

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

CONFIDENTIAL

☐ AMENDED REPORT

As Drilled Plat

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31227	² Pool Code 97232 / 42289	³ Pool Name BASIN MANCOS / LYBROOK GALLUP
⁴ Property Code 313186	⁵ Property Name CHACO 2307-17H	⁶ Well Number 275H
⁷ GRID No. 120782	⁸ Operator Name WPX ENERGY PRODUCTION, LLC	⁹ Elevation 7257'

¹⁰ Surface Location

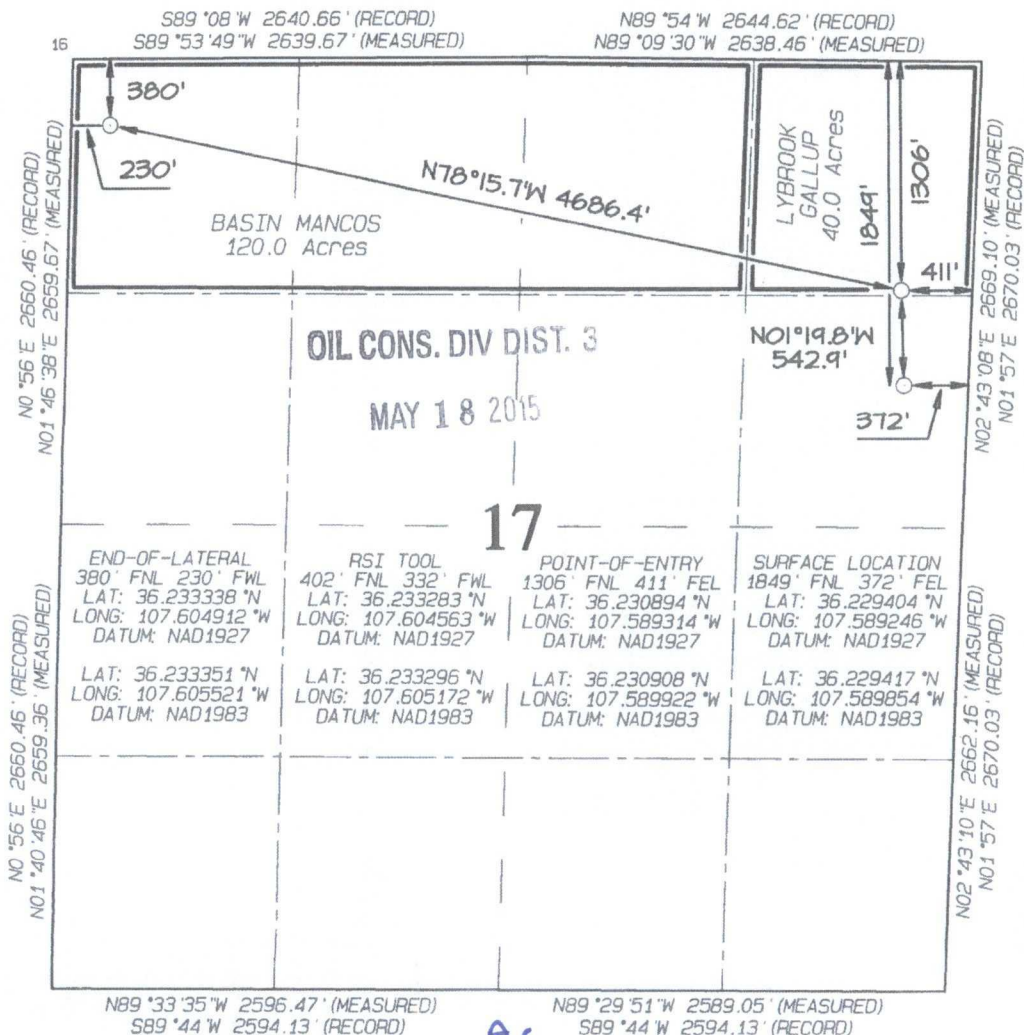
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	17	23N	7W		1849	NORTH	372	EAST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	17	23N	7W		380	NORTH	230	WEST	RIO ARriba

¹² Dedicated Acres 160.0 Acres - (N/2 N/2) Mancos = 120 Gallup = 40	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: *Marie E. Jaramillo*
Date: *5/18/15*
Printed Name: **Marie E. Jaramillo**
E-mail Address: **marie.jaramillo@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: MARCH 19, 2015
Survey Date: JANUARY 30, 2014

