

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 30-045-35601	*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 315059	*Property Name MC 5 COM	*Well Number 119H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 7020'

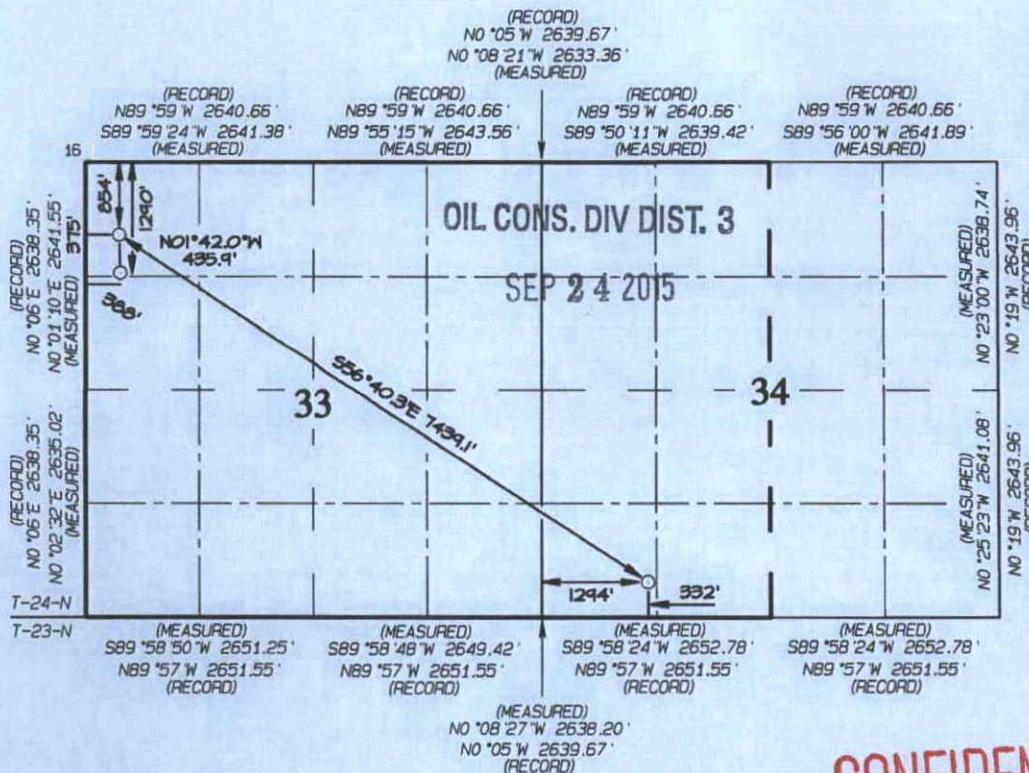
¹⁰ Surface Location

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		1290	NORTH	388	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
M	34	24N	8W		332	SOUTH	1294	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-7275-A

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: 9/28/15

Printed Name: LACEY GRANILLO

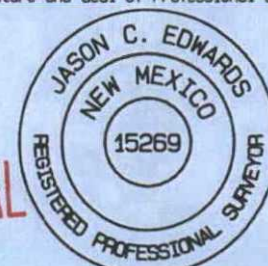
E-mail Address: lacey.granillo@wpxenergy.com

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: SEPTEMBER 1, 2015
Survey Date: DECEMBER 12, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

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SURFACE LOCATION
1290' FNL 388' FWL
SECTION 33, T24N, R8W
LAT: 36.274528°N
LONG: 107.694266°W
DATUM: NAD1927

LAT: 36.274541°N
LONG: 107.694878°W
DATUM: NAD1983

POINT-OF-ENTRY
854' FNL 375' FWL
SECTION 33, T24N, R8W
LAT: 36.275725°N
LONG: 107.694308°W
DATUM: NAD1927

LAT: 36.275737°N
LONG: 107.694920°W
DATUM: NAD1983

RSI TOOL
344' FSL 1278' FWL
SECTION 34, T24N, R8W
LAT: 36.264501°N
LONG: 107.673296°W
DATUM: NAD1927

LAT: 36.264514°N
LONG: 107.673907°W
DATUM: NAD1983

END OF LATERAL
332' FSL 1294' FWL
SECTION 34, T24N, R8W
LAT: 36.264470°N
LONG: 107.673245°W
DATUM: NAD1927

LAT: 36.264483°N
LONG: 107.673856°W
DATUM: NAD1983

AV

RV



WPX Energy

T24N R8W

Chaco 2408-33D

MC 5 COM #119H - Slot A3

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

31 August, 2015

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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



Scientific Drilling

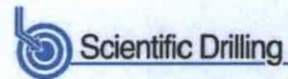


OIL CONS. DIV DIST. 3

SEP 24 2015



Company Name: WPX Energy
Project: T24N R8W
Site: Chaco 2408-33D
Well: MC 5 COM #119H



