

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-043-21193		*Pool Code 42289	*Pool Name LYBROOK GALLUP
*Property Code 39908	*Property Name CHACO 2206-02H		*Well Number 272H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6949'

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
H	2	22N	6W		1707	NORTH	335	EAST	SANDOVAL

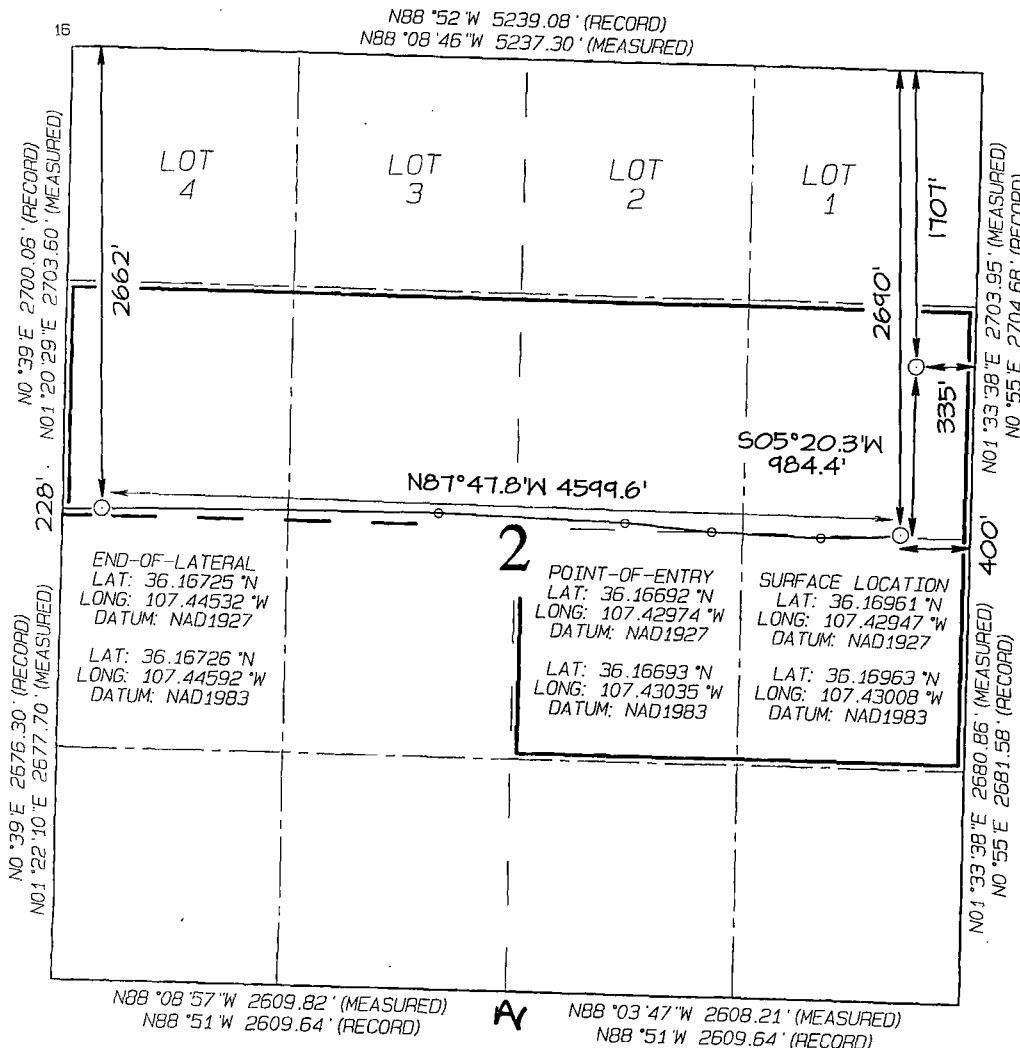
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	2	22N	6W		2662 2565.72	NORTH	228	WEST	SANDOVAL

¹² Dedicated Acres 240.0 Acres N/2 SE/4 & S/2 N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCUD JUN 6 '14
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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

DIST. 3



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 *Larry Higgins* Date *6/4/14*

Printed Name
Larry Higgins

E-mail Address
larry.higgins@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: JUNE 5, 2014
Survey Date: JANUARY 10, 2014

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269

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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

CONFIDENTIAL

*API Number 30-043-21193	*Pool Code 42289	*Pool Name LYBROOK GALLUP
*Property Code 39908	*Property Name CHACO 2205-02H	*Well Number 272H
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6949'

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
H	2	22N	6W		1707	NORTH	335	EAST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

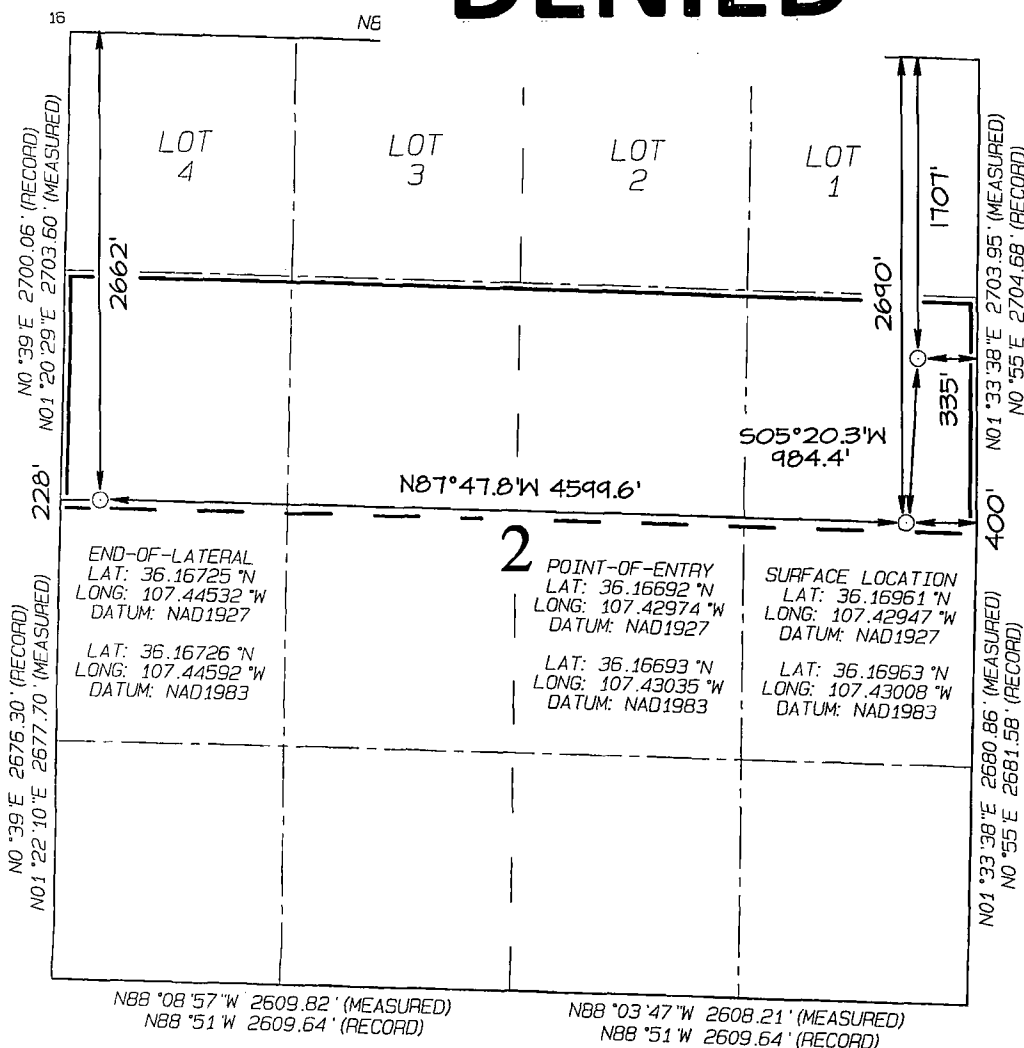
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	2	22N	6W		2662	NORTH	228	WEST	SANDOVAL

