

District I
1525 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 30-045-35554	² Pool Code 47540	³ Pool Name NAGEEZI GALLUP
⁴ Property Code 313663	⁵ Property Name CHACO 2308-06H	⁶ Well Number 396H
⁷ GRID No. 120782	⁸ Operator Name WPX ENERGY PRODUCTION, LLC	⁹ Elevation 6927

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	6	23N	8W		1737	NORTH	276	EAST	SAN JUAN

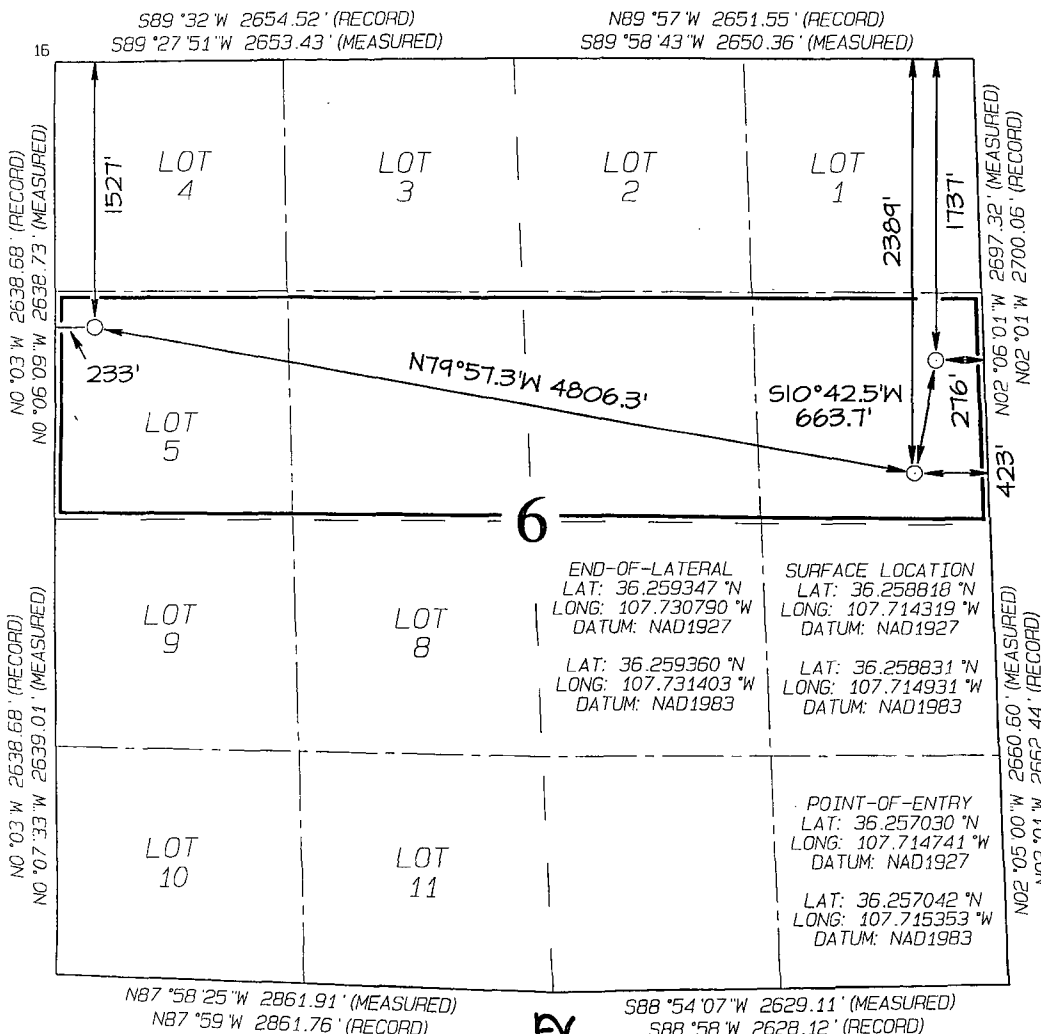
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	6	23N	8W	5	1527	NORTH	233	WEST	SAN JUAN

