

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 30-045-35605	*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 315059	*Property Name MC 5 COM	*Well Number 112H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 7020'

¹⁰ Surface Location

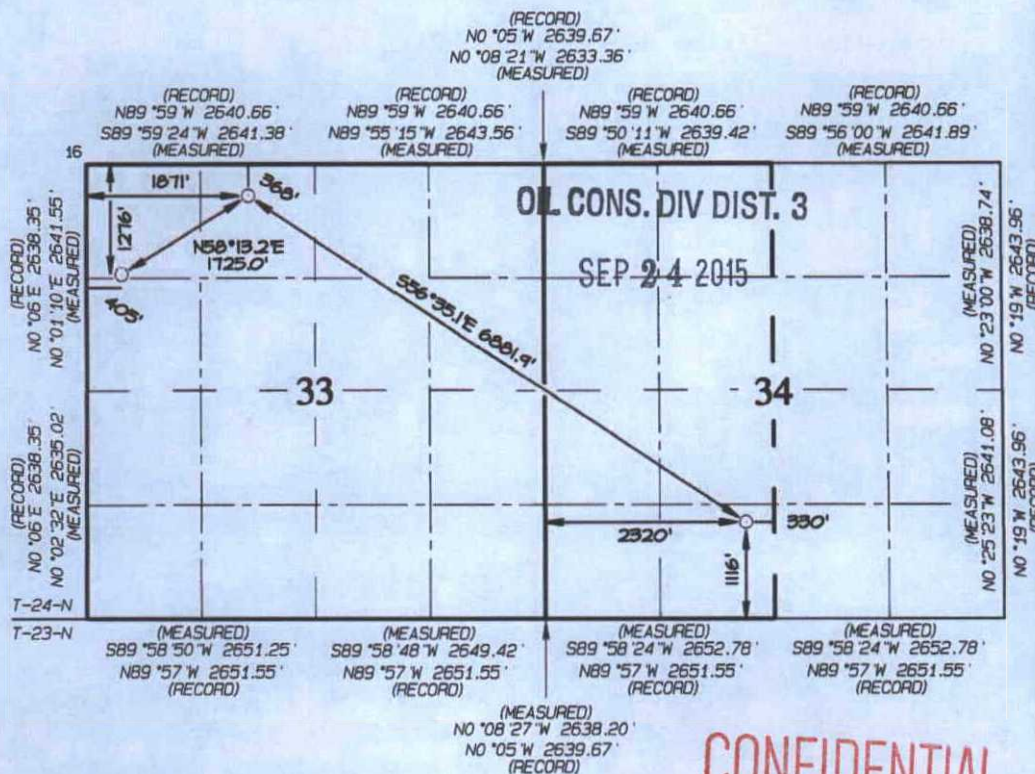
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	33	24N	8W		1276	NORTH	405	WEST	SAN JUAN

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
N	34	24N	8W		1116	SOUTH	2320	WEST	SAN JUAN

¹² Dedicated Acres 960.0	Entire Section 33 W/2 - Section 34	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-732978
--	---------------------------------------	-------------------------------	----------------------------------	---------------------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE
BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless 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.

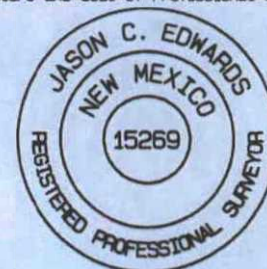
Signature: LACEY GRANILLO
Date: 9/22/15
Printed Name: lacey.granillo@wpenergy.com
E-mail Address:

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: AUGUST 25, 2015
Survey Date: DECEMBER 12, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

CONFIDENTIAL

SURFACE LOCATION
1276' FNL 405' FWL
SECTION 33, T24N, R8W
LAT: 36.274567°N
LONG: 107.694209°W
DATUM: NAD1927

LAT: 36.274579°N
LONG: 107.694821°W
DATUM: NAD1983

POINT-OF-ENTRY
368' FNL 1871' FWL
SECTION 33, T24N, R8W
LAT: 36.277057°N
LONG: 107.689230°W
DATUM: NAD1927

LAT: 36.277069°N
LONG: 107.689841°W
DATUM: NAD1983

RSI TOOL
1127' FSL 2302' FWL
SECTION 34, T24N, R8W
LAT: 36.266649°N
LONG: 107.669825°W
DATUM: NAD1927

LAT: 36.266662°N
LONG: 107.670436°W
DATUM: NAD1983

END-OF-LATERAL
1116' FSL 2320' FWL
SECTION 34, T24N, R8W
LAT: 36.266620°N
LONG: 107.669763°W
DATUM: NAD1927

LAT: 36.266633°N
LONG: 107.670374°W
DATUM: NAD1983

PV

PV



WPX Energy

T24N R8W

Chaco 2408-33D

MC 5 COM #112H - Slot A2

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

14 August, 2015

CONFIDENTIAL



www.scientificdrilling.com



TABLE OF CONTENTS

1. Directional Plot and Surveys
2. Daily Drilling Reports
3. BHA Summary Reports and Slide Sheets
4. Graphical Job History
5. Support Staff

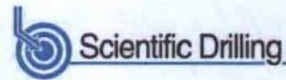


OIL CONS. DIV DIST. 3

SEP 24 2015



Company Name: WPX Energy
Project: T24N R8W
Site: Chaco 2408-33D
Well: MC 5 COM #112H



