

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

¹ API Number 30-043-21169	² Pool Code 42289	³ Pool Name LYBROOK GALLUP
⁴ Property Code 39908	⁵ Property Name CHACO 2206-02H	⁶ Well Number 226H
⁷ GRID No. 120782	⁸ Operator Name WPX ENERGY PRODUCTION, LLC	⁹ Elevation 6949'

CONFIDENTIAL

¹⁰ Surface Location

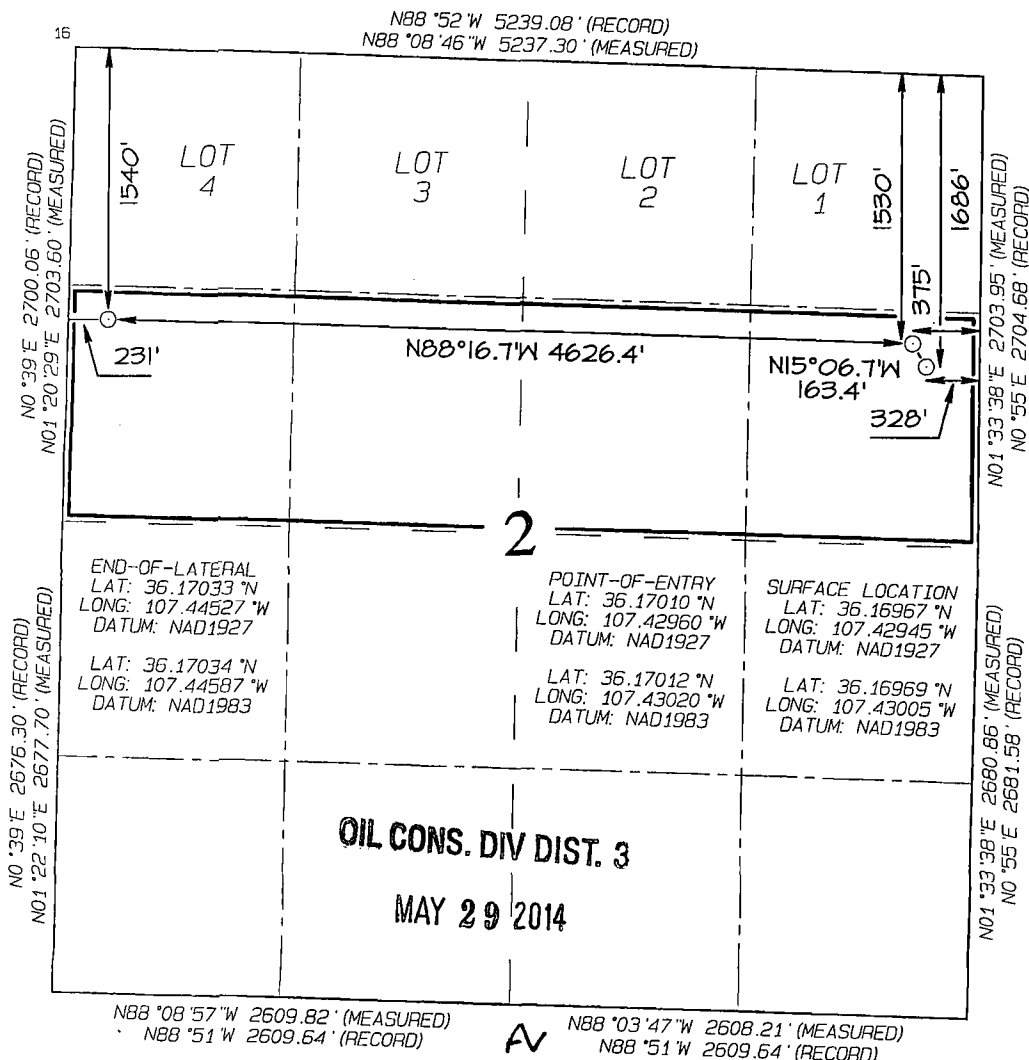
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	22N	6W		1686	NORTH	328	EAST	SANDOVAL

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		1540	NORTH	231	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 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
Heather Riley

Date
5/27/14

Printed Name
heather.riley@wpxenenergy.com

E-mail Address

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: APRIL 28, 2014
Date of Survey: JUNE 8, 2012

Signature and Seal of Professional Surveyor

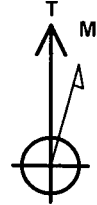
JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

