

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 30-045-35602		*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 315059	*Property Name MC 5 COM		*Well Number 113H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 7020'

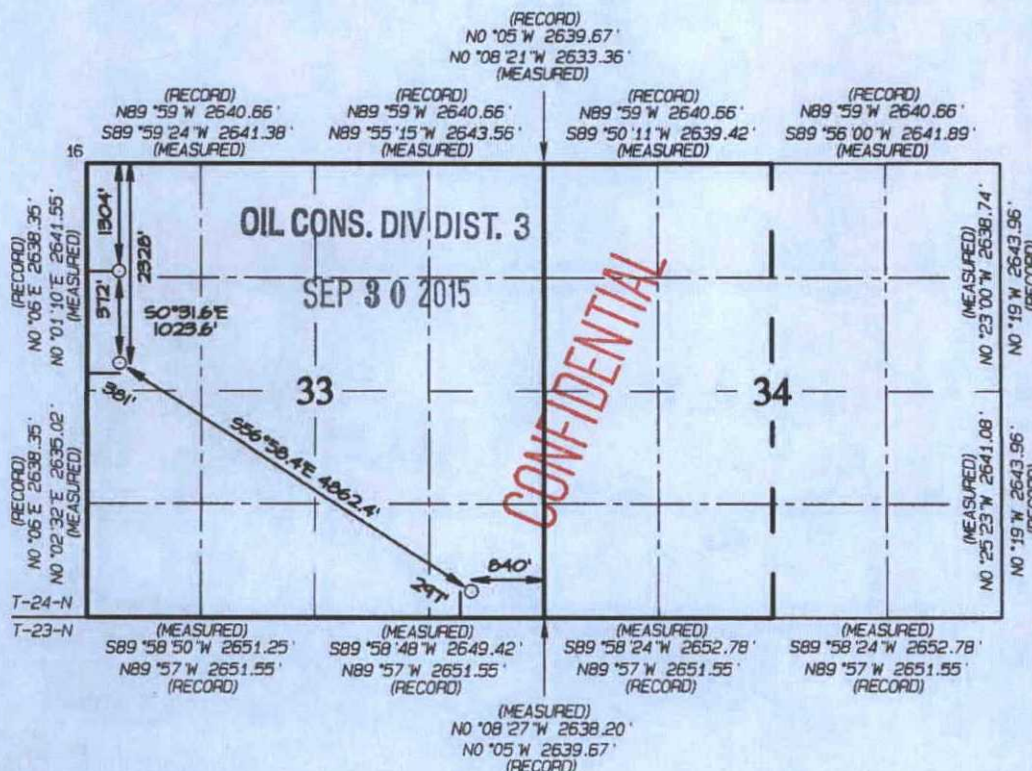
¹⁰ Surface Location

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		1304	NORTH	372	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
P	33	24N	8W		297	SOUTH	840	EAST	SAN JUAN
¹² Dedicated Acres 960.0					¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. NSL-7333-0

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



SURFACE LOCATION
1304' FNL 372' FNL
SECTION 33, T24N, R8W
LAT: 36.274490°N
LONG: 107.694324°W
DATUM: NAD1927

LAT: 36.274502°N
LONG: 107.694935°W
DATUM: NAD1983

POINT-OF-ENTRY
2328' FNL 381' FNL
SECTION 33, T24N, R8W
LAT: 36.271678°N
LONG: 107.694297°W
DATUM: NAD1927

LAT: 36.271690°N
LONG: 107.694909°W
DATUM: NAD1983

RSI TOOL
335' FSL 895' FEL
SECTION 33, T24N, R8W
LAT: 36.264484°N
LONG: 107.680669°W
DATUM: NAD1927

LAT: 36.264497°N
LONG: 107.681280°W
DATUM: NAD1983

END-OF-LATERAL
297' FSL 840' FEL
SECTION 33, T24N, R8W
LAT: 36.264381°N
LONG: 107.680481°W
DATUM: NAD1927

LAT: 36.264393°N
LONG: 107.681092°W
DATUM: NAD1983

¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: LACEY GRANILLO
Date: 9/29/15
Printed Name: lacey.granillo@wpxenergy.com
E-mail Address:

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: SEPTEMBER 21, 2015
Survey Date: DECEMBER 12, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



WPX Energy

T24N R8W

Chaco 2408-33D

MC 5 COM #113H - Slot A4

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

16 September, 2015

CONFIDENTIAL



www.scientificdrilling.com



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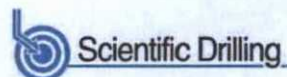


OIL CONS. DIV DIST. 3

SEP 30 2015



Company Name: WPX Energy
Project: T24N R8W
Site: Chaco 2408-33D
Well: MC 5 COM #113H



