

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 30-039-31214		*Pool Code 98088	*Pool Name CHACO UNIT NE HZ (OIL)
*Property Code 313800	*Property Name NE CHACO COM		*Well Number 903H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 7014'

¹⁰ Surface Location

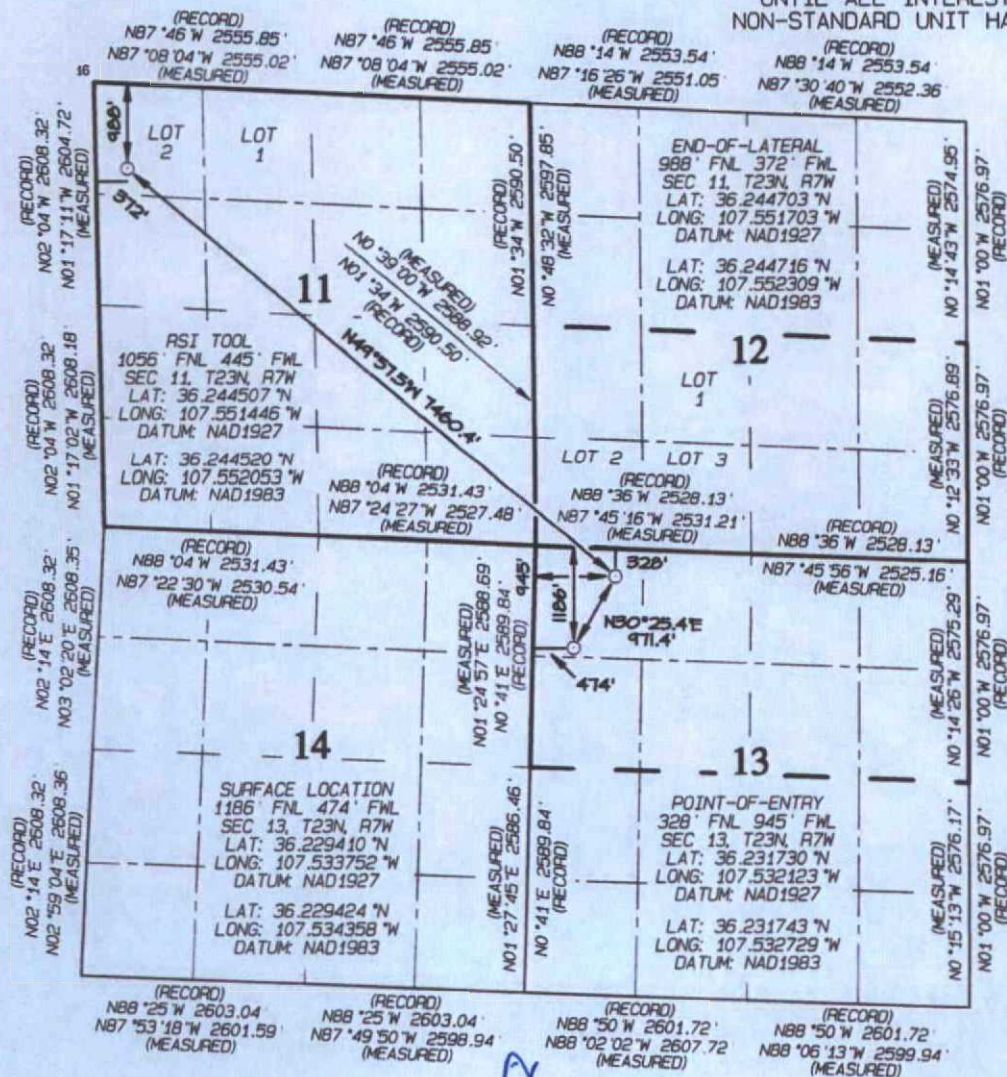
UL or lot no.	Section	Township	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County
D	13	23N	7W		1186	NORTH	474	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County
D	11	23N	7W	2	988	NORTH	372	WEST	RIO ARriba

*Dedicated Acres 1268.79	Entire - Section 11 S/2 - Section 12 N/2 - Section 13	*Joint or Infill	*Consolidation Code	*Order No. R13817-A
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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



CONFIDENTIAL

¹⁷ OPERATOR CERTIFICATION

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

Signature: *[Signature]* Date: 10/19/15
Printed Name: Gary Spanio
E-mail Address: gspanio@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: OCTOBER 15, 2015
Survey Date: OCTOBER 24, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

WPXENERGYSM



WPX Energy

T23N R7W

Chaco 2307-13D

NE Chaco COM #903H - Slot A2

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

08 October, 2015

CONFIDENTIAL



Scientific Drilling

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



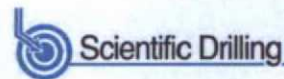
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Company Name: WPX Energy
Project: T23N R7W
Site: Chaco 2307-13D
Well: NE Chaco COM #903H