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 #226H

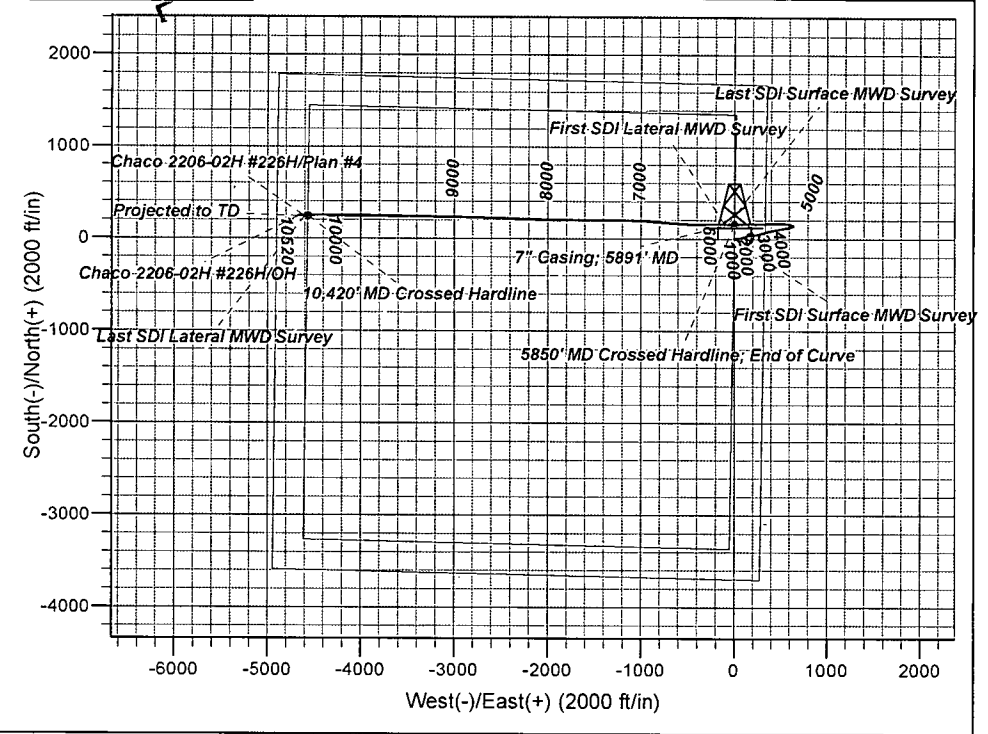
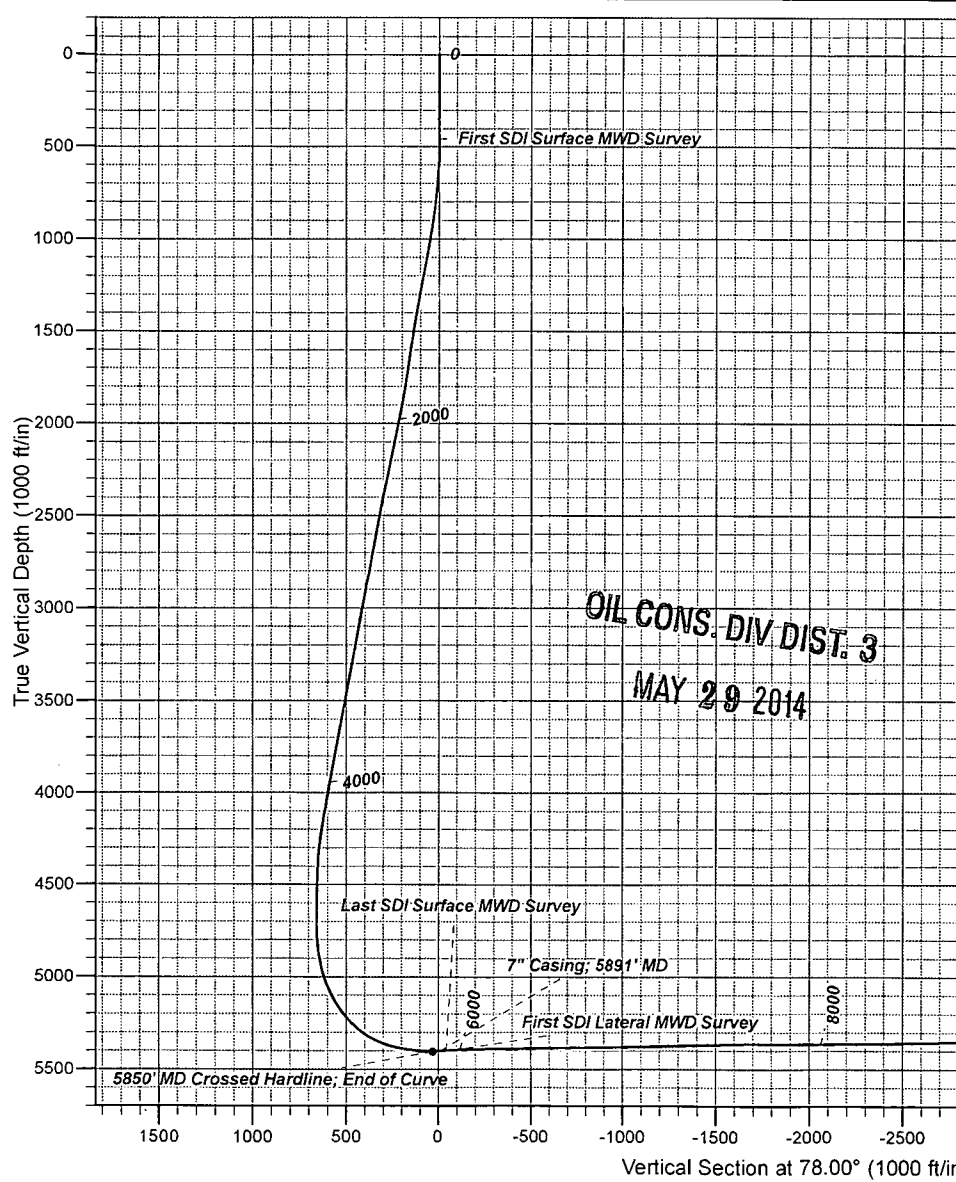
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Azimuths to True North
Magnetic North: 9.39°
Magnetic Field
Strength: 50105.6snT
Dip Angle: 62.97°
Date: 4/1/2014
Model: BGGM2013

WELL DETAILS: Chaco 2206-02H #226H

GL 6949' & RKB 14' @ 6963.01ft
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1883084.39 151872.37 36° 10' 10.812 N 107° 25' 46.020 W