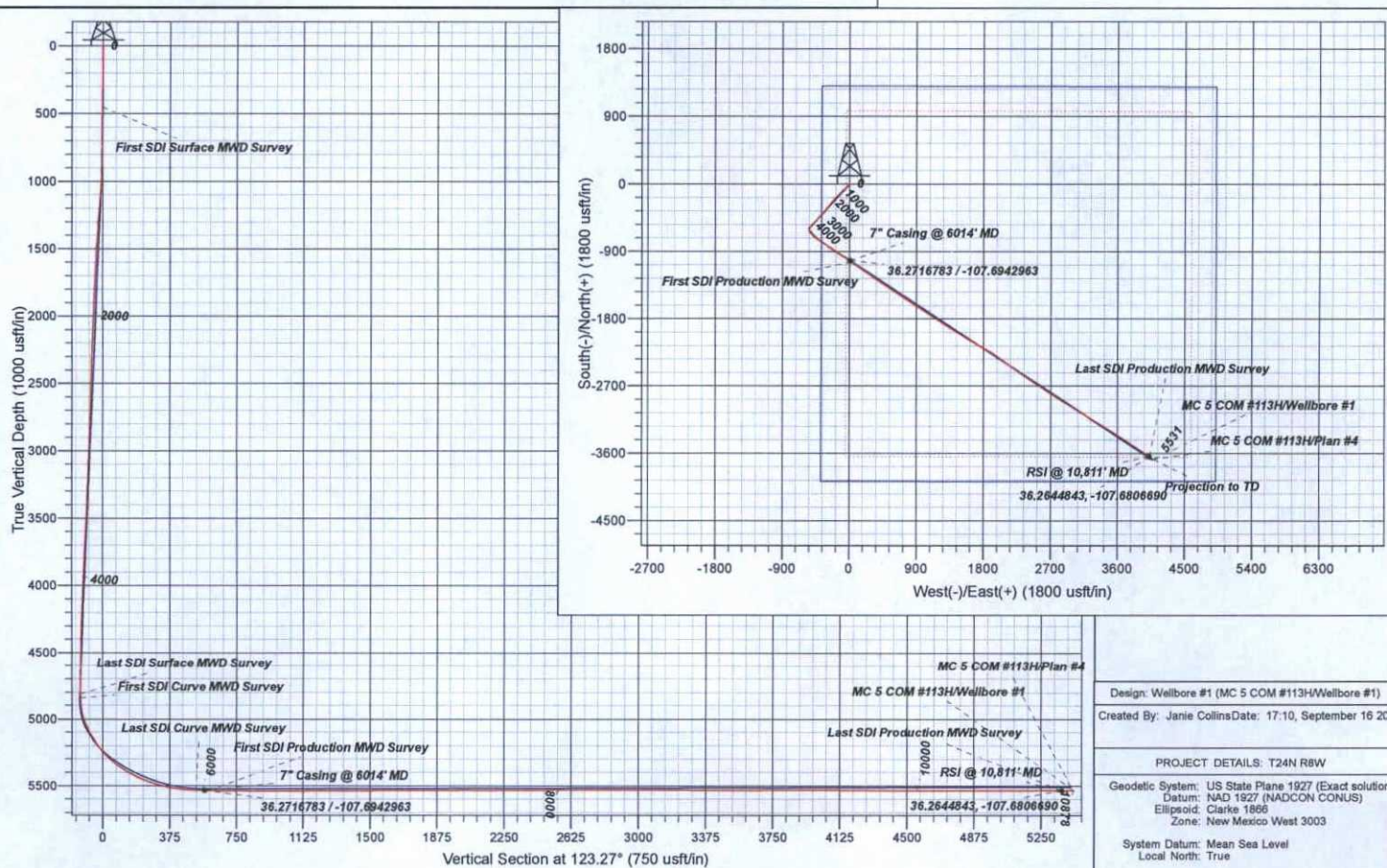
Azimuths to True North
Magnetic North: 9.13°

Magnetic Field
Strength: 49889.5nT
Dip Angle: 62.95°
Date: 8/28/2015
Model: HDGM

WELL DETAILS: MC 5 COM #113H

+N/-S	+E/-W	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)	7020.00
		Northing	Longitude
0.00	0.00	1919185.14	540973.96
		Easting	Latitude
		36.2744876	-107.6943283

A4



Design: Wellbore #1 (MC 5 COM #113H/Wellbore #1)
Created By: Janie Collins Date: 17:10, September 16 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

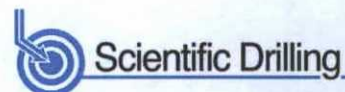
System Datum: Mean Sea Level
Local North: True

CONFIDENTIAL



SEP 30 2015

Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #113H - Slot A4
Project:	T24N R8W	TVD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #113H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Project	T24N R8W		
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 2408-33D		
Site Position:		Northing:	1,919,215.20 usft
From:	Lat/Long	Easting:	541,008.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.2745700
		Longitude:	-107.6942100
		Grid Convergence:	0.08 °

