

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 30-039-31340	*Pool Code 97232 / 42289	*Pool Name BASIN MANCOS / LYBROOK GALLUP
*Property Code 315689	*Property Name MC 8 COM	*Well Number 410H
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 7307'

¹⁰ Surface Location

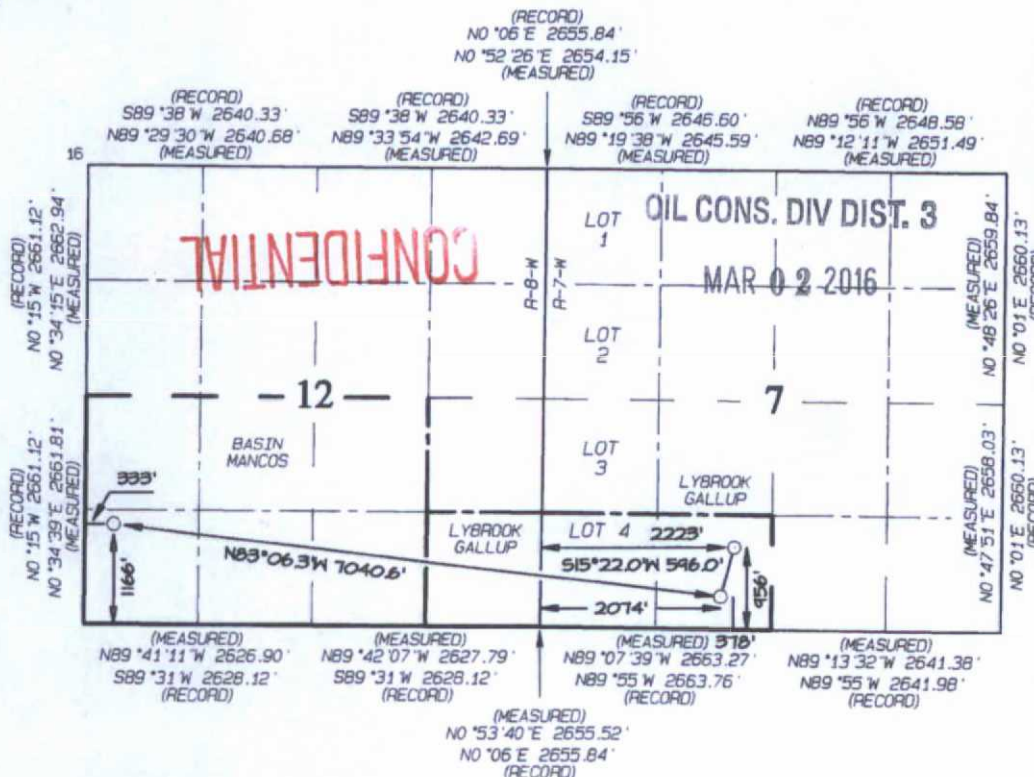
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	7	23N	7W		956	SOUTH	2223	WEST	RIO ARriba

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
M	12	23N	8W		1166	SOUTH	333	WEST	SAN JUAN

¹² Dedicated Acres 360.66 S/2 SW/4 - Sec 7 S/2 (Except NE/4 SE/4) - Sec 12	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14102; NSL, DHC, NSP
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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]* Date: 3/2/16
Printed Name: Lacey Granillo
E-mail Address: lacey.granillo@wpxenergy.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: FEBRUARY 18, 2016
Date of Survey: JUNE 5, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

END-OF-LATERAL
1166' FSL 333' FWL
SECTION 12, T23N, R8W
LAT: 36.237458°N
LONG: 107.640351°W
DATUM: NAD1927
LAT: 36.237471°N
LONG: 107.640961°W
DATUM: NAD1983

RSI TOOL
1151' FSL 455' FWL
SECTION 12, T23N, R8W
LAT: 36.237420°N
LONG: 107.639937°W
DATUM: NAD1927
LAT: 36.237433°N
LONG: 107.640546°W
DATUM: NAD1983

POINT-OF-ENTRY
378' FSL 2074' FWL
SECTION 7, T23N, R7W
LAT: 36.235409°N
LONG: 107.616616°W
DATUM: NAD1927
LAT: 36.235423°N
LONG: 107.617225°W
DATUM: NAD1983

SURFACE LOCATION
956' FSL 2223' FWL
SECTION 7, T23N, R7W
LAT: 36.236994°N
LONG: 107.616108°W
DATUM: NAD1927
LAT: 36.237007°N
LONG: 107.616717°W
DATUM: NAD1983