Design: OH (Chaco 2206-02H #226H/OH)
Created By: Janie Collins Date: 14:52, April 23 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



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2206-02H #226H
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 #226H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

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		

CONFIDENTIAL

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 #226H					
Well Position	+N/-S	0.00 ft	Northing:	1,883,084.40 usft	Latitude:	36° 10' 10.812 N
	+E/-W	0.00 ft	Easting:	151,872.37 usft	Longitude:	107° 25' 46.020 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,949.01 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	4/1/2014	9.39	62.97	50,106

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	78.00	

Survey Program	Date	4/23/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
461.00	10,520.00	Survey #1 - Surface MWD (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,883,084.40	151,872.37	36° 10' 10.812 N	107° 25' 46.020 W
461.00	0.57	326.20	460.99	1.91	-1.28	1,883,086.32	151,871.12	36° 10' 10.831 N	107° 25' 46.036 W
First SDI Surface MWD Survey									
525.00	0.80	341.19	524.99	2.59	-1.60	1,883,087.01	151,870.81	36° 10' 10.838 N	107° 25' 46.039 W
589.00	1.35	67.69	588.98	3.30	-1.04	1,883,087.71	151,871.37	36° 10' 10.845 N	107° 25' 46.033 W
652.00	3.67	92.06	651.92	3.51	1.66	1,883,087.89	151,874.08	36° 10' 10.847 N	107° 25' 46.000 W
715.00	5.39	96.55	714.72	3.10	6.61	1,883,087.42	151,879.02	36° 10' 10.843 N	107° 25' 45.939 W
779.00	7.25	95.97	778.33	2.34	13.62	1,883,086.57	151,886.02	36° 10' 10.835 N	107° 25' 45.854 W
842.00	7.76	95.71	840.79	1.50	21.80	1,883,085.63	151,894.19	36° 10' 10.827 N	107° 25' 45.754 W
906.00	8.56	90.10	904.14	1.06	30.87	1,883,085.08	151,903.25	36° 10' 10.823 N	107° 25' 45.644 W
968.00	9.79	82.64	965.35	1.73	40.71	1,883,085.63	151,913.10	36° 10' 10.829 N	107° 25' 45.524 W
1,031.00	10.30	80.78	1,027.38	3.32	51.58	1,883,087.09	151,923.99	36° 10' 10.845 N	107° 25' 45.391 W