Well	MC 5 COM #113H - Slot A4		
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:	36.2744875
		Longitude:	-107.6943284
		Ground Level:	7,020.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	8/28/2015	9.13
			Dip Angle (°)
			62.95
			Field Strength (nT)
			49,890

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)
	0.00	0.00	0.00
			Direction (°)
			123.27

Survey Program	Date 9/16/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
14.00	344.00	Survey #1 - Gyro Survey (Wellbore #1)	NS-GYRO-MS
451.00	4,890.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD
4,921.00	5,966.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD
6,038.00	10,878.00	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD
			Description
			North sensing gyrocompassing m/s
			SDI MWD - Standard ver 1.0.1
			SDI MWD - Standard ver 1.0.1
			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	1,919,185.14	540,973.96	36.2744875	-107.6943284
14.00	0.00	0.00	14.00	0.00	0.00	1,919,185.14	540,973.96	36.2744875	-107.6943284
64.00	0.03	89.66	64.00	0.00	0.01	1,919,185.14	540,973.98	36.2744875	-107.6943283
114.00	0.06	290.93	114.00	0.01	0.00	1,919,185.15	540,973.96	36.2744876	-107.6943284
164.00	0.26	344.07	164.00	0.13	-0.05	1,919,185.27	540,973.91	36.2744879	-107.6943286
214.00	0.46	328.82	214.00	0.41	-0.19	1,919,185.55	540,973.77	36.2744887	-107.6943290
264.00	0.47	316.34	264.00	0.73	-0.43	1,919,185.87	540,973.53	36.2744895	-107.6943299