¹² Dedicated Acres 160.0 Acres - (S/2 N/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE
OR

DENIED

ALL INTERESTS HAVE BEEN CONSOLIDATED
ED 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: Heather Riley Date: 5/27/14

Printed Name: Heather Riley

E-mail Address: heather.riley@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: MAY 16, 2014
Survey Date: JANUARY 10, 2014

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269



Company Name: WPX Energy Rocky Mountain, LLC
Project: Sandoval County, NM NAD27
Site: Chaco 2206-02H
Well: Chaco 2206-02H #272H

CONFIDENTIAL **WPX ENERGY**

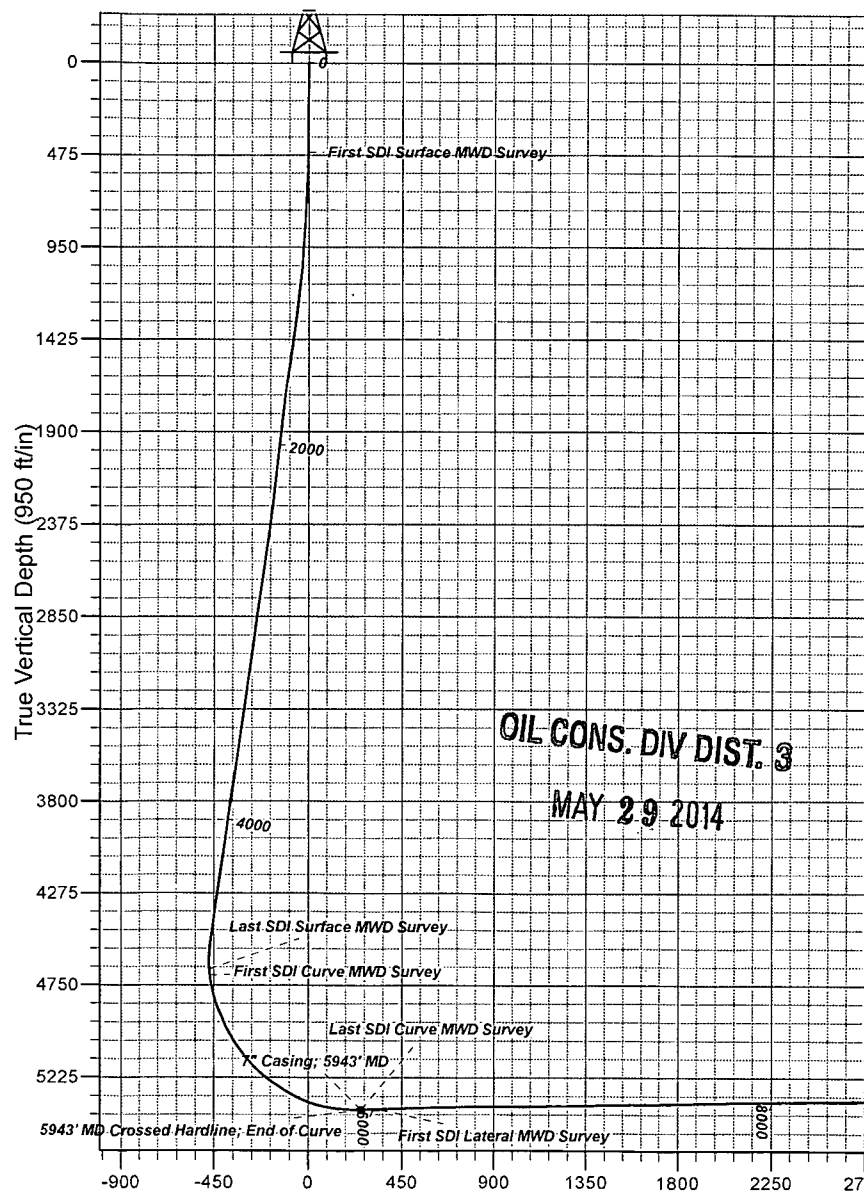


M Azimuths to True North
Magnetic North: 9.39°

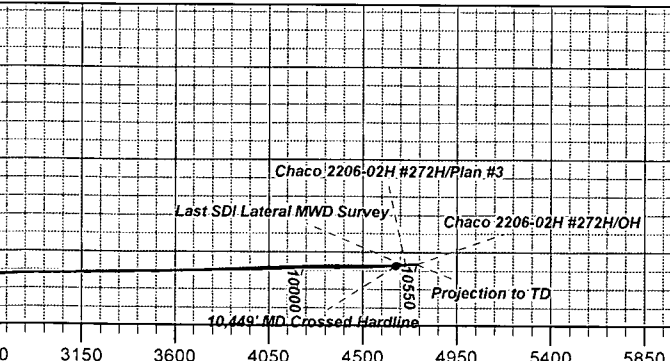
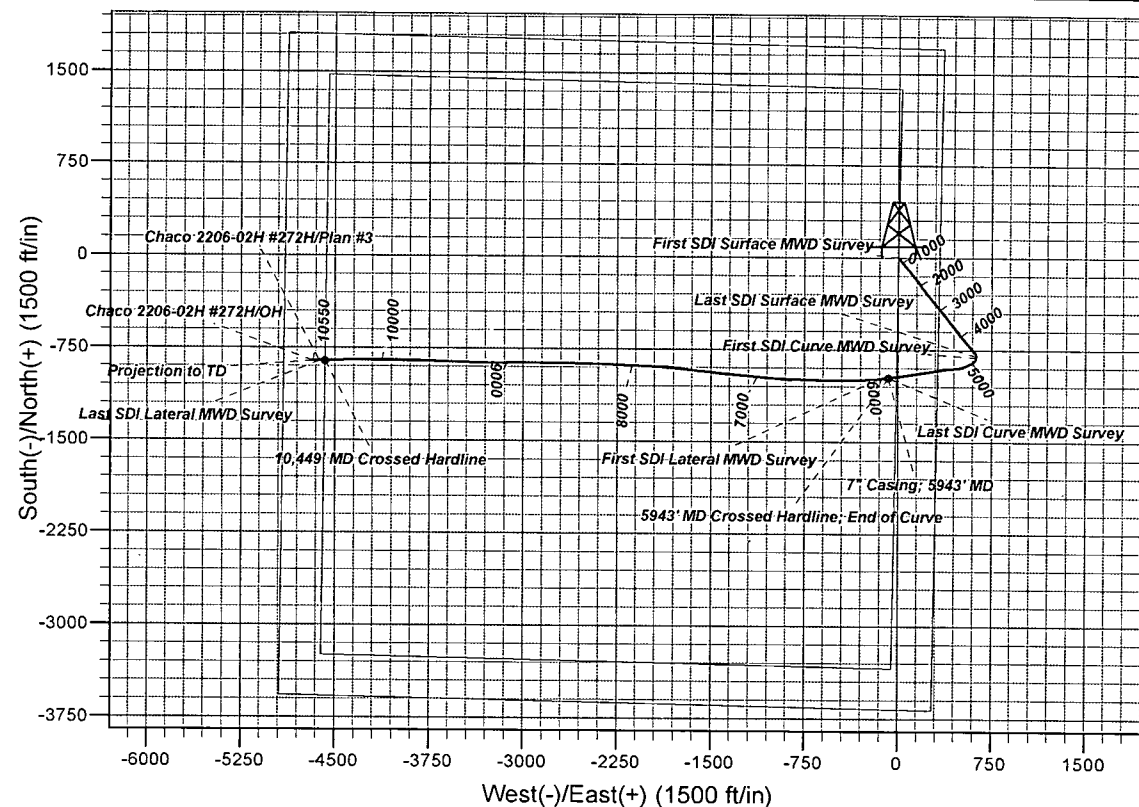
Magnetic Field
Strength: 50099.4snT
Dip Angle: 62.97°
Date: 4/20/2014
Model: BGGM2013

WELL DETAILS: Chaco 2206-02H #272H

GL 6949' & RKB 14' @ 6963.01ft
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1883062.61 151866.20 36° 10' 10.596 N 107° 25' 46.092 W



OIL CONS. DIV DIST. 3
MAY 29 2014



Design: OH (Chaco 2206-02H #272H/OH)

Created By: Janie Collins 12:04, May 13 2014

PROJECT DETAILS: Sandoval County, NM NAD27

Geodetic System: US State Plane 1927 (Exact solution)

Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Zone: New Mexico Central 3002

System Datum: Mean Sea Level
Local North: True

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2206-02H #272H
Project:	Sandoval County, NM NAD27	TVD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Site:	Chaco 2206-02H	MD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Well:	Chaco 2206-02H #272H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

CONFIDENTIAL

Project	Sandoval County, NM NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site	Chaco 2206-02H		
Site Position:		Northing:	1,883,084.40 usft