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2206-02H #226H
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 #226H	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
1,092.00	10.57	76.51	1,087.37	5.50	62.40	1,883,089.14	151,934.84	36° 10' 10.866 N	107° 25' 45.259 W
1,151.00	10.92	74.21	1,145.34	8.28	73.04	1,883,091.79	151,945.51	36° 10' 10.894 N	107° 25' 45.129 W
1,212.00	10.66	74.99	1,205.26	11.31	84.05	1,883,094.69	151,956.56	36° 10' 10.924 N	107° 25' 44.995 W
1,275.00	10.73	73.41	1,267.17	14.50	95.30	1,883,097.74	151,967.84	36° 10' 10.955 N	107° 25' 44.858 W
1,364.00	10.97	73.23	1,354.57	19.31	111.35	1,883,102.35	151,983.95	36° 10' 11.003 N	107° 25' 44.662 W
1,425.00	10.08	69.31	1,414.55	22.87	121.90	1,883,105.78	151,994.54	36° 10' 11.038 N	107° 25' 44.533 W
1,483.00	8.95	72.39	1,471.75	26.03	130.95	1,883,108.83	152,003.63	36° 10' 11.069 N	107° 25' 44.423 W
1,544.00	8.09	80.74	1,532.08	28.15	139.71	1,883,110.85	152,012.41	36° 10' 11.090 N	107° 25' 44.316 W
1,605.00	8.44	80.97	1,592.44	29.55	148.37	1,883,112.14	152,021.09	36° 10' 11.104 N	107° 25' 44.211 W
1,669.00	8.26	78.94	1,655.77	31.17	157.52	1,883,113.65	152,030.26	36° 10' 11.120 N	107° 25' 44.099 W
1,730.00	8.52	75.86	1,716.11	33.11	166.20	1,883,115.48	152,038.96	36° 10' 11.139 N	107° 25' 43.993 W
1,791.00	8.99	81.42	1,776.40	34.92	175.29	1,883,117.19	152,048.08	36° 10' 11.157 N	107° 25' 43.882 W
1,853.00	10.10	84.76	1,837.54	36.14	185.50	1,883,118.28	152,058.30	36° 10' 11.169 N	107° 25' 43.758 W
1,914.00	10.67	86.11	1,897.55	37.02	196.46	1,883,119.02	152,069.27	36° 10' 11.178 N	107° 25' 43.624 W
1,974.00	11.15	85.14	1,956.46	37.88	207.78	1,883,119.75	152,080.60	36° 10' 11.187 N	107° 25' 43.486 W
2,036.00	11.44	82.74	2,017.26	39.17	219.85	1,883,120.89	152,092.69	36° 10' 11.199 N	107° 25' 43.339 W
2,098.00	11.76	83.87	2,077.99	40.62	232.23	1,883,122.19	152,105.08	36° 10' 11.214 N	107° 25' 43.188 W
2,159.00	11.73	78.18	2,137.72	42.55	244.49	1,883,123.98	152,117.36	36° 10' 11.233 N	107° 25' 43.038 W
2,219.00	11.51	75.49	2,196.49	45.30	256.25	1,883,126.58	152,129.16	36° 10' 11.260 N	107° 25' 42.895 W
2,280.00	11.53	75.88	2,256.26	48.32	268.05	1,883,129.45	152,140.99	36° 10' 11.290 N	107° 25' 42.751 W
2,343.00	11.93	74.59	2,317.95	51.58	280.44	1,883,132.57	152,153.42	36° 10' 11.322 N	107° 25' 42.600 W
2,404.00	12.29	74.77	2,377.59	54.96	292.78	1,883,135.80	152,165.80	36° 10' 11.355 N	107° 25' 42.449 W
2,464.00	11.41	71.75	2,436.31	58.50	304.58	1,883,139.19	152,177.64	36° 10' 11.390 N	107° 25' 42.306 W
2,526.00	10.66	70.44	2,497.16	62.34	315.81	1,883,142.89	152,188.91	36° 10' 11.428 N	107° 25' 42.169 W
2,589.00	10.44	69.77	2,559.10	66.26	326.65	1,883,146.69	152,199.81	36° 10' 11.467 N	107° 25' 42.036 W
2,652.00	10.35	68.25	2,621.06	70.33	337.27	1,883,150.63	152,210.47	36° 10' 11.507 N	107° 25' 41.907 W
2,715.00	10.14	70.70	2,683.06	74.26	347.76	1,883,154.43	152,221.01	36° 10' 11.546 N	107° 25' 41.779 W
2,778.00	10.66	76.47	2,745.03	77.46	358.66	1,883,157.49	152,231.94	36° 10' 11.578 N	107° 25' 41.646 W
2,841.00	11.01	80.09	2,806.90	79.86	370.25	1,883,159.75	152,243.56	36° 10' 11.602 N	107° 25' 41.505 W
2,903.00	10.89	80.00	2,867.77	81.90	381.85	1,883,161.65	152,255.19	36° 10' 11.622 N	107° 25' 41.363 W
2,966.00	10.73	79.32	2,929.66	84.02	393.47	1,883,163.62	152,266.84	36° 10' 11.643 N	107° 25' 41.222 W
3,029.00	10.61	79.05	2,991.57	86.20	404.93	1,883,165.67	152,278.32	36° 10' 11.664 N	107° 25' 41.082 W
3,092.00	10.33	79.28	3,053.52	88.36	416.17	1,883,167.69	152,289.59	36° 10' 11.686 N	107° 25' 40.945 W
3,155.00	10.17	78.35	3,115.51	90.53	427.17	1,883,169.73	152,300.61	36° 10' 11.707 N	107° 25' 40.811 W
3,218.00	9.92	77.14	3,177.55	92.86	437.91	1,883,171.93	152,311.38	36° 10' 11.730 N	107° 25' 40.680 W
3,281.00	10.32	78.96	3,239.57	95.15	448.74	1,883,174.09	152,322.23	36° 10' 11.753 N	107° 25' 40.548 W
3,344.00	10.69	80.97	3,301.51	97.15	460.05	1,883,175.95	152,333.57	36° 10' 11.773 N	107° 25' 40.410 W
3,407.00	10.64	80.78	3,363.42	99.00	471.56	1,883,177.66	152,345.10	36° 10' 11.791 N	107° 25' 40.269 W
3,469.00	10.36	80.52	3,424.38	100.83	482.71	1,883,179.36	152,356.27	36° 10' 11.809 N	107° 25' 40.133 W
3,531.00	10.20	80.01	3,485.39	102.70	493.61	1,883,181.09	152,367.20	36° 10' 11.828 N	107° 25' 40.000 W
3,594.00	9.95	80.91	3,547.42	104.53	504.48	1,883,182.79	152,378.08	36° 10' 11.846 N	107° 25' 39.868 W
3,658.00	10.37	79.22	3,610.41	106.48	515.60	1,883,184.60	152,389.23	36° 10' 11.865 N	107° 25' 39.732 W
3,720.00	10.62	78.76	3,671.38	108.64	526.68	1,883,186.63	152,400.34	36° 10' 11.886 N	107° 25' 39.597 W
3,783.00	10.98	79.25	3,733.26	110.89	538.27	1,883,188.74	152,411.95	36° 10' 11.908 N	107° 25' 39.456 W
3,847.00	11.05	79.68	3,796.08	113.12	550.29	1,883,190.83	152,424.00	36° 10' 11.931 N	107° 25' 39.309 W
3,911.00	10.38	78.82	3,858.97	115.34	561.98	1,883,192.90	152,435.72	36° 10' 11.953 N	107° 25' 39.166 W
3,974.00	9.85	80.33	3,920.99	117.35	572.86	1,883,194.77	152,446.62	36° 10' 11.972 N	107° 25' 39.034 W
4,037.00	9.46	79.93	3,983.09	119.16	583.27	1,883,196.46	152,457.05	36° 10' 11.990 N	107° 25' 38.907 W
4,100.00	9.38	75.28	4,045.25	121.37	593.34	1,883,198.54	152,467.14	36° 10' 12.012 N	107° 25' 38.784 W
4,162.00	9.18	71.53	4,106.43	124.22	602.91	1,883,201.28	152,476.75	36° 10' 12.040 N	107° 25' 38.667 W
4,225.00	9.25	70.54	4,168.62	127.50	612.45	1,883,204.44	152,486.33	36° 10' 12.073 N	107° 25' 38.551 W
4,290.00	8.29	71.05	4,232.86	130.76	621.81	1,883,207.59	152,495.73	36° 10' 12.105 N	107° 25' 38.437 W
4,353.00	6.55	72.48	4,295.33	133.32	629.54	1,883,210.05	152,503.48	36° 10' 12.130 N	107° 25' 38.343 W
4,416.00	4.18	72.91	4,358.05	135.07	635.16	1,883,211.74	152,509.12	36° 10' 12.148 N	107° 25' 38.274 W
4,478.00	2.34	70.47	4,419.95	136.16	638.51	1,883,212.79	152,512.49	36° 10' 12.158 N	107° 25' 38.233 W