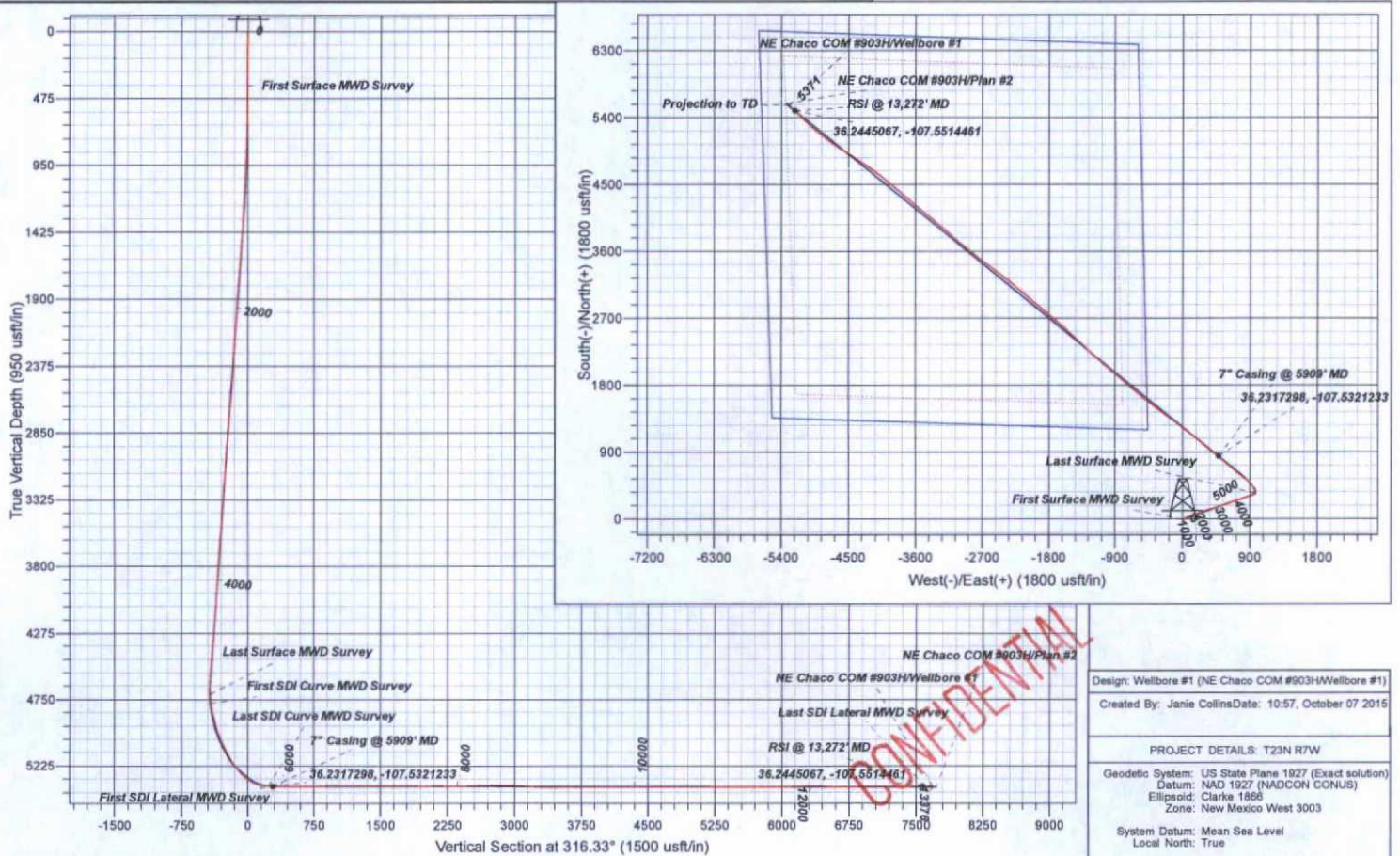


Azimuths to True North
Magnetic North: 9.03°

Magnetic Field
Strength: 49797.0snT
Dip Angle: 62.93°
Date: 9/24/2015
Model: HDGM

WELL DETAILS: NE Chaco COM #903H

+N/-S	+E/-W	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)	7014.00		
		Northing	Easting	Latitude	Longitude
0.00	0.00	1902883.40	588357.84	36.2294100	-107.5337500
A2					



Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #903H - Slot A2
Project:	T23N R7W	TVD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Site:	Chaco 2307-13D	MD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Well:	NE Chaco COM #903H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

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 2307-13D		
Site Position:		Northing:	1,902,865.23 usft
From:	Lat/Long	Easting:	588,366.75 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Grid Convergence:	0.18 °

Well	NE Chaco COM #903H - Slot A2		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
			Ground Level:

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	9/24/2015	9.03
			Dip Angle (°)
			62.93
			Field Strength (nT)
			49,797

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 (°)
			316.33

Survey Program	Date 10/8/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
14.00	304.00	Surface Gyro - adjusted for Aztec 920 (We	NS-GYRO-MS
387.00	4,847.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD
4,910.00	5,860.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD
5,944.00	13,376.00	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	CONFIDENTIAL								
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	1,902,883.40	588,357.84	36.2294100	-107.5337501
14.00	0.00	0.00	14.00	0.00	0.00	1,902,883.40	588,357.84	36.2294100	-107.5337501
44.00	0.86	180.22	44.00	-0.23	0.00	1,902,883.18	588,357.84	36.2294094	-107.5337501
74.00	0.73	185.60	74.00	-0.64	-0.02	1,902,882.76	588,357.82	36.2294082	-107.5337501
104.00	0.54	178.83	103.99	-0.97	-0.04	1,902,882.43	588,357.81	36.2294073	-107.5337502
134.00	0.59	175.43	133.99	-1.27	-0.02	1,902,882.14	588,357.83	36.2294065	-107.5337501
164.00	0.66	169.46	163.99	-1.59	0.02	1,902,881.81	588,357.87	36.2294056	-107.5337500
194.00	0.63	167.68	193.99	-1.92	0.09	1,902,881.48	588,357.94	36.2294047	-107.5337498
224.00	0.84	175.77	223.99	-2.30	0.14	1,902,881.10	588,357.99	36.2294037	-107.5337496