WPX Energy

T23N R7W

Chaco 2307-07N

MC 8 COM #410H - Slot A1

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

17 February, 2016

CONFIDENTIAL



www.scientificdrilling.com



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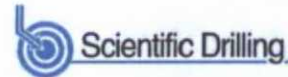


OIL CONS. DIV DIST. 3

MAR 02 2016



Company Name: WPX Energy
 Project: T23N R7W
 Site: Chaco 2307-07N
 Well: MC 8 COM #410H

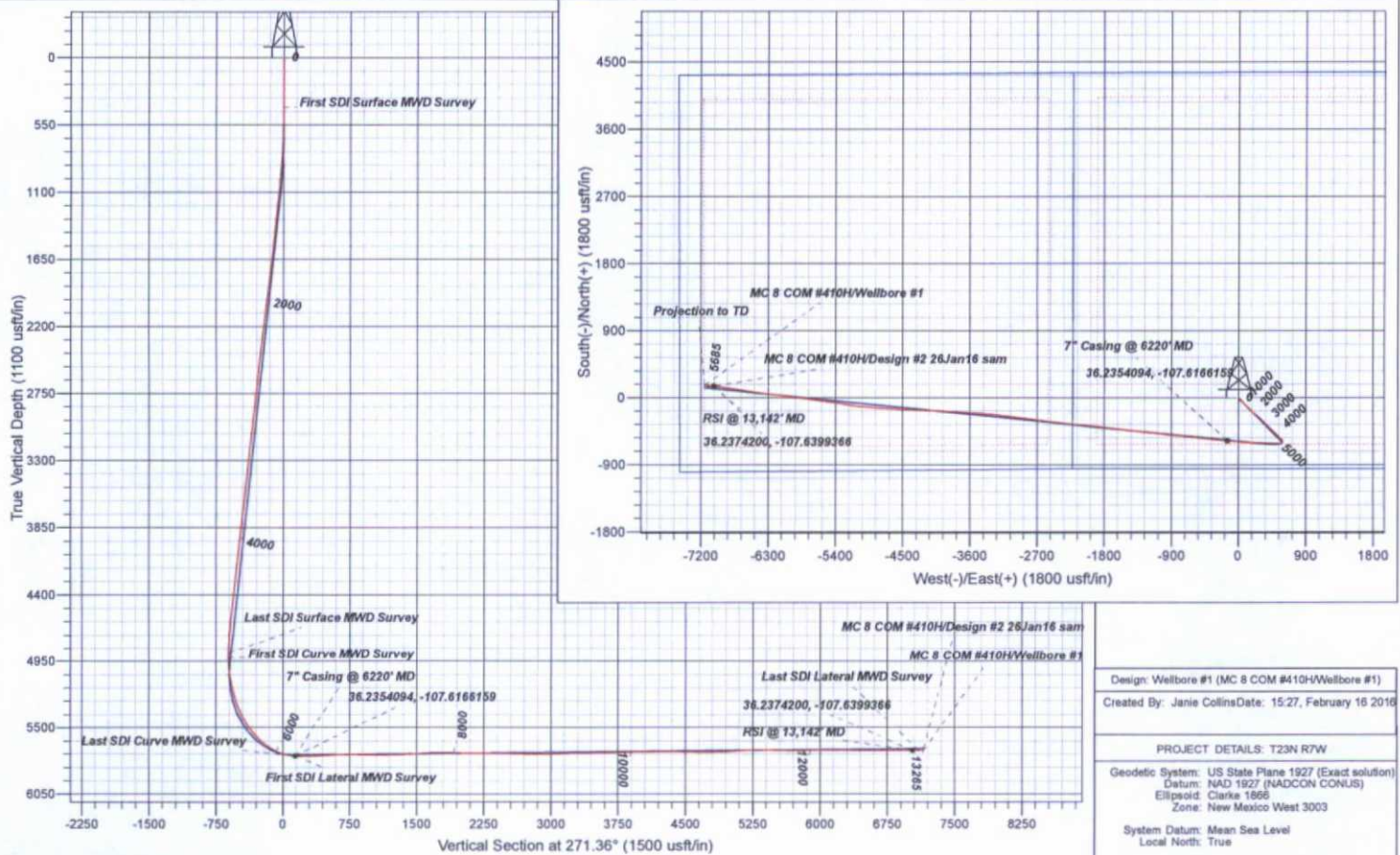


Azimuths to True North
 Magnetic North: 9.05°

Magnetic Field
 Strength: 49789.9nT
 Dip Angle: 62.93°
 Date: 2/1/2016
 Model: HDGM

WELL DETAILS: MC 8 COM #410H

+N/-S	+E/-W	GL 7307' & RKB 25' @ 7332.00usft (Aztec 1000)	7307.00
		Northing	Longitude
0.00	0.00	1905579.33	-107.6161080
		Easting	
		564061.29	
		Latitude	
		36.2369940	
			A1



Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 8 COM #410H - Slot A1
Project:	T23N R7W	TVD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Site:	Chaco 2307-07N	MD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Well:	MC 8 COM #410H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

OIL CONS. DIV DIST. 3

MAR 02 2016

Project	T23N R7W		
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 2307-07N				
Site Position:		Northing:	1,905,594.54 usft	Latitude:	36.2370360
From:	Lat/Long	Easting:	564,024.40 usft	Longitude:	-107.6162330
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.13 °

Well	MC 8 COM #410H - Slot A1					
Well Position	+N/-S	0.00 ft	Northing:	1,905,579.33 usft	Latitude:	36.236994
	+E/-W	0.00 ft	Easting:	564,061.30 usft	Longitude:	-107.616108
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	7,307.01 ft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/1/2016	9.05	62.93	49,790

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	271.36	

Survey Program		Date	2/16/2016		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
55.00	315.00	Surface gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
405.00	4,960.01	Survey #2 - Surface MWD (Wellbore #1)	SDI MWD	SDI MWD - Standard ver 1.0.1	
5,005.01	6,174.01	Survey #3 - Curve MWD (Wellbore #1)	SDI MWD	SDI MWD - Standard ver 1.0.1	
6,243.01	13,265.03	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD	SDI MWD - Standard ver 1.0.1	

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	1,905,579.33	564,061.30	36.2369940	-107.6161080
55.00	0.29	30.00	55.00	0.12	0.07	1,905,579.46	564,061.37	36.2369943	-107.6161078
85.00	0.26	60.00	85.00	0.22	0.17	1,905,579.56	564,061.46	36.2369946	-107.6161075
115.00	0.27	90.00	115.00	0.25	0.30	1,905,579.59	564,061.59	36.2369947	-107.6161070
145.00	0.36	120.00	145.00	0.21	0.45	1,905,579.54	564,061.74	36.2369945	-107.6161065
175.00	0.42	150.00	175.00	0.06	0.59	1,905,579.40	564,061.88	36.2369942	-107.6161061
205.00	0.65	180.00	205.00	-0.20	0.64	1,905,579.14	564,061.94	36.2369934	-107.6161059
235.00	0.41	210.00	235.00	-0.46	0.59	1,905,578.87	564,061.88	36.2369927	-107.6161061
265.00	0.42	239.99	265.00	-0.61	0.44	1,905,578.72	564,061.74	36.2369923	-107.6161066