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2206-02H #226H
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Site:	Chaco 2206-02H	MD Reference:	GL 6949' & RKB 14' @ 6963.01ft
Well:	Chaco 2206-02H #226H	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
4,541.00	1.19	64.55	4,482.92	136.87	640.31	1,883,213.48	152,514.30	36° 10' 12.165 N	107° 25' 38.211 W
4,604.00	0.96	70.55	4,545.91	137.33	641.40	1,883,213.92	152,515.40	36° 10' 12.170 N	107° 25' 38.198 W
4,666.00	1.04	88.14	4,607.90	137.52	642.45	1,883,214.10	152,516.45	36° 10' 12.172 N	107° 25' 38.185 W
4,729.00	0.83	83.60	4,670.89	137.59	643.48	1,883,214.16	152,517.48	36° 10' 12.172 N	107° 25' 38.173 W
4,760.00	0.31	57.40	4,701.89	137.66	643.77	1,883,214.22	152,517.77	36° 10' 12.173 N	107° 25' 38.169 W
4,792.00	1.55	284.91	4,733.88	137.82	643.43	1,883,214.38	152,517.43	36° 10' 12.175 N	107° 25' 38.173 W
4,823.00	2.96	286.94	4,764.86	138.16	642.26	1,883,214.74	152,516.26	36° 10' 12.178 N	107° 25' 38.187 W
4,855.00	4.88	292.13	4,796.78	138.91	640.20	1,883,215.52	152,514.22	36° 10' 12.186 N	107° 25' 38.212 W
4,886.00	7.26	295.77	4,827.61	140.26	637.22	1,883,216.90	152,511.25	36° 10' 12.199 N	107° 25' 38.249 W
4,918.00	9.00	294.93	4,859.28	142.19	633.13	1,883,218.89	152,507.18	36° 10' 12.218 N	107° 25' 38.299 W
4,950.00	11.12	296.19	4,890.79	144.61	628.09	1,883,221.36	152,502.17	36° 10' 12.242 N	107° 25' 38.360 W
4,981.00	13.48	293.36	4,921.08	147.36	622.09	1,883,224.19	152,496.21	36° 10' 12.269 N	107° 25' 38.433 W
5,012.00	15.39	289.91	4,951.10	150.20	614.90	1,883,227.11	152,489.05	36° 10' 12.297 N	107° 25' 38.521 W
5,044.00	17.17	285.95	4,981.81	152.94	606.37	1,883,229.96	152,480.55	36° 10' 12.324 N	107° 25' 38.625 W
5,075.00	19.36	282.26	5,011.25	155.29	596.95	1,883,232.42	152,471.16	36° 10' 12.348 N	107° 25' 38.740 W
5,107.00	22.26	280.25	5,041.16	157.50	585.80	1,883,234.76	152,460.04	36° 10' 12.369 N	107° 25' 38.876 W
5,138.00	24.75	277.40	5,069.59	159.38	573.58	1,883,236.79	152,447.85	36° 10' 12.388 N	107° 25' 39.025 W
5,169.00	27.27	276.37	5,097.44	161.00	560.09	1,883,238.58	152,434.37	36° 10' 12.404 N	107° 25' 39.190 W
5,201.00	30.47	274.84	5,125.46	162.50	544.71	1,883,240.26	152,419.02	36° 10' 12.419 N	107° 25' 39.377 W
5,232.00	33.33	273.35	5,151.78	163.66	528.37	1,883,241.62	152,402.70	36° 10' 12.430 N	107° 25' 39.576 W
5,264.00	36.51	271.51	5,178.02	164.42	510.08	1,883,242.61	152,384.41	36° 10' 12.438 N	107° 25' 39.799 W
5,295.00	37.26	270.97	5,202.81	164.83	491.47	1,883,243.24	152,365.81	36° 10' 12.442 N	107° 25' 40.026 W
5,326.00	40.82	269.56	5,226.89	164.91	471.95	1,883,243.56	152,346.29	36° 10' 12.443 N	107° 25' 40.264 W
5,358.00	44.38	270.05	5,250.44	164.84	450.30	1,883,243.75	152,324.64	36° 10' 12.442 N	107° 25' 40.528 W
5,389.00	48.33	268.41	5,271.83	164.53	427.87	1,883,243.71	152,302.21	36° 10' 12.439 N	107° 25' 40.802 W
5,421.00	51.97	266.66	5,292.33	163.46	403.33	1,883,242.94	152,277.66	36° 10' 12.428 N	107° 25' 41.101 W
5,452.00	56.26	266.94	5,310.50	162.06	378.26	1,883,241.85	152,252.58	36° 10' 12.415 N	107° 25' 41.407 W
5,484.00	60.21	267.53	5,327.34	160.75	351.09	1,883,240.87	152,225.39	36° 10' 12.402 N	107° 25' 41.738 W
5,515.00	63.51	267.34	5,341.96	159.53	323.79	1,883,239.98	152,198.08	36° 10' 12.389 N	107° 25' 42.071 W
5,548.00	66.93	268.20	5,355.79	158.36	293.85	1,883,239.18	152,168.13	36° 10' 12.378 N	107° 25' 42.436 W
5,579.00	71.26	269.78	5,366.85	157.86	264.91	1,883,239.02	152,139.18	36° 10' 12.373 N	107° 25' 42.789 W
5,610.00	73.48	269.97	5,376.24	157.79	235.36	1,883,239.32	152,109.64	36° 10' 12.372 N	107° 25' 43.150 W
5,642.00	77.20	270.36	5,384.33	157.88	204.41	1,883,239.79	152,078.69	36° 10' 12.373 N	107° 25' 43.527 W
5,673.00	80.92	270.13	5,390.22	158.01	173.98	1,883,240.28	152,048.26	36° 10' 12.375 N	107° 25' 43.898 W
5,704.00	82.18	269.99	5,394.77	158.05	143.32	1,883,240.69	152,017.60	36° 10' 12.375 N	107° 25' 44.272 W
5,736.00	83.10	269.73	5,398.87	157.97	111.58	1,883,241.00	151,985.87	36° 10' 12.374 N	107° 25' 44.659 W
5,767.00	84.68	270.03	5,402.17	157.90	80.76	1,883,241.31	151,955.05	36° 10' 12.373 N	107° 25' 45.035 W
5,799.00	87.34	270.56	5,404.40	158.07	48.84	1,883,241.86	151,923.13	36° 10' 12.375 N	107° 25' 45.424 W
5,830.00	91.31	270.35	5,404.76	158.32	17.85	1,883,242.48	151,892.15	36° 10' 12.378 N	107° 25' 45.802 W
5,846.00	92.16	269.67	5,404.28	158.32	1.86	1,883,242.68	151,876.16	36° 10' 12.378 N	107° 25' 45.997 W
5,850.00	92.21	269.52	5,404.12	158.29	-2.14	1,883,242.70	151,872.16	36° 10' 12.377 N	107° 25' 46.046 W
5850' MD Crossed Hardline; End of Curve									
5,891.00	92.67	267.94	5,402.38	157.38	-43.09	1,883,242.29	151,831.20	36° 10' 12.368 N	107° 25' 46.546 W
7" Casing; 5891' MD									
5,923.00	93.03	266.71	5,400.79	155.89	-75.02	1,883,241.19	151,799.26	36° 10' 12.354 N	107° 25' 46.935 W
Last SDI Surface MWD Survey									
5,953.00	93.53	267.65	5,399.07	154.42	-104.93	1,883,240.08	151,769.33	36° 10' 12.339 N	107° 25' 47.300 W
First SDI Lateral MWD Survey									
6,013.00	91.88	267.91	5,396.24	152.09	-164.82	1,883,238.48	151,709.42	36° 10' 12.316 N	107° 25' 48.030 W
6,075.00	90.81	268.63	5,394.79	150.22	-226.77	1,883,237.36	151,647.45	36° 10' 12.297 N	107° 25' 48.786 W
6,136.00	90.30	270.22	5,394.20	149.61	-287.76	1,883,237.49	151,586.45	36° 10' 12.291 N	107° 25' 49.529 W
6,198.00	90.24	270.59	5,393.90	150.05	-349.76	1,883,238.68	151,524.46	36° 10' 12.296 N	107° 25' 50.285 W
6,258.00	90.34	270.19	5,393.60	150.46	-409.76	1,883,239.82	151,464.48	36° 10' 12.300 N	107° 25' 51.017 W
6,319.00	90.27	272.76	5,393.28	152.03	-470.73	1,883,242.13	151,403.53	36° 10' 12.315 N	107° 25' 51.761 W

