



WPX Energy Rocky Mountain, LLC

Rio Arriba County, NM NAD27

Chaco 2306-08L

Chaco 2306-08L #200H

OH

Design: OH



Survey Report - Geographic

19 January, 2015

CONFIDENTIAL



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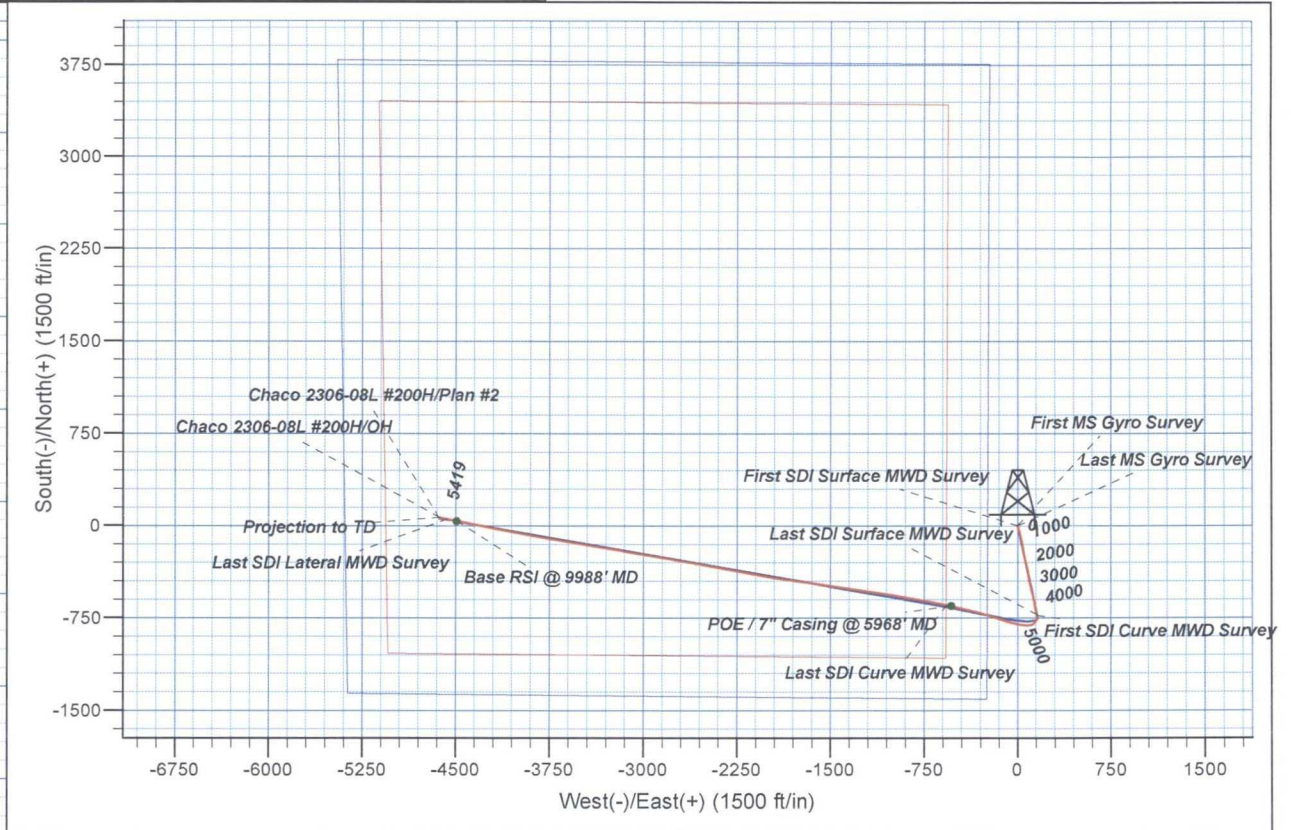
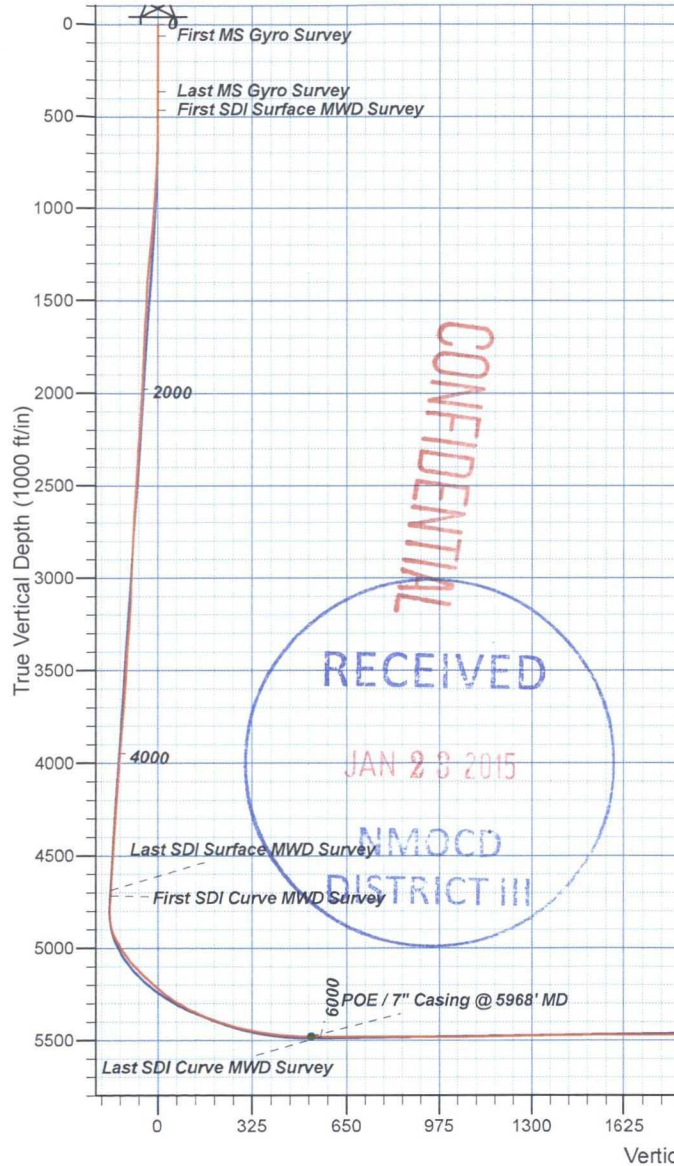
Company Name: WPX Energy Rocky Mountain, LLC
 Project: Rio Arriba County, NM NAD27
 Site: Chaco 2306-08L
 Well: Chaco 2306-08L #200H