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 8 COM #410H - Slot A1
Project:	T23N RW	TVD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Site:	Chaco 2307-07N	MD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Well:	MC 8 COM #410H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
295.00	0.37	269.99	294.99	-0.67	0.25	1,905,578.67	564,061.54	36.2369921	-107.6161072
315.00	0.38	289.99	314.99	-0.64	0.12	1,905,578.69	564,061.42	36.2369922	-107.6161076
405.00	0.88	149.36	404.99	-1.14	0.19	1,905,578.20	564,061.49	36.2369909	-107.6161074
First SDI Surface MWD Survey									
451.00	0.80	153.53	450.99	-1.73	0.51	1,905,577.61	564,061.81	36.2369892	-107.6161063
542.00	1.81	137.15	541.96	-3.35	1.77	1,905,575.99	564,063.08	36.2369848	-107.6161020
633.00	4.14	125.77	632.83	-6.32	5.42	1,905,573.02	564,066.73	36.2369766	-107.6160897
724.00	5.13	127.61	723.54	-10.73	11.31	1,905,568.63	564,072.63	36.2369645	-107.6160697
816.00	6.42	127.84	815.07	-16.39	18.63	1,905,562.98	564,079.96	36.2369489	-107.6160449
907.00	7.98	128.11	905.35	-23.41	27.61	1,905,555.98	564,088.96	36.2369297	-107.6160144
998.00	9.45	134.43	995.30	-32.54	37.92	1,905,546.88	564,099.29	36.2369046	-107.6159795
1,089.00	11.07	140.68	1,084.84	-44.53	48.79	1,905,534.91	564,110.19	36.2368716	-107.6159426
1,181.00	11.43	141.05	1,175.07	-58.45	60.12	1,905,521.02	564,121.55	36.2368334	-107.6159042
1,272.00	11.28	143.22	1,264.29	-72.59	71.12	1,905,506.90	564,132.58	36.2367945	-107.6158669
1,363.00	11.78	135.74	1,353.46	-86.38	82.93	1,905,493.14	564,144.42	36.2367567	-107.6158268
1,454.00	11.91	137.94	1,442.52	-100.00	95.70	1,905,479.55	564,157.22	36.2367193	-107.6157835
1,546.00	12.09	136.47	1,532.51	-114.03	108.70	1,905,465.54	564,170.25	36.2366807	-107.6157395
1,637.00	12.30	137.17	1,621.46	-128.05	121.85	1,905,451.56	564,183.43	36.2366422	-107.6156949
1,728.00	12.43	136.66	1,710.35	-142.28	135.16	1,905,437.35	564,196.78	36.2366031	-107.6156497
1,819.00	12.02	135.36	1,799.29	-156.15	148.54	1,905,423.52	564,210.19	36.2365650	-107.6156044
1,910.00	11.88	132.34	1,888.32	-169.20	162.12	1,905,410.50	564,223.80	36.2365292	-107.6155583
2,002.00	12.22	130.06	1,978.29	-181.84	176.58	1,905,397.89	564,238.28	36.2364944	-107.6155093
2,093.00	12.58	128.75	2,067.17	-194.25	191.68	1,905,385.52	564,253.41	36.2364604	-107.6154581
2,184.00	12.47	128.74	2,156.00	-206.60	207.07	1,905,373.20	564,268.83	36.2364264	-107.6154059
2,275.00	12.39	127.06	2,244.87	-218.63	222.52	1,905,361.21	564,284.31	36.2363934	-107.6153535
2,367.00	12.27	125.57	2,334.75	-230.26	238.35	1,905,349.61	564,300.16	36.2363614	-107.6152998
2,457.00	11.50	132.43	2,422.82	-241.88	252.75	1,905,338.02	564,314.59	36.2363295	-107.6152510
2,547.01	10.51	133.29	2,511.17	-253.56	265.35	1,905,326.37	564,327.21	36.2362974	-107.6152083
2,639.01	10.15	128.56	2,601.68	-264.37	277.79	1,905,315.59	564,339.68	36.2362677	-107.6151661
2,730.01	11.51	132.99	2,691.05	-275.56	290.71	1,905,304.43	564,352.62	36.2362370	-107.6151223
2,821.01	11.52	139.81	2,780.23	-288.69	303.21	1,905,291.32	564,365.15	36.2362009	-107.6150799
2,912.01	11.75	138.36	2,869.36	-302.56	315.23	1,905,277.49	564,377.21	36.2361628	-107.6150391
3,003.01	11.71	135.60	2,958.46	-316.08	327.85	1,905,263.99	564,389.85	36.2361257	-107.6149964
3,095.01	11.83	135.09	3,048.52	-329.43	341.04	1,905,250.67	564,403.07	36.2360890	-107.6149516
3,186.01	11.39	133.26	3,137.66	-342.19	354.17	1,905,237.94	564,416.23	36.2360539	-107.6149071
3,277.01	12.01	136.04	3,226.77	-355.17	367.29	1,905,224.99	564,429.38	36.2360183	-107.6148626
3,368.01	11.28	133.90	3,315.90	-368.15	380.27	1,905,212.04	564,442.39	36.2359826	-107.6148186
3,459.01	12.26	135.91	3,404.99	-381.26	393.41	1,905,198.95	564,455.56	36.2359466	-107.6147741
3,550.01	11.58	135.07	3,494.02	-394.67	406.58	1,905,185.58	564,468.76	36.2359098	-107.6147294
3,641.01	11.52	132.67	3,583.18	-407.30	419.71	1,905,172.98	564,481.92	36.2358751	-107.6146849
3,732.01	11.66	130.97	3,672.33	-419.48	433.34	1,905,160.82	564,495.57	36.2358416	-107.6146387
3,823.01	11.48	130.64	3,761.48	-431.41	447.15	1,905,148.93	564,509.41	36.2358088	-107.6145918
3,913.01	11.22	133.79	3,849.72	-443.30	460.27	1,905,137.06	564,522.56	36.2357762	-107.6145474
4,004.01	11.46	134.40	3,938.94	-455.76	473.12	1,905,124.64	564,535.44	36.2357419	-107.6145038
4,096.01	11.92	136.95	4,029.03	-469.09	486.13	1,905,111.33	564,548.48	36.2357053	-107.6144596
4,186.01	11.64	134.58	4,117.14	-482.26	498.95	1,905,098.20	564,561.32	36.2356691	-107.6144162
4,277.01	12.37	135.21	4,206.15	-495.62	512.35	1,905,084.87	564,574.76	36.2356324	-107.6143707
4,368.01	11.20	133.75	4,295.23	-508.65	525.60	1,905,071.87	564,588.04	36.2355966	-107.6143258
4,459.01	12.83	135.69	4,384.23	-521.99	539.05	1,905,058.55	564,601.51	36.2355600	-107.6142802
4,550.01	11.84	134.02	4,473.13	-535.71	552.82	1,905,044.87	564,615.31	36.2355223	-107.6142335
4,641.01	11.65	138.43	4,562.23	-549.07	565.63	1,905,031.53	564,628.15	36.2354856	-107.6141901
4,732.01	9.94	136.05	4,651.62	-561.60	577.18	1,905,019.03	564,639.73	36.2354512	-107.6141509
4,823.01	7.91	143.00	4,741.51	-572.26	586.40	1,905,008.40	564,648.97	36.2354219	-107.6141197
4,914.01	5.74	143.69	4,831.86	-580.93	592.86	1,904,999.74	564,655.46	36.2353981	-107.6140978