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2206-02H #226H
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 #226H	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
6,382.00	90.97	273.91	5,392.59	155.69	-533.62	1,883,246.56	151,340.69	36° 10' 12.352 N	107° 25' 52.528 W
6,442.00	91.14	273.02	5,391.49	159.32	-593.50	1,883,250.91	151,280.86	36° 10' 12.387 N	107° 25' 53.258 W
6,503.00	91.88	273.49	5,389.88	162.78	-654.38	1,883,255.12	151,220.02	36° 10' 12.422 N	107° 25' 54.000 W
6,564.00	90.40	275.58	5,388.67	167.60	-715.17	1,883,260.68	151,159.29	36° 10' 12.469 N	107° 25' 54.742 W
6,628.00	90.84	275.39	5,387.98	173.72	-778.87	1,883,267.57	151,095.67	36° 10' 12.530 N	107° 25' 55.519 W
6,691.00	91.45	275.05	5,386.72	179.45	-841.60	1,883,274.06	151,033.02	36° 10' 12.586 N	107° 25' 56.284 W
6,754.00	91.55	274.56	5,385.07	184.73	-904.36	1,883,280.10	150,970.33	36° 10' 12.639 N	107° 25' 57.049 W
6,817.00	90.84	273.01	5,383.75	188.88	-967.20	1,883,285.02	150,907.54	36° 10' 12.680 N	107° 25' 57.815 W
6,880.00	90.81	272.21	5,382.85	191.75	-1,030.13	1,883,288.65	150,844.65	36° 10' 12.708 N	107° 25' 58.583 W
6,944.00	90.47	270.98	5,382.13	193.53	-1,094.10	1,883,291.21	150,780.71	36° 10' 12.726 N	107° 25' 59.363 W
7,007.00	91.01	270.82	5,381.32	194.52	-1,157.09	1,883,292.96	150,717.74	36° 10' 12.735 N	107° 26' 0.131 W
7,070.00	91.18	270.68	5,380.11	195.35	-1,220.07	1,883,294.55	150,654.77	36° 10' 12.743 N	107° 26' 0.899 W
7,133.00	91.25	270.61	5,378.78	196.06	-1,283.05	1,883,296.03	150,591.80	36° 10' 12.750 N	107° 26' 1.667 W
7,197.00	91.58	270.50	5,377.20	196.68	-1,347.03	1,883,297.42	150,527.84	36° 10' 12.757 N	107° 26' 2.447 W
7,260.00	91.18	269.97	5,375.68	196.93	-1,410.01	1,883,298.45	150,464.86	36° 10' 12.759 N	107° 26' 3.216 W
7,322.00	91.48	270.13	5,374.24	196.99	-1,471.99	1,883,299.26	150,402.89	36° 10' 12.760 N	107° 26' 3.971 W
7,386.00	91.78	270.03	5,372.42	197.08	-1,535.97	1,883,300.12	150,338.92	36° 10' 12.760 N	107° 26' 4.752 W
7,449.00	91.89	270.27	5,370.40	197.24	-1,598.93	1,883,301.05	150,275.96	36° 10' 12.762 N	107° 26' 5.520 W
7,512.00	91.95	270.22	5,368.29	197.51	-1,661.90	1,883,302.09	150,213.00	36° 10' 12.765 N	107° 26' 6.287 W
7,576.00	90.03	269.70	5,367.19	197.47	-1,725.89	1,883,302.82	150,149.02	36° 10' 12.764 N	107° 26' 7.068 W
7,639.00	90.47	270.01	5,366.91	197.31	-1,788.88	1,883,303.42	150,086.02	36° 10' 12.763 N	107° 26' 7.836 W
7,702.00	90.34	269.92	5,366.47	197.27	-1,851.88	1,883,304.15	150,023.03	36° 10' 12.762 N	107° 26' 8.604 W
7,765.00	89.09	270.47	5,366.78	197.48	-1,914.88	1,883,305.13	149,960.04	36° 10' 12.764 N	107° 26' 9.373 W
7,827.00	89.33	270.69	5,367.63	198.11	-1,976.87	1,883,306.51	149,898.06	36° 10' 12.770 N	107° 26' 10.129 W
7,890.00	89.80	270.96	5,368.11	199.02	-2,039.86	1,883,308.18	149,835.08	36° 10' 12.779 N	107° 26' 10.897 W
7,952.00	90.07	271.14	5,368.18	200.15	-2,101.85	1,883,310.07	149,773.11	36° 10' 12.791 N	107° 26' 11.653 W
8,016.00	90.30	271.51	5,367.98	201.63	-2,165.83	1,883,312.33	149,709.15	36° 10' 12.805 N	107° 26' 12.433 W