Azimuths to True North
 Magnetic North: 9.38°
 Magnetic Field
 Strength: 50031.7nT
 Dip Angle: 63.01°
 Date: 1/2/2015
 Model: BGGM2014

WELL DETAILS: Chaco 2306-08L #200H

		GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)	6832.00
+N/-S	+E/-W	Northing	Easting
0.00	0.00	1907521.32	131366.44
		Latitude	Longitude
		36.2360830	-107.4999760



Projection to TD
 Chaco 2306-08L #200H/Plan #2
 Chaco 2306-08L #200H/OH
 Last SDI Lateral MWD Survey
 Base RSI @ 9988' MD

Design: OH (Chaco 2306-08L #200H/OH)
Created By: Janie Collins Date: 20:40, January 19 2015
PROJECT DETAILS: Rio Arriba County, NM NAD27
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 Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2306-08L #200H
Project:	Rio Arriba County, NM NAD27	TVD Reference:	GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
Site:	Chaco 2306-08L	MD Reference:	GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
Well:	Chaco 2306-08L #200H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project	Rio Arriba County, NM NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site	Chaco 2306-08L		
Site Position:		Northing:	1,907,521.32 usft
From:	Lat/Long	Easting:	131,366.45 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	36.2360830
		Longitude:	-107.4999760
		Grid Convergence:	-0.74 °

Well	Chaco 2306-08L #200H		
Well Position	+N/-S	0.00 ft	Northing: 1,907,521.32 usft
	+E/-W	0.00 ft	Easting: 131,366.45 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	36.2360830
		Longitude:	-107.4999760
		Ground Level:	6,832.00 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2014	1/2/2015	9.38
			Dip Angle (°) 63.01
			Field Strength (nT) 50,032

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°) 270.63

Survey Program	Date 1/19/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
64.00	364.00	Survey #1 - Gyro Survey (OH)	Gyro
465.00	4,756.00	Survey #2 - Surface MWD Survey (OH)	MWD SDI
4,788.00	6,279.00	Survey #3 - Curve MWD Survey (OH)	MWD SDI
6,340.00	10,126.00	Survey #4 - Lateral MWD Survey (OH)	MWD SDI
			Description
			MWD - Standard ver 1.0.1
			MWD - Standard ver 1.0.1
			MWD - Standard ver 1.0.1