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #903H - Slot A2
Project:	T23N R7W	TVD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Site:	Chaco 2307-13D	MD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Well:	NE Chaco COM #903H	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
254.00	1.03	164.24	253.98	-2.78	0.23	1,902,880.62	588,358.08	36.2294023	-107.5337493
284.00	1.10	168.52	283.98	-3.32	0.36	1,902,880.08	588,358.21	36.2294008	-107.5337488
304.00	1.13	169.09	303.97	-3.70	0.44	1,902,879.70	588,358.29	36.2293998	-107.5337486
387.00	0.98	171.11	386.96	-5.21	0.70	1,902,878.19	588,358.56	36.2293957	-107.5337477
First Surface MWD Survey									
449.00	0.84	50.20	448.96	-5.44	1.13	1,902,877.96	588,358.99	36.2293950	-107.5337462
510.00	0.81	52.67	509.95	-4.90	1.82	1,902,878.51	588,359.68	36.2293965	-107.5337439
571.00	1.95	68.11	570.93	-4.25	3.12	1,902,879.17	588,360.98	36.2293983	-107.5337395
632.00	3.04	72.20	631.87	-3.37	5.63	1,902,880.05	588,363.48	36.2294007	-107.5337310
693.00	4.31	69.39	692.75	-2.06	9.31	1,902,881.37	588,367.16	36.2294043	-107.5337185
754.00	5.68	69.54	753.51	-0.20	14.29	1,902,883.24	588,372.13	36.2294094	-107.5337016
815.00	7.03	68.65	814.14	2.21	20.59	1,902,885.68	588,378.43	36.2294161	-107.5336802
875.00	8.34	66.96	873.60	5.25	28.02	1,902,888.74	588,385.84	36.2294244	-107.5336551
936.00	9.37	69.00	933.87	8.76	36.72	1,902,892.28	588,394.54	36.2294341	-107.5336255
996.00	10.32	70.22	992.98	12.33	46.34	1,902,895.88	588,404.15	36.2294439	-107.5335929
1,057.00	11.10	70.03	1,052.92	16.19	57.00	1,902,899.77	588,414.80	36.2294544	-107.5335568
1,118.00	11.72	69.17	1,112.72	20.40	68.31	1,902,904.01	588,426.09	36.2294660	-107.5335184
1,179.00	12.37	68.02	1,172.37	25.04	80.16	1,902,908.69	588,437.93	36.2294788	-107.5334783
1,240.00	13.10	67.90	1,231.87	30.09	92.63	1,902,913.78	588,450.37	36.2294926	-107.5334360
1,300.00	13.56	67.12	1,290.25	35.38	105.41	1,902,919.11	588,463.14	36.2295072	-107.5333927
1,361.00	14.26	66.69	1,349.47	41.14	118.89	1,902,924.91	588,476.61	36.2295230	-107.5333469
1,421.00	15.10	68.71	1,407.51	46.90	132.96	1,902,930.71	588,490.66	36.2295388	-107.5332992
1,482.00	15.72	72.27	1,466.31	52.30	148.24	1,902,936.16	588,505.92	36.2295537	-107.5332475
1,543.00	16.52	71.36	1,524.92	57.59	164.33	1,902,941.50	588,521.99	36.2295682	-107.5331929
1,604.00	16.93	71.13	1,583.34	63.23	180.95	1,902,947.20	588,538.60	36.2295837	-107.5331365
1,665.00	17.12	72.48	1,641.66	68.81	197.92	1,902,952.82	588,555.54	36.2295990	-107.5330790
1,725.00	16.75	74.09	1,699.06	73.84	214.65	1,902,957.90	588,572.27	36.2296128	-107.5330223
1,786.00	15.67	71.86	1,757.64	78.81	230.93	1,902,962.93	588,588.53	36.2296265	-107.5329671
1,848.00	14.87	67.29	1,817.45	84.49	246.23	1,902,968.65	588,603.81	36.2296421	-107.5329152
1,908.00	14.58	65.58	1,875.48	90.59	260.21	1,902,974.79	588,617.77	36.2296588	-107.5328678
1,970.00	13.75	68.20	1,935.59	96.55	274.16	1,902,980.80	588,631.70	36.2296752	-107.5328205
2,030.00	13.13	70.75	1,993.95	101.44	287.21	1,902,985.73	588,644.74	36.2296887	-107.5327763
2,091.00	13.94	72.28	2,053.26	105.96	300.75	1,902,990.30	588,658.27	36.2297011	-107.5327303
2,152.00	13.93	73.67	2,112.46	110.26	314.80	1,902,994.64	588,672.30	36.2297129	-107.5326827
2,212.00	13.82	70.57	2,170.71	114.68	328.49	1,902,999.10	588,685.97	36.2297250	-107.5326363
2,272.00	13.09	68.07	2,229.06	119.60	341.55	1,903,004.06	588,699.02	36.2297385	-107.5325920
2,333.00	13.09	69.94	2,288.48	124.55	354.44	1,903,009.05	588,711.90	36.2297521	-107.5325483
2,394.00	12.92	71.13	2,347.91	129.12	367.38	1,903,013.66	588,724.83	36.2297647	-107.5325044
2,455.00	12.95	71.83	2,407.37	133.46	380.33	1,903,018.04	588,737.76	36.2297766	-107.5324605
2,515.00	14.18	74.45	2,465.69	137.53	393.80	1,903,022.15	588,751.22	36.2297878	-107.5324149
2,575.00	15.78	76.09	2,523.65	141.46	408.80	1,903,026.13	588,766.20	36.2297986	-107.5323640
2,635.00	16.52	76.60	2,581.28	145.40	425.02	1,903,030.11	588,782.41	36.2298094	-107.5323090
2,696.00	16.86	73.89	2,639.71	149.86	441.95	1,903,034.63	588,799.33	36.2298217	-107.5322516
2,756.00	16.85	72.67	2,697.14	154.87	458.61	1,903,039.69	588,815.98	36.2298354	-107.5321951
2,817.00	16.64	71.81	2,755.55	160.23	475.35	1,903,045.10	588,832.70	36.2298501	-107.5321383
2,880.00	16.85	70.27	2,815.88	166.13	492.52	1,903,051.05	588,849.84	36.2298663	-107.5320802
2,943.00	16.58	69.27	2,876.22	172.39	509.52	1,903,057.37	588,866.83	36.2298835	-107.5320225
3,007.00	16.40	68.55	2,937.59	178.93	526.47	1,903,063.95	588,883.75	36.2299015	-107.5319650
3,070.00	16.61	68.29	2,997.99	185.51	543.11	1,903,070.59	588,900.38	36.2299196	-107.5319086
3,133.00	16.26	66.79	3,058.42	192.32	559.58	1,903,077.45	588,916.83	36.2299383	-107.5318528
3,197.00	15.86	70.72	3,119.92	198.74	576.07	1,903,083.92	588,933.30	36.2299559	-107.5317968
3,261.00	15.52	73.20	3,181.54	204.10	592.52	1,903,089.33	588,949.73	36.2299706	-107.5317411
3,325.00	15.11	72.18	3,243.26	209.13	608.66	1,903,094.41	588,965.86	36.2299845	-107.5316863
3,388.00	14.68	71.81	3,304.15	214.13	624.06	1,903,099.46	588,981.24	36.2299982	-107.5316341
3,452.00	14.05	70.42	3,366.14	219.26	639.09	1,903,104.64	588,996.25	36.2300123	-107.5315832