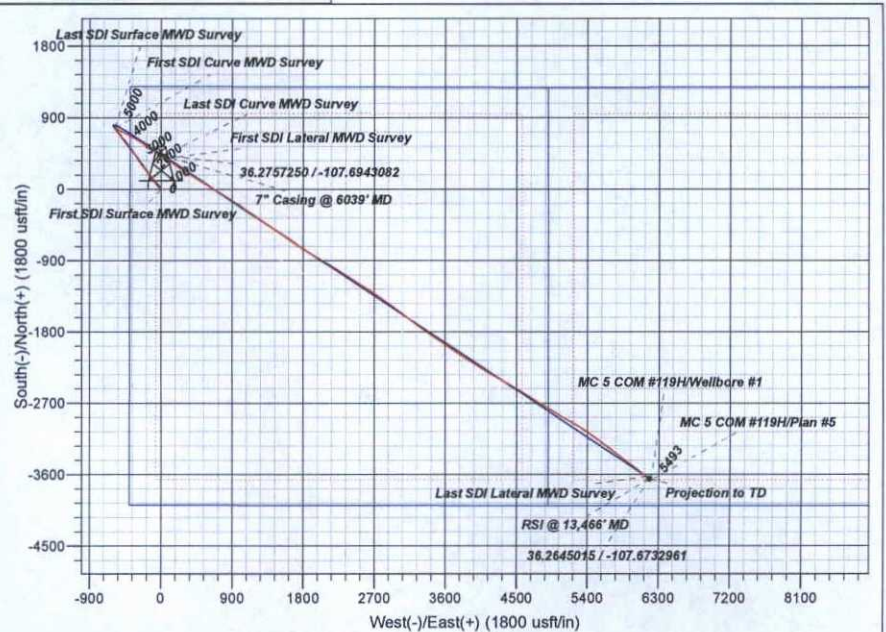
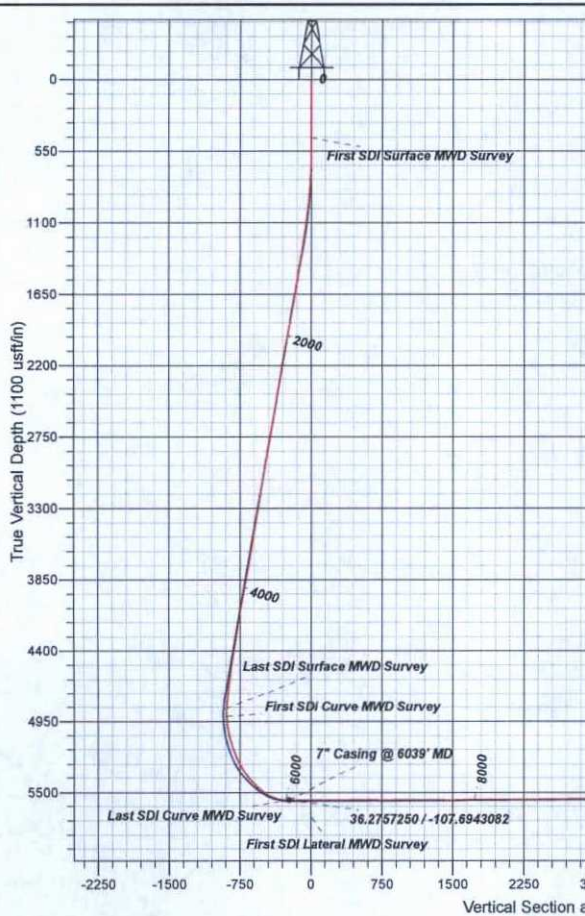
Azimuths to True North
Magnetic North: 9.13°

Magnetic Field
Strength: 49894.1nT
Dip Angle: 62.95°
Date: 8/15/2015
Model: HDGM

WELL DETAILS: MC 5 COM #119H

+N/-S	+E/-W	GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)	7020.00	
		Northing	Easting	Latitude
0.00	0.00	1919200.62	540991.14	36.2745300
				Longitude
				-107.6942700

A3



Design: Wellbore #1 (MC 5 COM #119H/Wellbore #1)
Created By: Janie Collins Date: 10:31, August 31 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

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Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #119H - Slot A3
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 #119H	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	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 #119H - Slot A3					
Well Position	+N/-S	0.00 usft	Northing:	1,919,200.62 usft	Latitude:	36.2745300
	+E/-W	0.00 usft	Easting:	540,991.14 usft	Longitude:	-107.6942700
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)
	HDGM	8/15/2015	9.13	62.95	49,894

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	120.53	

Survey Program	Date 8/31/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
14.00	365.00	Surface gyro 11Aug15 sam (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
448.00	4,964.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD	SDI MWD - Standard ver 1.0.1	
5,027.00	6,064.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1	
6,128.00	13,485.00	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	1,919,200.62	540,991.14	36.2745300	-107.6942700
14.00	0.00	0.00	14.00	0.00	0.00	1,919,200.62	540,991.14	36.2745300	-107.6942700
64.00	0.17	341.41	64.00	0.07	-0.02	1,919,200.69	540,991.12	36.2745302	-107.6942701
114.00	0.07	262.98	114.00	0.14	-0.08	1,919,200.76	540,991.06	36.2745304	-107.6942703
164.00	0.27	339.34	164.00	0.24	-0.15	1,919,200.87	540,990.99	36.2745307	-107.6942705
214.00	0.43	335.03	214.00	0.52	-0.27	1,919,201.15	540,990.87	36.2745314	-107.6942709
264.00	0.51	299.65	264.00	0.80	-0.54	1,919,201.43	540,990.60	36.2745322	-107.6942719
314.00	0.25	291.95	314.00	0.95	-0.84	1,919,201.58	540,990.30	36.2745326	-107.6942729
365.00	0.35	268.12	365.00	0.99	-1.10	1,919,201.61	540,990.04	36.2745327	-107.6942737