¹² Dedicated Acres 160.87 Acres - S/2 N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD OCT 20 '14 OIL CONS. DIV.
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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
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 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 10/20/14
LARRY HIGGINS

Printed Name
LARRY.HIGGINS@WPXENERGY.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: OCTOBER 20, 2014
Date of Survey: AUGUST 25, 2014

Signature and Seal of Professional Surveyor



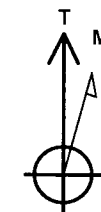
JASON C. EDWARDS

Certificate Number 15269



Company Name: WPX Energy Rocky Mountain, LLC
Project: San Juan County, NM NAD27
Site: Chaco 2308-06H
Well: Chaco 2308-06H #396H

WPXENERGY

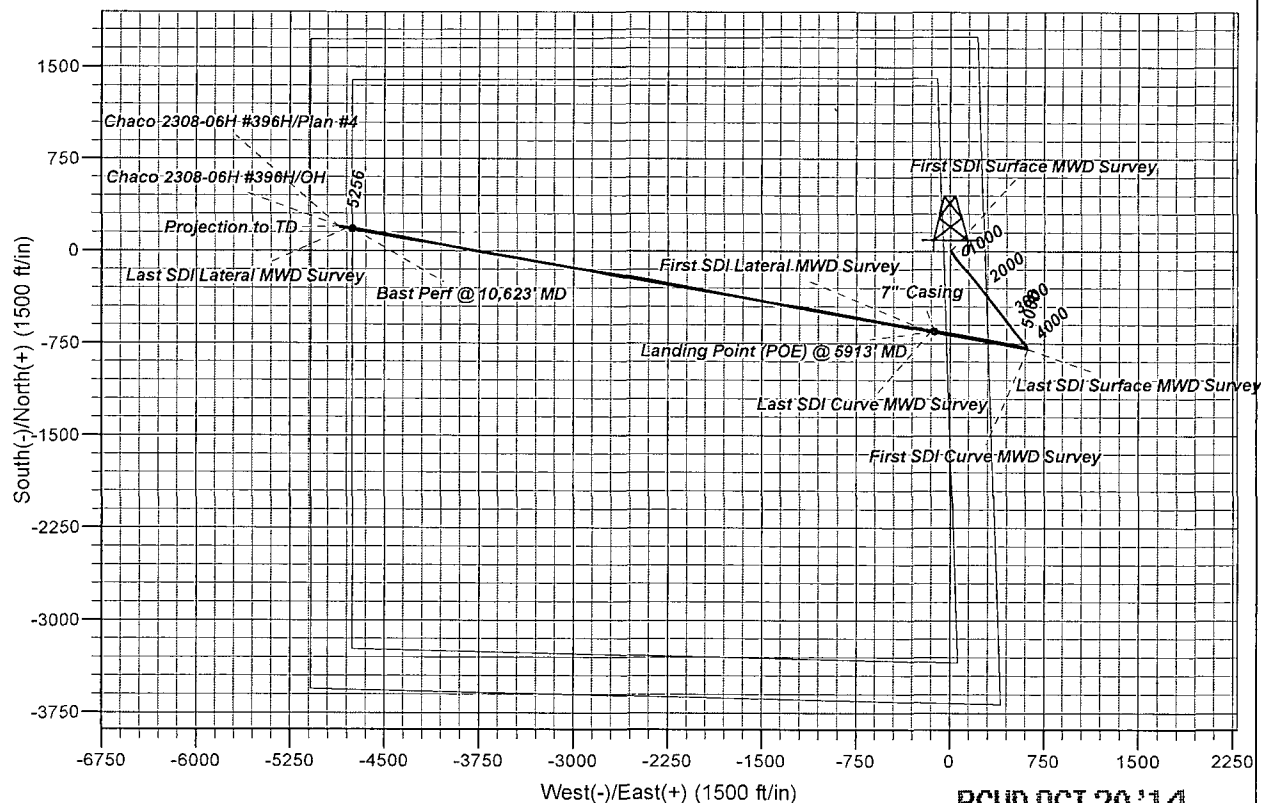
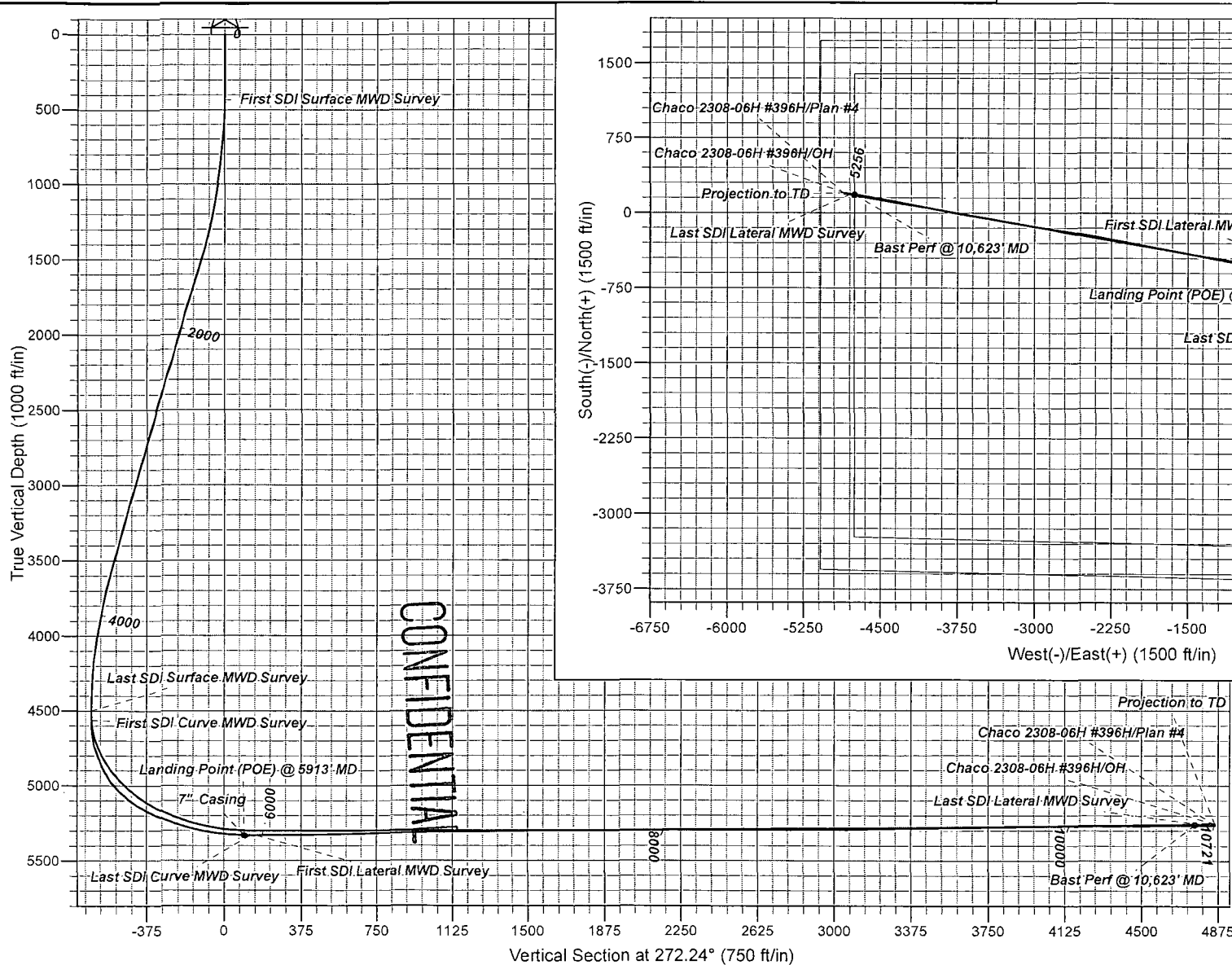