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269



Scientific Drilling

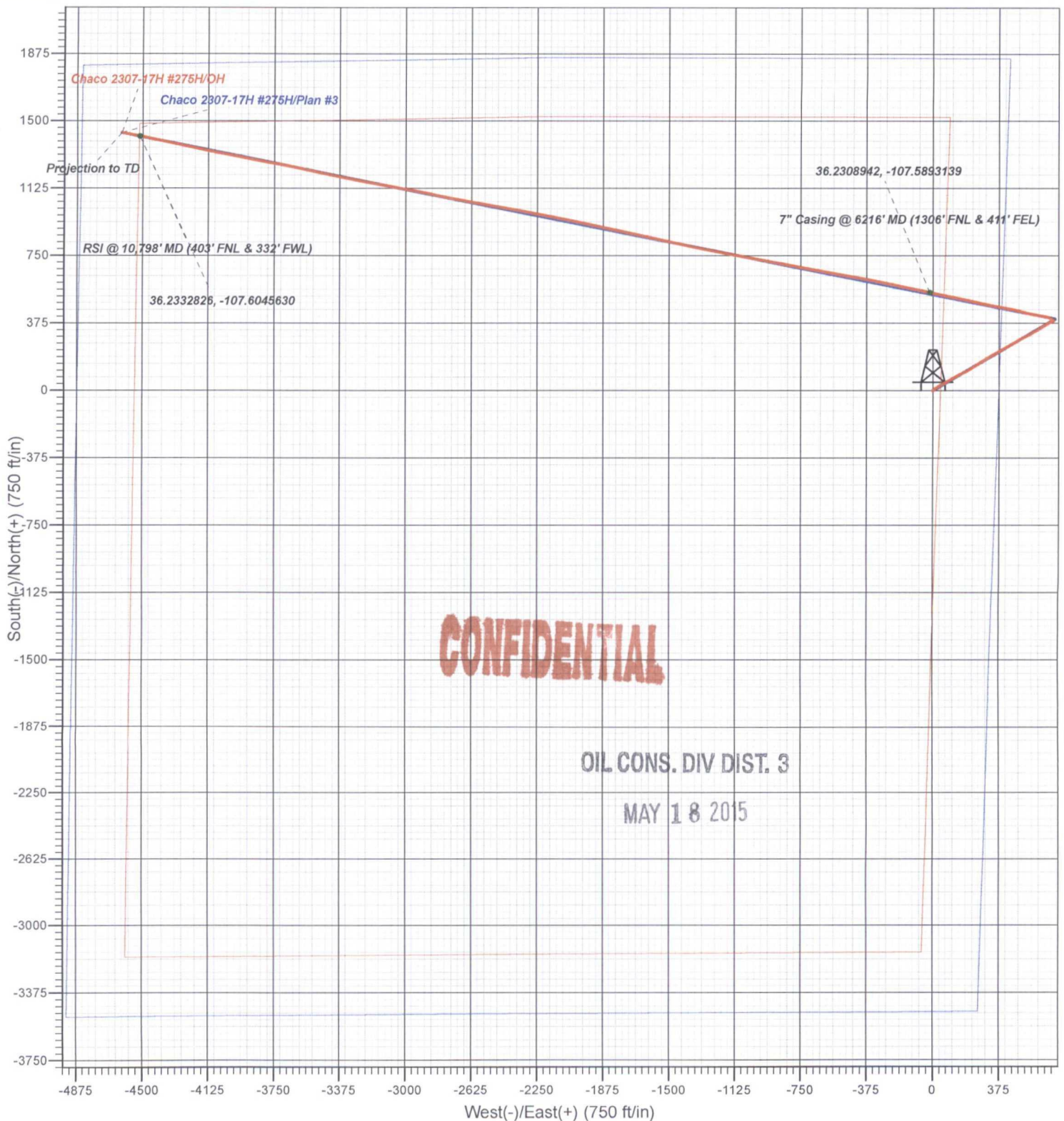
Company: WPX Energy Rocky Mountain, LLC
Project: Rio Arriba County, NM NAD27
Site: Chaco 2307-17H



Well Details: Chaco 2307-17H #275H

TVD Reference: GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)

+N/-S	+E/-W	North	East	Latitude	Longitude	Slot
0.00	0.00	1905440.18	105003.40	36.2294000	-107.5892500	



Plan: OH

15:09, March 13 2015
Created By: Janie Collins

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2307-17H #275H
Project:	Rio Arriba County, NM NAD27	TVD Reference:	GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
Site:	Chaco 2307-17H	MD Reference:	GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
Well:	Chaco 2307-17H #275H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project	Rio Arriba County, NM NAD27		OIL CONS. DIV DIST. 3
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		MAY 18 2015

Site	Chaco 2307-17H				
Site Position:		Northing:	1,905,418.33 usft	Latitude:	36.2293399
From:	Lat/Long	Easting:	105,003.10 usft	Longitude:	-107.5892500
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.79 °

Well	Chaco 2307-17H #275H					
Well Position	+N/-S	0.00 ft	Northing:	1,905,440.19 usft	Latitude:	36.2294000
	+E/-W	0.00 ft	Easting:	105,003.40 usft	Longitude:	-107.5892500
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	7,257.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	2/28/2015	9.40	62.98	49,993