From:	Lat/Long	Easting:	151,872.37 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	36° 10' 10.812 N
		Longitude:	107° 25' 46.020 W
		Grid Convergence:	-0.70 °

Well	Chaco 2206-02H #272H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	36° 10' 10.596 N
		Longitude:	107° 25' 46.092 W
		Ground Level:	6,949.01 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2013	4/20/2014	9.39
			Dip Angle
			(°)
			Field Strength
			(nT)
			50,099

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			167.79

Survey Program	Date 5/13/2014		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
463.00	4,800.00	Survey #1 - Surface MWD Survey (OH)	MWD SDI
4,832.00	5,973.00	Survey #2 - Curve MWD Survey (OH)	MWD SDI
6,034.00	10,550.00	Survey #3 - Lateral MWD Survey (OH)	MWD SDI
			Description
			MWD - Standard ver 1.0.1
			MWD - Standard ver 1.0.1
			MWD - Standard ver 1.0.1

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
Depth	(°)	(°)	Depth	(ft)	(ft)	Northing	Easting		
(ft)			(ft)			(usft)	(usft)		
0.00	0.00	0.00	0.00	0.00	0.00	1,883,062.61	151,866.20	36° 10' 10.596 N	107° 25' 46.092 W
463.00	0.62	55.54	462.99	1.42	2.07	1,883,064.00	151,868.29	36° 10' 10.610 N	107° 25' 46.067 W
First SDI Surface MWD Survey									
558.00	0.67	101.60	557.99	1.60	3.03	1,883,064.17	151,869.26	36° 10' 10.612 N	107° 25' 46.055 W
652.00	4.42	137.26	651.88	-1.18	6.03	1,883,061.36	151,872.22	36° 10' 10.584 N	107° 25' 46.018 W
715.00	6.04	138.96	714.61	-5.46	9.86	1,883,057.03	151,875.99	36° 10' 10.542 N	107° 25' 45.972 W
778.00	7.56	145.26	777.17	-11.36	14.39	1,883,051.07	151,880.46	36° 10' 10.483 N	107° 25' 45.916 W
841.00	8.05	145.79	839.59	-18.42	19.24	1,883,043.96	151,885.21	36° 10' 10.414 N	107° 25' 45.857 W
904.00	8.29	145.10	901.95	-25.79	24.31	1,883,036.53	151,890.20	36° 10' 10.341 N	107° 25' 45.795 W
967.00	8.37	145.11	964.28	-33.28	29.54	1,883,028.98	151,895.33	36° 10' 10.267 N	107° 25' 45.732 W