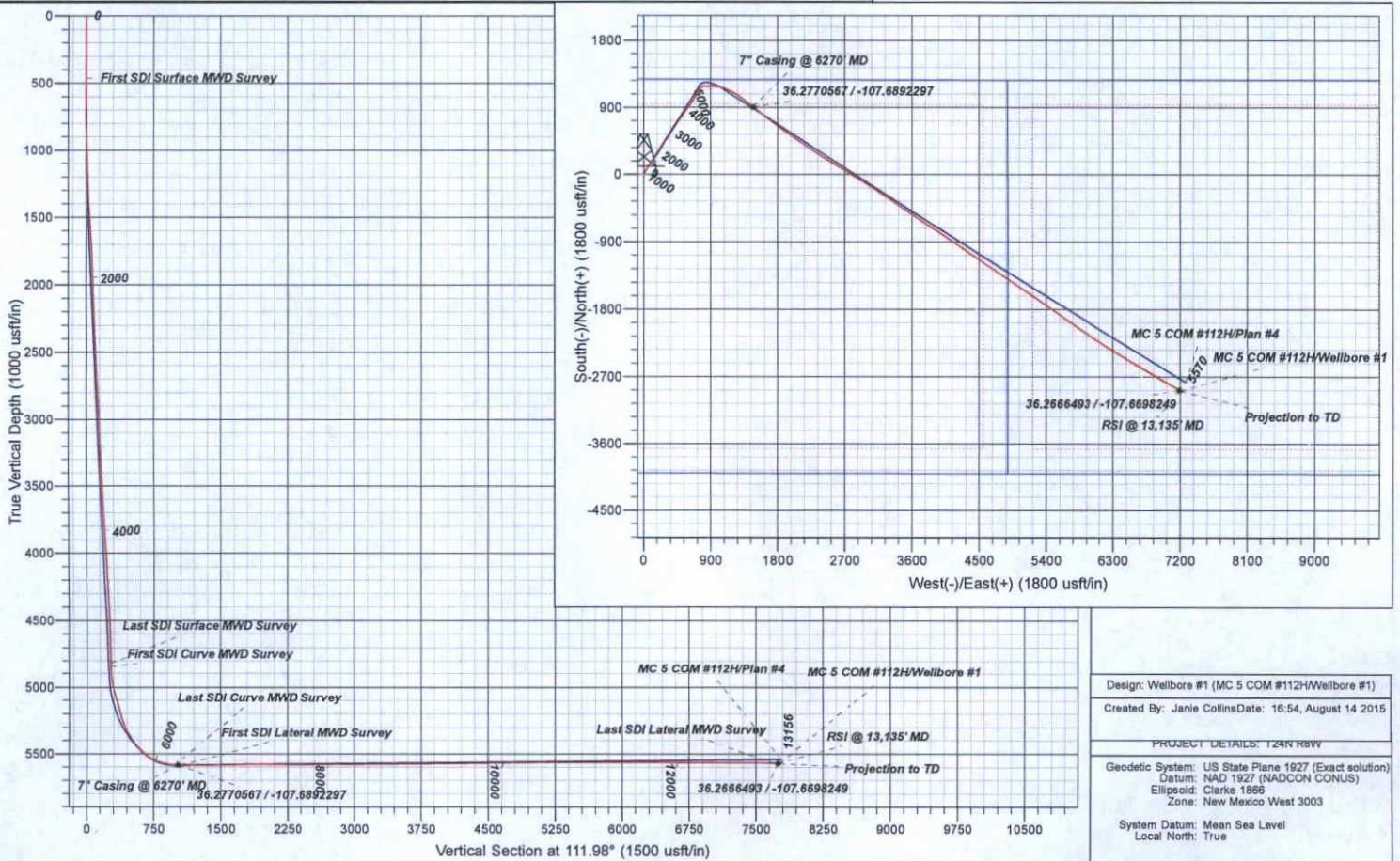
Azimuths to True North
Magnetic North: 9.32°

Magnetic Field
Strength: 50078.8nT
Dip Angle: 62.98°
Date: 6/11/2015
Model: IGRF2010

WELL DETAILS: MC 5 COM #112H

+N/-S	+E/-W	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)	7020.00
0.00	0.00	Northing	Easting
		1919215.20	541008.80
		Latitude	Longitude
		36.2745700	-107.6942100

A2

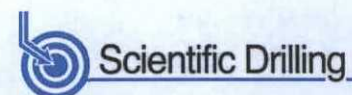


Design: Wellbore #1 (MC 5 COM #112H/Wellbore #1)
Created By: Janie Collins Date: 16.54, August 14 2015
PROJECT DETAILS: T24N R8W
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level
Local North: True

CONFIDENTIAL



Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #112H - Slot A2
Project:	T24N R8W	TVD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #112H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Project	T24N R8W	OIL CONS. DIV DIST. 3	
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)	SEP 24 2015	
Map Zone:	New Mexico West 3003		

Site		Chaco 2408-33D			
Site Position:		Northing:	1,919,215.20 usft	Latitude:	36.2745700
From:	Lat/Long	Easting:	541,008.80 usft	Longitude:	-107.6942100
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.08 °

Well	MC 5 COM #112H - Slot A2					
Well Position	+N/-S	0.00 usft	Northing:	1,919,215.20 usft	Latitude:	36.2745700
	+E/-W	0.00 usft	Easting:	541,008.80 usft	Longitude:	-107.6942100
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	7,020.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/11/2015	9.32	62.98	50,079

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	111.98	

Survey Program		Date	8/14/2015	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
14.00	350.00	Survey #1 - Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
464.00	5,043.00	Survey #2 - Surface MWD (Wellbore #1)	SDI MWD	SDI MWD - Standard ver 1.0.1
5,075.00	6,222.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1
6,296.00	13,156.00	Survey #4 - Production MWD Survey (Wel	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	1,919,215.20	541,008.80	36.2745700	-107.6942100
14.00	0.00	0.00	14.00	0.00	0.00	1,919,215.20	541,008.80	36.2745700	-107.6942100
64.00	0.40	52.29	64.00	0.11	0.14	1,919,215.31	541,008.94	36.2745703	-107.6942096
114.00	0.43	48.48	114.00	0.34	0.42	1,919,215.54	541,009.22	36.2745709	-107.6942086
164.00	0.52	29.02	164.00	0.66	0.67	1,919,215.86	541,009.47	36.2745718	-107.6942078
214.00	0.58	19.70	213.99	1.10	0.86	1,919,216.30	541,009.66	36.2745730	-107.6942071
264.00	0.79	11.93	263.99	1.67	1.02	1,919,216.88	541,009.82	36.2745746	-107.6942066
314.00	0.71	34.68	313.99	2.26	1.27	1,919,217.47	541,010.07	36.2745762	-107.6942057
350.00	0.48	55.56	349.98	2.53	1.52	1,919,217.74	541,010.32	36.2745769	-107.6942049