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,907,521.32	131,366.45	36.2360830	-107.4999760
64.00	0.21	115.28	64.00	-0.05	0.11	1,907,521.27	131,366.55	36.2360828	-107.4999757
First MS Gyro Survey									
114.00	0.18	117.61	114.00	-0.13	0.26	1,907,521.19	131,366.70	36.2360826	-107.4999752
164.00	0.17	99.20	164.00	-0.17	0.40	1,907,521.14	131,366.84	36.2360825	-107.4999747
214.00	0.06	89.13	214.00	-0.19	0.50	1,907,521.13	131,366.94	36.2360825	-107.4999743
264.00	0.28	232.06	264.00	-0.26	0.43	1,907,521.05	131,366.87	36.2360823	-107.4999746
314.00	0.23	270.07	314.00	-0.34	0.23	1,907,520.98	131,366.68	36.2360821	-107.4999753

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2306-08L #200H
Project:	Rio Arriba County, NM NAD27	TVD Reference:	GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
Site:	Chaco 2306-08L	MD Reference:	GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
Well:	Chaco 2306-08L #200H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
364.00	0.20	233.75	364.00	-0.39	0.06	1,907,520.93	131,366.50	36.2360819	-107.4999758
Last MS Gyro Survey									
465.00	0.14	184.73	465.00	-0.61	-0.09	1,907,520.71	131,366.35	36.2360813	-107.4999763
First SDI Surface MWD Survey									
528.00	0.98	183.73	527.99	-1.23	-0.13	1,907,520.09	131,366.30	36.2360796	-107.4999765
591.00	2.66	169.41	590.96	-3.20	0.10	1,907,518.12	131,366.51	36.2360742	-107.4999757
653.00	3.69	165.87	652.86	-6.55	0.85	1,907,514.76	131,367.22	36.2360650	-107.4999731
716.00	4.81	163.84	715.69	-11.05	2.08	1,907,510.24	131,368.39	36.2360526	-107.4999690
779.00	6.20	165.24	778.40	-16.88	3.69	1,907,504.39	131,369.91	36.2360366	-107.4999635
842.00	7.96	166.71	840.92	-24.42	5.56	1,907,496.83	131,371.69	36.2360159	-107.4999572
905.00	9.55	164.13	903.18	-33.69	7.99	1,907,487.53	131,374.00	36.2359904	-107.4999490
968.00	10.48	163.51	965.22	-44.21	11.04	1,907,476.97	131,376.92	36.2359615	-107.4999386
1,030.00	10.31	165.67	1,026.20	-54.99	14.02	1,907,466.15	131,379.75	36.2359319	-107.4999285
1,093.00	10.84	167.95	1,088.13	-66.25	16.65	1,907,454.86	131,382.24	36.2359010	-107.4999196
1,156.00	11.26	166.09	1,149.96	-78.01	19.36	1,907,443.06	131,384.80	36.2358687	-107.4999104
1,217.00	11.05	166.39	1,209.81	-89.48	22.17	1,907,431.56	131,387.46	36.2358372	-107.4999009
1,279.00	11.50	163.06	1,270.62	-101.16	25.37	1,907,419.84	131,390.51	36.2358051	-107.4998900
1,340.00	11.65	161.56	1,330.37	-112.82	29.09	1,907,408.13	131,394.08	36.2357731	-107.4998774
1,401.00	11.18	165.39	1,390.17	-124.39	32.53	1,907,396.52	131,397.37	36.2357413	-107.4998658
1,463.00	10.86	169.42	1,451.03	-135.95	35.12	1,907,384.93	131,399.81	36.2357096	-107.4998570
1,524.00	11.21	171.37	1,510.90	-147.46	37.06	1,907,373.40	131,401.60	36.2356779	-107.4998504
1,585.00	11.10	169.39	1,570.75	-159.09	39.04	1,907,361.74	131,403.43	36.2356460	-107.4998437
1,647.00	10.68	169.67	1,631.63	-170.61	41.16	1,907,350.19	131,405.41	36.2356144	-107.4998365