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	287.24	

Survey Program	Date	3/13/2015			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
64.00	335.00	Survey #1 - Gyro Survey (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
465.00	4,945.00	Survey #2 - Surface MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,008.00	6,171.00	Survey #3 - Curve MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
6,204.00	10,903.00	Survey #4 - Lateral MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,905,440.19	105,003.40	36.2294000	-107.5892500
64.00	0.30	154.90	64.00	-0.15	0.07	1,905,440.03	105,003.47	36.2293996	-107.5892498
First Native Navigation Gyro Survey									
114.00	0.47	185.34	114.00	-0.47	0.11	1,905,439.71	105,003.50	36.2293987	-107.5892497
164.00	0.36	198.53	164.00	-0.83	0.04	1,905,439.36	105,003.43	36.2293977	-107.5892499
214.00	0.42	202.06	214.00	-1.15	-0.08	1,905,439.04	105,003.30	36.2293968	-107.5892503
264.00	0.44	256.32	263.99	-1.36	-0.34	1,905,438.83	105,003.04	36.2293962	-107.5892512
314.00	0.42	257.56	313.99	-1.45	-0.70	1,905,438.75	105,002.68	36.2293960	-107.5892524



Survey Report - Geographic



Company: WPX Energy Rocky Mountain, LLC
Project: Rio Arriba County, NM NAD27
Site: Chaco 2307-17H
Well: Chaco 2307-17H #275H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Chaco 2307-17H #275H
TVD Reference: GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
MD Reference: GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
335.00	0.32	259.18	334.99	-1.47	-0.83	1,905,438.72	105,002.54	36.2293959	-107.5892529
Last Native Navigation Gyro Survey									
465.00	0.61	257.95	464.99	-1.69	-1.87	1,905,438.53	105,001.51	36.2293953	-107.5892564
First SDI Surface MWD Survey									
527.00	0.67	302.69	526.99	-1.56	-2.50	1,905,438.66	105,000.88	36.2293957	-107.5892585
590.00	1.21	29.21	589.98	-0.78	-2.48	1,905,439.44	105,000.91	36.2293978	-107.5892585
653.00	2.45	46.91	652.95	0.72	-1.17	1,905,440.92	105,002.24	36.2294020	-107.5892540
716.00	3.42	56.56	715.86	2.68	1.38	1,905,442.84	105,004.81	36.2294073	-107.5892454
779.00	5.31	56.39	778.68	5.33	5.38	1,905,445.44	105,008.85	36.2294146	-107.5892318
842.00	7.52	54.20	841.28	9.35	11.15	1,905,449.38	105,014.67	36.2294257	-107.5892123
905.00	9.42	57.18	903.59	14.56	18.82	1,905,454.48	105,022.42	36.2294400	-107.5891862
968.00	11.05	58.49	965.58	20.51	28.31	1,905,460.30	105,031.98	36.2294563	-107.5891541
1,030.00	11.60	63.60	1,026.38	26.38	38.95	1,905,466.03	105,042.71	36.2294724	-107.5891180
1,093.00	11.92	62.48	1,088.06	32.21	50.40	1,905,471.69	105,054.24	36.2294884	-107.5890792
1,156.00	12.09	62.56	1,149.68	38.25	62.02	1,905,477.58	105,065.94	36.2295050	-107.5890398
1,217.00	12.32	61.93	1,209.30	44.26	73.43	1,905,483.43	105,077.44	36.2295215	-107.5890011
1,279.00	12.92	60.76	1,269.80	50.76	85.32	1,905,522.09	105,089.41	36.2295394	-107.5889608
1,340.00	13.05	59.46	1,329.24	57.59	97.20	1,905,496.43	105,101.39	36.2295582	-107.5889205
1,401.00	12.41	59.18	1,388.74	64.45	108.76	1,905,503.12	105,113.04	36.2295770	-107.5888813
1,463.00	12.09	58.75	1,449.33	71.23	120.03	1,905,509.75	105,124.41	36.2295956	-107.5888431