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2206-02H #272H
Project:	Sandoval County, NM NAD27	TVD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Site:	Chaco 2206-02H	MD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Well:	Chaco 2206-02H #272H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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
1,031.00	8.78	145.17	1,027.57	-41.11	34.99	1,883,021.08	151,900.69	36° 10' 10.189 N	107° 25' 45.665 W
1,094.00	10.17	142.07	1,089.71	-49.44	41.15	1,883,012.67	151,906.76	36° 10' 10.107 N	107° 25' 45.590 W
1,157.00	13.09	140.84	1,151.41	-59.36	49.08	1,883,002.66	151,914.56	36° 10' 10.009 N	107° 25' 45.493 W
1,219.00	13.81	140.12	1,211.71	-70.49	58.26	1,882,991.42	151,923.60	36° 10' 9.899 N	107° 25' 45.382 W
1,283.00	13.61	139.06	1,273.88	-82.03	68.09	1,882,979.75	151,933.29	36° 10' 9.785 N	107° 25' 45.262 W
1,346.00	13.96	140.41	1,335.07	-93.49	77.79	1,882,968.18	151,942.85	36° 10' 9.671 N	107° 25' 45.143 W
1,408.00	14.69	141.50	1,395.14	-105.41	87.45	1,882,956.15	151,952.37	36° 10' 9.554 N	107° 25' 45.026 W
1,472.00	15.47	140.80	1,456.94	-118.37	97.90	1,882,943.06	151,962.66	36° 10' 9.425 N	107° 25' 44.898 W
1,533.00	15.53	140.15	1,515.72	-130.95	108.27	1,882,930.36	151,972.88	36° 10' 9.301 N	107° 25' 44.772 W
1,592.00	15.58	139.64	1,572.56	-143.05	118.46	1,882,918.13	151,982.92	36° 10' 9.181 N	107° 25' 44.647 W
1,655.00	15.06	138.96	1,633.32	-155.67	129.32	1,882,905.38	151,993.62	36° 10' 9.056 N	107° 25' 44.515 W
1,716.00	14.15	139.53	1,692.35	-167.32	139.36	1,882,893.61	152,003.52	36° 10' 8.941 N	107° 25' 44.392 W
1,777.00	13.08	141.56	1,751.63	-178.40	148.49	1,882,882.42	152,012.52	36° 10' 8.832 N	107° 25' 44.281 W
1,864.00	12.89	140.49	1,836.41	-193.59	160.78	1,882,867.08	152,024.63	36° 10' 8.681 N	107° 25' 44.131 W
1,924.00	13.37	144.33	1,894.84	-204.39	169.09	1,882,856.18	152,032.80	36° 10' 8.575 N	107° 25' 44.030 W
1,985.00	13.86	149.07	1,954.13	-216.39	176.96	1,882,844.09	152,040.52	36° 10' 8.456 N	107° 25' 43.934 W
2,045.00	13.89	145.78	2,012.38	-228.51	184.70	1,882,831.87	152,048.11	36° 10' 8.336 N	107° 25' 43.840 W
2,108.00	14.16	142.87	2,073.50	-240.91	193.60	1,882,819.37	152,056.87	36° 10' 8.214 N	107° 25' 43.731 W
2,170.00	13.52	141.87	2,133.70	-252.65	202.66	1,882,807.51	152,065.78	36° 10' 8.097 N	107° 25' 43.621 W
2,232.00	13.40	143.71	2,194.00	-264.14	211.38	1,882,795.92	152,074.36	36° 10' 7.984 N	107° 25' 43.514 W
2,292.00	14.24	144.54	2,252.26	-275.76	219.78	1,882,784.20	152,082.62	36° 10' 7.869 N	107° 25' 43.412 W
2,352.00	15.22	144.38	2,310.29	-288.17	228.65	1,882,771.68	152,091.33	36° 10' 7.746 N	107° 25' 43.304 W
2,414.00	15.41	143.00	2,370.08	-301.37	238.35	1,882,758.37	152,100.87	36° 10' 7.616 N	107° 25' 43.185 W
2,474.00	15.65	141.58	2,427.89	-314.07	248.17	1,882,745.54	152,110.54	36° 10' 7.490 N	107° 25' 43.066 W
2,536.00	15.24	140.77	2,487.65	-326.94	258.52	1,882,732.55	152,120.74	36° 10' 7.363 N	107° 25' 42.939 W
2,598.00	14.70	140.15	2,547.55	-339.29	268.72	1,882,720.08	152,130.78	36° 10' 7.241 N	107° 25' 42.815 W
2,659.00	14.80	137.32	2,606.54	-350.96	278.96	1,882,708.29	152,140.88	36° 10' 7.125 N	107° 25' 42.690 W
2,721.00	15.23	139.15	2,666.42	-362.94	289.65	1,882,696.18	152,151.43	36° 10' 7.007 N	107° 25' 42.560 W
2,782.00	15.52	140.52	2,725.24	-375.30	300.08	1,882,683.69	152,161.70	36° 10' 6.885 N	107° 25' 42.432 W
2,845.00	15.47	139.21	2,785.95	-388.17	310.93	1,882,670.69	152,172.40	36° 10' 6.757 N	107° 25' 42.300 W
2,908.00	15.52	141.92	2,846.66	-401.16	321.62	1,882,657.57	152,182.92	36° 10' 6.629 N	107° 25' 42.170 W
2,971.00	15.75	144.01	2,907.33	-414.72	331.84	1,882,643.89	152,192.98	36° 10' 6.495 N	107° 25' 42.045 W
3,034.00	14.93	142.25	2,968.09	-428.05	341.83	1,882,630.44	152,202.81	36° 10' 6.363 N	107° 25' 41.923 W
3,097.00	14.70	139.54	3,028.99	-440.55	351.99	1,882,617.81	152,212.82	36° 10' 6.239 N	107° 25' 41.799 W
3,161.00	15.35	141.45	3,090.81	-453.35	362.54	1,882,604.88	152,223.21	36° 10' 6.113 N	107° 25' 41.671 W
3,225.00	16.00	142.01	3,152.43	-466.93	373.25	1,882,591.18	152,233.75	36° 10' 5.978 N	107° 25' 41.540 W
3,287.00	15.67	140.79	3,212.07	-480.15	383.80	1,882,577.83	152,244.14	36° 10' 5.848 N	107° 25' 41.412 W
3,350.00	16.21	143.30	3,272.65	-493.80	394.43	1,882,564.06	152,254.61	36° 10' 5.713 N	107° 25' 41.282 W
3,413.00	17.04	144.89	3,333.02	-508.40	405.00	1,882,549.33	152,264.99	36° 10' 5.568 N	107° 25' 41.153 W
3,476.00	16.85	143.53	3,393.28	-523.29	415.73	1,882,534.31	152,275.55	36° 10' 5.421 N	107° 25' 41.022 W
3,539.00	16.15	141.67	3,453.69	-537.51	426.60	1,882,519.96	152,286.24	36° 10' 5.281 N	107° 25' 40.890 W
3,602.00	16.01	142.00	3,514.22	-551.23	437.38	1,882,506.11	152,296.85	36° 10' 5.145 N	107° 25' 40.758 W
3,665.00	16.06	140.65	3,574.77	-564.81	448.25	1,882,492.39	152,307.56	36° 10' 5.011 N	107° 25' 40.626 W
3,728.00	15.95	140.97	3,635.33	-578.28	459.23	1,882,478.80	152,318.37	36° 10' 4.877 N	107° 25' 40.492 W
3,791.00	15.84	141.49	3,695.92	-591.73	470.03	1,882,465.22	152,329.01	36° 10' 4.744 N	107° 25' 40.360 W
3,854.00	15.97	140.64	3,756.51	-605.16	480.88	1,882,451.66	152,339.70	36° 10' 4.612 N	107° 25' 40.228 W
3,918.00	15.87	141.40	3,818.05	-618.80	491.93	1,882,437.88	152,350.58	36° 10' 4.477 N	107° 25' 40.093 W
3,980.00	15.61	141.08	3,877.73	-631.92	502.46	1,882,424.63	152,360.94	36° 10' 4.347 N	107° 25' 39.965 W
4,043.00	15.51	141.34	3,938.42	-645.09	513.04	1,882,411.33	152,371.37	36° 10' 4.217 N	107° 25' 39.835 W
4,106.00	15.48	140.72	3,999.13	-658.18	523.63	1,882,398.12	152,381.80	36° 10' 4.087 N	107° 25' 39.706 W
4,169.00	14.86	139.81	4,059.94	-670.85	534.16	1,882,385.32	152,392.18	36° 10' 3.962 N	107° 25' 39.578 W
4,233.00	14.98	140.73	4,121.78	-683.53	544.70	1,882,372.52	152,402.55	36° 10' 3.837 N	107° 25' 39.449 W
4,295.00	15.89	141.41	4,181.54	-696.36	555.06	1,882,359.55	152,412.76	36° 10' 3.710 N	107° 25' 39.323 W
4,359.00	16.35	140.23	4,243.03	-710.14	566.29	1,882,345.65	152,423.82	36° 10' 3.573 N	107° 25' 39.186 W
4,422.00	16.29	139.72	4,303.49	-723.69	577.67	1,882,331.95	152,435.04	36° 10' 3.439 N	107° 25' 39.047 W