1,708.00	9.01	170.13	1,691.73	-180.88	43.00	1,907,339.90	131,407.11	36.2355861	-107.4998303
1,769.00	9.03	165.70	1,751.98	-190.22	45.00	1,907,330.53	131,408.99	36.2355605	-107.4998235
1,831.00	8.37	171.09	1,813.26	-199.39	46.90	1,907,321.34	131,410.77	36.2355353	-107.4998170
1,892.00	7.76	170.25	1,873.66	-207.84	48.28	1,907,312.87	131,412.04	36.2355121	-107.4998123
1,953.00	8.48	169.42	1,934.05	-216.32	49.81	1,907,304.38	131,413.46	36.2354888	-107.4998072
2,015.00	9.01	171.36	1,995.33	-225.61	51.38	1,907,295.06	131,414.91	36.2354633	-107.4998019
2,076.00	9.35	170.22	2,055.55	-235.22	52.94	1,907,285.44	131,416.34	36.2354369	-107.4997966
2,137.00	9.68	168.38	2,115.71	-245.13	54.81	1,907,275.51	131,418.09	36.2354097	-107.4997902
2,199.00	9.42	168.58	2,176.85	-255.20	56.86	1,907,265.40	131,420.01	36.2353820	-107.4997833
2,260.00	9.58	162.41	2,237.01	-264.94	59.39	1,907,255.64	131,422.41	36.2353553	-107.4997747
2,321.00	9.25	163.14	2,297.19	-274.47	62.34	1,907,246.07	131,425.24	36.2353291	-107.4997647
2,382.00	8.92	165.69	2,357.43	-283.74	64.93	1,907,236.76	131,427.71	36.2353036	-107.4997559
2,444.00	9.06	168.28	2,418.66	-293.18	67.11	1,907,227.30	131,429.77	36.2352777	-107.4997485
2,505.00	9.65	165.58	2,478.85	-302.83	69.36	1,907,217.62	131,431.90	36.2352512	-107.4997409
2,567.00	9.75	164.75	2,539.97	-312.93	72.04	1,907,207.49	131,434.44	36.2352234	-107.4997318
2,628.00	9.77	169.47	2,600.08	-323.00	74.34	1,907,197.39	131,436.61	36.2351958	-107.4997240
2,689.00	10.46	171.83	2,660.14	-333.57	76.07	1,907,186.79	131,438.21	36.2351667	-107.4997181
2,750.00	10.86	172.64	2,720.08	-344.75	77.60	1,907,175.60	131,439.59	36.2351360	-107.4997130
2,812.00	11.21	170.73	2,780.94	-356.49	79.32	1,907,163.83	131,441.16	36.2351038	-107.4997071
2,873.00	11.43	170.42	2,840.75	-368.31	81.28	1,907,152.00	131,442.97	36.2350713	-107.4997005
2,934.00	10.95	171.10	2,900.59	-379.99	83.18	1,907,140.29	131,444.72	36.2350392	-107.4996940
2,996.00	10.15	174.28	2,961.54	-391.24	84.64	1,907,129.02	131,446.03	36.2350083	-107.4996891
3,059.00	10.45	171.01	3,023.53	-402.41	86.08	1,907,117.83	131,447.33	36.2349777	-107.4996842
3,121.00	10.88	173.36	3,084.46	-413.78	87.64	1,907,106.45	131,448.74	36.2349464	-107.4996789
3,184.00	11.19	170.16	3,146.29	-425.70	89.37	1,907,094.50	131,450.32	36.2349137	-107.4996731
3,247.00	10.88	169.50	3,208.13	-437.57	91.50	1,907,082.60	131,452.29	36.2348811	-107.4996658
3,310.00	10.61	165.72	3,270.02	-449.04	94.01	1,907,071.10	131,454.66	36.2348496	-107.4996573
3,373.00	10.19	164.41	3,331.99	-460.03	96.94	1,907,060.08	131,457.44	36.2348194	-107.4996474
3,436.00	9.71	166.36	3,394.04	-470.56	99.69	1,907,049.51	131,460.06	36.2347905	-107.4996381
3,499.00	9.25	168.63	3,456.18	-480.69	101.94	1,907,039.36	131,462.18	36.2347626	-107.4996304
3,562.00	8.70	169.55	3,518.41	-490.34	103.80	1,907,029.69	131,463.92	36.2347361	-107.4996241
3,624.00	8.88	166.27	3,579.68	-499.60	105.79	1,907,020.40	131,465.78	36.2347107	-107.4996174