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #112H - Slot A2
Project:	T24N R8W	TVD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #112H	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	
464.00	0.51	79.90	463.98	2.89	2.41	1,919,218.10	541,011.21	36.2745779	-107.6942019	
First SDI Surface MWD Survey										
527.00	0.58	68.30	526.98	3.06	2.98	1,919,218.27	541,011.78	36.2745784	-107.6941999	
591.00	0.64	71.36	590.97	3.29	3.62	1,919,218.50	541,012.42	36.2745790	-107.6941978	
654.00	1.43	30.54	653.96	4.08	4.36	1,919,219.29	541,013.15	36.2745812	-107.6941953	
717.00	3.40	28.79	716.90	6.40	5.66	1,919,221.61	541,014.45	36.2745875	-107.6941909	
781.00	5.87	28.09	780.69	10.95	8.11	1,919,226.16	541,016.90	36.2746001	-107.6941825	
845.00	7.43	26.18	844.26	17.55	11.48	1,919,232.77	541,020.25	36.2746182	-107.6941711	
908.00	9.28	29.24	906.59	25.64	15.76	1,919,240.86	541,024.52	36.2746404	-107.6941566	
971.00	10.70	31.49	968.63	35.06	21.29	1,919,250.29	541,030.04	36.2746663	-107.6941378	
1,035.00	12.65	30.52	1,031.30	46.16	27.96	1,919,261.41	541,036.69	36.2746968	-107.6941152	
1,098.00	14.69	31.05	1,092.52	58.95	35.58	1,919,274.20	541,044.30	36.2747319	-107.6940893	
1,158.00	15.83	32.59	1,150.40	72.36	43.91	1,919,287.63	541,052.61	36.2747688	-107.6940611	
1,219.00	16.50	32.41	1,208.99	86.69	53.04	1,919,301.97	541,061.71	36.2748081	-107.6940301	
1,280.00	17.38	33.07	1,267.34	101.64	62.65	1,919,316.93	541,071.31	36.2748492	-107.6939975	
1,341.00	18.21	33.10	1,325.42	117.25	72.83	1,919,332.56	541,081.46	36.2748921	-107.6939630	
1,402.00	18.84	33.85	1,383.26	133.42	83.52	1,919,348.74	541,092.13	36.2749365	-107.6939267	
1,463.00	19.97	35.19	1,440.79	150.11	95.01	1,919,365.45	541,103.59	36.2749824	-107.6938877	
1,524.00	20.31	35.94	1,498.06	167.20	107.23	1,919,382.55	541,115.79	36.2750293	-107.6938463	
1,584.00	20.86	37.31	1,554.23	184.12	119.81	1,919,399.50	541,128.35	36.2750758	-107.6938036	
1,646.00	21.27	38.05	1,612.09	201.76	133.43	1,919,417.15	541,141.95	36.2751242	-107.6937574	
1,707.00	21.69	38.11	1,668.85	219.34	147.21	1,919,434.76	541,155.70	36.2751725	-107.6937106	
1,768.00	20.95	35.40	1,725.68	237.10	160.49	1,919,452.53	541,168.95	36.2752213	-107.6936656	
1,829.00	20.33	33.87	1,782.76	254.79	172.71	1,919,470.24	541,181.14	36.2752699	-107.6936241	
1,888.00	19.11	33.15	1,838.30	271.39	183.70	1,919,486.85	541,192.11	36.2753155	-107.6935868	
1,949.00	17.86	32.42	1,896.16	287.64	194.18	1,919,503.12	541,202.57	36.2753602	-107.6935513	
2,010.00	18.62	30.88	1,954.09	303.90	204.19	1,919,519.39	541,212.56	36.2754048	-107.6935173	
2,071.00	18.99	29.79	2,011.83	320.87	214.12	1,919,536.38	541,222.46	36.2754514	-107.6934836	
2,131.00	19.25	29.03	2,068.52	337.99	223.77	1,919,553.51	541,232.09	36.2754985	-107.6934509	
2,192.00	18.71	29.80	2,126.21	355.27	233.51	1,919,570.81	541,241.80	36.2755459	-107.6934178	
2,252.00	18.10	29.23	2,183.14	371.76	242.85	1,919,587.31	541,251.11	36.2755912	-107.6933862	
2,312.00	18.00	29.98	2,240.19	387.92	252.03	1,919,603.48	541,260.27	36.2756356	-107.6933550	
2,404.00	18.16	33.33	2,327.65	412.21	267.01	1,919,627.80	541,275.22	36.2757024	-107.6933042	
2,495.00	19.14	35.46	2,413.87	436.21	283.46	1,919,651.82	541,291.63	36.2757683	-107.6932484	
2,555.00	19.26	35.85	2,470.53	452.24	294.96	1,919,667.87	541,303.11	36.2758123	-107.6932094	
2,616.00	19.19	35.05	2,528.13	468.61	306.61	1,919,684.25	541,314.74	36.2758573	-107.6931698	
2,677.00	19.11	34.24	2,585.75	485.07	317.98	1,919,700.73	541,326.09	36.2759025	-107.6931313	
2,738.00	19.20	34.72	2,643.38	501.57	329.32	1,919,717.24	541,337.40	36.2759478	-107.6930928	
2,798.00	19.44	33.95	2,700.00	517.96	340.51	1,919,733.65	541,348.57	36.2759929	-107.6930548	
2,859.00	19.54	33.38	2,757.50	534.90	351.79	1,919,750.61	541,359.83	36.2760394	-107.6930166	
2,922.00	19.98	31.99	2,816.79	552.83	363.29	1,919,768.55	541,371.30	36.2760886	-107.6929775	
2,986.00	20.63	31.82	2,876.81	571.68	375.03	1,919,787.42	541,383.01	36.2761404	-107.6929377	
3,049.00	21.29	31.25	2,935.65	590.89	386.81	1,919,806.65	541,394.77	36.2761932	-107.6928977	
3,112.00	21.10	30.52	2,994.38	610.43	398.51	1,919,826.21	541,406.43	36.2762469	-107.6928581	
3,175.00	20.12	32.82	3,053.35	629.31	410.14	1,919,845.10	541,418.04	36.2762988	-107.6928186	
3,239.00	19.43	34.28	3,113.58	647.36	422.10	1,919,863.17	541,429.97	36.2763483	-107.6927780	
3,302.00	19.41	32.93	3,172.99	664.80	433.69	1,919,880.63	541,441.54	36.2763963	-107.6927387	
3,365.00	18.75	31.13	3,232.53	682.26	444.62	1,919,898.10	541,452.44	36.2764442	-107.6927016	
3,429.00	18.57	33.80	3,293.17	699.53	455.61	1,919,915.39	541,463.40	36.2764917	-107.6926644	
3,492.00	18.67	36.49	3,352.87	715.97	467.18	1,919,931.85	541,474.96	36.2765368	-107.6926251	
3,555.00	19.23	35.88	3,412.46	732.49	479.26	1,919,948.38	541,487.01	36.2765822	-107.6925841	
3,618.00	19.30	35.31	3,471.93	749.39	491.36	1,919,965.30	541,499.08	36.2766286	-107.6925431	
3,682.00	19.43	34.63	3,532.31	766.78	503.52	1,919,982.70	541,511.22	36.2766764	-107.6925018	
3,746.00	19.32	33.80	3,592.69	784.33	515.46	1,920,000.28	541,523.14	36.2767246	-107.6924613	
3,809.00	19.25	32.92	3,652.15	801.71	526.90	1,920,017.67	541,534.55	36.2767724	-107.6924225	