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 8 COM #410H - Slot A1
Project:	T23N R7W	TVD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Site:	Chaco 2307-07N	MD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Well:	MC 8 COM #410H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
4,960.01	4.97	168.58	4,877.67	-584.73	594.62	1,904,995.94	564,657.22	36.2353876	-107.6140918
Last SDI Surface MWD Survey									
5,005.01	5.44	190.29	4,922.49	-588.74	594.62	1,904,991.93	564,657.24	36.2353766	-107.6140918
First SDI Curve MWD Survey									
5,050.01	7.56	207.11	4,967.20	-593.48	592.89	1,904,987.19	564,655.52	36.2353636	-107.6140977
5,096.01	9.98	227.04	5,012.67	-598.89	588.60	1,904,981.77	564,651.23	36.2353487	-107.6141122
5,141.01	13.16	241.74	5,056.76	-603.97	581.23	1,904,976.67	564,643.87	36.2353348	-107.6141372
5,187.01	15.71	247.27	5,101.30	-608.86	570.87	1,904,971.76	564,633.53	36.2353213	-107.6141723
5,232.01	16.56	260.09	5,144.54	-612.32	558.93	1,904,968.27	564,621.59	36.2353118	-107.6142128
5,278.01	18.76	265.01	5,188.38	-614.09	545.10	1,904,966.47	564,607.77	36.2353070	-107.6142597
5,324.01	21.16	268.84	5,231.61	-614.90	529.43	1,904,965.62	564,592.10	36.2353047	-107.6143129
5,369.01	23.44	269.46	5,273.24	-615.15	512.35	1,904,965.33	564,575.03	36.2353041	-107.6143708
5,415.01	26.47	269.23	5,314.94	-615.38	492.95	1,904,965.07	564,555.62	36.2353034	-107.6144365
5,460.01	29.99	270.35	5,354.59	-615.44	471.67	1,904,964.95	564,534.34	36.2353033	-107.6145087
5,506.01	33.59	273.43	5,393.68	-614.61	447.46	1,904,965.73	564,510.13	36.2353055	-107.6145908
5,551.01	36.38	272.87	5,430.55	-613.20	421.70	1,904,967.09	564,484.37	36.2353094	-107.6146781
5,596.01	40.62	272.54	5,465.76	-611.88	393.72	1,904,968.34	564,456.39	36.2353131	-107.6147730
5,642.01	44.76	272.48	5,499.56	-610.51	362.57	1,904,969.64	564,425.23	36.2353168	-107.6148786
5,687.01	48.04	272.37	5,530.59	-609.14	330.02	1,904,970.94	564,392.68	36.2353206	-107.6149890
5,733.01	52.07	272.63	5,560.12	-607.60	294.79	1,904,972.40	564,357.45	36.2353248	-107.6151085
5,778.01	56.15	272.21	5,586.49	-606.06	258.38	1,904,973.86	564,321.03	36.2353290	-107.6152319
5,824.01	58.42	272.11	5,611.35	-604.60	219.70	1,904,975.23	564,282.35	36.2353330	-107.6153631
5,869.01	58.53	271.75	5,634.88	-603.31	181.37	1,904,976.43	564,244.01	36.2353366	-107.6154931
5,915.01	61.84	272.05	5,657.75	-601.99	141.48	1,904,977.67	564,204.13	36.2353402	-107.6156283
5,962.01	65.55	273.37	5,678.57	-599.99	99.40	1,904,979.57	564,162.05	36.2353457	-107.6157710
6,007.01	70.29	274.66	5,695.49	-597.06	57.82	1,904,982.41	564,120.46	36.2353538	-107.6159120
6,053.01	74.24	275.56	5,709.50	-593.15	14.19	1,904,986.21	564,076.82	36.2353645	-107.6160599
6,099.01	78.60	276.62	5,720.29	-588.41	-30.26	1,904,990.86	564,032.36	36.2353775	-107.6162106
6,144.01	82.53	276.47	5,727.67	-583.35	-74.35	1,904,995.82	563,988.25	36.2353914	-107.6163602
6,174.01	85.07	274.73	5,730.91	-580.44	-104.03	1,904,998.66	563,958.57	36.2353994	-107.6164608
Last SDI Curve MWD Survey									
6,220.01	87.40	274.33	5,733.93	-576.82	-149.79	1,905,002.19	563,912.80	36.2354094	-107.6166159
36.2354094, -107.6166159 - 7" Casing @ 6220' MD									
6,243.01	88.56	274.13	5,734.74	-575.12	-172.71	1,905,003.83	563,889.88	36.2354140	-107.6166937
First SDI Lateral MWD Survey									
6,306.01	89.83	274.28	5,735.63	-570.50	-235.53	1,905,008.31	563,827.05	36.2354267	-107.6169067
6,397.01	91.27	276.59	5,734.75	-561.88	-326.11	1,905,016.72	563,736.45	36.2354504	-107.6172138
6,488.01	92.04	276.94	5,732.13	-551.17	-416.44	1,905,027.23	563,646.10	36.2354798	-107.6175201
6,579.01	92.32	276.80	5,728.66	-540.29	-506.72	1,905,037.91	563,555.79	36.2355097	-107.6178262
6,670.01	92.28	275.89	5,725.01	-530.24	-597.09	1,905,047.76	563,465.40	36.2355373	-107.6181327
6,761.01	91.71	275.89	5,721.84	-520.91	-687.55	1,905,056.89	563,374.91	36.2355629	-107.6184394
6,852.01	90.00	276.22	5,720.49	-511.31	-778.03	1,905,066.28	563,284.41	36.2355893	-107.6187462
6,943.01	88.39	275.10	5,721.76	-502.34	-868.57	1,905,075.05	563,193.85	36.2356139	-107.6190532
7,034.01	89.19	275.90	5,723.69	-493.62	-959.13	1,905,083.57	563,103.27	36.2356379	-107.6193603
7,126.01	89.09	275.98	5,725.07	-484.10	-1,050.63	1,905,092.88	563,011.76	36.2356640	-107.6196705
7,217.01	90.27	275.76	5,725.58	-474.79	-1,141.15	1,905,101.99	562,921.22	36.2356896	-107.6199775
7,308.01	91.71	276.50	5,724.00	-465.08	-1,231.61	1,905,111.50	562,830.73	36.2357163	-107.6202842
7,399.01	91.54	275.99	5,721.42	-455.18	-1,322.04	1,905,121.19	562,740.29	36.2357434	-107.6205908
7,490.02	91.01	276.86	5,719.40	-445.00	-1,412.44	1,905,131.17	562,649.86	36.2357714	-107.6208974
7,581.02	93.59	277.40	5,715.75	-433.72	-1,502.66	1,905,142.25	562,559.62	36.2358024	-107.6212033
7,672.02	93.65	276.15	5,710.00	-423.00	-1,592.84	1,905,152.76	562,469.41	36.2358318	-107.6215091
7,763.02	91.98	276.81	5,705.53	-412.75	-1,683.15	1,905,162.82	562,379.08	36.2358600	-107.6218153
7,854.02	89.16	275.97	5,704.63	-402.62	-1,773.57	1,905,172.74	562,288.64	36.2358878	-107.6221219
7,945.02	88.66	275.88	5,706.36	-393.23	-1,864.06	1,905,181.93	562,198.12	36.2359136	-107.6224288