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Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #119H - Slot A3
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 #119H	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
448.00	0.24	301.11	447.99	1.07	-1.50	1,919,201.69	540,989.64	36.2745329	-107.6942751
First SDI Surface MWD Survey									
508.00	0.36	322.09	507.99	1.29	-1.72	1,919,201.91	540,989.42	36.2745335	-107.6942759
570.00	1.30	353.55	569.99	2.14	-1.92	1,919,202.76	540,989.22	36.2745359	-107.6942765
631.00	3.11	346.57	630.94	4.44	-2.38	1,919,205.06	540,988.75	36.2745422	-107.6942781
692.00	4.85	343.63	691.79	8.52	-3.49	1,919,209.14	540,987.64	36.2745534	-107.6942819
753.00	6.00	342.29	752.52	14.03	-5.19	1,919,214.65	540,985.93	36.2745685	-107.6942876
813.00	6.70	333.65	812.15	20.16	-7.70	1,919,220.77	540,983.42	36.2745854	-107.6942961
874.00	7.40	329.40	872.69	26.73	-11.28	1,919,227.33	540,979.83	36.2746034	-107.6943083
934.00	8.71	327.66	932.09	33.89	-15.67	1,919,234.49	540,975.42	36.2746231	-107.6943232
995.00	9.94	327.03	992.29	42.21	-21.01	1,919,242.80	540,970.07	36.2746459	-107.6943413
1,056.00	11.05	323.27	1,052.27	51.31	-27.37	1,919,251.90	540,963.70	36.2746709	-107.6943629
1,117.00	11.51	320.78	1,112.09	60.71	-34.72	1,919,261.29	540,956.34	36.2746968	-107.6943878
1,178.00	11.54	320.35	1,171.86	70.13	-42.46	1,919,270.69	540,948.58	36.2747226	-107.6944141
1,238.00	12.08	319.60	1,230.59	79.53	-50.36	1,919,280.08	540,940.67	36.2747485	-107.6944409
1,299.00	12.37	316.81	1,290.20	89.15	-58.97	1,919,289.69	540,932.05	36.2747749	-107.6944701
1,360.00	12.45	315.89	1,349.78	98.64	-68.01	1,919,299.16	540,922.99	36.2748010	-107.6945008
1,420.00	13.09	318.52	1,408.30	108.37	-77.02	1,919,308.88	540,913.97	36.2748277	-107.6945313
1,481.00	13.03	319.45	1,467.72	118.77	-86.06	1,919,319.27	540,904.91	36.2748563	-107.6945620
1,542.00	13.32	321.60	1,527.11	129.50	-94.90	1,919,329.99	540,896.06	36.2748858	-107.6945920
1,602.00	13.48	321.99	1,585.48	140.43	-103.50	1,919,340.90	540,887.44	36.2749158	-107.6946211
1,663.00	14.15	322.99	1,644.71	151.99	-112.36	1,919,352.45	540,878.56	36.2749475	-107.6946512
1,724.00	14.05	321.42	1,703.88	163.73	-121.47	1,919,364.18	540,869.44	36.2749798	-107.6946821
1,785.00	14.78	322.12	1,762.96	175.66	-130.86	1,919,376.09	540,860.03	36.2750125	-107.6947140
1,846.00	14.84	321.86	1,821.93	187.94	-140.47	1,919,388.36	540,850.41	36.2750463	-107.6947466
1,906.00	15.04	321.46	1,879.90	200.08	-150.06	1,919,400.48	540,840.79	36.2750796	-107.6947791
1,970.00	15.17	321.04	1,941.69	213.08	-160.50	1,919,413.47	540,830.34	36.2751154	-107.6948145
2,033.00	14.69	318.82	2,002.56	225.50	-170.94	1,919,425.88	540,819.87	36.2751495	-107.6948500
2,097.00	14.00	317.72	2,064.57	237.34	-181.50	1,919,437.70	540,809.31	36.2751820	-107.6948858
2,160.00	14.71	320.19	2,125.60	249.12	-191.74	1,919,449.47	540,799.04	36.2752144	-107.6949205
2,223.00	14.58	320.20	2,186.55	261.36	-201.94	1,919,461.69	540,788.83	36.2752480	-107.6949551
2,287.00	13.98	318.51	2,248.58	273.34	-212.22	1,919,473.66	540,778.53	36.2752809	-107.6949900
2,351.00	13.99	322.48	2,310.68	285.27	-222.05	1,919,485.57	540,768.68	36.2753136	-107.6950233
2,414.00	14.44	325.20	2,371.75	297.76	-231.17	1,919,498.05	540,759.54	36.2753480	-107.6950543
2,477.00	14.01	324.48	2,432.82	310.41	-240.09	1,919,510.69	540,750.61	36.2753827	-107.6950845
2,540.00	13.18	321.97	2,494.06	322.28	-248.94	1,919,522.54	540,741.74	36.2754153	-107.6951146
2,604.00	13.71	324.14	2,556.30	334.17	-257.88	1,919,534.42	540,732.78	36.2754480	-107.6951449
2,668.00	14.14	327.69	2,618.42	346.93	-266.50	1,919,547.17	540,724.14	36.2754830	-107.6951741
2,731.00	13.53	325.45	2,679.59	359.50	-274.79	1,919,559.73	540,715.83	36.2755176	-107.6952023
2,794.00	14.61	326.37	2,740.70	372.19	-283.37	1,919,572.40	540,707.23	36.2755524	-107.6952314
2,857.00	15.77	327.94	2,801.50	386.06	-292.32	1,919,586.26	540,698.27	36.2755905	-107.6952617
2,920.00	15.30	327.45	2,862.20	400.32	-301.34	1,919,600.51	540,689.23	36.2756297	-107.6952923
2,984.00	14.96	327.59	2,923.98	414.41	-310.31	1,919,614.59	540,680.24	36.2756684	-107.6953228
3,047.00	14.43	326.91	2,984.92	427.85	-318.95	1,919,628.02	540,671.58	36.2757053	-107.6953521
3,109.00	13.53	325.84	3,045.08	440.33	-327.24	1,919,640.48	540,663.27	36.2757396	-107.6953802
3,172.00	13.81	326.67	3,106.30	452.71	-335.51	1,919,652.85	540,654.98	36.2757736	-107.6954083
3,236.00	14.56	326.80	3,168.35	465.82	-344.11	1,919,665.95	540,646.36	36.2758097	-107.6954374
3,299.00	13.63	325.32	3,229.45	478.55	-352.67	1,919,678.67	540,637.78	36.2758446	-107.6954665
3,362.00	14.16	325.09	3,290.61	490.97	-361.31	1,919,691.08	540,629.13	36.2758788	-107.6954958
3,424.00	15.19	325.14	3,350.58	503.86	-370.29	1,919,703.95	540,620.13	36.2759141	-107.6955263
3,487.00	14.68	324.56	3,411.45	517.13	-379.63	1,919,717.21	540,610.76	36.2759506	-107.6955580
3,550.00	14.13	323.66	3,472.47	529.83	-388.82	1,919,729.90	540,601.56	36.2759855	-107.6955891
3,614.00	13.72	324.12	3,534.59	542.28	-397.90	1,919,742.33	540,592.47	36.2760197	-107.6956199
3,677.00	13.18	323.45	3,595.86	554.10	-406.55	1,919,754.14	540,583.79	36.2760522	-107.6956493
3,740.00	13.36	323.77	3,657.18	565.74	-415.13	1,919,765.77	540,575.20	36.2760841	-107.6956784