1,524.00	12.80	61.43	1,508.90	77.77	131.43	1,905,516.14	105,135.89	36.2296136	-107.5888045
1,586.00	12.31	64.63	1,569.42	83.89	143.43	1,905,522.09	105,147.98	36.2296304	-107.5887638
1,647.00	11.96	66.03	1,629.05	89.24	155.09	1,905,527.28	105,159.70	36.2296451	-107.5887243
1,708.00	11.94	65.80	1,688.73	94.40	166.62	1,905,532.27	105,171.30	36.2296593	-107.5886852
1,770.00	11.80	63.36	1,749.41	99.87	178.13	1,905,537.59	105,182.89	36.2296743	-107.5886462
1,831.00	11.43	59.76	1,809.16	105.71	188.93	1,905,543.28	105,193.77	36.2296903	-107.5886096
1,892.00	11.92	57.67	1,868.89	112.12	199.47	1,905,549.54	105,204.40	36.2297079	-107.5885738
1,954.00	11.13	59.84	1,929.64	118.55	210.06	1,905,555.83	105,215.08	36.2297256	-107.5885379
2,015.00	10.90	59.14	1,989.52	124.47	220.10	1,905,561.60	105,225.20	36.2297419	-107.5885039
2,076.00	10.97	57.71	2,049.41	130.53	229.96	1,905,567.53	105,235.14	36.2297585	-107.5884705
2,138.00	10.94	55.05	2,110.28	137.05	239.77	1,905,573.91	105,245.04	36.2297764	-107.5884372
2,199.00	11.17	56.11	2,170.15	143.66	249.42	1,905,580.39	105,254.78	36.2297946	-107.5884045
2,260.00	11.38	58.03	2,229.97	150.14	259.43	1,905,586.73	105,264.87	36.2298124	-107.5883706
2,322.00	11.54	59.84	2,290.74	156.50	269.98	1,905,592.94	105,275.51	36.2298298	-107.5883348
2,383.00	10.75	59.43	2,350.59	162.46	280.15	1,905,598.76	105,285.77	36.2298462	-107.5883003
2,444.00	10.66	56.52	2,410.53	168.46	289.76	1,905,604.63	105,295.45	36.2298627	-107.5882678
2,506.00	10.64	58.62	2,471.46	174.61	299.42	1,905,610.64	105,305.21	36.2298796	-107.5882350
2,567.00	10.33	57.67	2,531.44	180.46	308.85	1,905,616.36	105,314.72	36.2298957	-107.5882030
2,628.00	11.17	60.99	2,591.37	186.25	318.64	1,905,622.02	105,324.58	36.2299116	-107.5881698
2,689.00	11.55	63.72	2,651.18	191.82	329.29	1,905,627.44	105,335.30	36.2299269	-107.5881338
2,751.00	11.79	62.53	2,711.89	197.49	340.47	1,905,632.96	105,346.57	36.2299424	-107.5880958
2,812.00	11.95	61.63	2,771.59	203.37	351.56	1,905,638.68	105,357.73	36.2299586	-107.5880582
2,873.00	11.78	62.23	2,831.29	209.27	362.62	1,905,644.43	105,368.88	36.2299748	-107.5880207
2,935.00	12.07	60.59	2,891.95	215.40	373.87	1,905,650.40	105,380.21	36.2299916	-107.5879826
2,996.00	12.24	60.80	2,951.58	221.69	385.07	1,905,656.53	105,391.50	36.2300089	-107.5879446
3,058.00	12.84	60.03	3,012.10	228.34	396.78	1,905,663.02	105,403.29	36.2300271	-107.5879050
3,121.00	13.08	60.13	3,073.50	235.38	409.02	1,905,669.90	105,415.63	36.2300465	-107.5878634
3,184.00	13.00	60.29	3,134.87	242.45	421.36	1,905,676.79	105,428.07	36.2300659	-107.5878216
3,247.00	13.42	59.60	3,196.21	249.66	433.82	1,905,683.83	105,440.62	36.2300857	-107.5877794
3,310.00	12.10	61.56	3,257.65	256.50	445.93	1,905,690.50	105,452.83	36.2301045	-107.5877383
3,373.00	11.24	62.00	3,319.35	262.53	457.16	1,905,696.37	105,464.14	36.2301211	-107.5877003
3,436.00	11.63	59.63	3,381.09	268.62	468.06	1,905,702.32	105,475.12	36.2301378	-107.5876633
3,499.00	11.53	59.02	3,442.81	275.07	478.94	1,905,708.62	105,486.09	36.2301555	-107.5876264
3,562.00	11.29	58.49	3,504.57	281.54	489.59	1,905,714.93	105,496.83	36.2301733	-107.5875903
3,625.00	12.01	61.66	3,566.27	287.87	500.62	1,905,721.11	105,507.95	36.2301907	-107.5875529