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #112H - Slot A2
Project:	T24N R8W	TVD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #112H	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
3,872.00	19.04	31.86	3,711.67	819.16	537.97	1,920,035.13	541,545.59	36.2768203	-107.6923849
3,936.00	19.42	35.16	3,772.10	836.72	549.61	1,920,052.72	541,557.21	36.2768685	-107.6923454
3,998.00	19.78	38.57	3,830.51	853.35	562.08	1,920,069.36	541,569.66	36.2769142	-107.6923031
4,061.00	20.06	38.14	3,889.74	870.19	575.40	1,920,086.21	541,582.95	36.2769605	-107.6922579
4,124.00	20.52	37.63	3,948.83	887.43	588.82	1,920,103.48	541,596.34	36.2770078	-107.6922124
4,188.00	20.66	36.88	4,008.74	905.34	602.44	1,920,121.41	541,609.94	36.2770571	-107.6921662
4,251.00	20.68	35.65	4,067.69	923.27	615.60	1,920,139.36	541,623.07	36.2771063	-107.6921216
4,314.00	20.54	34.28	4,126.65	941.44	628.30	1,920,157.55	541,635.75	36.2771562	-107.6920784
4,377.00	20.09	32.61	4,185.73	959.69	640.36	1,920,175.81	541,647.78	36.2772064	-107.6920375
4,441.00	19.05	31.44	4,246.04	977.86	651.73	1,920,194.00	541,659.13	36.2772563	-107.6919989
4,504.00	19.18	30.77	4,305.56	995.53	662.39	1,920,211.68	541,669.76	36.2773048	-107.6919628
4,567.00	20.48	31.74	4,364.83	1,013.79	673.48	1,920,229.96	541,680.83	36.2773550	-107.6919252
4,631.00	21.39	34.75	4,424.60	1,032.90	686.03	1,920,249.09	541,693.34	36.2774075	-107.6918826
4,694.00	20.84	33.30	4,483.37	1,051.71	698.73	1,920,267.92	541,706.02	36.2774591	-107.6918395
4,757.00	18.50	32.18	4,542.69	1,069.54	710.20	1,920,285.76	541,717.47	36.2775081	-107.6918006
4,821.00	17.05	31.56	4,603.64	1,086.13	720.52	1,920,302.37	541,727.76	36.2775537	-107.6917656
4,885.00	16.59	31.74	4,664.90	1,101.89	730.24	1,920,318.14	541,737.46	36.2775970	-107.6917326
4,948.00	15.51	32.20	4,725.44	1,116.67	739.46	1,920,332.93	541,746.66	36.2776376	-107.6917013
5,011.00	14.28	27.66	4,786.33	1,130.68	747.56	1,920,346.96	541,754.73	36.2776761	-107.6916738
5,043.00	13.72	24.51	4,817.38	1,137.63	750.96	1,920,353.91	541,758.13	36.2776952	-107.6916623
Last SDI Surface MWD Survey									
5,075.00	13.85	29.85	4,848.46	1,144.41	754.44	1,920,360.69	541,761.60	36.2777138	-107.6916505
First SDI Curve MWD Survey									
5,107.00	15.04	39.27	4,879.45	1,150.94	758.98	1,920,367.23	541,766.13	36.2777317	-107.6916351
5,139.00	16.89	46.78	4,910.22	1,157.34	765.00	1,920,373.64	541,772.14	36.2777493	-107.6916147
5,170.00	19.87	55.27	4,939.64	1,163.43	772.61	1,920,379.74	541,779.74	36.2777660	-107.6915888
5,202.00	21.76	62.56	4,969.55	1,169.26	782.35	1,920,385.59	541,789.47	36.2777821	-107.6915558
5,233.00	22.95	71.62	4,998.23	1,173.82	793.19	1,920,390.16	541,800.30	36.2777946	-107.6915190
5,265.00	23.66	79.47	5,027.63	1,176.96	805.42	1,920,393.32	541,812.53	36.2778032	-107.6914775
5,297.00	24.99	88.61	5,056.79	1,178.30	818.50	1,920,394.67	541,825.61	36.2778069	-107.6914332
5,328.00	24.89	91.48	5,084.90	1,178.29	831.57	1,920,394.68	541,838.67	36.2778068	-107.6913888
5,360.00	23.66	92.05	5,114.07	1,177.88	844.72	1,920,394.30	541,851.82	36.2778057	-107.6913442
5,391.00	22.80	91.46	5,142.56	1,177.51	856.94	1,920,393.94	541,864.05	36.2778047	-107.6913027
5,423.00	23.13	91.22	5,172.03	1,177.22	869.42	1,920,393.67	541,876.53	36.2778039	-107.6912604
5,455.00	24.88	90.80	5,201.26	1,176.99	882.43	1,920,393.46	541,889.54	36.2778033	-107.6912162
5,487.00	26.73	89.72	5,230.06	1,176.93	896.36	1,920,393.42	541,903.47	36.2778031	-107.6911690
5,518.00	28.87	90.00	5,257.48	1,176.96	910.82	1,920,393.47	541,917.93	36.2778032	-107.6911199
5,550.00	31.66	90.25	5,285.12	1,176.93	926.95	1,920,393.46	541,934.06	36.2778031	-107.6910652
5,582.00	34.63	89.70	5,311.91	1,176.94	944.44	1,920,393.50	541,951.55	36.2778031	-107.6910059
5,612.00	37.11	91.48	5,336.22	1,176.75	962.01	1,920,393.33	541,969.12	36.2778026	-107.6909463
5,643.00	41.04	94.86	5,360.28	1,175.64	981.51	1,920,392.26	541,988.63	36.2777996	-107.6908801
5,675.00	45.33	98.48	5,383.61	1,173.07	1,003.25	1,920,389.72	542,010.36	36.2777925	-107.6908064
5,707.00	48.98	103.79	5,405.38	1,168.52	1,026.24	1,920,385.19	542,033.37	36.2777800	-107.6907283
5,739.00	52.01	108.40	5,425.74	1,161.65	1,049.95	1,920,378.36	542,057.08	36.2777611	-107.6906479
5,771.00	53.90	109.32	5,445.02	1,153.40	1,074.11	1,920,370.14	542,081.26	36.2777384	-107.6905659
5,802.00	55.94	109.86	5,462.83	1,144.89	1,098.01	1,920,361.67	542,105.17	36.2777151	-107.6904849
5,834.00	59.10	113.16	5,480.02	1,134.98	1,123.11	1,920,351.80	542,130.28	36.2776879	-107.6903997
5,866.00	59.99	114.82	5,496.24	1,123.77	1,148.31	1,920,340.62	542,155.50	36.2776570	-107.6903142
5,898.00	61.47	115.80	5,511.89	1,111.83	1,173.55	1,920,328.72	542,180.75	36.2776243	-107.6902286
5,930.00	64.16	117.74	5,526.50	1,099.01	1,198.95	1,920,315.93	542,206.17	36.2775890	-107.6901424
5,961.00	68.55	119.79	5,538.94	1,085.34	1,223.83	1,920,302.30	542,231.08	36.2775515	-107.6900580
5,993.00	72.50	122.67	5,549.60	1,069.69	1,249.62	1,920,286.69	542,256.88	36.2775085	-107.6899705
6,024.00	75.93	124.40	5,558.04	1,053.21	1,274.48	1,920,270.25	542,281.76	36.2774632	-107.6898862
6,056.00	77.24	125.63	5,565.46	1,035.35	1,299.97	1,920,252.42	542,307.28	36.2774141	-107.6897997
6,087.00	79.87	126.34	5,571.61	1,017.50	1,324.55	1,920,234.61	542,331.89	36.2773651	-107.6897163