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2206-02H #272H
Project:	Sandoval County, NM NAD27	TVD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Site:	Chaco 2206-02H	MD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Well:	Chaco 2206-02H #272H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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
4,485.00	15.20	140.69	4,364.12	-736.82	588.62	1,882,318.69	152,445.83	36° 10' 3.310 N	107° 25' 38.914 W
4,548.00	15.01	139.39	4,424.95	-749.41	599.16	1,882,305.98	152,456.22	36° 10' 3.185 N	107° 25' 38.785 W
4,611.00	14.55	138.11	4,485.86	-761.49	609.76	1,882,293.77	152,466.66	36° 10' 3.066 N	107° 25' 38.656 W
4,642.00	13.94	137.62	4,515.91	-767.15	614.87	1,882,288.05	152,471.71	36° 10' 3.010 N	107° 25' 38.594 W
4,674.00	13.96	141.53	4,546.96	-773.02	619.87	1,882,282.12	152,476.64	36° 10' 2.952 N	107° 25' 38.533 W
4,706.00	13.61	151.28	4,578.05	-779.34	624.08	1,882,275.74	152,480.77	36° 10' 2.889 N	107° 25' 38.481 W
4,737.00	13.58	160.79	4,608.18	-785.98	627.03	1,882,269.07	152,483.64	36° 10' 2.823 N	107° 25' 38.445 W
4,769.00	13.74	170.76	4,639.28	-793.28	628.88	1,882,261.75	152,485.40	36° 10' 2.751 N	107° 25' 38.423 W
4,800.00	14.87	182.81	4,669.33	-800.89	629.28	1,882,254.14	152,485.70	36° 10' 2.676 N	107° 25' 38.418 W
Last SDI Surface MWD Survey									
4,832.00	17.46	193.34	4,700.07	-809.66	627.97	1,882,245.38	152,484.29	36° 10' 2.589 N	107° 25' 38.434 W
First SDI Curve MWD Survey									
4,864.00	18.49	200.56	4,730.51	-819.09	625.08	1,882,235.99	152,481.28	36° 10' 2.496 N	107° 25' 38.469 W
4,895.00	18.43	206.78	4,759.91	-828.07	621.14	1,882,227.06	152,477.24	36° 10' 2.407 N	107° 25' 38.517 W
4,926.00	18.54	210.47	4,789.32	-836.69	616.44	1,882,218.49	152,472.43	36° 10' 2.322 N	107° 25' 38.575 W
4,958.00	19.32	221.73	4,819.60	-845.03	610.33	1,882,210.23	152,466.22	36° 10' 2.240 N	107° 25' 38.649 W
4,989.00	20.54	230.69	4,848.75	-852.30	602.71	1,882,203.05	152,458.51	36° 10' 2.168 N	107° 25' 38.742 W
5,021.00	21.71	241.59	4,878.61	-858.68	593.15	1,882,196.79	152,448.88	36° 10' 2.105 N	107° 25' 38.859 W
5,052.00	22.43	245.13	4,907.34	-863.89	582.74	1,882,191.70	152,438.41	36° 10' 2.053 N	107° 25' 38.985 W
5,084.00	22.45	246.55	4,936.91	-868.89	571.60	1,882,186.84	152,427.20	36° 10' 2.004 N	107° 25' 39.121 W
5,115.00	23.73	247.72	4,965.43	-873.61	560.40	1,882,182.26	152,415.94	36° 10' 1.957 N	107° 25' 39.258 W
5,147.00	26.41	248.60	4,994.41	-878.65	547.81	1,882,177.37	152,403.30	36° 10' 1.907 N	107° 25' 39.412 W
5,178.00	29.45	249.04	5,021.80	-883.89	534.27	1,882,172.29	152,389.70	36° 10' 1.855 N	107° 25' 39.577 W
5,209.00	32.12	251.30	5,048.43	-889.26	519.35	1,882,167.10	152,374.71	36° 10' 1.802 N	107° 25' 39.759 W
5,241.00	33.27	255.05	5,075.36	-894.25	502.81	1,882,162.31	152,358.11	36° 10' 1.753 N	107° 25' 39.960 W
5,272.00	35.94	260.32	5,100.88	-897.98	485.62	1,882,158.80	152,340.87	36° 10' 1.716 N	107° 25' 40.170 W
5,304.00	37.20	263.38	5,126.58	-900.67	466.75	1,882,156.33	152,321.97	36° 10' 1.689 N	107° 25' 40.400 W
5,335.00	39.33	264.49	5,150.92	-902.70	447.66	1,882,154.54	152,302.86	36° 10' 1.669 N	107° 25' 40.633 W
5,366.00	41.63	264.79	5,174.50	-904.58	427.62	1,882,152.91	152,282.80	36° 10' 1.651 N	107° 25' 40.877 W
5,398.00	45.21	263.90	5,197.74	-906.75	405.74	1,882,151.00	152,260.89	36° 10' 1.629 N	107° 25' 41.144 W
5,429.00	48.26	263.35	5,218.98	-909.26	383.31	1,882,148.76	152,238.43	36° 10' 1.604 N	107° 25' 41.418 W
5,461.00	52.37	262.58	5,239.41	-912.28	358.87	1,882,146.04	152,213.97	36° 10' 1.575 N	107° 25' 41.716 W
5,492.00	53.87	261.46	5,258.02	-915.72	334.32	1,882,142.89	152,189.37	36° 10' 1.541 N	107° 25' 42.015 W
5,524.00	54.18	260.96	5,276.81	-919.68	308.73	1,882,139.25	152,163.73	36° 10' 1.501 N	107° 25' 42.327 W
5,555.00	56.16	260.55	5,294.52	-923.77	283.61	1,882,135.46	152,138.57	36° 10' 1.461 N	107° 25' 42.633 W
5,587.00	59.68	259.87	5,311.51	-928.38	256.90	1,882,131.18	152,111.80	36° 10' 1.415 N	107° 25' 42.959 W
5,618.00	62.14	259.77	5,326.58	-933.17	230.24	1,882,126.71	152,085.08	36° 10' 1.368 N	107° 25' 43.284 W
5,649.00	64.90	259.96	5,340.40	-938.05	202.92	1,882,122.16	152,057.72	36° 10' 1.320 N	107° 25' 43.617 W
5,681.00	67.66	260.30	5,353.27	-943.07	174.06	1,882,117.49	152,028.80	36° 10' 1.270 N	107° 25' 43.969 W
5,712.00	71.68	260.47	5,364.04	-947.93	145.41	1,882,112.99	152,000.08	36° 10' 1.222 N	107° 25' 44.319 W
5,743.00	74.97	260.31	5,372.94	-952.88	116.13	1,882,108.39	151,970.75	36° 10' 1.173 N	107° 25' 44.676 W
5,774.00	79.14	259.66	5,379.88	-958.14	86.39	1,882,103.50	151,940.94	36° 10' 1.121 N	107° 25' 45.039 W
5,806.00	82.12	261.07	5,385.09	-963.42	55.26	1,882,098.59	151,909.76	36° 10' 1.069 N	107° 25' 45.418 W
5,837.00	83.97	262.36	5,388.84	-967.85	24.82	1,882,094.53	151,879.26	36° 10' 1.025 N	107° 25' 45.789 W
5,869.00	86.31	264.46	5,391.55	-971.51	-6.85	1,882,091.26	151,847.55	36° 10' 0.989 N	107° 25' 46.176 W
5,892.00	89.13	264.64	5,392.47	-973.69	-29.73	1,882,089.35	151,824.65	36° 10' 0.967 N	107° 25' 46.455 W
5,943.00	90.21	262.03	5,392.76	-979.61	-80.38	1,882,084.05	151,773.93	36° 10' 0.909 N	107° 25' 47.072 W
5943' MD Crossed Hardline; End of Curve - 7" Casing; 5943' MD - Last SDI Curve MWD Survey									
5,973.00	90.84	260.50	5,392.49	-984.16	-110.03	1,882,079.86	151,744.23	36° 10' 0.864 N	107° 25' 47.434 W
6,034.00	91.78	265.05	5,391.09	-991.83	-170.51	1,882,072.92	151,683.65	36° 10' 0.788 N	107° 25' 48.171 W
First SDI Lateral MWD Survey									
6,095.00	91.99	266.56	5,389.09	-996.29	-231.31	1,882,069.20	151,622.80	36° 10' 0.744 N	107° 25' 48.913 W
6,156.00	92.86	266.58	5,386.51	-999.94	-292.15	1,882,066.30	151,561.93	36° 10' 0.708 N	107° 25' 49.655 W
6,219.00	92.29	268.01	5,383.68	-1,002.91	-355.01	1,882,064.09	151,499.03	36° 10' 0.678 N	107° 25' 50.421 W