Survey Report - Geographic



Company: WPX Energy Rocky Mountain, LLC
Project: Rio Arriba County, NM NAD27
Site: Chaco 2307-17H
Well: Chaco 2307-17H #275H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Chaco 2307-17H #275H
TVD Reference: GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
MD Reference: GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
3,688.00	12.53	65.19	3,627.83	293.85	512.59	1,905,726.93	105,520.00	36.2302071	-107.5875123
3,751.00	12.34	65.51	3,689.35	299.51	524.92	1,905,732.41	105,532.41	36.2302226	-107.5874705
3,813.00	12.47	61.54	3,749.91	305.45	536.83	1,905,738.19	105,544.40	36.2302389	-107.5874301
3,876.00	12.34	58.60	3,811.44	312.20	548.56	1,905,744.77	105,556.22	36.2302575	-107.5873904
3,939.00	10.92	59.33	3,873.14	318.75	559.44	1,905,751.17	105,567.19	36.2302755	-107.5873535
4,002.00	10.03	61.01	3,935.09	324.45	569.37	1,905,756.74	105,577.20	36.2302911	-107.5873198
4,065.00	9.39	62.95	3,997.19	329.45	578.75	1,905,761.60	105,586.64	36.2303049	-107.5872881
4,128.00	10.67	58.49	4,059.23	334.83	588.30	1,905,766.86	105,596.26	36.2303196	-107.5872557
4,191.00	11.51	59.33	4,121.05	341.09	598.68	1,905,772.97	105,606.73	36.2303368	-107.5872205
4,254.00	11.65	59.82	4,182.77	347.49	609.58	1,905,779.22	105,617.72	36.2303544	-107.5871835
4,316.00	11.40	58.76	4,243.52	353.82	620.23	1,905,785.40	105,628.46	36.2303718	-107.5871474
4,379.00	10.99	57.03	4,305.32	360.31	630.59	1,905,791.75	105,638.91	36.2303896	-107.5871123
4,442.00	9.74	56.87	4,367.29	366.49	640.09	1,905,797.80	105,648.49	36.2304066	-107.5870801
4,503.00	7.74	60.11	4,427.58	371.36	647.98	1,905,802.56	105,656.44	36.2304200	-107.5870534
4,568.00	6.97	66.11	4,492.04	375.14	655.38	1,905,806.23	105,663.90	36.2304304	-107.5870283
4,631.00	6.37	70.47	4,554.62	377.86	662.17	1,905,808.86	105,670.72	36.2304378	-107.5870053
4,694.00	4.68	70.19	4,617.32	379.90	667.88	1,905,810.82	105,676.46	36.2304434	-107.5869859
4,756.00	4.09	61.37	4,679.14	381.81	672.20	1,905,812.67	105,680.81	36.2304487	-107.5869712
4,819.00	3.77	64.38	4,741.99	383.78	676.04	1,905,814.59	105,684.67	36.2304541	-107.5869582
4,882.00	3.49	58.96	4,804.87	385.67	679.55	1,905,816.43	105,688.21	36.2304593	-107.5869463
4,945.00	2.22	62.44	4,867.79	387.22	682.27	1,905,817.94	105,690.96	36.2304635	-107.5869371
Last SDI Surface MWD Survey									
5,008.00	0.30	22.06	4,930.77	387.94	683.42	1,905,818.64	105,692.11	36.2304655	-107.5869332
First SDI Curve MWD Survey									
5,039.00	0.41	340.05	4,961.77	388.12	683.41	1,905,818.82	105,692.11	36.2304660	-107.5869332
5,073.00	0.46	297.56	4,995.77	388.30	683.25	1,905,819.00	105,691.95	36.2304665	-107.5869338
5,105.00	2.29	303.18	5,027.76	388.71	682.60	1,905,819.42	105,691.30	36.2304676	-107.5869360
5,136.00	6.42	311.40	5,058.66	390.19	680.78	1,905,820.93	105,689.50	36.2304717	-107.5869422
5,168.00	9.54	308.67	5,090.35	393.03	677.37	1,905,823.82	105,686.13	36.2304795	-107.5869537
5,199.00	12.66	300.85	5,120.77	396.38	672.44	1,905,827.24	105,681.25	36.2304887	-107.5869704
5,230.00	15.39	295.49	5,150.84	399.89	665.81	1,905,830.84	105,674.67	36.2304983	-107.5869929
5,262.00	17.76	291.09	5,181.51	403.48	657.42	1,905,834.54	105,666.33	36.2305082	-107.5870213
5,293.00	19.80	287.53	5,210.86	406.76	648.00	1,905,837.95	105,656.96	36.2305172	-107.5870533
5,325.00	21.28	281.42	5,240.83	409.54	637.14	1,905,840.89	105,646.14	36.2305249	-107.5870901
5,356.00	21.89	279.14	5,269.65	411.57	625.92	1,905,843.07	105,634.95	36.2305304	-107.5871281
5,388.00	22.34	277.12	5,299.30	413.28	614.00	1,905,844.94	105,623.05	36.2305351	-107.5871685
5,419.00	24.23	278.46	5,327.77	414.94	601.86	1,905,846.77	105,610.93	36.2305397	-107.5872097
5,451.00	26.82	280.28	5,356.65	417.20	588.26	1,905,849.22	105,597.36	36.2305459	-107.5872558
5,482.00	29.91	282.66	5,383.92	420.14	573.83	1,905,852.36	105,582.98	36.2305540	-107.5873047
5,514.00	30.60	282.04	5,411.56	423.59	558.08	1,905,856.02	105,567.28	36.2305634	-107.5873581
5,545.00	32.27	282.50	5,438.01	427.02	542.29	1,905,859.68	105,551.53	36.2305729	-107.5874117
5,576.00	34.12	284.59	5,463.95	431.01	525.79	1,905,863.89	105,535.09	36.2305838	-107.5874676
5,608.00	35.84	284.19	5,490.17	435.56	508.02	1,905,868.69	105,517.39	36.2305963	-107.5875278
5,639.00	40.01	283.53	5,514.62	440.12	489.52	1,905,873.50	105,498.96	36.2306089	-107.5875905
5,671.00	43.79	282.81	5,538.44	444.99	468.72	1,905,878.65	105,478.22	36.2306222	-107.5876611
5,702.00	48.36	281.42	5,559.94	449.66	446.89	1,905,883.63	105,456.46	36.2306351	-107.5877350
5,733.00	52.36	280.29	5,579.71	454.15	423.45	1,905,888.44	105,433.09	36.2306474	-107.5878145
5,766.00	57.60	279.93	5,598.64	458.89	396.86	1,905,893.55	105,406.56	36.2306604	-107.5879047
5,796.00	59.15	280.07	5,614.37	463.32	371.70	1,905,898.33	105,381.46	36.2306726	-107.5879900
5,828.00	59.79	280.81	5,630.63	468.32	344.59	1,905,903.70	105,354.43	36.2306863	-107.5880818
5,859.00	61.02	280.93	5,645.93	473.40	318.12	1,905,909.15	105,328.03	36.2307003	-107.5881716
5,891.00	65.33	282.22	5,660.37	479.14	290.15	1,905,915.27	105,300.15	36.2307160	-107.5882664
5,922.00	68.37	282.76	5,672.56	485.30	262.33	1,905,921.82	105,272.41	36.2307330	-107.5883607
5,953.00	70.70	282.30	5,683.40	491.60	233.98	1,905,928.51	105,244.15	36.2307503	-107.5884568
5,985.00	72.82	281.71	5,693.41	497.92	204.25	1,905,935.24	105,214.51	36.2307676	-107.5885576