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #903H - Slot A2
Project:	T23N R7W	TVD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Site:	Chaco 2307-13D	MD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Well:	NE Chaco COM #903H	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
3,515.00	14.61	71.15	3,427.18	224.39	653.81	1,903,109.82	589,010.96	36.2300264	-107.5315333
3,578.00	14.79	74.00	3,488.12	229.18	669.06	1,903,114.65	589,026.19	36.2300395	-107.5314816
3,642.00	14.50	73.00	3,550.04	233.77	684.58	1,903,119.29	589,041.69	36.2300522	-107.5314290
3,705.00	14.40	71.29	3,611.05	238.59	699.54	1,903,124.15	589,056.64	36.2300654	-107.5313782
3,768.00	14.93	72.09	3,672.00	243.60	714.68	1,903,129.21	589,071.77	36.2300792	-107.5313269
3,831.00	15.10	72.67	3,732.85	248.54	730.24	1,903,134.20	589,087.31	36.2300927	-107.5312741
3,894.00	14.98	71.63	3,793.69	253.55	745.80	1,903,139.26	589,102.85	36.2301065	-107.5312214
3,957.00	14.77	69.75	3,854.58	258.90	761.06	1,903,144.65	589,118.10	36.2301212	-107.5311696
4,021.00	14.42	68.78	3,916.51	264.60	776.14	1,903,150.40	589,133.16	36.2301369	-107.5311185
4,085.00	13.98	65.97	3,978.56	270.64	790.63	1,903,156.48	589,147.63	36.2301534	-107.5310694
4,148.00	14.19	68.09	4,039.66	276.62	804.74	1,903,162.51	589,161.73	36.2301699	-107.5310215
4,212.00	14.74	71.20	4,101.64	282.17	819.73	1,903,168.10	589,176.70	36.2301851	-107.5309707
4,276.00	14.97	71.37	4,163.50	287.43	835.27	1,903,173.42	589,192.22	36.2301996	-107.5309180
4,339.00	15.21	73.00	4,224.33	292.45	850.88	1,903,178.48	589,207.82	36.2302133	-107.5308651
4,402.00	15.52	73.25	4,285.07	297.29	866.86	1,903,183.37	589,223.78	36.2302266	-107.5308109
4,466.00	16.18	72.47	4,346.64	302.45	883.56	1,903,188.58	589,240.46	36.2302408	-107.5307543
4,529.00	16.96	73.22	4,407.02	307.74	900.73	1,903,193.93	589,257.62	36.2302554	-107.5306961
4,592.00	16.53	70.89	4,467.35	313.33	917.99	1,903,199.57	589,274.86	36.2302707	-107.5306375
4,656.00	14.67	67.45	4,528.99	319.42	934.08	1,903,205.71	589,290.94	36.2302874	-107.5305830
4,720.00	13.79	67.62	4,591.03	325.43	948.62	1,903,211.76	589,305.45	36.2303039	-107.5305337
4,783.00	13.13	53.06	4,652.32	332.59	961.29	1,903,218.97	589,318.10	36.2303236	-107.5304907
4,847.00	12.99	25.78	4,714.72	343.45	970.23	1,903,229.85	589,327.01	36.2303534	-107.5304604
Last Surface MWD Survey									
4,910.00	15.60	1.86	4,775.82	358.31	973.59	1,903,244.72	589,330.32	36.2303943	-107.5304490
First SDI Curve MWD Survey									
4,973.00	18.86	347.54	4,836.01	376.73	971.67	1,903,263.13	589,328.34	36.2304449	-107.5304555
5,037.00	22.42	337.75	4,895.91	398.14	964.81	1,903,284.52	589,321.42	36.2305037	-107.5304788
5,100.00	26.82	331.02	4,953.18	421.71	953.37	1,903,308.05	589,309.90	36.2305684	-107.5305176
5,163.00	31.28	326.05	5,008.25	447.73	937.34	1,903,334.02	589,293.79	36.2306399	-107.5305719
5,227.00	35.49	320.53	5,061.69	475.87	916.23	1,903,362.10	589,272.60	36.2307172	-107.5306435
5,255.00	37.51	319.56	5,084.19	488.63	905.54	1,903,374.83	589,261.87	36.2307523	-107.5306797
5,318.00	39.43	311.92	5,133.55	516.62	878.19	1,903,402.73	589,234.43	36.2308292	-107.5307725
5,381.00	43.86	307.24	5,180.62	543.21	845.90	1,903,429.22	589,202.07	36.2309022	-107.5308819
5,445.00	48.19	307.40	5,225.05	571.13	809.29	1,903,457.03	589,165.36	36.2309789	-107.5310061
5,508.00	54.98	308.35	5,264.17	601.43	770.36	1,903,487.21	589,126.34	36.2310622	-107.5311381
5,572.00	61.45	308.66	5,297.87	635.29	727.81	1,903,520.93	589,083.69	36.2311552	-107.5312823
5,636.00	66.01	309.39	5,326.19	671.42	683.24	1,903,556.93	589,039.01	36.2312544	-107.5314334
5,699.00	73.95	311.13	5,347.74	709.66	638.13	1,903,595.03	588,993.77	36.2313595	-107.5315864
5,762.00	81.60	311.27	5,361.07	750.18	591.83	1,903,635.41	588,947.36	36.2314708	-107.5317434
5,826.00	85.08	310.22	5,368.49	791.67	543.68	1,903,676.74	588,899.07	36.2315848	-107.5319066
5,860.00	87.04	309.41	5,370.83	813.38	517.63	1,903,698.38	588,872.95	36.2316444	-107.5319950
Last SDI Curve MWD Survey									
5,909.00	88.81	309.35	5,372.60	844.45	479.78	1,903,729.33	588,835.01	36.2317298	-107.5321233
36.2317298, -107.5321233 - 7" Casing @ 5909' MD									
5,944.00	90.07	309.31	5,372.94	866.63	452.71	1,903,751.43	588,807.87	36.2317907	-107.5322151
First SDI Lateral MWD Survey									
5,976.00	89.60	308.96	5,373.04	886.83	427.89	1,903,771.55	588,782.99	36.2318462	-107.5322992
6,039.00	89.36	309.16	5,373.61	926.53	378.97	1,903,811.09	588,733.95	36.2319553	-107.5324651
6,102.00	90.04	309.95	5,373.94	966.64	330.40	1,903,851.06	588,685.25	36.2320655	-107.5326298
6,165.00	90.22	309.78	5,373.80	1,007.03	282.04	1,903,891.29	588,636.77	36.2321764	-107.5327937
6,229.00	90.84	309.78	5,373.20	1,047.97	232.86	1,903,932.09	588,587.46	36.2322889	-107.5329605
6,293.00	90.84	309.37	5,372.27	1,088.74	183.53	1,903,972.71	588,538.01	36.2324009	-107.5331278
6,356.00	90.57	309.30	5,371.49	1,128.67	134.81	1,904,012.49	588,489.17	36.2325106	-107.5332930
6,421.00	89.66	308.78	5,371.36	1,169.61	84.33	1,904,053.27	588,438.55	36.2326231	-107.5334641