Azimuths to True North
Magnetic North: 9.50°

Magnetic Field
Strength: 50057.7snT
Dip Angle: 63.00°
Date: 9/7/2014
Model: BGGM2014

WELL DETAILS: Chaco 2308-06H #396H

+N/-S	+E/-W	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)	6927.00
0.00	0.00	Northing	Latitude
		1913473.34	535088.40
		Easting	Longitude
		36.2588180	-107.7143190



RCVD OCT 20 '14
OIL CONS. DIV.
DIST. 3

Design: OH (Chaco 2308-06H #396H/OH)
Created By: Janie Collins Date: 13:26, October 15 2014
PROJECT DETAILS: San Juan County, NM NAD27
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level
Local North: True

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-06H #396H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Site:	Chaco 2308-06H	MD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Well:	Chaco 2308-06H #396H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project	San Juan 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 West 3003		

Site	Chaco 2308-06H				
Site Position:		Northing:	1,913,523.55 usft	Latitude:	36.2589560
From:	Lat/Long	Easting:	535,071.53 usft	Longitude:	-107.7143760
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.07 °

Well	Chaco 2308-06H #396H					
Well Position	+N/-S	0.00 ft	Northing:	1,913,473.34 usft	Latitude:	36.2588180
	+E/-W	0.00 ft	Easting:	535,088.40 usft	Longitude:	-107.7143190
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,927.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	9/7/2014	9.50	63.00	50,058

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	272.24	

Survey Program	Date 10/15/2014				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
434.00	4,643.00	Survey #1 - Surface MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
4,707.00	5,941.00	Survey #2 - Curve MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,972.00	10,721.00	Survey #3 - 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	1,913,473.34	535,088.40	36.2588180	-107.7143190
434.00	0.38	91.66	434.00	-0.04	1.44	1,913,473.30	535,089.84	36.2588179	-107.7143142
First SDI Surface MWD Survey									
466.00	0.31	77.92	466.00	-0.03	1.63	1,913,473.31	535,090.03	36.2588179	-107.7143135
529.00	2.26	168.31	528.98	-1.21	2.05	1,913,472.13	535,090.45	36.2588147	-107.7143121
592.00	3.19	148.94	591.91	-3.93	3.20	1,913,469.42	535,091.61	36.2588072	-107.7143082
656.00	5.25	140.73	655.73	-7.72	5.98	1,913,465.63	535,094.39	36.2587968	-107.7142988
717.00	5.91	140.41	716.44	-12.30	9.74	1,913,461.05	535,098.16	36.2587842	-107.7142860
777.00	6.96	144.52	776.06	-17.64	13.82	1,913,455.72	535,102.24	36.2587695	-107.7142722
837.00	7.63	148.28	835.58	-23.99	18.03	1,913,449.37	535,106.46	36.2587521	-107.7142579



