

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 Plat

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31312		*Pool Code 98181	*Pool Name MC 6 COM; MANCOS
*Property Code 315094	*Property Name MC 6 COM		*Well Number 160H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6806'

¹⁰ Surface Location

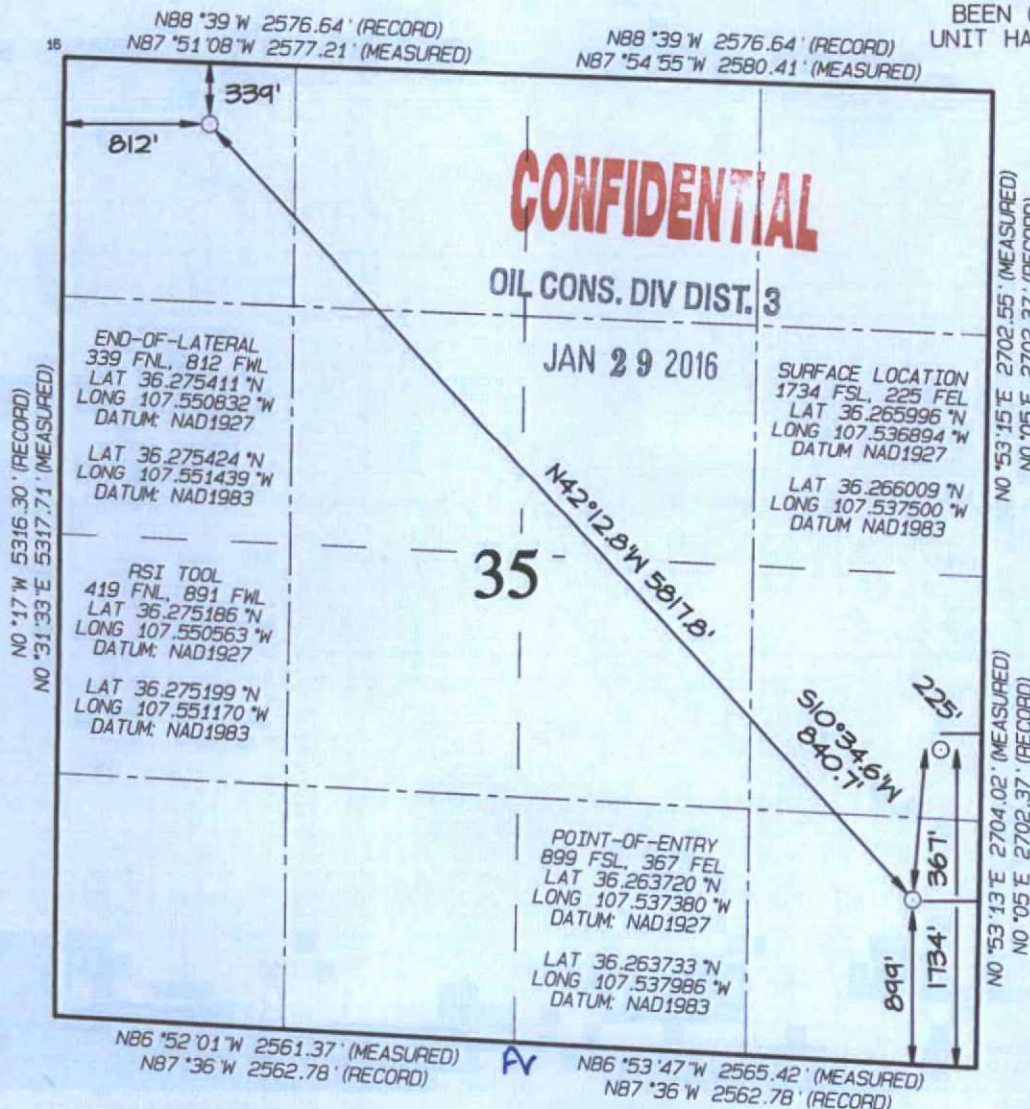
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	35	24N	7W		1734	SOUTH	225	EAST	RIO ARriba

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
D	35	24N	7W		339	NORTH	812	WEST	RIO ARriba

*Dedicated Acres 640.0	Entire Section 35	*Joint or Infill	*Consolidation Code	*Order No. R-14092
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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 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 [Signature] 1/28/16
Date
Printed Name Marie E. Jaramillo
E-mail Address marie.jaramillo@wpenergy.com

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: JANUARY 28, 2016
Survey Date: SEPTEMBER 3, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



WPX Energy

T24N R7W

Chaco 2407-35I

MC 6 COM #160H - Slot A3

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

20 January, 2016

CONFIDENTIAL



www.scientificdrilling.com



Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 6 COM #160H - Slot A3
Project:	T24N R7W	TVD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Site:	Chaco 2407-35I	MD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Well:	MC 6 COM #160H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