8,079.00	90.54	271.63	5,367.51	203.36	-2,228.81	1,883,314.82	149,646.21	36° 10' 12.822 N	107° 26' 13.201 W
8,141.00	91.08	272.20	5,366.64	205.43	-2,290.77	1,883,317.65	149,584.28	36° 10' 12.843 N	107° 26' 13.957 W
8,204.00	91.55	272.10	5,365.19	207.79	-2,353.71	1,883,320.77	149,521.37	36° 10' 12.866 N	107° 26' 14.724 W
8,268.00	91.21	272.23	5,363.65	210.21	-2,417.64	1,883,323.97	149,457.47	36° 10' 12.890 N	107° 26' 15.504 W
8,330.00	90.50	272.20	5,362.73	212.61	-2,479.59	1,883,327.12	149,395.56	36° 10' 12.913 N	107° 26' 16.259 W
8,393.00	90.47	272.46	5,362.19	215.17	-2,542.53	1,883,330.44	149,332.65	36° 10' 12.939 N	107° 26' 17.027 W
8,456.00	90.74	272.20	5,361.53	217.73	-2,605.48	1,883,333.77	149,269.74	36° 10' 12.964 N	107° 26' 17.795 W
8,520.00	90.61	271.87	5,360.77	220.00	-2,669.43	1,883,336.82	149,205.82	36° 10' 12.986 N	107° 26' 18.575 W
8,583.00	91.25	270.54	5,359.75	221.33	-2,732.41	1,883,338.91	149,142.86	36° 10' 12.999 N	107° 26' 19.343 W
8,646.00	92.11	270.98	5,357.90	222.16	-2,795.38	1,883,340.51	149,079.91	36° 10' 13.008 N	107° 26' 20.111 W
8,709.00	91.85	270.78	5,355.73	223.13	-2,858.33	1,883,342.24	149,016.97	36° 10' 13.017 N	107° 26' 20.878 W
8,772.00	90.71	270.56	5,354.32	223.87	-2,921.31	1,883,343.74	148,954.01	36° 10' 13.024 N	107° 26' 21.646 W
8,835.00	91.01	270.55	5,353.37	224.48	-2,984.30	1,883,345.12	148,891.03	36° 10' 13.030 N	107° 26' 22.415 W
8,898.00	91.55	270.82	5,351.97	225.23	-3,047.28	1,883,346.63	148,828.06	36° 10' 13.038 N	107° 26' 23.183 W
8,961.00	92.12	270.86	5,349.95	226.15	-3,110.24	1,883,348.32	148,765.12	36° 10' 13.047 N	107° 26' 23.951 W
9,024.00	92.15	270.95	5,347.60	227.15	-3,173.19	1,883,350.08	148,702.19	36° 10' 13.056 N	107° 26' 24.718 W
9,087.00	91.34	271.19	5,345.68	228.32	-3,236.15	1,883,352.02	148,639.25	36° 10' 13.068 N	107° 26' 25.486 W
9,151.00	91.04	271.18	5,344.36	229.65	-3,300.12	1,883,354.12	148,575.29	36° 10' 13.081 N	107° 26' 26.266 W
9,213.00	90.20	271.05	5,343.68	230.85	-3,362.10	1,883,356.08	148,513.33	36° 10' 13.093 N	107° 26' 27.022 W
9,276.00	91.08	270.95	5,342.98	231.95	-3,425.09	1,883,357.95	148,450.36	36° 10' 13.104 N	107° 26' 27.790 W
9,339.00	90.57	270.69	5,342.07	232.85	-3,488.08	1,883,359.61	148,387.39	36° 10' 13.113 N	107° 26' 28.558 W
9,402.00	89.80	271.20	5,341.87	233.89	-3,551.07	1,883,361.42	148,324.42	36° 10' 13.123 N	107° 26' 29.327 W
9,465.00	90.30	271.39	5,341.82	235.32	-3,614.05	1,883,363.61	148,261.46	36° 10' 13.137 N	107° 26' 30.095 W
9,528.00	90.30	271.33	5,341.49	236.81	-3,677.03	1,883,365.87	148,198.50	36° 10' 13.151 N	107° 26' 30.863 W
9,591.00	89.06	271.73	5,341.84	238.49	-3,740.01	1,883,368.31	148,135.55	36° 10' 13.168 N	107° 26' 31.631 W
9,654.00	89.70	271.52	5,342.52	240.28	-3,802.98	1,883,370.87	148,072.60	36° 10' 13.186 N	107° 26' 32.399 W
9,716.00	90.27	271.63	5,342.53	241.98	-3,864.95	1,883,373.32	148,010.65	36° 10' 13.202 N	107° 26' 33.155 W
9,780.00	90.77	271.83	5,341.95	243.92	-3,928.92	1,883,376.03	147,946.71	36° 10' 13.221 N	107° 26' 33.935 W