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 8 COM #410H - Slot A1
Project:	T23N R7W	TVD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Site:	Chaco 2307-07N	MD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Well:	MC 8 COM #410H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
8,036.02	88.69	275.69	5,708.46	-384.06	-1,954.58	1,905,190.90	562,107.59	36.2359387	-107.6227357
8,128.02	88.89	275.43	5,710.40	-375.15	-2,046.12	1,905,199.60	562,016.02	36.2359632	-107.6230461
8,220.02	90.17	275.23	5,711.16	-366.60	-2,137.72	1,905,207.94	561,924.41	36.2359867	-107.6233567
8,311.02	91.01	275.73	5,710.22	-357.91	-2,228.30	1,905,216.43	561,833.81	36.2360105	-107.6236638
8,401.02	90.27	276.12	5,709.22	-348.62	-2,317.81	1,905,225.52	561,744.28	36.2360360	-107.6239674
8,493.02	89.66	276.66	5,709.27	-338.38	-2,409.24	1,905,235.55	561,652.83	36.2360641	-107.6242774
8,584.02	88.32	277.21	5,710.88	-327.40	-2,499.56	1,905,246.34	561,562.48	36.2360943	-107.6245836
8,675.02	88.39	277.64	5,713.49	-315.64	-2,589.76	1,905,257.89	561,472.26	36.2361265	-107.6248895
8,766.02	87.75	277.59	5,716.55	-303.59	-2,679.90	1,905,269.74	561,382.09	36.2361596	-107.6251952
8,857.02	89.46	277.98	5,718.77	-291.27	-2,770.04	1,905,281.86	561,291.93	36.2361935	-107.6255008
8,949.02	90.64	277.09	5,718.69	-279.20	-2,861.24	1,905,293.72	561,200.70	36.2362266	-107.6258101
9,040.02	91.24	277.38	5,717.20	-267.74	-2,951.50	1,905,304.98	561,110.41	36.2362580	-107.6261161
9,131.02	91.74	277.56	5,714.83	-255.92	-3,041.70	1,905,316.60	561,020.19	36.2362905	-107.6264220
9,222.02	91.31	277.27	5,712.41	-244.18	-3,131.91	1,905,328.14	560,929.95	36.2363227	-107.6267279
9,314.02	91.58	277.44	5,710.09	-232.40	-3,223.12	1,905,339.71	560,838.71	36.2363550	-107.6270372
9,404.02	90.30	276.95	5,708.61	-221.13	-3,312.40	1,905,350.78	560,749.41	36.2363860	-107.6273399
9,494.02	90.03	274.32	5,708.35	-212.30	-3,401.95	1,905,359.41	560,659.83	36.2364102	-107.6276436
9,586.02	91.34	273.52	5,707.25	-206.01	-3,493.73	1,905,365.50	560,568.05	36.2364275	-107.6279548
9,677.02	90.10	272.94	5,706.11	-200.88	-3,584.58	1,905,370.42	560,477.19	36.2364415	-107.6282628
9,768.02	91.55	272.39	5,704.80	-196.65	-3,675.47	1,905,374.45	560,386.29	36.2364531	-107.6285710
9,859.02	91.55	273.04	5,702.34	-192.34	-3,766.33	1,905,378.55	560,295.42	36.2364649	-107.6288791
9,950.02	91.34	273.85	5,700.04	-186.88	-3,857.14	1,905,383.82	560,204.60	36.2364799	-107.6291870
10,041.02	90.17	274.47	5,698.84	-180.27	-3,947.89	1,905,390.21	560,113.83	36.2364980	-107.6294948
10,132.02	89.50	273.25	5,699.11	-174.15	-4,038.68	1,905,396.13	560,023.03	36.2365148	-107.6298026
10,223.02	91.64	271.95	5,698.20	-170.02	-4,129.57	1,905,400.06	559,932.12	36.2365261	-107.6301108
10,315.02	90.34	272.62	5,696.61	-166.35	-4,221.48	1,905,403.52	559,840.21	36.2365361	-107.6304225
