.84	136,222.94	36.2258458	-107.4833484
5,872.00	61.91	106.33	5,379.83	1,546.63	-578.34	1,903,721.75	136,261.10	36.2258194	-107.4832187
5,918.00	61.77	106.67	5,401.54	1,535.12	-539.45	1,903,709.73	136,299.84	36.2257878	-107.4830869
5,963.00	61.47	105.80	5,422.93	1,524.05	-501.44	1,903,698.18	136,337.71	36.2257574	-107.4829580
6,009.00	64.14	107.88	5,443.96	1,512.19	-462.29	1,903,685.83	136,376.71	36.2257248	-107.4828253
6,054.00	67.18	109.93	5,462.50	1,498.90	-423.51	1,903,672.04	136,415.31	36.2256883	-107.4826938
6,100.00	69.61	111.29	5,479.44	1,483.84	-383.48	1,903,656.48	136,455.15	36.2256470	-107.4825581
6,146.00	73.60	112.04	5,493.95	1,467.73	-342.93	1,903,639.85	136,495.50	36.2256027	-107.4824206
6,191.00	77.96	112.14	5,505.00	1,451.33	-302.52	1,903,622.94	136,535.70	36.2255577	-107.4822836
6,237.00	81.07	112.22	5,513.37	1,434.25	-260.64	1,903,605.33	136,577.36	36.2255108	-107.4821416
6,277.00	85.76	112.58	5,517.96	1,419.11	-223.91	1,903,589.73	136,613.89	36.2254692	-107.4820171
Last SDI Curve MWD Survey									
6,325.00	88.00	113.37	5,520.57	1,400.41	-179.79	1,903,570.46	136,657.78	36.2254178	-107.4818675
7" Casing @6325' MD - 36.2254178, -107.4818675									
6,360.00	89.63	113.95	5,521.30	1,386.36	-147.74	1,903,556.01	136,689.65	36.2253792	-107.4817589
First SDI Lateral MWD Survey									
6,442.00	90.84	110.11	5,520.96	1,355.61	-71.74	1,903,524.29	136,765.25	36.2252947	-107.4815013
6,502.00	90.34	108.90	5,520.34	1,335.58	-15.19	1,903,503.54	136,821.55	36.2252397	-107.4813095
6,593.00	90.57	108.16	5,519.62	1,306.66	71.09	1,903,473.53	136,907.46	36.2251603	-107.4810170
6,684.00	90.81	107.64	5,518.52	1,278.69	157.68	1,903,444.46	136,993.69	36.2250834	-107.4807235
6,774.00	89.43	105.63	5,518.34	1,252.93	243.90	1,903,417.61	137,079.58	36.2250127	-107.4804312
6,865.00	91.04	106.97	5,517.96	1,227.39	331.24	1,903,390.96	137,166.59	36.2249425	-107.4801351
6,957.00	90.57	105.28	5,516.67	1,201.84	419.61	1,903,364.29	137,254.63	36.2248723	-107.4798355
7,048.00	92.61	105.41	5,514.14	1,177.77	507.33	1,903,339.11	137,342.04	36.2248062	-107.4795382
7,138.00	90.77	106.78	5,511.49	1,152.83	593.76	1,903,313.07	137,428.15	36.2247377	-107.4792452
7,229.00	90.91	105.78	5,510.16	1,127.33	681.10	1,903,286.46	137,515.17	36.2246676	-107.4789491
7,320.00	90.77	106.19	5,508.82	1,102.27	768.57	1,903,260.29	137,602.32	36.2245988	-107.4786525
7,411.00	89.96	104.92	5,508.24	1,077.87	856.23	1,903,234.77	137,689.67	36.2245318	-107.4783553
7,502.00	89.69	105.98	5,508.52	1,053.63	943.94	1,903,209.42	137,777.07	36.2244652	-107.4780580
7,593.00	90.81	107.48	5,508.12	1,027.43	1,031.08	1,903,182.12	137,863.88	36.2243932	-107.4777626
7,685.00	91.14	107.52	5,506.56	999.77	1,118.81	1,903,153.34	137,951.25	36.2243172	-107.4774652
7,776.00	90.40	107.61	5,505.34	972.31	1,205.56	1,903,124.78	138,037.65	36.2242418	-107.4771711

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #243H - Slot A1