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #112H - Slot A2
Project:	T24N R8W	TVD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #112H	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
6,119.00	82.36	127.40	5,576.55	998.53	1,349.84	1,920,215.67	542,357.21	36.2773130	-107.6896305
6,150.00	83.51	127.73	5,580.37	979.78	1,374.23	1,920,196.95	542,381.62	36.2772615	-107.6895478
6,182.00	85.30	128.01	5,583.49	960.23	1,399.37	1,920,177.44	542,406.79	36.2772077	-107.6894625
6,222.00	88.29	129.07	5,585.72	935.35	1,430.60	1,920,152.60	542,438.06	36.2771394	-107.6893565
Last SDI Curve MWD Survey									
6,270.00	89.86	128.64	5,586.50	905.24	1,467.97	1,920,122.55	542,475.47	36.2770567	-107.6892298
7" Casing @ 6270' MD - 36.2770567 / -107.6892297									
6,296.00	90.71	128.40	5,586.37	889.05	1,488.32	1,920,106.39	542,495.84	36.2770122	-107.6891607
First SDI Lateral MWD Survey									
6,323.00	91.19	128.75	5,585.92	872.22	1,509.42	1,920,089.59	542,516.97	36.2769660	-107.6890891
6,387.00	89.03	128.24	5,585.80	832.38	1,559.51	1,920,049.82	542,567.11	36.2768565	-107.6889192
6,450.00	89.29	127.96	5,586.72	793.51	1,609.08	1,920,011.03	542,616.74	36.2767497	-107.6887511
6,514.00	89.87	127.60	5,587.19	754.31	1,659.66	1,919,971.89	542,667.38	36.2766420	-107.6885795
6,577.00	90.17	127.82	5,587.17	715.77	1,709.50	1,919,933.43	542,717.27	36.2765361	-107.6884104
6,640.00	90.71	127.37	5,586.68	677.34	1,759.42	1,919,895.07	542,767.25	36.2764306	-107.6882410
6,704.00	91.01	127.08	5,585.72	638.63	1,810.37	1,919,856.43	542,818.26	36.2763242	-107.6880682
6,767.00	90.64	125.99	5,584.82	601.13	1,860.99	1,919,819.00	542,868.92	36.2762212	-107.6878965
6,831.00	90.13	124.83	5,584.39	564.04	1,913.15	1,919,781.99	542,921.14	36.2761193	-107.6877195
6,895.00	90.22	124.26	5,584.19	527.75	1,965.86	1,919,745.78	542,973.90	36.2760196	-107.6875407
6,958.00	90.47	124.14	5,583.81	492.34	2,017.97	1,919,710.44	543,026.06	36.2759223	-107.6873639
7,021.00	90.84	124.17	5,583.09	456.97	2,070.10	1,919,675.15	543,078.24	36.2758251	-107.6871871
7,084.00	90.10	123.49	5,582.57	421.90	2,122.43	1,919,640.15	543,130.62	36.2757288	-107.6870096
7,147.00	91.54	124.09	5,581.67	386.87	2,174.78	1,919,605.20	543,183.02	36.2756325	-107.6868320
7,211.00	90.44	124.37	5,580.57	350.87	2,227.69	1,919,569.28	543,235.98	36.2755336	-107.6866525
7,274.00	90.13	124.09	5,580.25	315.44	2,279.77	1,919,533.91	543,288.12	36.2754363	-107.6864758
7,338.00	89.96	123.21	5,580.20	279.97	2,333.05	1,919,498.53	543,341.45	36.2753388	-107.6862951
7,401.00	89.69	123.30	5,580.40	245.43	2,385.73	1,919,464.06	543,394.18	36.2752439	-107.6861163
7,465.00	89.90	122.60	5,580.63	210.62	2,439.44	1,919,429.32	543,447.93	36.2751483	-107.6859342
7,528.00	89.78	121.89	5,580.80	177.00	2,492.72	1,919,395.79	543,501.26	36.2750559	-107.6857534
7,592.00	89.83	121.46	5,581.02	143.40	2,547.18	1,919,362.26	543,555.78	36.2749636	-107.6855686
7,656.00	89.40	121.14	5,581.45	110.15	2,601.87	1,919,329.09	543,610.51	36.2748722	-107.6853831
7,719.00	89.36	120.99	5,582.13	77.64	2,655.83	1,919,296.66	543,664.52	36.2747829	-107.6852001
7,782.00	89.87	120.40	5,582.55	45.48	2,710.00	1,919,264.58	543,718.74	36.2746946	-107.6850163
7,845.00	90.47	120.82	5,582.37	13.41	2,764.22	1,919,232.58	543,773.00	36.2746064	-107.6848324
7,908.00	90.92	121.28	5,581.60	-19.09	2,818.19	1,919,200.17	543,827.02	36.2745172	-107.6846493
7,971.00	91.01	121.68	5,580.54	-51.98	2,871.91	1,919,167.35	543,880.79	36.2744268	-107.6844670
8,035.00	90.87	122.18	5,579.49	-85.82	2,926.22	1,919,133.58	543,935.14	36.2743338	-107.6842828
8,098.00	90.34	122.63	5,578.83	-119.58	2,979.41	1,919,099.90	543,988.38	36.2742410	-107.6841024
8,159.00	88.81	122.51	5,579.28	-152.42	3,030.81	1,919,067.14	544,039.83	36.2741508	-107.6839280
8,219.00	89.25	122.77	5,580.29	-184.78	3,081.33	1,919,034.85	544,090.39	36.2740619	-107.6837566
8,280.00	91.18	123.55	5,580.07	-218.14	3,132.39	1,919,001.56	544,141.50	36.2739702	-107.6835834
8,341.00	90.84	123.97	5,578.99	-252.03	3,183.10	1,918,967.74	544,192.26	36.2738771	-107.6834114
8,402.00	90.64	124.47	5,578.20	-286.34	3,233.53	1,918,933.51	544,242.74	36.2737829	-107.6832403
8,464.00	89.87	124.26	5,577.93	-321.33	3,284.71	1,918,899.59	544,293.97	36.2736867	-107.6830667
8,524.00	90.03	124.78	5,577.98	-355.33	3,334.14	1,918,864.66	544,343.45	36.2735933	-107.6828990
8,585.00	90.44	124.72	5,577.73	-390.10	3,384.26	1,918,829.96	544,393.62	36.2734978	-107.6827290
8,646.00	89.60	124.27	5,577.71	-424.65	3,434.54	1,918,795.49	544,443.95	36.2734028	-107.6825585
8,707.00	89.87	124.26	5,577.99	-458.99	3,484.95	1,918,761.22	544,494.41	36.2733085	-107.6823875
8,768.00	90.22	123.91	5,577.94	-493.18	3,535.47	1,918,727.10	544,544.98	36.2732145	-107.6822161
8,829.00	90.00	123.75	5,577.83	-527.14	3,586.14	1,918,693.22	544,595.70	36.2731212	-107.6820442
8,889.00	90.97	123.55	5,577.32	-560.38	3,636.09	1,918,660.04	544,645.69	36.2730299	-107.6818748
8,949.00	90.17	123.11	5,576.72	-593.35	3,686.22	1,918,627.15	544,695.87	36.2729393	-107.6817047
9,010.00	90.48	122.77	5,576.37	-626.52	3,737.41	1,918,594.05	544,747.11	36.2728482	-107.6815311
9,071.00	90.24	123.07	5,575.99	-659.67	3,788.61	1,918,560.98	544,798.36	36.2727571	-107.6813574
9,132.00	89.66	123.63	5,576.04	-693.20	3,839.57	1,918,527.52	544,849.36	36.2726649	-107.6811846