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-06H #396H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Site:	Chaco 2308-06H	MD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Well:	Chaco 2308-06H #396H	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
898.00	8.38	146.89	895.98	-31.16	22.58	1,913,442.21	535,111.02	36.2587324	-107.7142424
958.00	8.53	143.24	955.33	-38.38	27.64	1,913,434.99	535,116.08	36.2587125	-107.7142253
1,019.00	9.74	145.65	1,015.56	-46.27	33.26	1,913,427.11	535,121.71	36.2586909	-107.7142062
1,080.00	11.06	146.23	1,075.55	-55.39	39.42	1,913,417.99	535,127.89	36.2586658	-107.7141853
1,140.00	12.80	147.18	1,134.26	-65.76	46.22	1,913,407.63	535,134.70	36.2586373	-107.7141623
1,201.00	13.56	143.78	1,193.65	-77.21	54.11	1,913,396.19	535,142.60	36.2586059	-107.7141355
1,262.00	14.29	141.79	1,252.86	-88.90	62.99	1,913,384.52	535,151.50	36.2585738	-107.7141054
1,323.00	15.13	142.51	1,311.86	-101.13	72.49	1,913,372.30	535,161.02	36.2585402	-107.7140732
1,384.00	15.64	141.13	1,370.67	-113.85	82.50	1,913,359.59	535,171.04	36.2585052	-107.7140392
1,445.00	16.39	140.78	1,429.30	-126.92	93.10	1,913,346.54	535,181.66	36.2584693	-107.7140033
1,505.00	17.42	137.42	1,486.71	-140.09	104.53	1,913,333.38	535,193.10	36.2584331	-107.7139645
1,566.00	17.36	137.07	1,544.92	-153.48	116.91	1,913,320.01	535,205.50	36.2583964	-107.7139225
1,628.00	17.79	137.90	1,604.03	-167.28	129.56	1,913,306.22	535,218.16	36.2583584	-107.7138796
1,689.00	18.12	136.63	1,662.06	-181.09	142.32	1,913,292.43	535,230.94	36.2583205	-107.7138363
1,749.00	18.40	139.70	1,719.04	-195.09	154.85	1,913,278.44	535,243.49	36.2582820	-107.7137938
1,810.00	18.40	139.03	1,776.92	-209.70	167.39	1,913,263.84	535,256.05	36.2582419	-107.7137513
1,871.00	17.89	140.36	1,834.89	-224.19	179.68	1,913,249.37	535,268.35	36.2582021	-107.7137096
1,932.00	17.81	141.92	1,892.95	-238.74	191.41	1,913,234.83	535,280.10	36.2581621	-107.7136698
1,993.00	17.25	143.09	1,951.12	-253.32	202.60	1,913,220.27	535,291.31	36.2581221	-107.7136319
2,054.00	16.52	144.16	2,009.49	-267.58	213.11	1,913,206.02	535,301.83	36.2580829	-107.7135962
2,114.00	17.79	143.76	2,066.82	-281.89	223.52	1,913,191.72	535,312.27	36.2580436	-107.7135609
2,175.00	18.65	142.78	2,124.76	-297.17	234.93	1,913,176.45	535,323.69	36.2580016	-107.7135222
2,236.00	18.95	142.34	2,182.50	-312.78	246.88	1,913,160.86	535,335.66	36.2579587	-107.7134817
2,300.00	18.78	140.70	2,243.07	-328.98	259.75	1,913,144.68	535,348.56	36.2579142	-107.7134380
2,364.00	19.42	140.49	2,303.54	-345.16	273.05	1,913,128.51	535,361.87	36.2578698	-107.7133929
2,427.00	19.16	142.66	2,363.01	-361.46	285.98	1,913,112.23	535,374.83	36.2578250	-107.7133490
2,490.00	19.26	142.96	2,422.50	-377.98	298.51	1,913,095.73	535,387.38	36.2577796	-107.7133066
2,553.00	18.85	144.53	2,482.05	-394.56	310.68	1,913,079.16	535,399.56	36.2577341	-107.7132653
2,617.00	17.35	142.13	2,542.88	-410.51	322.54	1,913,063.22	535,411.44	36.2576902	-107.7132251
2,680.00	17.66	141.65	2,602.96	-425.42	334.23	1,913,048.33	535,423.15	36.2576493	-107.7131854
2,743.00	18.18	141.02	2,662.91	-440.56	346.34	1,913,033.21	535,435.28	36.2576077	-107.7131443