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #903H - Slot A2
Project:	T23N R7W	TVD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Site:	Chaco 2307-13D	MD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Well:	NE Chaco COM #903H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

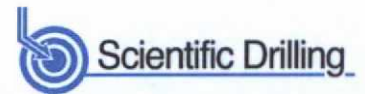
Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,484.00	89.70	307.87	5,371.71	1,208.68	34.90	1,904,092.18	588,389.01	36.2327304	-107.5336317
6,548.00	90.27	307.70	5,371.73	1,247.89	-15.68	1,904,131.24	588,338.31	36.2328381	-107.5338032
6,611.00	90.20	307.54	5,371.47	1,286.35	-65.58	1,904,169.54	588,288.29	36.2329437	-107.5339724
6,675.00	90.20	307.63	5,371.25	1,325.38	-116.29	1,904,208.42	588,237.45	36.2330510	-107.5341444
6,738.00	89.46	308.80	5,371.43	1,363.49	-166.46	1,904,246.37	588,187.17	36.2331557	-107.5343145
6,802.00	90.54	307.25	5,371.43	1,402.02	-217.56	1,904,284.75	588,135.95	36.2332615	-107.5344877
6,866.00	89.73	306.51	5,371.28	1,440.43	-268.75	1,904,323.00	588,084.64	36.2333670	-107.5346613
6,929.00	90.23	307.03	5,371.30	1,478.14	-319.22	1,904,360.55	588,034.06	36.2334706	-107.5348324
6,993.00	89.73	308.00	5,371.33	1,517.12	-369.98	1,904,399.37	587,983.18	36.2335777	-107.5350046
7,057.00	89.93	307.62	5,371.52	1,556.35	-420.54	1,904,438.45	587,932.49	36.2336855	-107.5351760
7,119.00	90.10	307.76	5,371.50	1,594.26	-469.61	1,904,476.20	587,883.31	36.2337896	-107.5353424
7,183.00	90.20	309.62	5,371.33	1,634.26	-519.56	1,904,516.05	587,833.24	36.2338995	-107.5355117
7,247.00	89.23	308.81	5,371.65	1,674.72	-569.14	1,904,556.36	587,783.53	36.2340107	-107.5356799
7,310.00	90.50	309.15	5,371.80	1,714.35	-618.11	1,904,595.84	587,734.43	36.2341195	-107.5358459
7,375.00	89.90	311.67	5,371.57	1,756.49	-667.60	1,904,637.82	587,684.82	36.2342353	-107.5360137
7,437.00	89.80	311.37	5,371.73	1,797.58	-714.02	1,904,678.77	587,638.27	36.2343482	-107.5361711
7,501.00	89.46	311.18	5,372.15	1,839.80	-762.12	1,904,720.84	587,590.04	36.2344641	-107.5363342
7,564.00	90.17	311.66	5,372.35	1,881.48	-809.36	1,904,762.37	587,542.67	36.2345786	-107.5364944
7,628.00	89.70	311.15	5,372.42	1,923.81	-857.37	1,904,804.55	587,494.54	36.2346949	-107.5366572
7,691.00	90.37	310.59	5,372.39	1,965.03	-905.01	1,904,845.63	587,446.77	36.2348081	-107.5368187
7,755.00	90.13	310.46	5,372.11	2,006.62	-953.65	1,904,887.06	587,397.99	36.2349224	-107.5369837
7,818.00	89.73	309.80	5,372.18	2,047.22	-1,001.82	1,904,927.52	587,349.70	36.2350339	-107.5371470
7,882.00	89.70	309.54	5,372.50	2,088.08	-1,051.08	1,904,968.22	587,300.31	36.2351462	-107.5373141
7,945.00	89.08	309.25	5,373.17	2,128.06	-1,099.77	1,905,008.05	587,251.50	36.2352560	-107.5374791
8,010.00	89.87	310.22	5,373.77	2,169.61	-1,149.75	1,905,049.45	587,201.39	36.2353701	-107.5376486
8,073.00	90.57	311.29	5,373.53	2,210.73	-1,197.47	1,905,090.42	587,153.55	36.2354831	-107.5378104