CONFIDENTIAL

Project	T24N R7W			OIL CONS. DIV DIST. 3
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level	JAN 29 2016
Geo Datum:	NAD 1927 (NADCON CONUS)			
Map Zone:	New Mexico West 3003			

Site	Chaco 2407-35I				
Site Position:		Northing:	1,916,198.41 usft	Latitude:	36.2659960
From:	Lat/Long	Easting:	587,389.82 usft	Longitude:	-107.5368940
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.18 °

Well	MC 6 COM #160H - Slot A3					
Well Position	+N/-S	0.00 usft	Northing:	1,916,198.41 usft	Latitude:	36.2659960
	+E/-W	0.00 usft	Easting:	587,389.82 usft	Longitude:	-107.5368940
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,806.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/4/2016	8.98	62.97	49,803

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	309.84	

Survey Program	Date 1/20/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
55.00	313.00	Survey #1 (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
389.00	4,772.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD	SDI MWD - Standard ver 1.0.1
4,817.00	5,995.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1
6,040.00	11,785.00	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,916,198.41	587,389.82	36.2659960	-107.5368940
55.00	0.35	268.77	55.00	0.00	-0.17	1,916,198.41	587,389.66	36.2659960	-107.5368946
85.00	0.32	311.85	85.00	0.05	-0.32	1,916,198.46	587,389.50	36.2659961	-107.5368951
115.00	0.24	318.41	115.00	0.15	-0.43	1,916,198.56	587,389.40	36.2659964	-107.5368955
145.00	0.37	312.58	145.00	0.27	-0.54	1,916,198.68	587,389.28	36.2659967	-107.5368959
175.00	0.30	345.21	175.00	0.41	-0.63	1,916,198.82	587,389.19	36.2659971	-107.5368962
205.00	0.40	32.36	205.00	0.57	-0.59	1,916,198.98	587,389.23	36.2659976	-107.5368961
235.00	0.54	21.26	235.00	0.79	-0.49	1,916,199.20	587,389.33	36.2659982	-107.5368957
265.00	0.58	55.00	265.00	1.01	-0.31	1,916,199.42	587,389.51	36.2659988	-107.5368951