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2206-02H #272H
Project:	Sandoval County, NM NAD27	TVD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Site:	Chaco 2206-02H	MD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Well:	Chaco 2206-02H #272H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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
6,281.00	91.45	269.70	5,381.65	-1,004.15	-416.97	1,882,063.61	151,437.07	36° 10' 0.666 N	107° 25' 51.177 W
6,342.00	90.81	271.00	5,380.45	-1,003.77	-477.95	1,882,064.72	151,376.09	36° 10' 0.670 N	107° 25' 51.921 W
6,403.00	90.71	271.74	5,379.64	-1,002.32	-538.93	1,882,066.92	151,315.14	36° 10' 0.684 N	107° 25' 52.664 W
6,464.00	91.24	271.30	5,378.60	-1,000.70	-599.90	1,882,069.28	151,254.19	36° 10' 0.700 N	107° 25' 53.408 W
6,527.00	89.73	271.91	5,378.07	-998.93	-662.87	1,882,071.81	151,191.25	36° 10' 0.718 N	107° 25' 54.176 W
6,590.00	90.20	271.03	5,378.11	-997.32	-725.85	1,882,074.19	151,128.29	36° 10' 0.734 N	107° 25' 54.944 W
6,653.00	90.74	270.61	5,377.59	-996.42	-788.84	1,882,075.85	151,065.32	36° 10' 0.743 N	107° 25' 55.712 W
6,715.00	89.80	270.93	5,377.30	-995.58	-850.83	1,882,077.44	151,003.34	36° 10' 0.751 N	107° 25' 56.468 W
6,779.00	90.88	272.46	5,376.92	-993.69	-914.80	1,882,080.11	150,939.40	36° 10' 0.769 N	107° 25' 57.248 W
6,843.00	91.88	273.81	5,375.38	-990.19	-978.68	1,882,084.39	150,875.56	36° 10' 0.804 N	107° 25' 58.027 W
6,906.00	90.64	276.22	5,373.99	-984.69	-1,041.42	1,882,090.65	150,812.90	36° 10' 0.858 N	107° 25' 58.792 W
6,969.00	90.87	275.13	5,373.16	-978.46	-1,104.11	1,882,097.64	150,750.29	36° 10' 0.920 N	107° 25' 59.556 W
7,032.00	90.07	275.45	5,372.65	-972.65	-1,166.83	1,882,104.21	150,687.64	36° 10' 0.977 N	107° 26' 0.321 W
7,095.00	91.35	275.32	5,371.86	-966.74	-1,229.55	1,882,110.89	150,625.00	36° 10' 1.036 N	107° 26' 1.086 W
7,158.00	92.32	275.19	5,369.85	-960.97	-1,292.25	1,882,117.42	150,562.37	36° 10' 1.093 N	107° 26' 1.851 W
7,220.00	90.81	275.52	5,368.15	-955.19	-1,353.96	1,882,123.95	150,500.74	36° 10' 1.150 N	107° 26' 2.603 W
7,284.00	91.54	275.34	5,366.84	-949.13	-1,417.66	1,882,130.78	150,437.12	36° 10' 1.210 N	107° 26' 3.380 W
7,347.00	90.17	276.54	5,365.90	-942.61	-1,480.31	1,882,138.06	150,374.56	36° 10' 1.274 N	107° 26' 4.144 W
7,410.00	91.55	276.70	5,364.96	-935.35	-1,542.88	1,882,146.08	150,312.08	36° 10' 1.346 N	107° 26' 4.907 W
7,473.00	92.42	276.36	5,362.77	-928.19	-1,605.43	1,882,154.00	150,249.62	36° 10' 1.417 N	107° 26' 5.670 W
7,536.00	90.67	277.11	5,361.08	-920.80	-1,667.97	1,882,162.14	150,187.17	36° 10' 1.490 N	107° 26' 6.433 W
7,599.00	91.11	276.45	5,360.10	-913.37	-1,730.52	1,882,170.34	150,124.71	36° 10' 1.563 N	107° 26' 7.196 W
7,662.00	89.93	275.88	5,359.52	-906.60	-1,793.16	1,882,177.87	150,062.17	36° 10' 1.630 N	107° 26' 7.959 W
7,725.00	91.14	275.16	5,358.94	-900.54	-1,855.86	1,882,184.69	149,999.54	36° 10' 1.690 N	107° 26' 8.724 W
7,788.00	91.08	272.61	5,357.72	-896.27	-1,918.70	1,882,189.72	149,936.76	36° 10' 1.732 N	107° 26' 9.490 W
7,851.00	92.19	272.71	5,355.92	-893.35	-1,981.60	1,882,193.40	149,873.90	36° 10' 1.761 N	107° 26' 10.257 W