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2306-08L #200H
Project:	Rio Arriba County, NM NAD27	TVD Reference:	GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
Site:	Chaco 2306-08L	MD Reference:	GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
Well:	Chaco 2306-08L #200H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,687.00	10.73	166.82	3,641.76	-510.03	108.28	1,907,009.93	131,468.14	36.2346820	-107.4996089
3,750.00	11.28	166.04	3,703.60	-521.72	111.10	1,906,998.21	131,470.81	36.2346499	-107.4995994
3,813.00	11.19	166.04	3,765.39	-533.63	114.07	1,906,986.26	131,473.62	36.2346172	-107.4995893
3,876.00	11.37	162.73	3,827.18	-545.50	117.38	1,906,974.36	131,476.78	36.2345846	-107.4995781
3,939.00	12.05	164.91	3,888.86	-557.78	120.94	1,906,962.03	131,480.18	36.2345509	-107.4995660
4,002.00	12.59	166.33	3,950.41	-570.80	124.27	1,906,948.97	131,483.35	36.2345151	-107.4995547
4,065.00	12.67	167.61	4,011.89	-584.22	127.38	1,906,935.51	131,486.28	36.2344783	-107.4995442
4,128.00	12.05	165.37	4,073.43	-597.33	130.52	1,906,922.06	131,489.25	36.2344423	-107.4995335
4,191.00	10.90	171.16	4,135.17	-609.58	133.10	1,906,910.38	131,491.67	36.2344086	-107.4995248
4,254.00	10.68	168.87	4,197.06	-621.19	135.14	1,906,898.44	131,493.56	36.2343767	-107.4995179
4,316.00	11.60	171.48	4,257.89	-632.99	137.17	1,906,886.61	131,495.44	36.2343443	-107.4995110
4,379.00	11.97	169.63	4,319.56	-645.68	139.29	1,906,873.89	131,497.39	36.2343094	-107.4995038
4,442.00	12.75	170.46	4,381.10	-658.97	141.62	1,906,860.58	131,499.55	36.2342729	-107.4994959
4,505.00	12.35	169.49	4,442.60	-672.45	144.00	1,906,847.07	131,501.76	36.2342359	-107.4994878
4,568.00	12.24	167.84	4,504.15	-685.60	146.63	1,906,833.89	131,504.22	36.2341998	-107.4994789
4,631.00	11.75	171.02	4,565.78	-698.46	149.04	1,906,820.99	131,506.47	36.2341645	-107.4994707
4,693.00	11.73	168.00	4,626.48	-710.86	151.34	1,906,808.56	131,508.60	36.2341304	-107.4994630
4,756.00	10.33	168.91	4,688.31	-722.67	153.76	1,906,796.73	131,510.87	36.2340980	-107.4994548
Last SDI Surface MWD Survey									
4,788.00	10.15	163.10	4,719.80	-728.18	155.13	1,906,791.20	131,512.17	36.2340828	-107.4994501
First SDI Curve MWD Survey									
4,818.00	10.29	165.30	4,749.33	-733.31	156.58	1,906,786.06	131,513.55	36.2340688	-107.4994452
4,849.00	11.38	171.13	4,779.78	-739.01	157.75	1,906,780.34	131,514.65	36.2340531	-107.4994412
4,881.00	14.33	181.47	4,810.98	-746.09	158.14	1,906,773.26	131,514.94	36.2340336	-107.4994399
4,912.00	16.08	190.18	4,840.89	-754.15	157.28	1,906,765.21	131,513.98	36.2340115	-107.4994428
4,944.00	18.73	201.86	4,871.43	-763.28	154.58	1,906,756.11	131,511.17	36.2339864	-107.4994520
4,975.00	21.41	208.78	4,900.55	-772.86	150.00	1,906,746.59	131,506.47	36.2339601	-107.4994675
5,007.00	23.48	218.12	4,930.14	-783.00	143.25	1,906,736.53	131,499.59	36.2339322	-107.4994904
5,038.00	23.72	227.13	4,958.55	-792.11	134.87	1,906,727.54	131,491.08	36.2339072	-107.4995188
5,069.00	23.74	239.30	4,986.95	-799.54	124.93	1,906,720.24	131,481.05	36.2338868	-107.4995525
5,101.00	24.10	249.72	5,016.21	-805.10	113.25	1,906,714.83	131,469.31	36.2338716	-107.4995921
5,132.00	25.32	258.99	5,044.39	-808.56	100.80	1,906,711.53	131,456.81	36.2338621	-107.4996343
5,164.00	27.61	264.85	5,073.04	-810.53	86.70	1,906,709.74	131,442.68	36.2338566	-107.4996821
5,195.00	30.86	272.09	5,100.09	-810.88	71.59	1,906,709.58	131,427.57	36.2338557	-107.4997333
5,227.00	32.23	274.74	5,127.36	-809.88	54.88	1,906,710.80	131,410.88	36.2338584	-107.4997900
5,258.00	34.24	278.64	5,153.30	-807.89	38.02	1,906,713.01	131,394.04	36.2338639	-107.4998472
5,289.00	35.11	280.96	5,178.79	-804.88	20.64	1,906,716.24	131,376.71	36.2338722	-107.4999061
5,321.00	36.23	283.16	5,204.79	-800.98	2.40	1,906,720.38	131,358.51	36.2338829	-107.4999679
5,352.00	37.59	282.61	5,229.57	-796.83	-15.75	1,906,724.76	131,340.42	36.2338943	-107.5000294
5,384.00	41.06	283.34	5,254.32	-792.27	-35.51	1,906,729.57	131,320.72	36.2339068	-107.5000964
5,415.00	43.36	284.43	5,277.28	-787.27	-55.72	1,906,734.84	131,300.57	36.2339205	-107.5001650
5,447.00	47.22	287.20	5,299.80	-781.06	-77.59	1,906,741.33	131,278.79	36.2339376	-107.5002391
5,478.00	49.63	287.55	5,320.37	-774.13	-99.72	1,906,748.54	131,256.75	36.2339566	-107.5003141
5,510.00	53.38	288.35	5,340.28	-766.41	-123.54	1,906,756.57	131,233.03	36.2339778	-107.5003949
5,541.00	55.76	288.16	5,358.25	-758.50	-147.53	1,906,764.79	131,209.15	36.2339996	-107.5004762
5,573.00	59.90	288.48	5,375.28	-749.98	-173.24	1,906,773.63	131,183.55	36.2340229	-107.5005634
5,604.00	61.76	287.93	5,390.39	-741.53	-198.95	1,906,782.42	131,157.95	36.2340462	-107.5006505
5,636.00	62.78	288.44	5,405.28	-732.69	-225.86	1,906,791.61	131,131.16	36.2340705	-107.5007418
5,667.00	63.79	286.81	5,419.22	-724.31	-252.25	1,906,800.33	131,104.88	36.2340935	-107.5008312
5,699.00	68.32	286.24	5,432.20	-715.99	-280.28	1,906,809.00	131,076.96	36.2341163	-107.5009263
5,730.00	72.21	285.20	5,442.67	-708.09	-308.36	1,906,817.27	131,048.98	36.2341380	-107.5010215
5,761.00	74.57	285.18	5,451.53	-700.31	-337.03	1,906,825.42	131,020.41	36.2341594	-107.5011187
5,793.00	74.88	284.32	5,459.96	-692.45	-366.88	1,906,833.66	130,990.67	36.2341810	-107.5012199
5,824.00	77.56	284.83	5,467.34	-684.87	-396.02	1,906,841.61	130,961.63	36.2342018	-107.5013187
5,856.00	81.19	284.19	5,473.24	-676.99	-426.46	1,906,849.88	130,931.29	36.2342234	-107.5014219