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 6 COM #160H - Slot A3
Project:	T24N R7W	TVD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Site:	Chaco 2407-35I	MD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Well:	MC 6 COM #160H	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
295.00	0.67	70.38	294.99	1.16	-0.02	1,916,199.57	587,389.80	36.2659992	-107.5368941
313.00	0.82	77.86	312.99	1.22	0.20	1,916,199.63	587,390.02	36.2659993	-107.5368934
389.00	1.21	80.78	388.98	1.46	1.53	1,916,199.88	587,391.35	36.2660000	-107.5368889
First SDI Surface MWD Survey									
452.00	1.31	114.13	451.97	1.27	2.84	1,916,199.70	587,392.66	36.2659995	-107.5368844
542.00	2.90	163.29	541.91	-1.33	4.43	1,916,197.10	587,394.26	36.2659923	-107.5368790
633.00	3.90	169.93	632.75	-6.58	5.64	1,916,191.85	587,395.48	36.2659779	-107.5368749
725.00	6.46	164.21	724.36	-14.64	7.59	1,916,183.79	587,397.46	36.2659558	-107.5368683
816.00	7.63	169.86	814.68	-25.51	10.05	1,916,172.93	587,399.95	36.2659259	-107.5368600
907.00	9.48	165.95	904.66	-38.73	12.93	1,916,159.72	587,402.87	36.2658896	-107.5368502
998.00	9.28	165.71	994.44	-53.11	16.56	1,916,145.35	587,406.55	36.2658501	-107.5368379
1,089.00	11.60	171.07	1,083.93	-69.26	19.80	1,916,129.21	587,409.83	36.2658057	-107.5368269
1,180.00	11.70	170.74	1,173.06	-87.41	22.70	1,916,111.07	587,412.79	36.2657559	-107.5368170
1,271.00	13.84	168.71	1,261.80	-107.19	26.32	1,916,091.30	587,416.47	36.2657015	-107.5368048
1,361.00	16.26	167.19	1,348.71	-130.04	31.22	1,916,068.47	587,421.44	36.2656388	-107.5367882
1,452.00	17.14	162.99	1,435.87	-155.28	37.97	1,916,043.25	587,428.26	36.2655694	-107.5367653
1,542.00	19.05	160.37	1,521.42	-181.80	46.78	1,916,016.75	587,437.16	36.2654965	-107.5367354
1,634.00	21.10	158.97	1,607.83	-211.40	57.77	1,915,987.19	587,448.24	36.2654152	-107.5366981
1,725.00	21.15	157.54	1,692.71	-241.86	69.92	1,915,956.76	587,460.48	36.2653316	-107.5366569
1,815.00	21.19	154.68	1,776.64	-271.57	83.08	1,915,927.09	587,473.73	36.2652499	-107.5366122
1,906.00	20.73	160.69	1,861.63	-301.64	95.44	1,915,897.06	587,486.18	36.2651673	-107.5365703
1,997.00	22.39	162.30	1,946.26	-333.36	106.03	1,915,865.38	587,496.88	36.2650802	-107.5365344
2,087.00	22.76	162.24	2,029.36	-366.27	116.56	1,915,832.51	587,507.50	36.2649898	-107.5364987
2,178.00	22.82	161.88	2,113.26	-399.80	127.41	1,915,799.00	587,518.46	36.2648977	-107.5364618
2,269.00	22.03	160.32	2,197.38	-432.64	138.65	1,915,766.20	587,529.80	36.2648075	-107.5364237
2,359.00	21.40	166.25	2,281.00	-464.49	148.24	1,915,734.38	587,539.48	36.2647200	-107.5363912
2,451.00	20.36	164.87	2,366.96	-496.24	156.41	1,915,702.65	587,547.75	36.2646327	-107.5363635