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2307-17H #275H
Project:	Rio Arriba County, NM NAD27	TVD Reference:	GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
Site:	Chaco 2307-17H	MD Reference:	GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
Well:	Chaco 2307-17H #275H	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
6,016.00	76.06	281.34	5,701.73	503.89	175.00	1,905,941.61	105,185.34	36.2307840	-107.5886568
6,048.00	78.48	281.39	5,708.78	510.04	144.40	1,905,948.18	105,154.83	36.2308009	-107.5887605
6,079.00	80.64	281.78	5,714.39	516.16	114.53	1,905,954.71	105,125.05	36.2308177	-107.5888618
6,111.00	81.40	281.99	5,719.39	522.67	83.60	1,905,961.65	105,094.21	36.2308356	-107.5889666
6,142.00	84.68	282.22	5,723.15	529.12	53.52	1,905,968.52	105,064.22	36.2308533	-107.5890686
6,171.00	86.33	281.82	5,725.42	535.14	25.24	1,905,974.93	105,036.03	36.2308699	-107.5891645
Last SDI Curve MWD Survey									
6,204.00	88.39	281.06	5,726.94	541.68	-7.06	1,905,981.91	105,003.82	36.2308878	-107.5892740
First SDI Lateral MWD Survey									
6,216.00	88.59	281.15	5,727.25	543.99	-18.84	1,905,984.38	104,992.08	36.2308942	-107.5893139
7" Casing @ 6216' MD									
6,265.00	89.39	281.51	5,728.12	553.61	-66.87	1,905,994.67	104,944.18	36.2309206	-107.5894767
6,327.00	90.03	281.67	5,728.43	566.07	-127.61	1,906,007.96	104,883.62	36.2309548	-107.5896826
6,388.00	90.64	281.13	5,728.08	578.13	-187.40	1,906,020.85	104,824.00	36.2309879	-107.5898854
6,450.00	91.11	281.43	5,727.13	590.25	-248.20	1,906,033.81	104,763.38	36.2310212	-107.5900915
6,511.00	91.71	281.82	5,725.63	602.54	-307.93	1,906,046.92	104,703.83	36.2310550	-107.5902939
6,572.00	91.24	281.05	5,724.06	614.63	-367.70	1,906,059.84	104,644.23	36.2310882	-107.5904966
6,634.00	90.67	280.36	5,723.03	626.15	-428.61	1,906,072.19	104,583.48	36.2311198	-107.5907031
6,695.00	90.74	280.21	5,722.27	637.04	-488.62	1,906,083.91	104,523.62	36.2311497	-107.5909065
6,756.00	91.34	280.24	5,721.17	647.86	-548.65	1,906,095.57	104,463.76	36.2311795	-107.5911100
6,818.00	91.08	279.95	5,719.86	658.73	-609.67	1,906,107.27	104,402.89	36.2312093	-107.5913169
6,879.00	89.50	280.28	5,719.55	669.44	-669.72	1,906,118.81	104,342.99	36.2312387	-107.5915205
6,940.00	89.29	279.95	5,720.19	680.15	-729.77	1,906,130.36	104,283.10	36.2312681	-107.5917240
7,001.00	89.39	280.11	5,720.90	690.78	-789.83	1,906,141.81	104,223.19	36.2312973	-107.5919277
7,063.00	89.49	279.72	5,721.50	701.45	-850.90	1,906,153.33	104,162.27	36.2313266	-107.5921347
7,124.00	91.01	280.74	5,721.24	712.28	-910.93	1,906,164.99	104,102.40	36.2313564	-107.5923382
7,185.00	90.91	280.46	5,720.21	723.50	-970.88	1,906,177.03	104,042.61	36.2313872	-107.5925414