8,137.00	91.31	311.56	5,372.48	2,253.07	-1,245.45	1,905,132.62	587,105.43	36.2355994	-107.5379732
8,201.00	92.08	312.21	5,370.58	2,295.78	-1,293.08	1,905,175.18	587,057.68	36.2357167	-107.5381346
8,265.00	91.38	313.39	5,368.65	2,339.25	-1,340.02	1,905,218.50	587,010.61	36.2358361	-107.5382938
8,328.00	89.36	312.89	5,368.24	2,382.32	-1,385.98	1,905,261.43	586,964.51	36.2359544	-107.5384597
8,392.00	89.96	313.12	5,368.62	2,425.97	-1,432.78	1,905,304.93	586,917.57	36.2360743	-107.5386084
8,456.00	90.54	313.59	5,368.34	2,469.91	-1,479.32	1,905,348.73	586,870.90	36.2361950	-107.5387662
8,519.00	89.43	312.47	5,368.36	2,512.90	-1,525.37	1,905,391.57	586,824.71	36.2363131	-107.5389223
8,583.00	89.63	312.42	5,368.89	2,556.09	-1,572.59	1,905,434.62	586,777.36	36.2364318	-107.5390825
8,646.00	89.87	310.64	5,369.16	2,597.86	-1,619.75	1,905,476.24	586,730.07	36.2365465	-107.5392424
8,710.00	88.62	310.91	5,370.00	2,639.65	-1,668.22	1,905,517.88	586,681.48	36.2366613	-107.5394067
8,770.00	87.68	310.99	5,371.94	2,678.95	-1,713.51	1,905,557.05	586,636.06	36.2367693	-107.5395603
8,831.00	86.54	309.90	5,375.02	2,718.47	-1,759.87	1,905,596.42	586,589.58	36.2368778	-107.5397175
8,892.00	86.54	308.59	5,378.70	2,756.99	-1,807.02	1,905,634.80	586,542.31	36.2369836	-107.5398774
8,953.00	89.73	309.76	5,380.68	2,795.50	-1,854.28	1,905,673.16	586,494.93	36.2370894	-107.5400377
9,013.00	90.74	310.38	5,380.44	2,834.12	-1,900.20	1,905,711.64	586,448.90	36.2371955	-107.5401934
9,075.00	90.30	310.68	5,379.87	2,874.41	-1,947.32	1,905,751.78	586,401.65	36.2373062	-107.5403532
9,136.00	90.17	310.64	5,379.62	2,914.16	-1,993.59	1,905,791.38	586,355.26	36.2374154	-107.5405101
9,197.00	90.00	310.58	5,379.53	2,953.86	-2,039.90	1,905,830.95	586,308.82	36.2375244	-107.5406671
9,258.00	89.63	310.44	5,379.73	2,993.49	-2,086.28	1,905,870.43	586,262.33	36.2376333	-107.5408244
9,319.00	90.67	310.08	5,379.57	3,032.91	-2,132.83	1,905,909.70	586,215.65	36.2377416	-107.5409823
9,380.00	90.70	309.54	5,378.84	3,071.96	-2,179.68	1,905,948.61	586,168.68	36.2378488	-107.5411412
9,441.00	90.71	310.27	5,378.09	3,111.09	-2,226.47	1,905,987.59	586,121.77	36.2379563	-107.5412998
9,501.00	90.10	310.00	5,377.67	3,149.76	-2,272.34	1,906,026.13	586,075.78	36.2380625	-107.5414554
9,562.00	89.26	308.82	5,378.01	3,188.49	-2,319.47	1,906,064.71	586,028.53	36.2381689	-107.5416152
9,623.00	89.83	308.31	5,378.49	3,226.51	-2,367.16	1,906,102.58	585,980.72	36.2382734	-107.5417769
9,683.00	90.24	307.95	5,378.46	3,263.56	-2,414.36	1,906,139.48	585,933.41	36.2383751	-107.5419370
9,744.00	89.90	308.26	5,378.38	3,301.20	-2,462.36	1,906,176.98	585,885.29	36.2384785	-107.5420998
9,805.00	89.63	307.98	5,378.63	3,338.86	-2,510.35	1,906,214.49	585,837.19	36.2385820	-107.5422625
9,866.00	90.13	305.86	5,378.76	3,375.50	-2,559.11	1,906,250.98	585,788.31	36.2386826	-107.5424279