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #119H - Slot A3
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 #119H	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
3,803.00	13.96	325.71	3,718.40	577.89	-423.72	1,919,777.90	540,566.60	36.2761175	-107.6957075
3,866.00	14.55	322.95	3,779.46	590.48	-432.77	1,919,790.49	540,557.53	36.2761521	-107.6957382
3,929.00	15.36	319.28	3,840.33	603.12	-442.98	1,919,803.11	540,547.30	36.2761868	-107.6957729
3,992.00	15.14	318.64	3,901.11	615.62	-453.86	1,919,815.59	540,536.40	36.2762212	-107.6958098
4,055.00	14.73	319.60	3,961.98	627.90	-464.48	1,919,827.85	540,525.76	36.2762549	-107.6958458
4,118.00	14.71	319.89	4,022.91	640.11	-474.83	1,919,840.06	540,515.39	36.2762885	-107.6958809
4,181.00	14.07	319.04	4,083.94	652.02	-485.00	1,919,851.94	540,505.20	36.2763211	-107.6959154
4,243.00	12.93	317.11	4,144.22	662.79	-494.66	1,919,862.70	540,495.53	36.2763507	-107.6959482
4,306.00	12.05	317.44	4,205.73	672.80	-503.91	1,919,872.70	540,486.27	36.2763782	-107.6959796
4,369.00	12.33	321.53	4,267.31	682.91	-512.54	1,919,882.79	540,477.62	36.2764060	-107.6960089
4,432.00	14.12	327.55	4,328.64	694.66	-520.85	1,919,894.53	540,469.29	36.2764383	-107.6960371
4,494.00	14.88	326.22	4,388.67	707.66	-529.33	1,919,907.52	540,460.79	36.2764740	-107.6960658
4,557.00	13.68	326.04	4,449.72	720.56	-537.99	1,919,920.41	540,452.11	36.2765095	-107.6960952
4,621.00	12.77	325.04	4,512.02	732.64	-546.27	1,919,932.47	540,443.82	36.2765426	-107.6961233
4,684.00	11.76	323.76	4,573.58	743.52	-554.06	1,919,943.35	540,436.01	36.2765725	-107.6961497
4,747.00	10.47	321.01	4,635.40	753.15	-561.46	1,919,952.96	540,428.60	36.2765990	-107.6961748
4,810.00	8.79	317.31	4,697.51	761.14	-568.32	1,919,960.94	540,421.73	36.2766209	-107.6961981
4,872.00	7.39	314.40	4,758.89	767.41	-574.38	1,919,967.21	540,415.66	36.2766381	-107.6962187
4,964.00	2.27	338.59	4,850.54	773.25	-579.28	1,919,973.04	540,410.75	36.2766542	-107.6962353
Last SDI Surface MWD Survey									
5,027.00	3.68	106.75	4,913.50	773.83	-577.80	1,919,973.62	540,412.23	36.2766558	-107.6962303
First SDI Curve MWD Survey									
5,091.00	9.22	112.51	4,977.07	771.27	-571.09	1,919,971.07	540,418.94	36.2766488	-107.6962075
5,154.00	14.90	115.27	5,038.65	765.88	-559.09	1,919,965.70	540,430.95	36.2766339	-107.6961668
5,217.00	21.47	118.19	5,098.48	756.96	-541.59	1,919,956.81	540,448.47	36.2766095	-107.6961074
5,280.00	26.18	115.04	5,156.09	745.63	-518.82	1,919,945.50	540,471.25	36.2765783	-107.6960302
5,344.00	30.08	114.95	5,212.52	732.88	-491.48	1,919,932.80	540,498.61	36.2765433	-107.6959374
5,407.00	34.91	118.72	5,265.65	717.55	-461.33	1,919,917.51	540,528.78	36.2765012	-107.6958351
5,470.00	40.34	117.46	5,315.53	699.47	-427.40	1,919,899.48	540,562.74	36.2764515	-107.6957200
5,533.00	43.66	118.80	5,362.34	679.58	-390.24	1,919,879.65	540,599.93	36.2763969	-107.6955940
5,596.00	48.32	119.29	5,406.10	657.59	-350.64	1,919,857.70	540,639.55	36.2763365	-107.6954596
5,659.00	56.01	120.15	5,444.72	632.92	-307.48	1,919,833.10	540,682.76	36.2762687	-107.6953132
5,722.00	62.05	123.70	5,477.13	604.33	-261.69	1,919,804.58	540,728.59	36.2761902	-107.6951578
5,785.00	64.27	123.60	5,505.57	573.18	-214.90	1,919,773.50	540,775.42	36.2761046	-107.6949991
5,848.00	71.23	124.43	5,529.41	540.58	-166.60	1,919,740.96	540,823.76	36.2760150	-107.6948352
5,911.00	77.85	125.28	5,546.20	505.89	-116.81	1,919,706.34	540,873.61	36.2759197	-107.6946663
5,974.00	84.79	123.87	5,555.70	470.57	-65.56	1,919,671.10	540,924.91	36.2758227	-107.6944924
5,988.00	86.47	123.59	5,556.76	462.82	-53.95	1,919,663.37	540,936.53	36.2758014	-107.6944530
6,039.00	89.11	122.60	5,558.73	435.00	-11.26	1,919,635.61	540,979.26	36.2757250	-107.6943082
7" Casing @ 6039' MD - 36.2757250 / -107.6943082									
6,064.00	90.40	122.12	5,558.84	421.62	9.86	1,919,622.25	541,000.40	36.2756882	-107.6942366
Last SDI Curve MWD Survey									
6,128.00	91.28	122.52	5,557.90	387.40	63.94	1,919,588.12	541,054.52	36.2755942	-107.6940531
First SDI Lateral MWD Survey									
6,191.00	90.07	124.11	5,557.16	352.81	116.58	1,919,553.60	541,107.21	36.2754992	-107.6938745
6,254.00	89.40	123.65	5,557.45	317.69	168.88	1,919,518.55	541,159.57	36.2754027	-107.6936971
6,317.00	89.76	123.28	5,557.91	282.95	221.43	1,919,483.89	541,212.17	36.2753073	-107.6935188
6,381.00	89.60	122.26	5,558.27	248.31	275.25	1,919,449.33	541,266.03	36.2752121	-107.6933362
6,444.00	89.93	121.95	5,558.53	214.83	328.61	1,919,415.92	541,319.45	36.2751201	-107.6931552
6,507.00	90.47	121.27	5,558.31	181.81	382.26	1,919,382.98	541,373.15	36.2750294	-107.6929732
6,570.00	90.54	120.65	5,557.75	149.40	436.29	1,919,350.65	541,427.21	36.2749404	-107.6927899
6,633.00	90.60	121.40	5,557.13	116.93	490.27	1,919,318.26	541,481.24	36.2748512	-107.6926068
6,697.00	90.13	121.80	5,556.72	83.39	544.78	1,919,284.80	541,535.80	36.2747591	-107.6924218
6,760.00	90.47	122.40	5,556.39	49.92	598.15	1,919,251.40	541,589.22	36.2746671	-107.6922408