7,247.00	90.50	279.49	5,719.45	734.24	-1,031.94	1,906,188.61	103,981.71	36.2314167	-107.5927484
7,308.00	90.77	280.15	5,718.78	744.64	-1,092.04	1,906,199.85	103,921.75	36.2314452	-107.5929522
7,369.00	90.24	280.38	5,718.24	755.51	-1,152.06	1,906,211.55	103,861.89	36.2314751	-107.5931557
7,430.00	90.34	281.15	5,717.93	766.91	-1,211.99	1,906,223.77	103,802.13	36.2315064	-107.5933588
7,493.00	89.50	280.40	5,718.02	778.69	-1,273.88	1,906,236.40	103,740.41	36.2315387	-107.5935686
7,556.00	89.80	281.31	5,718.40	790.55	-1,335.75	1,906,249.12	103,678.71	36.2315713	-107.5937784
7,619.00	89.66	282.49	5,718.70	803.54	-1,397.39	1,906,262.96	103,617.25	36.2316070	-107.5939874
7,682.00	89.46	281.85	5,719.18	816.82	-1,458.97	1,906,277.09	103,555.85	36.2316434	-107.5941961
7,744.00	89.83	282.36	5,719.57	829.82	-1,519.59	1,906,290.92	103,495.42	36.2316791	-107.5944016
7,807.00	90.64	282.61	5,719.31	843.44	-1,581.10	1,906,305.39	103,434.10	36.2317165	-107.5946102
7,870.00	90.57	282.26	5,718.64	857.01	-1,642.62	1,906,319.81	103,372.78	36.2317538	-107.5948187
7,933.00	90.10	281.90	5,718.27	870.19	-1,704.22	1,906,333.84	103,311.36	36.2317900	-107.5950276
7,996.00	90.34	281.86	5,718.03	883.16	-1,765.87	1,906,347.66	103,249.90	36.2318256	-107.5952366
8,059.00	89.66	281.92	5,718.03	896.14	-1,827.52	1,906,361.49	103,188.44	36.2318613	-107.5954456
8,121.00	90.10	282.04	5,718.16	909.01	-1,888.17	1,906,375.20	103,127.97	36.2318966	-107.5956512
8,184.00	90.54	282.03	5,717.81	922.15	-1,949.79	1,906,389.18	103,066.54	36.2319327	-107.5958601
8,247.00	90.47	281.32	5,717.26	934.89	-2,011.48	1,906,402.78	103,005.03	36.2319677	-107.5960692
8,310.00	90.07	281.08	5,716.96	947.13	-2,073.28	1,906,415.87	102,943.41	36.2320013	-107.5962787
8,373.00	90.34	280.99	5,716.73	959.19	-2,135.11	1,906,428.78	102,881.75	36.2320344	-107.5964883
8,435.00	90.24	280.32	5,716.42	970.65	-2,196.04	1,906,441.09	102,820.98	36.2320658	-107.5966949
8,498.00	90.47	280.40	5,716.03	981.98	-2,258.02	1,906,453.27	102,759.17	36.2320969	-107.5969050
8,561.00	90.37	280.50	5,715.57	993.41	-2,319.97	1,906,465.55	102,697.38	36.2321283	-107.5971150
8,624.00	90.50	280.45	5,715.09	1,004.86	-2,381.92	1,906,477.86	102,635.60	36.2321598	-107.5973251
8,687.00	90.81	280.11	5,714.37	1,016.10	-2,443.90	1,906,489.96	102,573.78	36.2321906	-107.5975352
8,750.00	90.34	279.96	5,713.74	1,027.08	-2,505.93	1,906,501.79	102,511.90	36.2322208	-107.5977455
8,813.00	90.10	279.90	5,713.49	1,037.94	-2,567.99	1,906,513.51	102,450.00	36.2322506	-107.5979559
8,876.00	89.87	279.05	5,713.51	1,048.32	-2,630.13	1,906,524.74	102,388.01	36.2322791	-107.5981665
8,938.00	90.47	280.45	5,713.33	1,058.81	-2,691.23	1,906,536.08	102,327.06	36.2323079	-107.5983737