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #903H - Slot A2
Project:	T23N R7W	TVD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Site:	Chaco 2307-13D	MD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Well:	NE Chaco COM #903H	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
9,927.00	90.23	305.90	5,378.57	3,411.25	-2,608.54	1,906,286.57	585,738.77	36.2387808	-107.5425955
9,987.00	89.78	306.08	5,378.56	3,446.51	-2,657.09	1,906,321.68	585,690.12	36.2388777	-107.5427601
10,047.00	90.13	306.35	5,378.61	3,481.96	-2,705.49	1,906,356.98	585,641.60	36.2389750	-107.5429243
10,108.00	89.76	307.30	5,378.67	3,518.52	-2,754.32	1,906,393.39	585,592.66	36.2390754	-107.5430899
10,169.00	89.96	308.37	5,378.82	3,555.93	-2,802.50	1,906,430.66	585,544.37	36.2391782	-107.5432532
10,230.00	90.30	309.55	5,378.68	3,594.29	-2,849.93	1,906,468.87	585,496.82	36.2392836	-107.5434141
10,291.00	89.83	310.25	5,378.61	3,633.42	-2,896.73	1,906,507.85	585,449.90	36.2393911	-107.5435728
10,351.00	90.54	310.20	5,378.42	3,672.16	-2,942.54	1,906,546.46	585,403.97	36.2394975	-107.5437281
10,412.00	90.10	310.28	5,378.08	3,711.57	-2,989.10	1,906,585.72	585,357.29	36.2396057	-107.5438860
10,474.00	89.69	310.65	5,378.19	3,751.81	-3,036.27	1,906,625.81	585,309.99	36.2397162	-107.5440460
10,535.00	90.44	310.67	5,378.12	3,791.55	-3,082.54	1,906,665.41	585,263.60	36.2398254	-107.5442029
10,596.00	90.17	310.82	5,377.79	3,831.36	-3,128.76	1,906,705.08	585,217.26	36.2399348	-107.5443597
10,656.00	90.07	309.62	5,377.67	3,870.11	-3,174.57	1,906,743.68	585,171.33	36.2400412	-107.5445150
10,717.00	89.96	309.25	5,377.65	3,908.85	-3,221.68	1,906,782.28	585,124.10	36.2401476	-107.5446748
10,778.00	90.17	309.64	5,377.58	3,947.61	-3,268.79	1,906,820.89	585,076.87	36.2402541	-107.5448346
10,838.00	89.83	309.54	5,377.58	3,985.85	-3,315.03	1,906,858.99	585,030.51	36.2403591	-107.5449914
10,898.00	90.57	309.95	5,377.37	4,024.21	-3,361.16	1,906,897.20	584,984.26	36.2404645	-107.5451478
10,959.00	89.78	309.16	5,377.19	4,063.05	-3,408.19	1,906,935.90	584,937.11	36.2405712	-107.5453073
11,020.00	90.03	309.32	5,377.29	4,101.64	-3,455.44	1,906,974.35	584,889.75	36.2406772	-107.5454675
11,081.00	89.96	309.60	5,377.29	4,140.41	-3,502.53	1,907,012.97	584,842.53	36.2407836	-107.5456273
11,141.00	90.24	310.23	5,377.19	4,178.91	-3,548.55	1,907,051.32	584,796.39	36.2408894	-107.5457833
11,202.00	89.73	310.31	5,377.21	4,218.34	-3,595.09	1,907,090.61	584,749.73	36.2409977	-107.5459412
11,261.00	90.31	311.18	5,377.19	4,256.85	-3,639.79	1,907,128.98	584,704.91	36.2411035	-107.5460928
11,322.00	89.97	311.53	5,377.04	4,297.15	-3,685.58	1,907,169.14	584,659.00	36.2412142	-107.5462481
11,385.00	90.03	311.12	5,377.04	4,338.75	-3,732.89	1,907,210.60	584,611.56	36.2413284	-107.5464085
11,449.00	89.73	310.49	5,377.17	4,380.57	-3,781.34	1,907,252.27	584,562.99	36.2414433	-107.5465728
11,512.00	89.87	310.56	5,377.39	4,421.51	-3,829.22	1,907,293.06	584,514.97	36.2415557	-107.5467352
11,575.00	89.46	309.05	5,377.76	4,461.84	-3,877.62	1,907,333.24	584,466.45	36.2416665	-107.5468993
11,639.00	89.97	309.02	5,378.08	4,502.14	-3,927.33	1,907,373.39	584,416.62	36.2417772	-107.5470679
11,702.00	90.10	309.63	5,378.04	4,542.07	-3,976.07	1,907,413.16	584,367.76	36.2418869	-107.5472332
11,765.00	90.71	308.22	5,377.59	4,581.65	-4,025.08	1,907,452.59	584,318.63	36.2419956	-107.5473994
11,828.00	92.18	308.44	5,376.00	4,620.71	-4,074.48	1,907,491.50	584,269.10	36.2421029	-107.5475670
11,891.00	90.94	308.46	5,374.29	4,659.87	-4,123.80	1,907,530.50	584,219.66	36.2422104	-107.5477343
11,954.00	90.10	306.28	5,373.72	4,698.10	-4,173.86	1,907,568.58	584,169.48	36.2423154	-107.5479040
12,017.00	90.37	304.93	5,373.46	4,734.78	-4,225.08	1,907,605.10	584,118.15	36.2424162	-107.5480777
12,081.00	89.33	302.22	5,373.63	4,770.17	-4,278.40	1,907,640.33	584,064.72	36.2425134	-107.5482586
12,144.00	87.95	302.54	5,375.12	4,803.90	-4,331.59	1,907,673.89	584,011.43	36.2426060	-107.5484390
12,208.00	88.46	302.84	5,377.13	4,838.45	-4,385.42	1,907,708.27	583,957.49	36.2427009	-107.5486215
12,271.00	89.56	302.97	5,378.22	4,872.66	-4,438.31	1,907,742.33	583,904.50	36.2427949	-107.5488009
12,333.00	91.04	302.96	5,377.89	4,906.40	-4,490.32	1,907,775.90	583,852.38	36.2428875	-107.5489773
12,396.00	90.40	303.36	5,377.10	4,940.86	-4,543.06	1,907,810.19	583,799.54	36.2429822	-107.5491562
12,459.00	89.60	303.89	5,377.10	4,975.74	-4,595.52	1,907,844.92	583,746.97	36.2430780	-107.5493341
12,523.00	90.04	306.08	5,377.30	5,012.43	-4,647.95	1,907,881.45	583,694.43	36.2431788	-107.5495119
12,586.00	90.77	305.51	5,376.85	5,049.28	-4,699.05	1,907,918.14	583,643.21	36.2432800	-107.5496852
12,649.00	90.77	306.65	5,376.01	5,086.38	-4,749.96	1,907,955.08	583,592.19	36.2433818	-107.5498579
12,714.00	90.00	307.83	5,375.57	5,125.71	-4,801.70	1,907,994.25	583,540.32	36.2434899	-107.5500334
12,777.00	90.60	307.85	5,375.24	5,164.36	-4,851.45	1,908,032.74	583,490.45	36.2435960	-107.5502021
12,841.00	90.00	308.49	5,374.91	5,203.91	-4,901.77	1,908,072.14	583,440.02	36.2437047	-107.5503727
12,904.00	88.69	309.78	5,375.63	5,243.67	-4,950.63	1,908,111.75	583,391.03	36.2438139	-107.5505385
12,968.00	88.56	311.73	5,377.16	5,285.44	-4,999.09	1,908,153.36	583,342.44	36.2439286	-107.5507028
13,031.00	88.99	313.36	5,378.51	5,328.02	-5,045.50	1,908,195.81	583,295.90	36.2440455	-107.5508602
13,095.00	90.94	314.83	5,378.55	5,372.55	-5,091.46	1,908,240.20	583,249.81	36.2441678	-107.5510161
13,159.00	92.15	314.83	5,376.82	5,417.66	-5,136.83	1,908,285.16	583,204.30	36.2442917	-107.5511700
13,222.00	92.05	313.55	5,374.51	5,461.54	-5,181.97	1,908,328.90	583,159.02	36.2444123	-107.5513231



Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco COM #903H - Slot A2
Project:	T23N R7W	TVD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Site:	Chaco 2307-13D	MD Reference:	GL 7014' & RKB 14' @ 7028.00usft (Aztec 920)
Well:	NE Chaco COM #903H	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
13,272.00	91.24	313.39	5,373.08	5,495.92	-5,218.24	1,908,363.17	583,122.64	36.2445067	-107.5514461
36.2445067, -107.5514461 - RSI @ 13,272' MD									
13,286.00	91.01	313.34	5,372.81	5,505.53	-5,228.42	1,908,372.75	583,112.43	36.2445331	-107.5514807
Last SDI Lateral MWD Survey									
13,376.00	91.01	313.34	5,371.22	5,567.29	-5,293.87	1,908,434.31	583,046.80	36.2447027	-107.5517026
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
387.00	386.96	-5.21	0.70	First Surface MWD Survey
4,847.00	4,714.72	343.45	970.23	Last Surface MWD Survey
4,910.00	4,775.82	358.31	973.59	First SDI Curve MWD Survey
5,860.00	5,370.83	813.38	517.63	Last SDI Curve MWD Survey
5,909.00	5,372.60	844.45	479.78	36.2317298, -107.5321233
5,909.00	5,372.60	844.45	479.78	7" Casing @ 5909' MD
5,944.00	5,372.94	866.63	452.71	First SDI Lateral MWD Survey
13,272.00	5,373.08	5,495.92	-5,218.24	36.2445067, -107.5514461
13,272.00	5,373.08	5,495.92	-5,218.24	RSI @ 13,272' MD
13,286.00	5,372.81	5,505.53	-5,228.42	Last SDI Lateral MWD Survey
13,376.00	5,371.22	5,567.29	-5,293.87	Projection to TD

Checked By: _____ Approved By: _____ Date: _____