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2306-08L #200H
Project:	Rio Arriba County, NM NAD27	TVD Reference:	GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
Site:	Chaco 2306-08L	MD Reference:	GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
Well:	Chaco 2306-08L #200H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,888.00	86.18	283.59	5,476.76	-669.36	-457.32	1,906,857.91	130,900.53	36.2342444	-107.5015265
5,918.00	87.76	283.43	5,478.35	-662.36	-486.45	1,906,865.29	130,871.49	36.2342636	-107.5016253
5,968.00	88.64	282.37	5,479.92	-651.21	-535.17	1,906,877.07	130,822.93	36.2342942	-107.5017904
POE / 7" Casing @ 5968' MD									
6,003.00	89.26	281.63	5,480.56	-643.93	-569.39	1,906,884.79	130,788.79	36.2343142	-107.5019065
Last SDI Curve MWD Survey									
6,340.00	90.24	279.28	5,482.03	-582.78	-900.77	1,906,950.20	130,458.24	36.2344822	-107.5030299
6,402.00	90.03	279.21	5,481.88	-572.82	-961.96	1,906,960.95	130,397.18	36.2345095	-107.5032374
6,463.00	90.37	279.53	5,481.67	-562.89	-1,022.15	1,906,971.66	130,337.12	36.2345368	-107.5034415
6,524.00	91.68	279.47	5,480.58	-552.83	-1,082.30	1,906,982.50	130,277.11	36.2345644	-107.5036454
6,586.00	91.78	278.84	5,478.71	-542.97	-1,143.48	1,906,993.15	130,216.06	36.2345915	-107.5038528
6,647.00	91.11	279.07	5,477.17	-533.47	-1,203.72	1,907,003.42	130,155.95	36.2346176	-107.5040570
6,708.00	91.58	278.61	5,475.74	-524.10	-1,263.98	1,907,013.56	130,095.81	36.2346433	-107.5042613
6,771.00	91.58	278.25	5,474.00	-514.87	-1,326.27	1,907,023.60	130,033.64	36.2346687	-107.5044725
6,834.00	90.57	278.29	5,472.82	-505.81	-1,388.61	1,907,033.46	129,971.43	36.2346935	-107.5046839
6,897.00	90.13	278.51	5,472.43	-496.61	-1,450.93	1,907,043.47	129,909.23	36.2347188	-107.5048952
6,960.00	90.60	278.16	5,472.03	-487.47	-1,513.26	1,907,053.40	129,847.02	36.2347439	-107.5051065
7,023.00	90.37	278.29	5,471.50	-478.46	-1,575.61	1,907,063.22	129,784.80	36.2347686	-107.5053179
7,086.00	90.04	278.77	5,471.27	-469.12	-1,637.92	1,907,073.37	129,722.62	36.2347943	-107.5055291
7,149.00	89.96	278.24	5,471.27	-459.80	-1,700.22	1,907,083.49	129,660.44	36.2348199	-107.5057404
7,212.00	90.20	278.05	5,471.19	-450.87	-1,762.59	1,907,093.22	129,598.19	36.2348444	-107.5059518
7,274.00	90.24	278.20	5,470.95	-442.11	-1,823.96	1,907,102.77	129,536.93	36.2348684	-107.5061599
7,337.00	90.40	278.23	5,470.60	-433.11	-1,886.32	1,907,112.58	129,474.70	36.2348932	-107.5063713
7,400.00	90.64	279.91	5,470.02	-423.18	-1,948.52	1,907,123.31	129,412.63	36.2349204	-107.5065822
7,463.00	90.64	280.34	5,469.32	-412.10	-2,010.54	1,907,135.18	129,350.76	36.2349508	-107.5067924
7,526.00	90.94	280.37	5,468.45	-400.78	-2,072.51	1,907,147.30	129,288.95	36.2349819	-107.5070025