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #113H - Slot A4
Project:	T24N R8W	TVD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #113H	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
314.00	0.69	286.95	313.99	0.96	-0.86	1,919,186.11	540,973.10	36.2744902	-107.6943313
344.00	0.59	313.57	343.99	1.12	-1.15	1,919,186.27	540,972.81	36.2744906	-107.6943323
451.00	0.59	323.68	450.99	1.95	-1.87	1,919,187.09	540,972.09	36.2744929	-107.6943347
First SDI Surface MWD Survey									
510.00	0.81	246.85	509.98	2.03	-2.44	1,919,187.17	540,971.52	36.2744931	-107.6943367
571.00	2.62	212.90	570.96	0.69	-3.59	1,919,185.83	540,970.37	36.2744894	-107.6943406
632.00	3.37	207.43	631.87	-2.07	-5.17	1,919,183.06	540,968.79	36.2744818	-107.6943459
693.00	3.98	208.71	692.75	-5.52	-7.02	1,919,179.61	540,966.95	36.2744724	-107.6943522
754.00	5.09	210.85	753.55	-9.70	-9.42	1,919,175.43	540,964.55	36.2744609	-107.6943603
815.00	6.21	219.66	814.26	-14.57	-12.92	1,919,170.56	540,961.07	36.2744475	-107.6943722
875.00	7.50	224.27	873.83	-19.87	-17.72	1,919,165.25	540,956.27	36.2744330	-107.6943885
935.00	8.89	226.50	933.21	-25.86	-23.82	1,919,159.25	540,950.18	36.2744165	-107.6944092
996.00	10.55	227.52	993.34	-32.88	-31.36	1,919,152.22	540,942.65	36.2743972	-107.6944348
1,057.00	10.98	228.98	1,053.26	-40.46	-39.86	1,919,144.62	540,934.16	36.2743764	-107.6944636
1,117.00	11.43	229.85	1,112.12	-48.05	-48.71	1,919,137.03	540,925.32	36.2743555	-107.6944936
1,178.00	11.80	229.68	1,171.87	-55.98	-58.09	1,919,129.08	540,915.96	36.2743337	-107.6945254
1,239.00	12.39	228.39	1,231.52	-64.36	-67.74	1,919,120.68	540,906.32	36.2743107	-107.6945582
1,300.00	12.81	228.85	1,291.05	-73.16	-77.72	1,919,111.87	540,896.35	36.2742866	-107.6945921
1,361.00	12.34	227.30	1,350.58	-82.03	-87.60	1,919,102.99	540,886.48	36.2742622	-107.6946256
1,422.00	11.98	225.43	1,410.21	-90.89	-96.90	1,919,094.11	540,877.19	36.2742378	-107.6946571
1,483.00	11.32	224.28	1,469.96	-99.62	-105.59	1,919,085.37	540,868.51	36.2742139	-107.6946866
1,544.00	11.11	222.41	1,529.79	-108.25	-113.74	1,919,076.73	540,860.38	36.2741902	-107.6947142
1,605.00	11.35	223.08	1,589.62	-116.97	-121.80	1,919,068.00	540,852.33	36.2741662	-107.6947416
1,666.00	11.35	224.78	1,649.43	-125.61	-130.13	1,919,059.34	540,844.01	36.2741425	-107.6947698
1,727.00	11.32	222.67	1,709.24	-134.28	-138.41	1,919,050.67	540,835.74	36.2741187	-107.6947980
1,788.00	11.34	224.06	1,769.05	-142.99	-146.64	1,919,041.94	540,827.52	36.2740947	-107.6948259
1,849.00	10.99	224.80	1,828.90	-151.42	-154.91	1,919,033.50	540,819.27	36.2740715	-107.6948539
1,910.00	11.03	226.29	1,888.78	-159.58	-163.23	1,919,025.33	540,810.97	36.2740491	-107.6948821
1,973.00	11.70	224.10	1,950.54	-168.33	-172.03	1,919,016.56	540,802.18	36.2740251	-107.6949120
2,036.00	11.64	224.00	2,012.24	-177.49	-180.89	1,919,007.39	540,793.33	36.2739999	-107.6949420
2,099.00	11.81	222.48	2,073.92	-186.82	-189.66	1,918,998.05	540,784.57	36.2739743	-107.6949718
2,164.00	11.49	221.17	2,137.59	-196.60	-198.41	1,918,988.26	540,775.83	36.2739474	-107.6950015
2,227.00	11.48	220.98	2,199.32	-206.05	-206.65	1,918,978.79	540,767.61	36.2739215	-107.6950294
2,291.00	11.62	219.56	2,262.03	-215.83	-214.93	1,918,969.00	540,759.34	36.2738946	-107.6950575
2,354.00	11.57	219.52	2,323.74	-225.60	-223.00	1,918,959.23	540,751.29	36.2738678	-107.6950849
2,418.00	11.71	220.01	2,386.43	-235.52	-231.26	1,918,949.29	540,743.05	36.2738405	-107.6951129
2,481.00	11.62	219.24	2,448.13	-245.33	-239.38	1,918,939.47	540,734.94	36.2738136	-107.6951405
2,545.00	11.83	218.40	2,510.79	-255.47	-247.53	1,918,929.32	540,726.80	36.2737857	-107.6951681
2,608.00	11.75	218.40	2,572.46	-265.55	-255.53	1,918,919.22	540,718.82	36.2737580	-107.6951953
2,671.00	12.16	217.69	2,634.09	-275.83	-263.57	1,918,908.93	540,710.79	36.2737298	-107.6952225
2,735.00	12.16	218.83	2,696.66	-286.42	-271.92	1,918,898.34	540,702.46	36.2737007	-107.6952509
2,798.00	12.32	217.74	2,758.23	-296.90	-280.19	1,918,887.84	540,694.20	36.2736719	-107.6952789
2,861.00	12.05	218.19	2,819.81	-307.39	-288.37	1,918,877.34	540,686.03	36.2736431	-107.6953067
2,925.00	12.29	217.95	2,882.37	-318.01	-296.69	1,918,866.71	540,677.73	36.2736139	-107.6953349
2,989.00	11.93	221.17	2,944.95	-328.36	-305.23	1,918,856.35	540,669.20	36.2735855	-107.6953639
3,052.00	11.53	222.07	3,006.63	-337.93	-313.74	1,918,846.76	540,660.71	36.2735592	-107.6953927
3,116.00	11.43	222.09	3,069.35	-347.39	-322.27	1,918,837.29	540,652.19	36.2735332	-107.6954217
3,179.00	11.11	222.88	3,131.13	-356.47	-330.59	1,918,828.20	540,643.89	36.2735083	-107.6954499
3,243.00	11.19	222.62	3,193.93	-365.56	-338.99	1,918,819.10	540,635.50	36.2734833	-107.6954784
3,306.00	11.07	221.85	3,255.74	-374.56	-347.16	1,918,810.09	540,627.34	36.2734586	-107.6955061
3,369.00	10.94	223.43	3,317.58	-383.41	-355.31	1,918,801.23	540,619.20	36.2734343	-107.6955338
3,433.00	11.00	222.49	3,380.41	-392.32	-363.61	1,918,792.30	540,610.92	36.2734098	-107.6955619
3,496.00	11.22	221.75	3,442.23	-401.32	-371.75	1,918,783.29	540,602.79	36.2733850	-107.6955895