Project:	T23N R6W (NM Central)	TVD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #243H	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
7,867.00	90.64	107.84	5,504.51	944.61	1,292.24	1,903,095.98	138,123.97	36.2241657	-107.4768773
7,958.00	90.57	107.04	5,503.55	917.34	1,379.05	1,903,067.61	138,210.43	36.2240907	-107.4765830
8,049.00	91.37	106.74	5,502.01	890.90	1,466.11	1,903,040.07	138,297.16	36.2240181	-107.4762878
8,140.00	90.97	106.76	5,500.15	864.68	1,553.23	1,903,012.74	138,383.94	36.2239461	-107.4759925
8,232.00	90.60	106.95	5,498.89	838.01	1,641.27	1,902,984.95	138,471.64	36.2238728	-107.4756940
8,323.00	90.74	105.67	5,497.83	812.45	1,728.60	1,902,958.29	138,558.64	36.2238026	-107.4753980
8,414.00	90.57	104.66	5,496.78	788.65	1,816.43	1,902,933.37	138,646.16	36.2237372	-107.4751003
8,505.00	90.92	104.40	5,495.60	765.82	1,904.51	1,902,909.42	138,733.95	36.2236744	-107.4748017
8,596.00	91.24	103.73	5,493.89	743.71	1,992.76	1,902,886.19	138,821.92	36.2236137	-107.4745025
8,688.00	91.04	104.55	5,492.06	721.24	2,081.96	1,902,862.59	138,910.83	36.2235520	-107.4742001
8,779.00	91.14	104.25	5,490.33	698.61	2,170.08	1,902,838.84	138,998.66	36.2234898	-107.4739014
8,870.00	91.01	103.93	5,488.62	676.46	2,258.33	1,902,815.57	139,086.63	36.2234289	-107.4736022
8,961.00	90.10	101.88	5,487.74	656.14	2,347.02	1,902,794.13	139,175.06	36.2233731	-107.4733016
9,052.00	90.90	101.52	5,486.94	637.69	2,436.13	1,902,774.54	139,263.92	36.2233224	-107.4729995
9,143.00	91.82	102.29	5,484.78	618.92	2,525.14	1,902,754.65	139,352.70	36.2232708	-107.4726977
9,234.00	91.61	102.20	5,482.06	599.63	2,614.03	1,902,734.23	139,441.34	36.2232178	-107.4723964
9,325.00	91.71	101.93	5,479.42	580.62	2,702.98	1,902,714.08	139,530.05	36.2231655	-107.4720949
9,416.00	91.14	103.14	5,477.16	560.88	2,791.78	1,902,693.21	139,618.60	36.2231113	-107.4717938
9,507.00	90.60	102.48	5,475.78	540.70	2,880.51	1,902,671.91	139,707.06	36.2230558	-107.4714931
9,598.00	90.74	102.01	5,474.71	521.40	2,969.43	1,902,651.49	139,795.74	36.2230028	-107.4711916
9,689.00	90.77	102.84	5,473.51	501.82	3,058.29	1,902,630.78	139,884.35	36.2229490	-107.4708904
9,776.00	90.50	104.48	5,472.55	481.28	3,142.82	1,902,609.16	139,968.62	36.2228925	-107.4706038
9,867.00	91.98	104.57	5,470.58	458.46	3,230.89	1,902,585.23	140,056.39	36.2228298	-107.4703053
9,958.00	91.61	104.41	5,467.73	435.71	3,318.95	1,902,561.35	140,144.16	36.2227673	-107.4700068
10,049.00	92.29	106.34	5,464.63	411.59	3,406.64	1,902,536.13	140,231.54	36.2227010	-107.4697095
10,140.00	92.05	105.58	5,461.19	386.59	3,494.07	1,902,510.01	140,318.65	36.2226323	-107.4694131
10,232.00	93.50	106.46	5,456.73	361.23	3,582.39	1,902,483.53	140,406.65	36.2225626	-107.4691137
10,323.00	91.10	102.82	5,453.08	338.26	3,670.34	1,902,459.44	140,494.30	36.2224995	-107.4688156
10,414.00	91.24	103.82	5,451.22	317.30	3,758.88	1,902,437.36	140,582.57	36.2224419	-107.4685155