7,589.00	91.11	279.82	5,467.32	-389.74	-2,134.52	1,907,159.14	129,227.08	36.2350122	-107.5072128
7,651.00	90.67	279.56	5,466.36	-379.31	-2,195.63	1,907,170.36	129,166.11	36.2350409	-107.5074200
7,714.00	90.40	280.46	5,465.77	-368.36	-2,257.67	1,907,182.11	129,104.22	36.2350709	-107.5076303
7,777.00	90.75	281.32	5,465.14	-356.46	-2,319.53	1,907,194.81	129,042.52	36.2351036	-107.5078400
7,840.00	90.77	280.98	5,464.31	-344.27	-2,381.33	1,907,207.79	128,980.87	36.2351371	-107.5080496
7,903.00	91.14	281.31	5,463.26	-332.10	-2,443.14	1,907,220.76	128,919.23	36.2351705	-107.5082591
7,966.00	90.77	281.46	5,462.21	-319.66	-2,504.89	1,907,233.99	128,857.65	36.2352046	-107.5084685
8,029.00	90.57	280.35	5,461.47	-307.75	-2,566.75	1,907,246.70	128,795.95	36.2352374	-107.5086782
8,092.00	90.30	279.80	5,460.99	-296.73	-2,628.77	1,907,258.52	128,734.07	36.2352676	-107.5088885
8,154.00	90.54	279.66	5,460.54	-286.25	-2,689.88	1,907,269.79	128,673.10	36.2352964	-107.5090957
8,217.00	90.64	279.48	5,459.89	-275.77	-2,752.00	1,907,281.06	128,611.12	36.2353251	-107.5093063
8,280.00	90.50	278.80	5,459.26	-265.77	-2,814.20	1,907,291.87	128,549.06	36.2353526	-107.5095171
8,343.00	90.61	278.97	5,458.65	-256.04	-2,876.44	1,907,302.40	128,486.95	36.2353793	-107.5097282
8,406.00	90.87	279.31	5,457.84	-246.03	-2,938.63	1,907,313.21	128,424.89	36.2354068	-107.5099390
8,469.00	90.75	279.82	5,456.95	-235.56	-3,000.75	1,907,324.48	128,362.91	36.2354355	-107.5101496
8,532.00	90.94	280.71	5,456.02	-224.34	-3,062.73	1,907,336.50	128,301.08	36.2354663	-107.5103598
8,594.00	91.31	280.16	5,454.80	-213.11	-3,123.70	1,907,348.52	128,240.27	36.2354972	-107.5105665
8,657.00	92.02	280.02	5,452.97	-202.08	-3,185.69	1,907,360.35	128,178.42	36.2355274	-107.5107767
8,720.00	92.12	279.61	5,450.69	-191.35	-3,247.73	1,907,371.88	128,116.52	36.2355569	-107.5109870
8,783.00	90.57	278.97	5,449.21	-181.18	-3,309.89	1,907,382.85	128,054.50	36.2355848	-107.5111977
8,846.00	90.57	279.31	5,448.59	-171.17	-3,372.08	1,907,393.65	127,992.44	36.2356123	-107.5114086
8,909.00	90.91	279.60	5,447.77	-160.82	-3,434.22	1,907,404.80	127,930.44	36.2356407	-107.5116193
8,972.00	90.94	279.70	5,446.76	-150.26	-3,496.32	1,907,416.16	127,868.48	36.2356697	-107.5118298
9,035.00	90.92	279.91	5,445.73	-139.54	-3,558.39	1,907,427.69	127,806.55	36.2356991	-107.5120403
9,097.00	90.98	279.72	5,444.71	-128.97	-3,619.48	1,907,439.04	127,745.61	36.2357281	-107.5122474
9,160.00	91.54	279.50	5,443.32	-118.45	-3,681.58	1,907,450.36	127,683.65	36.2357570	-107.5124579
9,223.00	92.55	279.71	5,441.07	-107.95	-3,743.66	1,907,461.66	127,621.72	36.2357858	-107.5126684
9,286.00	91.75	279.71	5,438.71	-97.33	-3,805.71	1,907,473.08	127,559.81	36.2358149	-107.5128788
9,349.00	90.20	280.23	5,437.64	-86.43	-3,867.75	1,907,484.79	127,497.91	36.2358449	-107.5130891