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #113H - Slot A4
Project:	T24N R8W	TVD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #113H	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
3,560.00	11.13	223.06	3,505.02	-410.48	-380.11	1,918,774.12	540,594.44	36.2733599	-107.6956179
3,624.00	11.17	223.36	3,567.81	-419.50	-388.59	1,918,765.08	540,585.98	36.2733351	-107.6956467
3,687.00	11.18	223.46	3,629.62	-428.37	-396.98	1,918,756.20	540,577.60	36.2733107	-107.6956751
3,750.00	11.33	222.83	3,691.41	-437.34	-405.39	1,918,747.22	540,569.20	36.2732861	-107.6957036
3,813.00	11.15	223.43	3,753.20	-446.31	-413.78	1,918,738.24	540,560.82	36.2732615	-107.6957321
3,876.00	11.34	224.82	3,814.99	-455.12	-422.33	1,918,729.41	540,552.28	36.2732372	-107.6957611
3,940.00	11.13	225.67	3,877.76	-463.90	-431.19	1,918,720.62	540,543.44	36.2732131	-107.6957912
4,003.00	10.77	223.82	3,939.61	-472.40	-439.61	1,918,712.11	540,535.03	36.2731898	-107.6958198
4,067.00	10.79	221.65	4,002.48	-481.19	-447.74	1,918,703.31	540,526.92	36.2731656	-107.6958473
4,130.00	10.59	222.30	4,064.39	-489.88	-455.55	1,918,694.61	540,519.12	36.2731418	-107.6958738
4,193.00	10.36	221.93	4,126.34	-498.37	-463.23	1,918,686.10	540,511.45	36.2731184	-107.6958999
4,257.00	10.36	220.90	4,189.30	-507.01	-470.84	1,918,677.46	540,503.85	36.2730947	-107.6959257
4,320.00	10.03	220.99	4,251.30	-515.43	-478.15	1,918,669.03	540,496.55	36.2730716	-107.6959505
4,383.00	10.54	222.22	4,313.29	-523.84	-485.62	1,918,660.61	540,489.09	36.2730485	-107.6959758
4,447.00	10.59	222.66	4,376.21	-532.50	-493.54	1,918,651.94	540,481.19	36.2730247	-107.6960027
4,510.00	10.56	223.51	4,438.14	-540.94	-501.44	1,918,643.48	540,473.30	36.2730015	-107.6960295
4,573.00	9.92	219.61	4,500.13	-549.31	-508.87	1,918,635.10	540,465.88	36.2729785	-107.6960547
4,636.00	9.22	217.31	4,562.26	-557.50	-515.39	1,918,626.90	540,459.37	36.2729560	-107.6960768
4,700.00	8.32	217.30	4,625.51	-565.26	-521.31	1,918,619.13	540,453.47	36.2729347	-107.6960969
4,763.00	7.36	216.46	4,687.92	-572.14	-526.47	1,918,612.25	540,448.32	36.2729158	-107.6961144
4,826.00	6.73	211.57	4,750.44	-578.53	-530.80	1,918,605.85	540,444.00	36.2728982	-107.6961291
4,890.00	6.46	208.78	4,814.02	-584.88	-534.49	1,918,599.50	540,440.31	36.2728808	-107.6961416
Last SDI Surface MWD Survey									
4,921.00	7.82	200.64	4,844.78	-588.38	-536.08	1,918,595.99	540,438.73	36.2728712	-107.6961470
First SDI Curve MWD Survey									
4,983.00	10.58	175.60	4,906.00	-598.01	-537.13	1,918,586.36	540,437.69	36.2728447	-107.6961506
5,047.00	14.86	168.99	4,968.42	-611.93	-535.11	1,918,572.45	540,439.73	36.2728065	-107.6961437
5,111.00	17.85	157.04	5,029.84	-629.03	-529.71	1,918,555.36	540,445.15	36.2727595	-107.6961254
5,175.00	22.70	142.51	5,089.89	-647.88	-518.36	1,918,536.52	540,456.54	36.2727077	-107.6960869
5,238.00	26.42	133.91	5,147.20	-667.26	-500.85	1,918,517.17	540,474.07	36.2726545	-107.6960275
5,301.00	29.48	127.27	5,202.86	-686.37	-478.40	1,918,498.08	540,496.54	36.2726020	-107.6959513
5,364.00	34.72	129.09	5,256.21	-707.09	-452.12	1,918,477.41	540,522.85	36.2725451	-107.6958622
5,428.00	39.45	125.95	5,307.26	-730.53	-421.50	1,918,454.00	540,553.51	36.2724806	-107.6957583
5,491.00	47.22	124.52	5,353.05	-755.43	-386.19	1,918,429.16	540,588.86	36.2724123	-107.6956385
5,555.00	52.58	126.10	5,394.26	-783.73	-346.27	1,918,400.92	540,628.81	36.2723345	-107.6955031
5,618.00	59.08	124.87	5,429.62	-813.95	-303.84	1,918,370.75	540,671.29	36.2722515	-107.6953591
5,681.00	61.51	123.97	5,460.84	-844.88	-258.70	1,918,339.89	540,716.47	36.2721665	-107.6952060
5,744.00	69.42	124.01	5,486.98	-876.89	-211.22	1,918,307.95	540,764.00	36.2720786	-107.6950449
5,807.00	74.03	124.10	5,506.73	-910.38	-161.67	1,918,274.53	540,813.60	36.2719866	-107.6948768
5,871.00	79.51	122.36	5,521.37	-944.50	-109.57	1,918,240.48	540,865.74	36.2718929	-107.6947001
5,934.00	85.52	122.90	5,529.57	-978.17	-57.00	1,918,206.89	540,918.37	36.2718004	-107.6945217
5,966.00	88.22	123.95	5,531.32	-995.77	-30.33	1,918,189.33	540,945.06	36.2717520	-107.6944313
Last SDI Curve MWD Survey									
6,014.00	88.80	124.77	5,532.57	-1,022.85	9.28	1,918,162.31	540,984.71	36.2716776	-107.6942969
7" Casing @ 6014' MD - 36.2716783 / -107.6942963									
6,038.00	89.09	125.18	5,533.01	-1,036.61	28.94	1,918,148.58	541,004.39	36.2716398	-107.6942302
First SDI Production MWD Survey									
6,078.00	89.09	124.49	5,533.65	-1,059.45	61.77	1,918,125.78	541,037.25	36.2715771	-107.6941188
6,141.00	89.13	124.46	5,534.63	-1,095.11	113.70	1,918,090.20	541,089.23	36.2714791	-107.6939427
6,201.00	89.30	124.66	5,535.45	-1,129.14	163.11	1,918,056.24	541,138.69	36.2713856	-107.6937751
6,262.00	89.70	124.69	5,535.98	-1,163.84	213.27	1,918,021.61	541,188.90	36.2712903	-107.6936049
6,322.00	89.66	124.79	5,536.32	-1,198.03	262.57	1,917,987.49	541,238.26	36.2711964	-107.6934376