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #119H - Slot A3
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 #119H	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
6,823.00	90.04	123.29	5,556.11	15.75	651.08	1,919,217.31	541,642.19	36.2745732	-107.6920612
6,886.00	90.84	122.85	5,555.62	-18.63	703.87	1,919,183.01	541,695.04	36.2744788	-107.6918821
6,949.00	89.13	120.84	5,555.64	-51.86	757.38	1,919,149.85	541,748.60	36.2743875	-107.6917006
7,012.00	89.43	121.69	5,556.43	-84.56	811.23	1,919,117.23	541,802.49	36.2742977	-107.6915179
7,076.00	89.73	122.93	5,556.90	-118.76	865.31	1,919,083.10	541,856.63	36.2742037	-107.6913344
7,138.00	90.40	122.32	5,556.83	-152.19	917.53	1,919,049.75	541,908.89	36.2741119	-107.6911573
7,201.00	90.50	122.95	5,556.34	-186.16	970.58	1,919,015.85	541,961.99	36.2740185	-107.6909773
7,264.00	90.37	124.61	5,555.86	-221.19	1,022.94	1,918,980.90	542,014.40	36.2739223	-107.6907997
7,327.00	90.34	124.52	5,555.47	-256.93	1,074.82	1,918,945.23	542,066.33	36.2738241	-107.6906237
7,390.00	90.13	124.62	5,555.21	-292.68	1,126.70	1,918,909.56	542,118.26	36.2737259	-107.6904477
7,453.00	90.10	124.50	5,555.08	-328.42	1,178.58	1,918,873.90	542,170.19	36.2736277	-107.6902717
7,517.00	89.80	124.22	5,555.14	-364.54	1,231.41	1,918,837.85	542,223.08	36.2735285	-107.6900925
7,580.00	89.69	125.23	5,555.42	-400.42	1,283.19	1,918,802.04	542,274.91	36.2734299	-107.6899168
7,643.00	88.86	124.76	5,556.22	-436.55	1,334.80	1,918,765.99	542,326.56	36.2733306	-107.6897418
7,706.00	89.53	123.56	5,557.10	-471.92	1,386.92	1,918,730.69	542,378.74	36.2732335	-107.6895650
7,770.00	90.64	123.80	5,557.01	-507.41	1,440.18	1,918,695.28	542,432.05	36.2731360	-107.6893843
7,833.00	91.45	123.23	5,555.86	-542.19	1,492.69	1,918,660.57	542,484.61	36.2730404	-107.6892061
7,896.00	91.34	123.26	5,554.32	-576.72	1,545.37	1,918,626.12	542,537.34	36.2729455	-107.6890274
7,959.00	90.64	123.73	5,553.24	-611.48	1,597.90	1,918,591.44	542,589.91	36.2728500	-107.6888493
8,023.00	89.60	123.69	5,553.10	-647.00	1,651.13	1,918,555.99	542,643.20	36.2727525	-107.6886687
8,086.00	90.22	123.73	5,553.20	-681.96	1,703.54	1,918,521.11	542,695.66	36.2726564	-107.6884909
8,149.00	90.84	123.56	5,552.62	-716.87	1,755.99	1,918,486.28	542,748.15	36.2725605	-107.6883130
8,212.00	91.65	122.98	5,551.25	-751.42	1,808.65	1,918,451.80	542,800.87	36.2724656	-107.6881343
8,275.00	88.99	122.15	5,550.90	-785.33	1,861.74	1,918,417.97	542,854.00	36.2723724	-107.6879542
8,338.00	89.29	121.44	5,551.84	-818.52	1,915.27	1,918,384.86	542,907.59	36.2722812	-107.6877726
8,401.00	89.56	121.15	5,552.48	-851.24	1,969.11	1,918,352.21	542,961.47	36.2721913	-107.6875900
8,464.00	90.00	120.53	5,552.72	-883.54	2,023.20	1,918,319.99	543,015.61	36.2721026	-107.6874065
8,527.00	90.17	120.70	5,552.62	-915.62	2,077.42	1,918,287.99	543,069.87	36.2720145	-107.6872226
8,590.00	90.00	120.68	5,552.53	-947.77	2,131.59	1,918,255.91	543,124.09	36.2719261	-107.6870388
8,653.00	90.81	123.16	5,552.08	-981.08	2,185.06	1,918,222.68	543,177.61	36.2718346	-107.6868574
8,715.00	91.48	122.46	5,550.85	-1,014.67	2,237.16	1,918,189.17	543,229.75	36.2717423	-107.6866807
8,777.00	90.24	122.83	5,549.92	-1,048.11	2,289.36	1,918,155.80	543,282.00	36.2716504	-107.6865036
8,838.00	90.47	123.02	5,549.54	-1,081.26	2,340.56	1,918,122.72	543,333.25	36.2715594	-107.6863299
8,899.00	91.14	122.05	5,548.68	-1,114.07	2,391.98	1,918,089.99	543,384.72	36.2714692	-107.6861555
8,961.00	90.17	121.89	5,547.97	-1,146.89	2,444.57	1,918,057.24	543,437.36	36.2713790	-107.6859771
9,022.00	89.16	122.43	5,548.33	-1,179.36	2,496.21	1,918,024.85	543,489.04	36.2712898	-107.6858019
9,084.00	89.63	123.51	5,548.98	-1,213.10	2,548.22	1,917,991.19	543,541.10	36.2711971	-107.6856255
9,145.00	90.37	122.36	5,548.98	-1,246.26	2,599.42	1,917,958.09	543,592.35	36.2711060	-107.6854518
9,206.00	90.91	122.16	5,548.30	-1,278.82	2,651.00	1,917,925.61	543,643.97	36.2710166	-107.6852769
9,268.00	89.97	122.57	5,547.83	-1,312.01	2,703.36	1,917,892.50	543,696.39	36.2709254	-107.6850992
9,327.00	90.03	125.37	5,547.83	-1,344.97	2,752.29	1,917,859.61	543,745.36	36.2708348	-107.6849333
9,388.00	89.66	126.36	5,547.99	-1,380.71	2,801.72	1,917,823.94	543,794.84	36.2707366	-107.6847656
9,448.00	90.24	126.46	5,548.04	-1,416.32	2,850.01	1,917,788.40	543,843.18	36.2706388	-107.6846018
9,509.00	91.34	126.17	5,547.20	-1,452.44	2,899.16	1,917,752.34	543,892.38	36.2705395	-107.6844351
9,570.00	89.73	126.35	5,546.63	-1,488.52	2,948.34	1,917,716.34	543,941.62	36.2704404	-107.6842683
9,630.00	90.13	126.68	5,546.71	-1,524.22	2,996.56	1,917,680.71	543,989.89	36.2703423	-107.6841047
9,691.00	91.18	126.37	5,546.01	-1,560.52	3,045.58	1,917,644.47	544,038.96	36.2702426	-107.6839384
9,752.00	89.87	126.37	5,545.45	-1,596.69	3,094.69	1,917,608.37	544,088.12	36.2701432	-107.6837718
9,813.00	90.47	126.20	5,545.27	-1,632.79	3,143.86	1,917,572.35	544,137.34	36.2700440	-107.6836050
9,875.00	90.91	126.74	5,544.52	-1,669.64	3,193.72	1,917,535.57	544,187.25	36.2699428	-107.6834359
9,935.00	89.73	126.71	5,544.19	-1,705.52	3,241.80	1,917,499.76	544,235.39	36.2698442	-107.6832728
9,996.00	90.22	126.81	5,544.21	-1,742.03	3,290.67	1,917,463.32	544,284.32	36.2697439	-107.6831070
10,057.00	91.04	126.23	5,543.54	-1,778.33	3,339.69	1,917,427.09	544,333.39	36.2696442	-107.6829408
10,117.00	90.07	125.88	5,542.96	-1,813.64	3,388.20	1,917,391.85	544,381.94	36.2695471	-107.6827762
10,178.00	90.91	125.55	5,542.44	-1,849.25	3,437.72	1,917,356.32	544,431.52	36.2694493	-107.6826082