7,913.00	90.17	272.62	5,354.64	-890.47	-2,043.52	1,882,197.04	149,812.02	36° 10' 1.790 N	107° 26' 11.012 W
7,976.00	91.34	272.45	5,353.81	-887.68	-2,106.45	1,882,200.59	149,749.13	36° 10' 1.817 N	107° 26' 11.780 W
8,038.00	90.13	272.80	5,353.02	-884.84	-2,168.38	1,882,204.18	149,687.24	36° 10' 1.845 N	107° 26' 12.535 W
8,102.00	90.74	271.88	5,352.53	-882.23	-2,232.32	1,882,207.57	149,623.33	36° 10' 1.871 N	107° 26' 13.315 W
8,165.00	90.37	271.59	5,351.92	-880.32	-2,295.29	1,882,210.24	149,560.39	36° 10' 1.890 N	107° 26' 14.083 W
8,227.00	91.31	271.13	5,351.01	-878.85	-2,357.27	1,882,212.47	149,498.44	36° 10' 1.904 N	107° 26' 14.839 W
8,290.00	90.77	270.94	5,349.87	-877.71	-2,420.25	1,882,214.37	149,435.48	36° 10' 1.915 N	107° 26' 15.607 W
8,353.00	91.68	270.08	5,348.52	-877.15	-2,483.23	1,882,215.70	149,372.51	36° 10' 1.921 N	107° 26' 16.375 W
8,415.00	90.57	271.48	5,347.30	-876.31	-2,545.21	1,882,217.29	149,310.54	36° 10' 1.929 N	107° 26' 17.131 W
8,478.00	91.72	271.36	5,346.04	-874.75	-2,608.17	1,882,219.62	149,247.60	36° 10' 1.945 N	107° 26' 17.898 W
8,541.00	90.74	271.43	5,344.69	-873.22	-2,671.14	1,882,221.92	149,184.66	36° 10' 1.960 N	107° 26' 18.666 W
8,605.00	91.38	271.10	5,343.51	-871.80	-2,735.11	1,882,224.11	149,120.71	36° 10' 1.974 N	107° 26' 19.446 W
8,669.00	90.54	271.16	5,342.44	-870.54	-2,799.09	1,882,226.15	149,056.75	36° 10' 1.986 N	107° 26' 20.227 W
8,732.00	91.65	270.61	5,341.23	-869.57	-2,862.07	1,882,227.88	148,993.79	36° 10' 1.996 N	107° 26' 20.995 W
8,794.00	90.24	269.85	5,340.21	-869.32	-2,924.06	1,882,228.89	148,931.80	36° 10' 1.998 N	107° 26' 21.751 W
8,858.00	91.68	269.58	5,339.14	-869.64	-2,988.05	1,882,229.34	148,867.82	36° 10' 1.995 N	107° 26' 22.531 W
8,921.00	92.96	268.94	5,336.59	-870.45	-3,050.99	1,882,229.30	148,804.87	36° 10' 1.987 N	107° 26' 23.298 W
8,984.00	91.28	268.93	5,334.26	-871.62	-3,113.93	1,882,228.89	148,741.92	36° 10' 1.975 N	107° 26' 24.066 W
9,047.00	92.49	268.49	5,332.18	-873.04	-3,176.88	1,882,228.24	148,678.96	36° 10' 1.961 N	107° 26' 24.834 W
9,110.00	90.80	269.85	5,330.38	-873.95	-3,239.85	1,882,228.09	148,615.99	36° 10' 1.952 N	107° 26' 25.602 W
9,173.00	89.43	271.88	5,330.25	-873.00	-3,302.83	1,882,229.81	148,553.01	36° 10' 1.961 N	107° 26' 26.370 W
9,235.00	91.10	271.76	5,329.96	-871.03	-3,364.80	1,882,232.53	148,491.08	36° 10' 1.981 N	107° 26' 27.125 W
9,298.00	91.91	271.57	5,328.31	-869.20	-3,427.75	1,882,235.13	148,428.15	36° 10' 1.999 N	107° 26' 27.893 W
9,361.00	90.20	272.62	5,327.15	-866.90	-3,490.69	1,882,238.19	148,365.24	36° 10' 2.021 N	107° 26' 28.661 W
9,425.00	91.72	272.81	5,326.08	-863.87	-3,554.61	1,882,242.00	148,301.37	36° 10' 2.051 N	107° 26' 29.440 W
9,488.00	93.43	272.22	5,323.25	-861.10	-3,617.49	1,882,245.53	148,238.53	36° 10' 2.078 N	107° 26' 30.207 W
9,551.00	91.52	270.43	5,320.52	-859.65	-3,680.40	1,882,247.74	148,175.63	36° 10' 2.093 N	107° 26' 30.974 W
9,614.00	89.77	270.28	5,319.82	-859.26	-3,743.40	1,882,248.90	148,112.65	36° 10' 2.097 N	107° 26' 31.742 W
9,676.00	90.94	270.60	5,319.43	-858.78	-3,805.39	1,882,250.13	148,050.67	36° 10' 2.101 N	107° 26' 32.498 W