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #113H - Slot A4
Project:	T24N R8W	TVD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #113H	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
6,383.00	90.07	124.27	5,536.46	-1,232.61	312.83	1,917,952.98	541,288.56	36.2711014	-107.6932672
6,444.00	89.87	124.46	5,536.49	-1,267.04	363.18	1,917,918.62	541,338.96	36.2710068	-107.6930963
6,505.00	90.27	124.08	5,536.42	-1,301.39	413.59	1,917,884.35	541,389.42	36.2709124	-107.6929253
6,565.00	90.40	122.53	5,536.07	-1,334.34	463.73	1,917,851.47	541,439.61	36.2708219	-107.6927552
6,625.00	90.87	123.18	5,535.40	-1,366.88	514.13	1,917,819.00	541,490.06	36.2707325	-107.6925843
6,686.00	90.71	123.17	5,534.56	-1,400.26	565.18	1,917,785.70	541,541.16	36.2706408	-107.6924111
6,748.00	89.93	122.68	5,534.21	-1,433.96	617.22	1,917,752.07	541,593.24	36.2705482	-107.6922345
6,808.00	90.47	123.34	5,534.00	-1,466.65	667.54	1,917,719.46	541,643.61	36.2704584	-107.6920639
6,869.00	90.74	123.27	5,533.36	-1,500.14	718.52	1,917,686.04	541,694.63	36.2703664	-107.6918909
6,929.00	90.20	123.72	5,532.87	-1,533.25	768.55	1,917,653.00	541,744.71	36.2702755	-107.6917212
6,990.00	90.34	123.54	5,532.58	-1,567.03	819.34	1,917,619.29	541,795.55	36.2701827	-107.6915489
7,051.00	89.90	124.06	5,532.45	-1,600.97	870.03	1,917,585.43	541,846.29	36.2700894	-107.6913770
7,111.00	90.13	123.83	5,532.44	-1,634.47	919.81	1,917,552.00	541,896.11	36.2699974	-107.6912081
7,172.00	90.48	123.99	5,532.11	-1,668.50	970.43	1,917,518.04	541,946.79	36.2699039	-107.6910364
7,233.00	90.24	124.33	5,531.73	-1,702.75	1,020.90	1,917,483.86	541,997.31	36.2698098	-107.6908652
7,294.00	90.13	123.57	5,531.53	-1,736.82	1,071.50	1,917,449.87	542,047.96	36.2697162	-107.6906935
7,354.00	90.03	122.98	5,531.45	-1,769.74	1,121.67	1,917,417.02	542,098.17	36.2696258	-107.6905233
7,415.00	90.24	122.40	5,531.30	-1,802.68	1,173.00	1,917,384.15	542,149.55	36.2695353	-107.6903492
7,476.00	90.07	122.68	5,531.14	-1,835.49	1,224.43	1,917,351.41	542,201.02	36.2694451	-107.6901748
7,537.00	89.70	122.51	5,531.26	-1,868.35	1,275.82	1,917,318.62	542,252.46	36.2693548	-107.6900004
7,598.00	90.24	122.65	5,531.29	-1,901.20	1,327.22	1,917,285.85	542,303.91	36.2692646	-107.6898261
7,659.00	90.10	121.89	5,531.11	-1,933.77	1,378.80	1,917,253.36	542,355.54	36.2691751	-107.6896511
7,720.00	90.03	122.08	5,531.04	-1,966.08	1,430.54	1,917,221.12	542,407.32	36.2690864	-107.6894756
7,781.00	90.44	122.29	5,530.79	-1,998.57	1,482.16	1,917,188.70	542,458.99	36.2689971	-107.6893005
7,843.00	90.24	121.86	5,530.43	-2,031.49	1,534.70	1,917,155.85	542,511.58	36.2689066	-107.6891223
7,904.00	90.13	121.09	5,530.23	-2,063.34	1,586.72	1,917,124.08	542,563.65	36.2688191	-107.6889458