Company: WPX Energy
 Project: T24N R8W
 Site: Chaco 2408-33D
 Well: MC 5 COM #119H
 Wellbore: Wellbore #1
 Design: Wellbore #1

Local Co-ordinate Reference: Well MC 5 COM #119H - Slot A3
 TVD Reference: GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
 MD Reference: GL 7020' & RKB 14' @ 7034.00usft (Aztec 920)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 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
10,239.00	90.10	125.69	5,541.90	-1,884.77	3,487.31	1,917,320.86	544,481.15	36.2693517	-107.6824401
10,299.00	90.75	124.44	5,541.46	-1,919.24	3,536.42	1,917,286.46	544,530.31	36.2692570	-107.6822735
10,360.00	89.76	124.28	5,541.19	-1,953.67	3,586.77	1,917,252.11	544,580.71	36.2691624	-107.6821027
10,421.00	90.07	124.45	5,541.28	-1,988.10	3,637.12	1,917,217.75	544,631.12	36.2690678	-107.6819319
10,482.00	90.84	123.60	5,540.79	-2,022.23	3,687.68	1,917,183.69	544,681.72	36.2689740	-107.6817604
10,543.00	89.96	123.03	5,540.37	-2,055.73	3,738.65	1,917,150.26	544,732.74	36.2688820	-107.6815875
10,603.00	90.54	122.48	5,540.10	-2,088.19	3,789.11	1,917,117.87	544,783.25	36.2687928	-107.6814164
10,664.00	89.76	122.21	5,539.94	-2,120.83	3,840.64	1,917,085.31	544,834.83	36.2687031	-107.6812415
10,725.00	89.40	121.55	5,540.39	-2,153.05	3,892.44	1,917,053.17	544,886.67	36.2686146	-107.6810659
10,785.00	90.13	120.66	5,540.64	-2,184.04	3,943.81	1,917,022.25	544,938.09	36.2685294	-107.6808916
10,846.00	90.48	121.27	5,540.31	-2,215.43	3,996.12	1,916,990.94	544,990.44	36.2684432	-107.6807142
10,906.00	91.36	121.18	5,539.35	-2,246.53	4,047.42	1,916,959.91	545,041.78	36.2683577	-107.6805402
10,968.00	90.40	121.71	5,538.40	-2,278.87	4,100.31	1,916,927.65	545,094.72	36.2682688	-107.6803608
11,029.00	89.73	122.51	5,538.33	-2,311.29	4,151.97	1,916,895.30	545,146.43	36.2681797	-107.6801855
11,092.00	90.57	121.71	5,538.16	-2,344.78	4,205.34	1,916,861.89	545,199.84	36.2680877	-107.6800045
11,156.00	91.38	121.09	5,537.07	-2,378.12	4,259.95	1,916,828.63	545,254.51	36.2679961	-107.6798193
11,219.00	92.05	120.72	5,535.19	-2,410.46	4,313.99	1,916,796.36	545,308.58	36.2679072	-107.6796360
11,283.00	88.92	119.65	5,534.65	-2,442.63	4,369.30	1,916,764.27	545,363.94	36.2678188	-107.6794484
11,346.00	89.13	119.35	5,535.72	-2,473.65	4,424.12	1,916,733.33	545,418.81	36.2677336	-107.6792624
11,410.00	89.66	121.06	5,536.39	-2,505.84	4,479.43	1,916,701.21	545,474.16	36.2676451	-107.6790748
11,473.00	90.17	121.43	5,536.49	-2,538.52	4,533.29	1,916,668.61	545,528.07	36.2675553	-107.6788921
11,536.00	90.57	122.87	5,536.08	-2,572.05	4,586.63	1,916,635.17	545,581.46	36.2674632	-107.6787112
11,599.00	89.26	121.96	5,536.17	-2,605.82	4,639.81	1,916,601.47	545,634.69	36.2673704	-107.6785308
11,663.00	90.13	121.82	5,536.52	-2,639.63	4,694.15	1,916,567.74	545,689.08	36.2672775	-107.6783465
11,726.00	89.43	120.62	5,536.76	-2,672.28	4,748.02	1,916,535.17	545,743.00	36.2671878	-107.6781638