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well: Chaco 2206-02H #272H
Project:	Sandoval County, NM NAD27	TVD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Site:	Chaco 2206-02H	MD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Well:	Chaco 2206-02H #272H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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
9,738.00	89.87	271.04	5,318.99	-857.90	-3,867.38	1,882,251.77	147,988.69	36° 10' 2.110 N	107° 26' 33.254 W
9,801.00	91.71	270.79	5,318.12	-856.89	-3,930.37	1,882,253.54	147,925.72	36° 10' 2.120 N	107° 26' 34.022 W
9,865.00	92.66	270.81	5,315.68	-856.00	-3,994.31	1,882,255.21	147,861.79	36° 10' 2.128 N	107° 26' 34.802 W
9,928.00	91.95	271.08	5,313.15	-854.96	-4,057.25	1,882,257.01	147,798.87	36° 10' 2.139 N	107° 26' 35.570 W
9,990.00	93.43	270.46	5,310.24	-854.13	-4,119.18	1,882,258.60	147,736.96	36° 10' 2.147 N	107° 26' 36.325 W
10,053.00	90.00	268.59	5,308.36	-854.65	-4,182.13	1,882,258.84	147,674.00	36° 10' 2.142 N	107° 26' 37.093 W
10,117.00	88.86	268.71	5,308.99	-856.16	-4,246.11	1,882,258.11	147,610.01	36° 10' 2.127 N	107° 26' 37.873 W
10,180.00	90.13	268.88	5,309.55	-857.48	-4,309.09	1,882,257.55	147,547.02	36° 10' 2.113 N	107° 26' 38.641 W
10,243.00	91.44	268.99	5,308.68	-858.65	-4,372.08	1,882,257.15	147,484.03	36° 10' 2.102 N	107° 26' 39.409 W
10,306.00	93.13	270.29	5,306.17	-859.05	-4,435.02	1,882,257.51	147,421.08	36° 10' 2.098 N	107° 26' 40.177 W
10,369.00	93.90	270.26	5,302.31	-858.75	-4,497.90	1,882,258.58	147,358.21	36° 10' 2.101 N	107° 26' 40.943 W
10,432.00	94.90	269.72	5,297.48	-858.76	-4,560.72	1,882,259.33	147,295.40	36° 10' 2.100 N	107° 26' 41.709 W
10,449.00	94.70	269.84	5,296.05	-858.82	-4,577.66	1,882,259.47	147,278.46	36° 10' 2.100 N	107° 26' 41.916 W
10,449' MD Crossed Hardline									
10,491.00	94.20	270.12	5,292.80	-858.84	-4,619.53	1,882,259.97	147,236.59	36° 10' 2.099 N	107° 26' 42.427 W
Last SDI Lateral MWD Survey									
10,550.00	94.20	270.12	5,288.48	-858.72	-4,678.37	1,882,260.80	147,177.76	36° 10' 2.101 N	107° 26' 43.144 W
Projection to TD									

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
463.00	462.99	1.42	2.07	First SDI Surface MWD Survey	
4,800.00	4,669.33	-800.89	629.28	Last SDI Surface MWD Survey	
4,832.00	4,700.07	-809.66	627.97	First SDI Curve MWD Survey	
5,943.00	5,392.76	-979.61	-80.38	5943' MD Crossed Hardline; End of Curve	
5,943.00	5,392.76	-979.61	-80.38	7" Casing; 5943' MD	
5,943.00	5,392.76	-979.61	-80.38	Last SDI Curve MWD Survey	
6,034.00	5,391.09	-991.83	-170.51	First SDI Lateral MWD Survey	
10,449.00	5,296.05	-858.82	-4,577.66	10,449' MD Crossed Hardline	
10,491.00	5,292.80	-858.84	-4,619.53	Last SDI Lateral MWD Survey	
10,550.00	5,288.48	-858.72	-4,678.37	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____