10,406.02	90.54	272.23	5,695.91	-162.50	-4,312.40	1,905,407.17	559,749.28	36.2365467	-107.6307308
10,497.02	89.13	271.84	5,696.17	-159.27	-4,403.34	1,905,410.19	559,658.34	36.2365555	-107.6310391
10,588.02	88.96	272.75	5,697.69	-155.63	-4,494.25	1,905,413.63	559,567.41	36.2365655	-107.6313474
10,679.02	89.19	272.92	5,699.16	-151.13	-4,585.13	1,905,417.93	559,476.53	36.2365778	-107.6316556
10,770.02	90.20	274.28	5,699.64	-145.41	-4,675.94	1,905,423.44	559,385.70	36.2365934	-107.6319635
10,861.02	90.22	274.04	5,699.31	-138.81	-4,766.70	1,905,429.84	559,294.92	36.2366115	-107.6322713
10,953.02	90.30	273.49	5,698.89	-132.77	-4,858.50	1,905,435.67	559,203.11	36.2366281	-107.6325826
11,044.02	92.05	274.81	5,697.03	-126.19	-4,949.24	1,905,442.05	559,112.36	36.2366461	-107.6328902
11,135.02	92.55	275.23	5,693.37	-118.23	-5,039.82	1,905,449.81	559,021.77	36.2366680	-107.6331974
11,225.02	92.66	276.34	5,689.28	-109.17	-5,129.27	1,905,458.67	558,932.30	36.2366928	-107.6335007
11,316.02	91.57	281.08	5,685.92	-95.40	-5,219.13	1,905,472.24	558,842.40	36.2367306	-107.6338054
11,407.02	90.23	280.00	5,684.49	-78.76	-5,308.58	1,905,488.68	558,752.92	36.2367763	-107.6341087
11,498.02	89.56	277.93	5,684.66	-64.58	-5,398.46	1,905,502.66	558,663.00	36.2368152	-107.6344135
11,589.02	90.03	277.28	5,684.99	-52.54	-5,488.66	1,905,514.50	558,572.78	36.2368482	-107.6347194
11,680.02	88.59	277.43	5,686.08	-40.89	-5,578.90	1,905,525.94	558,482.51	36.2368802	-107.6350254
11,771.02	89.06	277.73	5,687.95	-28.89	-5,669.09	1,905,537.74	558,392.30	36.2369131	-107.6353312
11,862.02	90.54	278.69	5,688.27	-15.89	-5,759.15	1,905,550.53	558,302.21	36.2369487	-107.6356366
11,953.02	91.58	278.13	5,686.58	-2.59	-5,849.16	1,905,563.64	558,212.17	36.2369852	-107.6359418
12,044.02	90.71	277.35	5,684.76	9.67	-5,939.31	1,905,575.69	558,121.99	36.2370188	-107.6362475
12,135.02	89.66	276.22	5,684.47	20.42	-6,029.67	1,905,586.24	558,031.61	36.2370483	-107.6365539
12,227.02	89.73	275.80	5,684.96	30.05	-6,121.16	1,905,595.67	557,940.10	36.2370747	-107.6368642
12,318.02	90.60	275.73	5,684.70	39.19	-6,211.70	1,905,604.60	557,849.54	36.2370998	-107.6371712
12,408.03	89.40	276.66	5,684.70	48.90	-6,301.17	1,905,614.12	557,760.04	36.2371264	-107.6374746
12,500.03	89.16	278.38	5,685.85	60.94	-6,392.37	1,905,625.95	557,668.82	36.2371594	-107.6377838
12,591.03	90.40	278.07	5,686.20	73.96	-6,482.43	1,905,638.77	557,578.73	36.2371951	-107.6380892
12,682.03	89.56	279.58	5,686.24	87.92	-6,572.35	1,905,652.52	557,488.78	36.2372334	-107.6383942
12,773.03	89.97	279.48	5,686.61	102.99	-6,662.10	1,905,667.39	557,399.00	36.2372748	-107.6386985
12,864.03	90.44	278.78	5,686.28	117.43	-6,751.94	1,905,681.63	557,309.12	36.2373144	-107.6390032
12,955.03	90.80	278.69	5,685.30	131.24	-6,841.88	1,905,695.24	557,219.15	36.2373523	-107.6393081