2,541.00	20.85	163.92	2,451.20	-526.75	164.93	1,915,672.17	587,556.36	36.2645489	-107.5363346
2,631.00	20.08	163.13	2,535.52	-556.92	173.85	1,915,642.03	587,565.38	36.2644661	-107.5363043
2,722.00	20.94	165.63	2,620.75	-587.62	182.42	1,915,611.35	587,574.04	36.2643817	-107.5362753
2,813.00	22.00	166.49	2,705.44	-619.95	190.44	1,915,579.05	587,582.16	36.2642929	-107.5362481
2,904.00	24.16	166.70	2,789.15	-654.65	198.70	1,915,544.37	587,590.53	36.2641976	-107.5362200
2,995.00	24.13	166.85	2,872.19	-690.89	207.22	1,915,508.16	587,599.16	36.2640980	-107.5361912
3,086.00	24.50	167.12	2,955.12	-727.39	215.66	1,915,471.68	587,607.70	36.2639977	-107.5361625
3,177.00	24.75	165.01	3,037.84	-764.19	224.79	1,915,434.91	587,616.95	36.2638967	-107.5361316
3,268.00	24.41	164.90	3,120.59	-800.74	234.61	1,915,398.39	587,626.89	36.2637962	-107.5360982
3,359.00	24.39	160.89	3,203.47	-836.66	245.67	1,915,362.51	587,638.05	36.2636976	-107.5360607
3,451.00	24.45	161.03	3,287.24	-872.61	258.07	1,915,326.60	587,650.57	36.2635988	-107.5360187
3,542.00	24.65	159.27	3,370.02	-908.17	270.91	1,915,291.08	587,663.51	36.2635011	-107.5359751
3,633.00	24.45	160.59	3,452.79	-943.68	283.89	1,915,255.61	587,676.60	36.2634036	-107.5359311
3,724.00	24.10	160.60	3,535.74	-978.96	296.32	1,915,220.36	587,689.14	36.2633066	-107.5358889
3,815.00	23.15	157.82	3,619.12	-1,013.05	309.24	1,915,186.31	587,702.17	36.2632130	-107.5358451
3,906.00	22.62	156.58	3,702.96	-1,045.68	322.95	1,915,153.73	587,715.97	36.2631234	-107.5357986
3,997.00	22.42	160.95	3,787.02	-1,078.14	335.57	1,915,121.30	587,728.69	36.2630342	-107.5357558
4,088.00	22.42	161.22	3,871.14	-1,110.97	346.82	1,915,088.51	587,740.04	36.2629440	-107.5357176
4,179.00	22.05	158.56	3,955.38	-1,143.30	358.65	1,915,056.21	587,751.97	36.2628552	-107.5356775
4,271.00	21.09	162.69	4,040.94	-1,175.18	369.89	1,915,024.37	587,763.31	36.2627676	-107.5356394
4,362.00	20.13	163.50	4,126.12	-1,205.83	379.21	1,914,993.75	587,772.72	36.2626834	-107.5356078
4,453.00	20.27	163.66	4,211.52	-1,235.97	388.09	1,914,963.64	587,781.70	36.2626006	-107.5355776
4,499.00	20.65	165.04	4,254.62	-1,251.45	392.43	1,914,948.17	587,786.08	36.2625581	-107.5355629
4,544.00	20.22	167.38	4,296.79	-1,266.71	396.18	1,914,932.92	587,789.87	36.2625162	-107.5355502
4,590.00	17.75	167.93	4,340.28	-1,281.32	399.38	1,914,918.32	587,793.12	36.2624760	-107.5355394
4,635.00	13.75	173.75	4,383.58	-1,293.35	401.40	1,914,906.29	587,795.18	36.2624430	-107.5355325
4,681.00	10.49	182.06	4,428.56	-1,302.98	401.84	1,914,896.67	587,795.65	36.2624165	-107.5355310
4,726.00	7.33	190.46	4,473.01	-1,309.89	401.17	1,914,889.75	587,795.00	36.2623975	-107.5355333