Survey Report - Geographic



Company: WPX Energy Rocky Mountain, LLC
Project: Rio Arriba County, NM NAD27
Site: Chaco 2307-17H
Well: Chaco 2307-17H #275H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Chaco 2307-17H #275H
TVD Reference: GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
MD Reference: GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
9,001.00	90.67	281.03	5,712.70	1,070.55	-2,753.13	1,906,548.68	102,265.33	36.2323401	-107.5985835
9,064.00	90.94	281.67	5,711.82	1,082.95	-2,814.89	1,906,561.93	102,203.75	36.2323741	-107.5987929
9,127.00	90.87	281.33	5,710.82	1,095.51	-2,876.61	1,906,575.34	102,142.20	36.2324086	-107.5990022
9,190.00	90.00	280.70	5,710.34	1,107.55	-2,938.45	1,906,588.23	102,080.54	36.2324417	-107.5992118
9,253.00	90.17	280.16	5,710.25	1,118.95	-3,000.41	1,906,600.49	102,018.74	36.2324730	-107.5994219
9,316.00	90.37	280.64	5,709.95	1,130.32	-3,062.37	1,906,612.71	101,956.94	36.2325042	-107.5996319
9,378.00	90.13	280.64	5,709.68	1,141.77	-3,123.31	1,906,625.00	101,896.17	36.2325356	-107.5998385
9,441.00	89.93	279.79	5,709.65	1,152.94	-3,185.31	1,906,637.03	101,834.33	36.2325663	-107.6000487
9,504.00	90.20	280.39	5,709.58	1,163.98	-3,247.33	1,906,648.92	101,772.46	36.2325966	-107.6002590
9,567.00	89.90	280.49	5,709.52	1,175.40	-3,309.29	1,906,661.19	101,710.67	36.2326279	-107.6004690
9,630.00	90.00	281.79	5,709.58	1,187.57	-3,371.10	1,906,674.22	101,649.03	36.2326613	-107.6006786
9,693.00	89.49	281.18	5,709.86	1,200.11	-3,432.84	1,906,687.61	101,587.48	36.2326958	-107.6008879
9,756.00	90.03	281.44	5,710.12	1,212.47	-3,494.61	1,906,700.82	101,525.88	36.2327297	-107.6010973
9,818.00	89.80	281.38	5,710.21	1,224.73	-3,555.39	1,906,713.92	101,465.28	36.2327634	-107.6013034
9,881.00	89.93	281.31	5,710.36	1,237.13	-3,617.16	1,906,727.17	101,403.69	36.2327974	-107.6015128
9,944.00	89.73	280.65	5,710.55	1,249.13	-3,679.00	1,906,740.02	101,342.01	36.2328303	-107.6017225
10,007.00	89.53	280.00	5,710.95	1,260.42	-3,740.98	1,906,752.17	101,280.20	36.2328613	-107.6019326
10,070.00	89.66	279.93	5,711.40	1,271.32	-3,803.03	1,906,763.93	101,218.30	36.2328912	-107.6021429
10,133.00	89.90	280.19	5,711.64	1,282.32	-3,865.06	1,906,775.79	101,156.43	36.2329214	-107.6023532
10,196.00	90.44	281.41	5,711.46	1,294.13	-3,926.94	1,906,788.45	101,094.72	36.2329538	-107.6025630
10,259.00	90.07	280.74	5,711.17	1,306.23	-3,988.77	1,906,801.40	101,033.07	36.2329870	-107.6027726
10,322.00	89.87	281.16	5,711.21	1,318.20	-4,050.62	1,906,814.22	100,971.38	36.2330199	-107.6029823
10,384.00	89.53	281.00	5,711.53	1,330.11	-4,111.47	1,906,826.98	100,910.71	36.2330526	-107.6031886
10,447.00	89.90	281.57	5,711.85	1,342.44	-4,173.25	1,906,840.16	100,849.11	36.2330864	-107.6033981
10,510.00	89.93	281.80	5,711.94	1,355.20	-4,234.94	1,906,853.77	100,787.60	36.2331214	-107.6036072
10,573.00	90.20	282.36	5,711.87	1,368.38	-4,296.55	1,906,867.80	100,726.18	36.2331576	-107.6038161
10,636.00	90.00	282.09	5,711.76	1,381.72	-4,358.12	1,906,881.99	100,664.80	36.2331943	-107.6040248
10,699.00	89.90	281.48	5,711.81	1,394.59	-4,419.79	1,906,895.71	100,603.31	36.2332296	-107.6042339
10,762.00	89.70	281.16	5,712.03	1,406.96	-4,481.56	1,906,908.93	100,541.71	36.2332635	-107.6044433
10,798.00	90.24	281.15	5,712.05	1,413.92	-4,516.88	1,906,916.38	100,506.49	36.2332826	-107.6045631
RSI @ 10,798' MD									
10,825.00	90.64	281.15	5,711.85	1,419.15	-4,543.37	1,906,921.97	100,480.08	36.2332970	-107.6046529
10,839.00	90.40	280.92	5,711.72	1,421.82	-4,557.11	1,906,924.84	100,466.38	36.2333043	-107.6046995
Last SDI Lateral MWD Survey									
10,903.00	90.40	280.92	5,711.27	1,433.95	-4,619.95	1,906,937.83	100,403.71	36.2333376	-107.6049125
Projection to TD									

Company: WPX Energy Rocky Mountain, LLC
Project: Rio Arriba County, NM NAD27
Site: Chaco 2307-17H
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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Chaco 2307-17H #275H
TVD Reference: GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
MD Reference: GL 7257' & RKB 14' @ 7271.00ft (Aztec 730)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
64.00	64.00	-0.15	0.07	First Native Navigation Gyro Survey
335.00	334.99	-1.47	-0.83	Last Native Navigation Gyro Survey
465.00	464.99	-1.69	-1.87	First SDI Surface MWD Survey
4,945.00	4,867.79	387.22	682.27	Last SDI Surface MWD Survey
5,008.00	4,930.77	387.94	683.42	First SDI Curve MWD Survey
6,171.00	5,725.42	535.14	25.24	Last SDI Curve MWD Survey
6,204.00	5,726.94	541.68	-7.06	First SDI Lateral MWD Survey
6,216.00	5,727.25	543.99	-18.84	7" Casing @ 6216' MD
10,798.00	5,712.05	1,413.92	-4,516.88	RSI @ 10,798' MD
10,839.00	5,711.72	1,421.82	-4,557.11	Last SDI Lateral MWD Survey
10,903.00	5,711.27	1,433.95	-4,619.95	Projection to TD

Checked By: _____ Approved By: _____ Date: _____