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 8 COM #410H - Slot A1
Project:	T23N R7W	TVD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Site:	Chaco 2307-07N	MD Reference:	GL 7307' & RKB 25' @ 7332.01ft (Aztec 1000)
Well:	MC 8 COM #410H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
13,046.03	89.63	277.57	5,684.96	144.11	-6,931.96	1,905,707.91	557,129.04	36.2373876	-107.6396136
13,137.03	89.66	276.62	5,685.52	155.35	-7,022.26	1,905,718.95	557,038.72	36.2374184	-107.6399198
13,142.03	89.71	276.60	5,685.55	155.93	-7,027.23	1,905,719.51	557,033.75	36.2374200	-107.6399367
RSI @ 13,142' MD - 36.2374200, -107.6399366									
13,211.03	90.34	276.39	5,685.52	163.74	-7,095.79	1,905,727.17	556,965.18	36.2374414	-107.6401691
Last SDI Lateral MWD Survey									
13,265.03	90.34	276.39	5,685.20	169.75	-7,149.45	1,905,733.06	556,911.50	36.2374578	-107.6403511
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,960.01	4,877.67	-584.73	594.62	Last SDI Surface MWD Survey
5,005.01	4,922.49	-588.74	594.62	First SDI Curve MWD Survey
6,174.01	5,730.91	-580.44	-104.03	Last SDI Curve MWD Survey
6,220.01	5,733.93	-576.82	-149.79	36.2354094, -107.6166159
6,220.01	5,733.93	-576.82	-149.79	7" Casing @ 6220' MD
6,243.01	5,734.74	-575.12	-172.71	First SDI Lateral MWD Survey
13,142.03	5,685.55	155.93	-7,027.23	RSI @ 13,142' MD
13,142.03	5,685.55	155.93	-7,027.23	36.2374200, -107.6399366
13,211.03	5,685.52	163.74	-7,095.79	Last SDI Lateral MWD Survey
13,265.03	5,685.20	169.75	-7,149.45	Projection to TD

Checked By: _____ Approved By: _____ Date: _____