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #112H - Slot A2
Project:	T24N R8W	TVD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #112H	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
9,193.00	90.20	123.87	5,576.12	-727.09	3,890.29	1,918,493.70	544,900.13	36.2725718	-107.6810125
9,253.00	90.67	124.12	5,575.66	-760.64	3,940.03	1,918,460.22	544,949.92	36.2724796	-107.6808438
9,313.00	91.04	123.94	5,574.77	-794.21	3,989.75	1,918,426.72	544,999.69	36.2723874	-107.6806751
9,373.00	91.44	123.79	5,573.47	-827.64	4,039.56	1,918,393.37	545,049.55	36.2722956	-107.6805062
9,434.00	90.91	124.58	5,572.22	-861.91	4,090.01	1,918,359.17	545,100.04	36.2722014	-107.6803350
9,495.00	90.50	124.09	5,571.47	-896.31	4,140.38	1,918,324.84	545,150.46	36.2721069	-107.6801642
9,555.00	89.73	124.16	5,571.35	-929.97	4,190.04	1,918,291.25	545,200.18	36.2720144	-107.6799957
9,616.00	89.96	124.18	5,571.51	-964.23	4,240.51	1,918,257.07	545,250.70	36.2719202	-107.6798245
9,677.00	89.97	123.87	5,571.55	-998.36	4,291.07	1,918,223.01	545,301.30	36.2718265	-107.6796530
9,738.00	90.40	123.94	5,571.35	-1,032.39	4,341.70	1,918,189.05	545,351.98	36.2717330	-107.6794813
9,798.00	90.75	124.44	5,570.75	-1,066.10	4,391.33	1,918,155.41	545,401.65	36.2716403	-107.6793129
9,859.00	89.76	124.83	5,570.48	-1,100.77	4,441.51	1,918,120.81	545,451.89	36.2715451	-107.6791427
9,922.00	90.17	124.34	5,570.52	-1,136.53	4,493.38	1,918,085.13	545,503.81	36.2714468	-107.6789668
9,985.00	90.34	124.37	5,570.24	-1,172.08	4,545.39	1,918,049.65	545,555.87	36.2713491	-107.6787904
10,048.00	90.84	124.53	5,569.59	-1,207.72	4,597.34	1,918,014.09	545,607.87	36.2712512	-107.6786141
10,112.00	91.21	124.66	5,568.44	-1,244.05	4,650.01	1,917,977.83	545,660.60	36.2711514	-107.6784355
10,175.00	91.45	124.53	5,566.98	-1,279.81	4,701.86	1,917,942.15	545,712.50	36.2710531	-107.6782596
10,238.00	90.20	123.76	5,566.07	-1,315.17	4,753.99	1,917,906.87	545,764.68	36.2709559	-107.6780828
10,302.00	89.87	124.09	5,566.04	-1,350.89	4,807.10	1,917,871.22	545,817.84	36.2708578	-107.6779026
10,365.00	90.03	123.81	5,566.09	-1,386.07	4,859.36	1,917,836.12	545,870.15	36.2707611	-107.6777254
10,430.00	90.30	123.71	5,565.90	-1,422.19	4,913.40	1,917,800.07	545,924.24	36.2706619	-107.6775421
10,494.00	90.40	123.61	5,565.51	-1,457.66	4,966.67	1,917,764.68	545,977.56	36.2705644	-107.6773614
10,557.00	90.64	123.82	5,564.94	-1,492.63	5,019.07	1,917,729.78	546,030.01	36.2704683	-107.6771837
10,621.00	90.34	124.23	5,564.39	-1,528.44	5,072.11	1,917,694.05	546,083.10	36.2703699	-107.6770037
10,684.00	90.20	124.40	5,564.10	-1,563.96	5,124.14	1,917,658.61	546,135.19	36.2702723	-107.6768272
10,747.00	90.30	124.52	5,563.82	-1,599.60	5,176.09	1,917,623.04	546,187.18	36.2701744	-107.6766511
10,810.00	90.50	124.43	5,563.38	-1,635.26	5,228.02	1,917,587.45	546,239.17	36.2700764	-107.6764749