10,505.00	91.38	104.50	5,449.14	295.04	3,847.09	1,902,413.99	140,670.49	36.2223807	-107.4682164
10,596.00	90.80	104.33	5,447.41	272.39	3,935.21	1,902,390.22	140,758.32	36.2223185	-107.4679177
10,687.00	90.03	103.80	5,446.75	250.28	4,023.48	1,902,366.98	140,846.31	36.2222577	-107.4676185
10,778.00	90.04	103.61	5,446.70	228.72	4,111.89	1,902,344.30	140,934.44	36.2221984	-107.4673188
10,870.00	90.97	103.81	5,445.89	206.92	4,201.26	1,902,321.36	141,023.54	36.2221385	-107.4670158
10,960.00	91.14	103.63	5,444.23	185.57	4,288.68	1,902,298.91	141,110.68	36.2220798	-107.4667195
11,051.00	90.57	103.88	5,442.87	163.94	4,377.06	1,902,276.15	141,198.78	36.2220204	-107.4664199
11,143.00	90.04	101.94	5,442.38	143.38	4,466.72	1,902,254.46	141,288.19	36.2219639	-107.4661160
11,234.00	90.64	101.53	5,441.84	124.88	4,555.82	1,902,234.82	141,377.04	36.2219130	-107.4658139
11,313.00	90.28	101.43	5,441.21	109.16	4,633.24	1,902,218.12	141,454.26	36.2218698	-107.4655515
RSI @ 11,313' MD - 36.2218698, -107.4655515									
11,325.00	90.22	101.41	5,441.16	106.78	4,645.00	1,902,215.60	141,465.99	36.2218632	-107.4655116
11,359.00	88.79	100.96	5,441.45	100.19	4,678.35	1,902,208.58	141,499.26	36.2218451	-107.4653986
Last SDI Lateral MWD Survey									
11,414.00	88.79	100.96	5,442.61	89.73	4,732.34	1,902,197.44	141,553.11	36.2218164	-107.4652156
Projection to TD									

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #243H - Slot A1
Project:	T23N R6W (NM Central)	TVD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Site:	Chaco 2306-16L	MD Reference:	GL 6861' & RKB 25' @ 6886.00usft (Aztec 1000)
Well:	NE Chaco Com #243H	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 (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Chaco 2306-16L #243H	0.00	0.00	5,390.76	1,451.68	-564.50	1,903,626.62	136,273.73	36.2255586	-107.4831718
- actual wellpath misses target center by 87.63usft at 5912.63usft MD (5399.00 TVD, 1536.47 N, -543.99 E)									
- Point									
Chaco 2306-16L #243H	0.00	0.00	5,420.76	1,439.11	-514.08	1,903,613.41	136,323.99	36.2255241	-107.4830008
- actual wellpath misses target center by 85.44usft at 5973.15usft MD (5427.73 TVD, 1521.58 N, -492.85 E)									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
450.00	449.99	0.08	-1.69	First SDI Surface MWD Survey
5,174.00	4,817.78	1,429.41	-902.94	Last SDI Surface MWD Survey
5,219.00	4,861.18	1,440.45	-898.44	First SDI Curve MWD Survey
6,277.00	5,517.96	1,419.11	-223.91	Last SDI Curve MWD Survey
6,325.00	5,520.57	1,400.41	-179.79	7" Casing @6325' MD
6,325.00	5,520.57	1,400.41	-179.79	36.2254178, -107.4818675
6,360.00	5,521.30	1,386.36	-147.74	First SDI Lateral MWD Survey
11,313.00	5,441.21	109.16	4,633.24	RSI @ 11,313' MD
11,313.00	5,441.21	109.16	4,633.24	36.2218698, -107.4655515
11,359.00	5,441.45	100.19	4,678.35	Last SDI Lateral MWD Survey
11,414.00	5,442.61	89.73	4,732.34	Projection to TD

Checked By: _____ Approved By: _____ Date: _____