11,789.00	91.21	120.41	5,536.41	-2,704.27	4,802.29	1,916,503.26	545,797.31	36.2670999	-107.6779797
11,853.00	91.51	120.37	5,534.89	-2,736.63	4,857.48	1,916,470.97	545,852.55	36.2670110	-107.6777925
11,916.00	91.85	120.01	5,533.04	-2,768.30	4,911.92	1,916,439.38	545,907.03	36.2669239	-107.6776079
11,980.00	92.29	119.49	5,530.73	-2,800.04	4,967.44	1,916,407.72	545,962.60	36.2668367	-107.6774195
12,043.00	92.82	121.26	5,527.92	-2,831.86	5,021.74	1,916,375.98	546,016.94	36.2667493	-107.6772354
12,106.00	92.62	121.42	5,524.93	-2,864.59	5,075.49	1,916,343.32	546,070.74	36.2666593	-107.6770531
12,166.00	93.26	119.06	5,520.31	-2,909.85	5,153.13	1,916,298.17	546,148.45	36.2665350	-107.6768797
12,260.00	92.32	119.51	5,517.20	-2,941.12	5,208.89	1,916,266.98	546,204.25	36.2664490	-107.6766006
12,323.00	90.84	120.49	5,515.46	-2,972.61	5,263.42	1,916,235.58	546,258.83	36.2663625	-107.6764156
12,386.00	90.47	122.66	5,514.74	-3,005.59	5,317.09	1,916,202.67	546,312.54	36.2662719	-107.6762336
12,450.00	90.04	124.70	5,514.46	-3,041.08	5,370.34	1,916,167.26	546,365.85	36.2661743	-107.6760530
12,513.00	90.67	125.10	5,514.06	-3,077.13	5,422.01	1,916,131.29	546,417.57	36.2660753	-107.6758777
12,576.00	91.10	125.58	5,513.09	-3,113.56	5,473.40	1,916,094.92	546,469.00	36.2659752	-107.6757035
12,639.00	91.55	126.35	5,511.64	-3,150.55	5,524.37	1,916,058.01	546,520.03	36.2658735	-107.6755306
12,703.00	90.50	126.14	5,510.49	-3,188.38	5,575.98	1,916,020.25	546,571.69	36.2657696	-107.6753555
12,766.00	90.40	126.30	5,510.00	-3,225.61	5,626.80	1,915,983.10	546,622.57	36.2656673	-107.6751832
12,829.00	90.74	126.83	5,509.37	-3,263.14	5,677.40	1,915,945.64	546,673.22	36.2655642	-107.6750116
12,893.00	90.94	127.36	5,508.43	-3,301.74	5,728.44	1,915,907.12	546,724.32	36.2654581	-107.6748384
12,956.00	90.74	127.34	5,507.51	-3,339.95	5,778.52	1,915,868.97	546,774.45	36.2653531	-107.6746686
13,020.00	90.24	127.97	5,506.96	-3,379.05	5,829.19	1,915,829.95	546,825.17	36.2652457	-107.6744968
13,083.00	91.48	127.99	5,506.01	-3,417.81	5,878.84	1,915,791.26	546,874.88	36.2651391	-107.6743284
13,146.00	90.66	128.30	5,504.84	-3,456.72	5,928.37	1,915,752.42	546,924.48	36.2650322	-107.6741604
13,209.00	90.67	127.57	5,504.11	-3,495.44	5,978.06	1,915,713.77	546,974.22	36.2649258	-107.6739918
13,273.00	90.84	126.67	5,503.26	-3,534.06	6,029.09	1,915,675.22	547,025.30	36.2648197	-107.6738188
13,336.00	92.15	127.08	5,501.62	-3,571.85	6,079.47	1,915,637.50	547,075.73	36.2647159	-107.6736479
13,399.00	93.21	127.07	5,498.67	-3,609.79	6,129.67	1,915,599.64	547,125.99	36.2646116	-107.6734776
13,422.00	93.63	126.79	5,497.30	-3,623.59	6,148.03	1,915,585.87	547,144.37	36.2645737	-107.6734154
Last SDI Lateral MWD Survey									
13,466.00	93.63	126.79	5,494.52	-3,649.89	6,183.19	1,915,559.62	547,179.57	36.2645014	-107.6732961
RSI @ 13,466' MD - 36.2645015 / -107.6732961									