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2206-02H #226H
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 #226H	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
9,843.00	91.28	271.39	5,340.83	245.69	-3,991.89	1,883,378.57	147,883.77	36° 10' 13.239 N	107° 26' 34.703 W
9,906.00	91.01	269.92	5,339.57	246.41	-4,054.87	1,883,380.05	147,820.81	36° 10' 13.246 N	107° 26' 35.471 W
9,969.00	90.78	269.64	5,338.58	246.16	-4,117.86	1,883,380.58	147,757.82	36° 10' 13.243 N	107° 26' 36.239 W
10,032.00	91.48	269.24	5,337.34	245.55	-4,180.84	1,883,380.73	147,694.83	36° 10' 13.237 N	107° 26' 37.007 W
10,094.00	91.41	269.20	5,335.78	244.70	-4,242.82	1,883,380.63	147,632.85	36° 10' 13.229 N	107° 26' 37.763 W
10,157.00	90.77	269.24	5,334.58	243.85	-4,305.80	1,883,380.54	147,569.86	36° 10' 13.220 N	107° 26' 38.531 W
10,220.00	90.77	269.30	5,333.73	243.04	-4,368.79	1,883,380.51	147,506.87	36° 10' 13.212 N	107° 26' 39.299 W
10,283.00	89.66	269.71	5,333.50	242.50	-4,431.79	1,883,380.73	147,443.87	36° 10' 13.207 N	107° 26' 40.067 W
10,347.00	90.10	269.65	5,333.63	242.14	-4,495.79	1,883,381.15	147,379.87	36° 10' 13.203 N	107° 26' 40.848 W
10,405.00	90.50	269.39	5,333.33	241.66	-4,553.78	1,883,381.37	147,321.87	36° 10' 13.198 N	107° 26' 41.555 W
10,420.00	90.63	269.34	5,333.18	241.49	-4,568.78	1,883,381.38	147,306.87	36° 10' 13.196 N	107° 26' 41.738 W
10,420' MD Crossed Hardline									
10,455.00	90.94	269.22	5,332.70	241.05	-4,603.77	1,883,381.37	147,271.88	36° 10' 13.192 N	107° 26' 42.165 W
Last SDI Lateral MWD Survey									
10,520.00	90.94	269.22	5,331.63	240.17	-4,668.76	1,883,381.27	147,206.89	36° 10' 13.183 N	107° 26' 42.957 W
Projected to TD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
461.00	460.99	1.91	-1.28	First SDI Surface MWD Survey
5,850.00	5,404.12	158.29	-2.14	5850' MD Crossed Hardline; End of Curve
5,891.00	5,402.38	157.38	-43.09	7" Casing; 5891' MD
5,923.00	5,400.79	155.89	-75.02	Last SDI Surface MWD Survey
5,953.00	5,399.07	154.42	-104.93	First SDI Lateral MWD Survey
10,420.00	5,333.18	241.49	-4,568.78	10,420' MD Crossed Hardline
10,455.00	5,332.70	241.05	-4,603.77	Last SDI Lateral MWD Survey
10,520.00	5,331.63	240.17	-4,668.76	Projected to TD

Checked By: _____	Approved By: _____	Date: _____
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