7,965.00	91.04	121.41	5,529.61	-2,094.99	1,638.87	1,917,092.51	542,615.84	36.2687322	-107.6887689
8,028.00	89.76	120.63	5,529.17	-2,127.45	1,692.86	1,917,060.12	542,669.87	36.2686430	-107.6885858
8,092.00	90.10	120.93	5,529.24	-2,160.20	1,747.84	1,917,027.45	542,724.90	36.2685530	-107.6883993
8,155.00	89.97	120.44	5,529.21	-2,192.35	1,802.02	1,916,995.38	542,779.13	36.2684647	-107.6882155
8,219.00	90.27	120.58	5,529.07	-2,224.84	1,857.16	1,916,962.97	542,834.31	36.2683754	-107.6880284
8,283.00	90.74	122.64	5,528.51	-2,258.39	1,911.66	1,916,929.50	542,888.86	36.2682833	-107.6878436
8,346.00	90.20	124.56	5,527.99	-2,293.25	1,964.13	1,916,894.72	542,941.38	36.2681875	-107.6876656
8,409.00	90.81	124.48	5,527.44	-2,328.95	2,016.03	1,916,859.09	542,993.34	36.2680894	-107.6874895
8,473.00	90.71	125.57	5,526.59	-2,365.68	2,068.44	1,916,822.44	543,045.79	36.2679885	-107.6873118
8,536.00	89.46	125.18	5,526.49	-2,402.15	2,119.80	1,916,786.04	543,097.21	36.2678883	-107.6871375
8,600.00	90.03	124.87	5,526.78	-2,438.88	2,172.21	1,916,749.39	543,149.67	36.2677874	-107.6869597
8,663.00	89.87	125.59	5,526.83	-2,475.22	2,223.67	1,916,713.12	543,201.19	36.2676875	-107.6867852
8,727.00	88.56	125.70	5,527.71	-2,512.51	2,275.68	1,916,675.90	543,253.24	36.2675851	-107.6866088
8,790.00	88.79	125.41	5,529.17	-2,549.14	2,326.92	1,916,639.35	543,304.54	36.2674845	-107.6864350
8,853.00	89.56	124.88	5,530.07	-2,585.40	2,378.43	1,916,603.16	543,356.10	36.2673848	-107.6862603
8,916.00	90.00	124.64	5,530.32	-2,621.32	2,430.18	1,916,567.32	543,407.91	36.2672861	-107.6860847
8,980.00	90.40	123.26	5,530.09	-2,657.06	2,483.27	1,916,531.65	543,461.05	36.2671879	-107.6859046
9,043.00	89.93	123.12	5,529.91	-2,691.54	2,535.99	1,916,497.24	543,513.82	36.2670932	-107.6857258
9,106.00	90.64	123.25	5,529.60	-2,726.03	2,588.72	1,916,462.84	543,566.59	36.2669985	-107.6855470
9,170.00	90.60	123.87	5,528.90	-2,761.40	2,642.05	1,916,427.53	543,619.97	36.2669013	-107.6853661
9,233.00	90.57	123.38	5,528.26	-2,796.29	2,694.50	1,916,392.73	543,672.48	36.2668054	-107.6851881
9,296.00	91.04	123.07	5,527.38	-2,830.80	2,747.20	1,916,358.29	543,725.22	36.2667106	-107.6850094
9,359.00	90.54	123.10	5,526.51	-2,865.19	2,799.98	1,916,323.97	543,778.05	36.2666161	-107.6848304
9,423.00	89.50	121.97	5,526.49	-2,899.61	2,853.93	1,916,289.63	543,832.05	36.2665215	-107.6846474
9,486.00	90.13	121.56	5,526.69	-2,932.78	2,907.50	1,916,256.54	543,885.66	36.2664304	-107.6844657
9,549.00	89.50	121.04	5,526.89	-2,965.50	2,961.33	1,916,223.89	543,939.54	36.2663405	-107.6842831
9,613.00	88.32	121.05	5,528.11	-2,998.50	3,016.15	1,916,190.97	543,994.41	36.2662498	-107.6840971