Company:	WPX Energy	Local Co-ordinate Reference:	Well MC 5 COM #119H - Slot A3
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 #119H	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
13,485.00	93.63	126.79	5,493.31	-3,661.24	6,198.38	1,915,548.29	547,194.77	36.2644702	-107.6732446
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
448.00	447.99	1.07	-1.50	First SDI Surface MWD Survey
4,964.00	4,850.54	773.25	-579.28	Last SDI Surface MWD Survey
5,027.00	4,913.50	773.83	-577.80	First SDI Curve MWD Survey
6,039.00	5,558.73	435.00	-11.26	7" Casing @ 6039' MD
6,039.00	5,558.73	435.00	-11.26	36.2757250 / -107.6943082
6,064.00	5,558.84	421.62	9.86	Last SDI Curve MWD Survey
6,128.00	5,557.90	387.40	63.94	First SDI Lateral MWD Survey
13,422.00	5,497.30	-3,623.59	6,148.03	Last SDI Lateral MWD Survey
13,466.00	5,494.52	-3,649.89	6,183.19	RSI @ 13,466' MD
13,466.00	5,494.52	-3,649.89	6,183.19	36.2645015 / -107.6732961
13,485.00	5,493.31	-3,661.24	6,198.38	Projection to TD

Checked By: _____ Approved By: _____ Date: _____