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 6 COM #160H - Slot A3
Project:	T24N R7W	TVD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Site:	Chaco 2407-35I	MD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Well:	MC 6 COM #160H	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
4,772.00	6.32	213.09	4,518.69	-1,314.90	399.26	1,914,884.74	587,793.10	36.2623838	-107.5355398
Last SDI Surface MWD Survey									
4,817.00	6.70	240.23	4,563.41	-1,318.28	395.63	1,914,881.35	587,789.48	36.2623745	-107.5355521
First SDI Curve MWD Survey									
4,862.00	8.00	264.34	4,608.05	-1,319.89	390.23	1,914,879.72	587,784.09	36.2623701	-107.5355704
4,908.00	9.10	279.81	4,653.55	-1,319.59	383.46	1,914,880.00	587,777.32	36.2623709	-107.5355934
4,953.00	12.05	289.35	4,697.78	-1,317.43	375.52	1,914,882.14	587,769.37	36.2623768	-107.5356203
4,999.00	13.90	296.78	4,742.61	-1,313.35	366.05	1,914,886.19	587,759.90	36.2623881	-107.5356524
5,044.00	16.42	299.67	4,786.04	-1,307.76	355.70	1,914,891.75	587,749.52	36.2624034	-107.5356875
5,090.00	19.20	302.07	4,829.83	-1,300.53	343.64	1,914,898.95	587,737.44	36.2624233	-107.5357284
5,135.00	23.57	305.53	4,871.72	-1,291.36	330.04	1,914,908.07	587,723.81	36.2624484	-107.5357746
5,181.00	27.43	309.47	4,913.24	-1,279.28	314.37	1,914,920.10	587,708.11	36.2624816	-107.5358277
5,227.00	31.74	311.34	4,953.23	-1,264.54	297.10	1,914,934.78	587,690.79	36.2625221	-107.5358863
5,272.00	35.80	311.11	4,990.63	-1,248.06	278.29	1,914,951.21	587,671.93	36.2625674	-107.5359501
5,318.00	39.56	312.12	5,027.03	-1,229.39	257.28	1,914,969.82	587,650.86	36.2626187	-107.5360214
5,363.00	43.72	313.16	5,060.65	-1,209.13	235.29	1,914,990.01	587,628.82	36.2626744	-107.5360959
5,409.00	48.08	314.06	5,092.66	-1,186.34	211.39	1,915,012.72	587,604.84	36.2627370	-107.5361770
5,454.00	50.48	314.11	5,122.01	-1,162.62	186.89	1,915,036.37	587,580.27	36.2628021	-107.5362601
5,500.00	53.75	313.67	5,150.26	-1,137.45	160.73	1,915,061.46	587,554.03	36.2628713	-107.5363489
5,545.00	58.12	313.26	5,175.46	-1,111.82	133.68	1,915,087.01	587,526.90	36.2629417	-107.5364406
5,591.00	59.79	313.08	5,199.18	-1,084.86	104.93	1,915,113.88	587,498.08	36.2630158	-107.5365381
5,637.00	62.01	313.85	5,221.55	-1,057.21	75.77	1,915,141.44	587,468.82	36.2630917	-107.5366370
5,682.00	66.30	315.28	5,241.16	-1,028.79	46.93	1,915,169.77	587,439.90	36.2631698	-107.5367349
5,728.00	69.92	315.60	5,258.31	-998.38	16.98	1,915,200.09	587,409.86	36.2632533	-107.5368364
5,773.00	74.26	316.16	5,272.14	-967.65	-12.82	1,915,230.73	587,379.97	36.2633377	-107.5369375
5,819.00	78.54	316.61	5,282.96	-935.28	-43.65	1,915,263.00	587,349.04	36.2634266	-107.5370421
5,865.00	82.89	317.52	5,290.38	-902.05	-74.56	1,915,296.14	587,318.02	36.2635179	-107.5371470
5,911.00	86.00	317.09	5,294.83	-868.41	-105.61	1,915,329.69	587,286.88	36.2636104	-107.5372523
5,966.00	88.95	316.53	5,297.26	-828.35	-143.21	1,915,369.63	587,249.15	36.2637204	-107.5373798
36.2637204, -107.5373798 - 7" Casing @ 5966' MD									
5,995.00	90.50	316.23	5,297.40	-807.36	-163.22	1,915,390.56	587,229.08	36.2637781	-107.5374477
Last SDI Curve MWD Survey									
6,040.00	89.60	315.42	5,297.36	-775.09	-194.57	1,915,422.73	587,197.62	36.2638667	-107.5375540
First SDI Lateral MWD Survey									
6,131.00	89.33	311.55	5,298.21	-712.48	-260.58	1,915,485.14	587,131.42	36.2640387	-107.5377780
6,222.00	93.09	314.30	5,296.29	-650.54	-327.19	1,915,546.88	587,064.63	36.2642089	-107.5380039
6,313.00	93.39	316.88	5,291.14	-585.64	-390.76	1,915,611.58	587,000.86	36.2643872	-107.5382195
6,404.00	90.54	319.09	5,288.02	-518.08	-451.62	1,915,678.95	586,939.79	36.2645727	-107.5384260
6,495.00	89.43	319.39	5,288.04	-449.15	-511.03	1,915,747.70	586,880.17	36.2647621	-107.5386275
6,586.00	89.60	319.05	5,288.81	-380.25	-570.47	1,915,816.42	586,820.52	36.2649514	-107.5388291
6,677.00	90.27	317.76	5,288.92	-312.19	-630.88	1,915,884.29	586,759.90	36.2651383	-107.5390340
6,768.00	90.07	316.54	5,288.65	-245.48	-692.76	1,915,950.81	586,697.81	36.2653216	-107.5392440
6,859.00	90.23	315.17	5,288.41	-180.18	-756.14	1,916,015.92	586,634.24	36.2655010	-107.5394590
6,949.00	90.20	315.48	5,288.07	-116.18	-819.42	1,916,079.72	586,570.76	36.2656768	-107.5396736
7,040.00	90.77	316.92	5,287.30	-50.51	-882.40	1,916,145.20	586,507.58	36.2658572	-107.5398873
7,131.00	90.17	316.84	5,286.56	15.91	-944.60	1,916,211.43	586,445.18	36.2660397	-107.5400982
7,222.00	89.70	317.85	5,286.66	82.84	-1,006.26	1,916,278.17	586,383.32	36.2662235	-107.5403074
7,313.00	90.37	317.62	5,286.60	150.18	-1,067.46	1,916,345.33	586,321.91	36.2664085	-107.5405150
7,403.00	90.27	316.62	5,286.10	216.13	-1,128.70	1,916,411.09	586,260.47	36.2665897	-107.5407228
7,494.00	90.67	317.23	5,285.35	282.60	-1,190.85	1,916,477.36	586,198.12	36.2667722	-107.5409336
7,585.00	90.27	315.95	5,284.61	348.70	-1,253.38	1,916,543.28	586,135.38	36.2669538	-107.5411457
7,675.00	89.93	316.24	5,284.45	413.55	-1,315.79	1,916,607.93	586,072.77	36.2671320	-107.5413574
7,767.00	90.27	317.31	5,284.29	480.58	-1,378.80	1,916,674.77	586,009.56	36.2673161	-107.5415712
7,857.00	89.23	318.08	5,284.68	547.14	-1,439.37	1,916,741.15	585,948.78	36.2674989	-107.5417767