10,873.00	90.20	124.83	5,563.00	-1,671.06	5,279.86	1,917,551.73	546,291.06	36.2699780	-107.6762991
10,936.00	89.87	124.71	5,562.96	-1,706.99	5,331.61	1,917,515.87	546,342.86	36.2698793	-107.6761235
11,000.00	90.13	124.49	5,562.96	-1,743.33	5,384.29	1,917,479.61	546,395.59	36.2697794	-107.6759449
11,064.00	89.83	124.90	5,562.98	-1,779.76	5,436.91	1,917,443.25	546,448.27	36.2696793	-107.6757664
11,127.00	89.70	124.43	5,563.24	-1,815.60	5,488.73	1,917,407.49	546,500.13	36.2695808	-107.6755906
11,191.00	89.70	124.72	5,563.57	-1,851.91	5,541.42	1,917,371.25	546,552.88	36.2694810	-107.6754119
11,255.00	89.87	125.05	5,563.81	-1,888.52	5,593.92	1,917,334.72	546,605.43	36.2693805	-107.6752338
11,318.00	89.87	124.83	5,563.96	-1,924.60	5,645.57	1,917,298.72	546,657.13	36.2692813	-107.6750586
11,381.00	89.60	124.90	5,564.25	-1,960.61	5,697.26	1,917,262.78	546,708.87	36.2691824	-107.6748833
11,444.00	89.73	124.69	5,564.62	-1,996.56	5,748.99	1,917,226.90	546,760.66	36.2690836	-107.6747078
11,509.00	90.07	125.44	5,564.73	-2,033.90	5,802.19	1,917,189.64	546,813.91	36.2689810	-107.6745274
11,572.00	90.67	124.63	5,564.32	-2,070.07	5,853.78	1,917,153.55	546,865.55	36.2688816	-107.6743524
11,635.00	88.45	122.68	5,564.81	-2,104.98	5,906.21	1,917,118.71	546,918.03	36.2687856	-107.6741746
11,699.00	88.89	122.77	5,566.29	-2,139.57	5,960.04	1,917,084.20	546,971.91	36.2686906	-107.6739920
11,762.00	89.90	122.71	5,566.96	-2,173.64	6,013.03	1,917,050.21	547,024.94	36.2685970	-107.6738123
11,825.00	90.17	123.23	5,566.92	-2,207.92	6,065.88	1,917,016.00	547,077.85	36.2685028	-107.6736330
11,888.00	90.75	122.95	5,566.41	-2,242.32	6,118.66	1,916,981.68	547,130.68	36.2684082	-107.6734540
11,951.00	90.54	122.18	5,565.70	-2,276.22	6,171.75	1,916,947.85	547,183.82	36.2683151	-107.6732739
12,014.00	89.93	122.36	5,565.45	-2,309.86	6,225.02	1,916,914.29	547,237.13	36.2682226	-107.6730933
12,078.00	90.20	121.77	5,565.37	-2,343.84	6,279.26	1,916,880.39	547,291.42	36.2681293	-107.6729093
12,141.00	90.22	121.63	5,565.14	-2,376.94	6,332.86	1,916,847.36	547,345.07	36.2680383	-107.6727275
12,205.00	90.22	121.80	5,564.90	-2,410.58	6,387.30	1,916,813.80	547,399.56	36.2679458	-107.6725428
12,268.00	90.44	122.18	5,564.53	-2,443.96	6,440.73	1,916,780.50	547,453.04	36.2678541	-107.6723616
12,331.00	89.60	121.28	5,564.51	-2,477.09	6,494.31	1,916,747.44	547,506.67	36.2677630	-107.6721799
12,394.00	88.90	119.96	5,565.34	-2,509.18	6,548.52	1,916,715.44	547,560.92	36.2676749	-107.6719960
12,458.00	89.08	119.92	5,566.46	-2,541.11	6,603.97	1,916,683.58	547,616.42	36.2675871	-107.6718079
12,521.00	89.96	119.96	5,566.99	-2,572.56	6,658.56	1,916,652.22	547,671.05	36.2675007	-107.6716228
12,584.00	90.40	120.13	5,566.79	-2,604.10	6,713.10	1,916,620.75	547,725.63	36.2674140	-107.6714378