Company: WPX Energy Rocky Mountain, LLC
 Project: Rio Arriba County, NM NAD27
 Site: Chaco 2306-08L
 Well: Chaco 2306-08L #200H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well Chaco 2306-08L #200H
 TVD Reference: GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
 MD Reference: GL 6832' & RKB 14' @ 6846.00ft (Aztec 730)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,412.00	90.81	281.14	5,437.08	-74.75	-3,929.65	1,907,497.26	127,436.17	36.2358769	-107.5132990
9,475.00	91.07	280.75	5,436.05	-62.79	-3,991.50	1,907,510.02	127,374.48	36.2359098	-107.5135087
9,538.00	90.64	281.25	5,435.11	-50.77	-4,053.33	1,907,522.84	127,312.80	36.2359428	-107.5137183
9,600.00	91.35	281.69	5,434.03	-38.44	-4,114.08	1,907,535.95	127,252.22	36.2359766	-107.5139243
9,663.00	91.85	281.89	5,432.27	-25.57	-4,175.73	1,907,549.61	127,190.74	36.2360119	-107.5141333
9,726.00	92.28	281.53	5,430.00	-12.79	-4,237.38	1,907,563.18	127,129.26	36.2360470	-107.5143424
9,789.00	90.87	281.32	5,428.27	-0.32	-4,299.11	1,907,576.45	127,067.70	36.2360812	-107.5145516
9,852.00	91.08	281.49	5,427.20	12.14	-4,360.85	1,907,589.70	127,006.12	36.2361154	-107.5147610
9,914.00	90.57	280.99	5,426.31	24.22	-4,421.66	1,907,602.57	126,945.48	36.2361486	-107.5149671
9,977.00	91.84	281.33	5,424.98	36.41	-4,483.45	1,907,615.55	126,883.85	36.2361820	-107.5151767
9,988.00	91.97	281.39	5,424.62	38.58	-4,494.23	1,907,617.86	126,873.10	36.2361880	-107.5152132
Base RSI @ 9988' MD									
10,040.00	92.56	281.65	5,422.56	48.95	-4,545.14	1,907,628.89	126,822.32	36.2362164	-107.5153858
10,062.00	92.45	281.51	5,421.60	53.36	-4,566.67	1,907,633.58	126,800.85	36.2362286	-107.5154588
Last SDI Lateral MWD Survey									
10,126.00	92.45	281.51	5,418.87	66.12	-4,629.33	1,907,647.14	126,738.36	36.2362636	-107.5156712
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
64.00	64.00	-0.05	0.11	First MS Gyro Survey
364.00	364.00	-0.39	0.06	Last MS Gyro Survey
465.00	465.00	-0.61	-0.09	First SDI Surface MWD Survey
4,756.00	4,688.31	-722.67	153.76	Last SDI Surface MWD Survey
4,788.00	4,719.80	-728.18	155.13	First SDI Curve MWD Survey
5,968.00	5,479.92	-651.21	-535.17	POE / 7" Casing @ 5968' MD
6,003.00	5,480.56	-643.93	-569.39	Last SDI Curve MWD Survey
9,988.00	5,424.62	38.58	-4,494.23	Base RSI @ 9988' MD
10,062.00	5,421.60	53.36	-4,566.67	Last SDI Lateral MWD Survey
10,126.00	5,418.87	66.12	-4,629.33	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

EXHIBIT C
Chaco 2408-25M #237H NSL Application

Skylar Fast, RL

Land Negotiator – San Juan Basin

Encana Services Company Ltd.

370 17th Street, Suite 1700

Denver, Colorado 80202