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 6 COM #160H - Slot A3
Project:	T24N R7W	TVD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Site:	Chaco 2407-351	MD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Well:	MC 6 COM #160H	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
7,947.00	89.23	316.50	5,285.89	613.27	-1,500.41	1,916,807.08	585,887.54	36.2676806	-107.5419837
8,039.00	91.10	318.62	5,285.63	681.15	-1,562.49	1,916,874.78	585,825.26	36.2678671	-107.5421943
8,129.00	89.06	317.15	5,285.50	747.91	-1,622.84	1,916,941.35	585,764.70	36.2680504	-107.5423991
8,218.00	89.50	316.78	5,286.62	812.96	-1,683.57	1,917,006.21	585,703.77	36.2682291	-107.5426051
8,309.00	89.30	317.70	5,287.57	879.77	-1,745.35	1,917,072.83	585,641.79	36.2684127	-107.5428147
8,400.00	89.30	318.00	5,288.68	947.23	-1,806.41	1,917,140.11	585,580.52	36.2685980	-107.5430218
8,491.00	89.70	317.13	5,289.48	1,014.39	-1,867.81	1,917,207.08	585,518.91	36.2687824	-107.5432301
8,582.00	89.40	317.28	5,290.19	1,081.16	-1,929.63	1,917,273.66	585,456.89	36.2689659	-107.5434399
8,673.00	89.03	317.85	5,291.44	1,148.31	-1,991.03	1,917,340.63	585,395.29	36.2691503	-107.5436481
8,765.00	88.93	318.39	5,293.08	1,216.80	-2,052.44	1,917,408.93	585,333.67	36.2693385	-107.5438565
8,856.00	89.33	318.36	5,294.46	1,284.82	-2,112.88	1,917,476.76	585,273.02	36.2695253	-107.5440615
8,947.00	89.26	317.74	5,295.58	1,352.49	-2,173.70	1,917,544.24	585,211.99	36.2697112	-107.5442679
9,038.00	89.30	316.70	5,296.72	1,419.27	-2,235.50	1,917,610.84	585,149.99	36.2698947	-107.5444775
9,129.00	89.83	317.77	5,297.41	1,486.08	-2,297.29	1,917,677.45	585,088.00	36.2700782	-107.5446871
9,220.00	89.66	317.01	5,297.82	1,553.05	-2,358.90	1,917,744.24	585,026.19	36.2702621	-107.5448962
9,311.00	89.97	316.46	5,298.11	1,619.32	-2,421.26	1,917,810.31	584,963.61	36.2704441	-107.5451077
9,402.00	90.50	316.49	5,297.74	1,685.30	-2,483.93	1,917,876.10	584,900.74	36.2706254	-107.5453204
9,494.00	89.16	314.75	5,298.01	1,751.05	-2,548.27	1,917,941.65	584,836.20	36.2708060	-107.5455386
9,585.00	88.66	316.06	5,299.74	1,815.83	-2,612.15	1,918,006.24	584,772.13	36.2709840	-107.5457554
9,675.00	89.03	317.06	5,301.56	1,881.17	-2,674.02	1,918,071.39	584,710.06	36.2711634	-107.5459653
9,767.00	88.32	315.90	5,303.68	1,947.86	-2,737.35	1,918,137.89	584,646.52	36.2713466	-107.5461801
9,858.00	89.16	318.45	5,305.69	2,014.58	-2,799.19	1,918,204.42	584,584.48	36.2715299	-107.5463899
9,949.00	89.63	317.70	5,306.65	2,082.28	-2,859.99	1,918,271.93	584,523.47	36.2717159	-107.5465962
10,040.00	89.46	316.79	5,307.37	2,149.10	-2,921.76	1,918,338.56	584,461.49	36.2718994	-107.5468058
10,131.00	89.23	318.51	5,308.41	2,216.34	-2,983.06	1,918,405.62	584,399.99	36.2720841	-107.5470137
10,222.00	90.13	318.57	5,308.92	2,284.54	-3,043.31	1,918,473.63	584,339.53	36.2722714	-107.5472182
10,313.00	89.19	318.04	5,309.46	2,352.49	-3,103.84	1,918,541.39	584,278.80	36.2724581	-107.5474235
10,404.00	89.06	317.15	5,310.85	2,419.67	-3,165.20	1,918,608.39	584,217.23	36.2726426	-107.5476317
10,495.00	89.20	317.64	5,312.23	2,486.64	-3,226.79	1,918,675.17	584,155.44	36.2728266	-107.5478407
10,586.00	88.96	317.03	5,313.69	2,553.55	-3,288.46	1,918,741.88	584,093.57	36.2730104	-107.5480499
10,678.00	88.89	315.81	5,315.42	2,620.18	-3,351.86	1,918,808.32	584,029.95	36.2731934	-107.5482650
10,768.00	88.96	314.90	5,317.11	2,684.20	-3,415.10	1,918,872.15	583,966.53	36.2733692	-107.5484796
10,859.00	89.29	316.48	5,318.50	2,749.31	-3,478.65	1,918,937.06	583,902.77	36.2735481	-107.5486952
10,950.00	89.26	315.84	5,319.65	2,814.94	-3,541.68	1,919,002.50	583,839.54	36.2737283	-107.5489091
11,041.00	89.13	318.09	5,320.93	2,881.44	-3,603.77	1,919,068.81	583,777.25	36.2739110	-107.5491197
11,132.00	88.66	317.04	5,322.68	2,948.59	-3,665.16	1,919,135.77	583,715.65	36.2740955	-107.5493280
11,223.00	89.23	317.13	5,324.36	3,015.23	-3,727.11	1,919,202.22	583,653.50	36.2742785	-107.5495382
11,314.00	87.92	315.54	5,326.62	3,081.03	-3,789.92	1,919,267.83	583,590.49	36.2744592	-107.5497513
11,405.00	89.96	319.06	5,328.30	3,147.88	-3,851.61	1,919,334.49	583,528.60	36.2746429	-107.5499606
11,496.00	87.21	317.42	5,330.55	3,215.74	-3,912.19	1,919,402.16	583,467.81	36.2748292	-107.5501662
11,587.00	89.23	319.02	5,333.38	3,283.56	-3,972.79	1,919,469.79	583,407.01	36.2750155	-107.5503718
11,671.00	88.48	316.58	5,335.05	3,345.77	-4,029.19	1,919,531.83	583,350.41	36.2751864	-107.5505632
RSI @ 11,671' MD - 36.2751864, -107.5505631									
11,678.00	88.42	316.38	5,335.24	3,350.84	-4,034.01	1,919,536.89	583,345.57	36.2752004	-107.5505795
11,733.00	88.42	315.70	5,336.76	3,390.42	-4,072.18	1,919,576.35	583,307.29	36.2753091	-107.5507090
Last SDI Lateral MWD Survey									
11,785.00	88.42	315.70	5,338.19	3,427.62	-4,108.48	1,919,613.44	583,270.87	36.2754112	-107.5508322
Projection to TD									