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #112H - Slot A2
Project:	T24N R8W	TVD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #112H	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
12,647.00	90.10	120.49	5,566.52	-2,635.89	6,767.49	1,916,589.04	547,780.07	36.2673266	-107.6712533
12,711.00	90.47	120.44	5,566.20	-2,668.34	6,822.65	1,916,556.67	547,835.28	36.2672375	-107.6710663
12,775.00	90.40	121.13	5,565.72	-2,701.10	6,877.63	1,916,523.99	547,890.30	36.2671474	-107.6708798
12,838.00	89.43	120.07	5,565.81	-2,733.16	6,931.85	1,916,492.00	547,944.58	36.2670593	-107.6706959
12,900.00	88.89	120.01	5,566.72	-2,764.20	6,985.52	1,916,461.04	547,998.29	36.2669740	-107.6705138
12,964.00	89.09	120.29	5,567.85	-2,796.34	7,040.85	1,916,428.98	548,053.67	36.2668857	-107.6703262
13,027.00	88.99	120.26	5,568.90	-2,828.10	7,095.25	1,916,397.30	548,108.11	36.2667984	-107.6701417
13,093.00	89.66	120.12	5,569.68	-2,861.28	7,152.30	1,916,364.20	548,165.20	36.2667072	-107.6699482
Last SDI Lateral MWD Survey									
13,135.00	89.66	120.12	5,569.93	-2,882.36	7,188.63	1,916,343.18	548,201.56	36.2666493	-107.6698250
RSI @ 13,135' MD - 36.2666493 / -107.6698249									
13,156.00	89.66	120.12	5,570.05	-2,892.90	7,206.79	1,916,332.66	548,219.74	36.2666203	-107.6697634
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
464.00	463.98	2.89	2.41	First SDI Surface MWD Survey
5,043.00	4,817.38	1,137.63	750.96	Last SDI Surface MWD Survey
5,075.00	4,848.46	1,144.41	754.44	First SDI Curve MWD Survey
6,222.00	5,585.72	935.35	1,430.60	Last SDI Curve MWD Survey
6,270.00	5,586.50	905.24	1,467.97	7" Casing @ 6270' MD
6,270.00	5,586.50	905.24	1,467.97	36.2770567 / -107.6892297
6,296.00	5,586.37	889.05	1,488.32	First SDI Lateral MWD Survey
13,093.00	5,569.68	-2,861.28	7,152.30	Last SDI Lateral MWD Survey
13,135.00	5,569.93	-2,882.36	7,188.63	RSI @ 13,135' MD
13,135.00	5,569.93	-2,882.36	7,188.63	36.2666493 / -107.6698249
13,156.00	5,570.05	-2,892.90	7,206.79	Projection to TD

Checked By: _____ Approved By: _____ Date: _____