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #113H - Slot A4
Project:	T24N R8W	TVD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Site:	Chaco 2408-33D	MD Reference:	GL 7020' MD & RKB 14' @ 7034.00usft (Aztec 920)
Well:	MC 5 COM #113H	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
9,676.00	87.55	120.94	5,530.38	-3,030.93	3,070.12	1,916,158.63	544,048.43	36.2661607	-107.6839141
9,739.00	89.43	120.94	5,532.04	-3,063.30	3,124.13	1,916,126.33	544,102.49	36.2660718	-107.6837309
9,803.00	89.70	120.96	5,532.53	-3,096.22	3,179.02	1,916,093.49	544,157.42	36.2659813	-107.6835447
9,865.00	90.04	121.71	5,532.67	-3,128.46	3,231.97	1,916,061.33	544,210.42	36.2658927	-107.6833651
9,929.00	90.04	121.88	5,532.62	-3,162.18	3,286.37	1,916,027.68	544,264.87	36.2658001	-107.6831806
9,992.00	89.52	121.62	5,532.86	-3,195.33	3,339.94	1,915,994.61	544,318.49	36.2657090	-107.6829989
10,056.00	89.90	121.80	5,533.19	-3,228.97	3,394.39	1,915,961.05	544,372.98	36.2656166	-107.6828142
10,119.00	90.10	121.38	5,533.19	-3,261.97	3,448.05	1,915,928.12	544,426.69	36.2655259	-107.6826322
10,183.00	89.87	121.36	5,533.20	-3,295.29	3,502.69	1,915,894.89	544,481.38	36.2654344	-107.6824468
10,246.00	89.87	122.59	5,533.35	-3,328.65	3,556.13	1,915,861.60	544,534.87	36.2653427	-107.6822656
10,310.00	90.20	122.32	5,533.31	-3,362.99	3,610.14	1,915,827.34	544,588.92	36.2652483	-107.6820824
10,374.00	90.04	122.94	5,533.17	-3,397.50	3,664.04	1,915,792.90	544,642.87	36.2651535	-107.6818996
10,437.00	90.04	123.64	5,533.13	-3,432.08	3,716.70	1,915,758.40	544,695.58	36.2650585	-107.6817209
10,501.00	90.34	123.46	5,532.92	-3,467.45	3,770.04	1,915,723.11	544,748.97	36.2649613	-107.6815400
10,565.00	90.34	123.85	5,532.54	-3,502.92	3,823.31	1,915,687.72	544,802.29	36.2648638	-107.6813593
10,628.00	91.54	123.82	5,531.50	-3,537.99	3,875.63	1,915,652.72	544,854.67	36.2647675	-107.6811819
10,692.00	90.03	124.59	5,530.63	-3,573.97	3,928.55	1,915,616.82	544,907.64	36.2646686	-107.6810024
10,755.00	89.16	124.22	5,531.07	-3,609.56	3,980.53	1,915,581.30	544,959.67	36.2645708	-107.6808261
10,810.00	90.22	124.26	5,531.37	-3,640.51	4,026.00	1,915,550.42	545,005.18	36.2644858	-107.6806719
Last SDI Production MWD Survey									
10,811.00	90.22	124.26	5,531.37	-3,641.07	4,026.82	1,915,549.86	545,006.01	36.2644842	-107.6806691
RSI @ 10,811' MD - 36.2644843, -107.6806690									
10,878.00	90.22	124.26	5,531.11	-3,678.79	4,082.20	1,915,512.22	545,061.44	36.2643806	-107.6804812
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
451.00	450.99	1.95	-1.87	First SDI Surface MWD Survey
4,890.00	4,814.02	-584.88	-534.49	Last SDI Surface MWD Survey
4,921.00	4,844.78	-588.38	-536.08	First SDI Curve MWD Survey
5,966.00	5,531.32	-995.77	-30.33	Last SDI Curve MWD Survey
6,014.00	5,532.57	-1,022.85	9.28	7" Casing @ 6014' MD
6,014.00	5,532.57	-1,022.85	9.28	36.2716783 / -107.6942963
6,038.00	5,533.01	-1,036.61	28.94	First SDI Production MWD Survey
10,810.00	5,531.37	-3,640.51	4,026.00	Last SDI Production MWD Survey
10,811.00	5,531.37	-3,641.07	4,026.82	RSI @ 10,811' MD
10,811.00	5,531.37	-3,641.07	4,026.82	36.2644843, -107.6806690
10,878.00	5,531.11	-3,678.79	4,082.20	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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