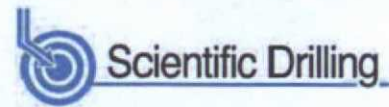
Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 6 COM #160H - Slot A3
Project:	T24N R7W	TVD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Site:	Chaco 2407-351	MD Reference:	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)
Well:	MC 6 COM #160H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
389.00	388.98	1.46	1.53	First SDI Surface MWD Survey
4,772.00	4,518.69	-1,314.90	399.26	Last SDI Surface MWD Survey
4,817.00	4,563.41	-1,318.28	395.63	First SDI Curve MWD Survey
5,966.00	5,297.26	-828.35	-143.21	36.2637204, -107.5373798
5,966.00	5,297.26	-828.35	-143.21	7" Casing @ 5966' MD
5,995.00	5,297.40	-807.36	-163.22	Last SDI Curve MWD Survey
6,040.00	5,297.36	-775.09	-194.57	First SDI Lateral MWD Survey
11,671.00	5,335.05	3,345.77	-4,029.19	RSI @ 11,671' MD
11,671.00	5,335.05	3,345.77	-4,029.19	36.2751864, -107.5505631
11,733.00	5,336.76	3,390.42	-4,072.18	Last SDI Lateral MWD Survey
11,785.00	5,338.19	3,427.62	-4,108.48	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



Company Name: WPX Energy
Project: T24N R7W
Site: Chaco 2407-35I
Well: MC 6 COM #160H

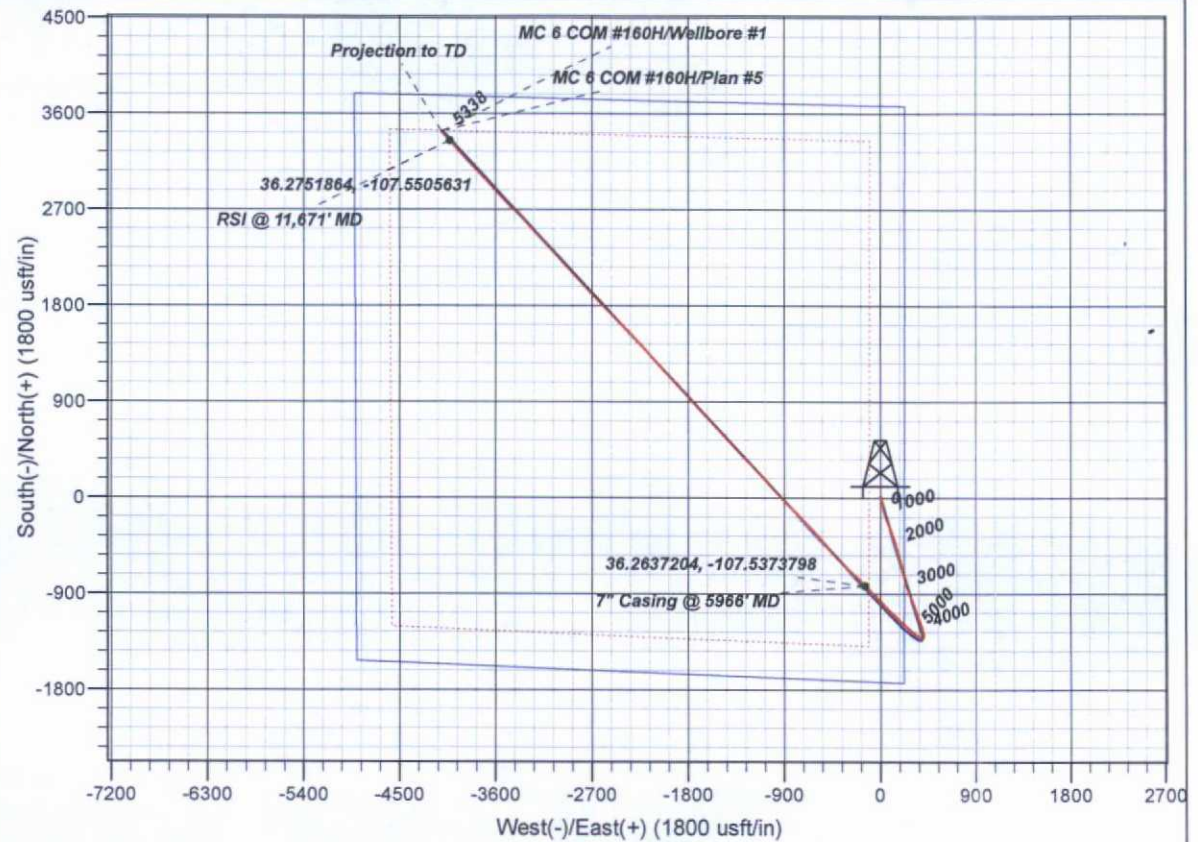
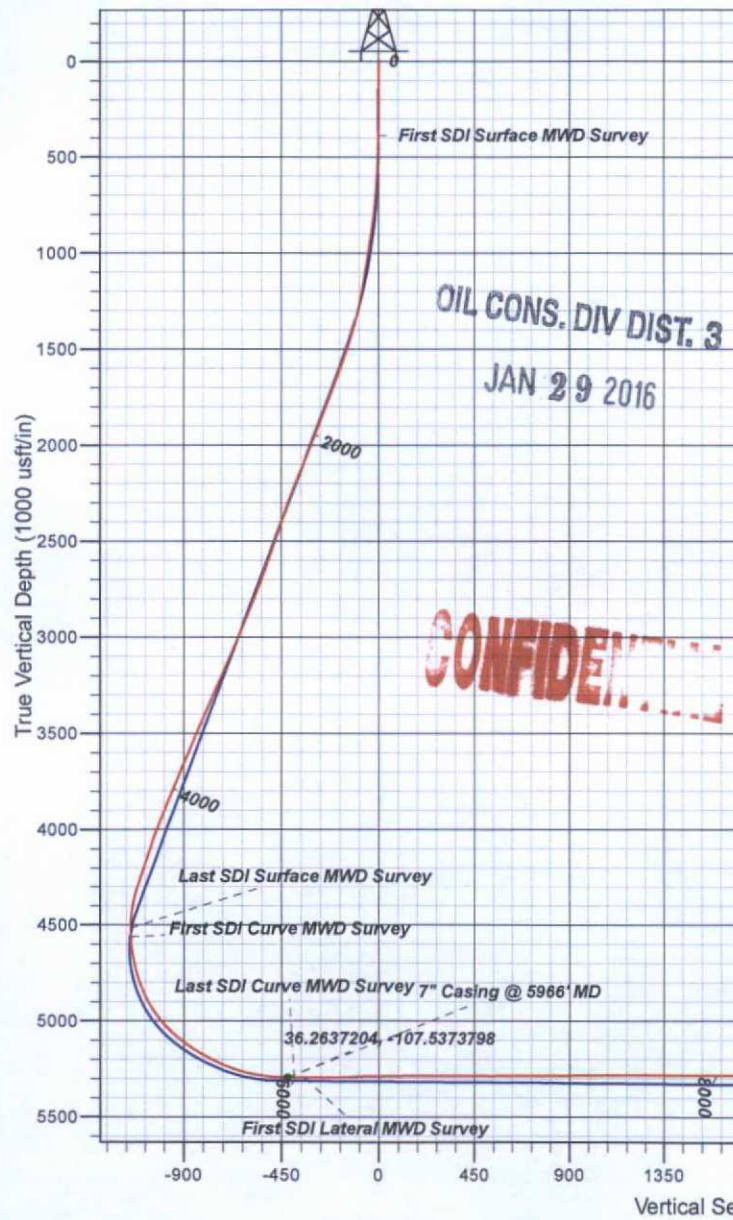


Azimuths to True North
Magnetic North: 8.98°

Magnetic Field
Strength: 49802.9sn1
Dip Angle: 62.97°
Date: 1/4/2016
Model: HDG1v

WELL DETAILS: MC 6 COM #160H

+N/-S	+E/-W	GL 6806' & RKB 11' @ 6831.00usft (Aztec 1000)	6806.00	
		Northing	Easting	Latitude
0.00	0.00	1916198.41	587389.82	36.2659960
				Longitude
				-107.5368940
				A3



Design: Wellbore #1 (MC 6 COM #160H/Wellbore #1)
Created By: Janie Collins Date: 16:17, January 20 2016

PROJECT DETAILS: T24N R7W

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