2,807.00	17.25	140.86	2,723.87	-455.68	358.61	1,913,018.10	535,447.57	36.2575662	-107.7131027
2,870.00	16.95	142.07	2,784.09	-470.17	370.15	1,913,003.63	535,459.13	36.2575264	-107.7130636
2,933.00	17.32	141.34	2,844.29	-484.73	381.66	1,912,989.08	535,470.65	36.2574863	-107.7130245
2,997.00	18.12	142.59	2,905.25	-500.08	393.66	1,912,973.75	535,482.67	36.2574442	-107.7129838
3,060.00	18.26	141.79	2,965.10	-515.61	405.71	1,912,958.22	535,494.74	36.2574015	-107.7129430
3,123.00	18.49	143.15	3,024.89	-531.36	417.81	1,912,942.49	535,506.86	36.2573582	-107.7129019
3,186.00	19.04	143.20	3,084.54	-547.59	429.96	1,912,926.28	535,519.03	36.2573137	-107.7128607
3,250.00	18.47	143.11	3,145.14	-564.05	442.29	1,912,909.83	535,531.39	36.2572684	-107.7128189
3,313.00	17.81	143.33	3,205.01	-579.76	454.04	1,912,894.13	535,543.15	36.2572253	-107.7127790
3,377.00	17.91	144.08	3,265.93	-595.58	465.66	1,912,878.33	535,554.79	36.2571818	-107.7127396
3,440.00	17.38	145.07	3,325.96	-611.14	476.73	1,912,862.78	535,565.88	36.2571391	-107.7127021
3,504.00	17.57	142.75	3,387.01	-626.67	488.05	1,912,847.27	535,577.22	36.2570964	-107.7126637
3,567.00	17.28	142.77	3,447.12	-641.69	499.47	1,912,832.27	535,588.65	36.2570552	-107.7126250
3,631.00	16.69	140.28	3,508.33	-656.32	511.09	1,912,817.64	535,600.29	36.2570150	-107.7125856
3,694.00	17.27	139.13	3,568.58	-670.36	522.99	1,912,803.63	535,612.21	36.2569764	-107.7125452
3,758.00	16.50	140.87	3,629.82	-684.59	534.94	1,912,789.41	535,624.18	36.2569373	-107.7125047
3,821.00	15.00	143.32	3,690.46	-698.07	545.46	1,912,775.94	535,634.71	36.2569003	-107.7124690
3,884.00	13.61	143.17	3,751.50	-710.54	554.77	1,912,763.48	535,644.04	36.2568660	-107.7124374
3,947.00	12.90	141.58	3,812.82	-721.98	563.59	1,912,752.05	535,652.87	36.2568346	-107.7124075
4,010.00	11.68	137.09	3,874.38	-732.16	572.30	1,912,741.88	535,661.60	36.2568066	-107.7123780
4,073.00	11.34	137.57	3,936.11	-741.41	580.82	1,912,732.65	535,670.13	36.2567812	-107.7123491
4,137.00	10.05	137.59	3,999.00	-750.17	588.83	1,912,723.89	535,678.15	36.2567571	-107.7123219
4,200.00	9.21	142.79	4,061.11	-758.25	595.59	1,912,715.82	535,684.92	36.2567349	-107.7122990
4,263.00	9.14	146.11	4,123.31	-766.42	601.43	1,912,707.66	535,690.77	36.2567125	-107.7122792



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-06H #396H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Site:	Chaco 2308-06H	MD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Well:	Chaco 2308-06H #396H	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
4,327.00	7.90	148.51	4,186.60	-774.39	606.56	1,912,699.70	535,695.91	36.2566906	-107.7122618
4,390.00	5.98	147.06	4,249.14	-780.83	610.60	1,912,693.26	535,699.96	36.2566729	-107.7122480
4,453.00	4.87	151.75	4,311.85	-785.94	613.65	1,912,688.15	535,703.02	36.2566589	-107.7122377
4,517.00	2.99	166.74	4,375.70	-789.96	615.32	1,912,684.13	535,704.69	36.2566478	-107.7122320
4,580.00	1.76	163.23	4,438.65	-792.49	615.98	1,912,681.61	535,705.35	36.2566409	-107.7122298
4,643.00	1.21	93.14	4,501.63	-793.45	616.92	1,912,680.65	535,706.30	36.2566382	-107.7122266
Last SDI Surface MWD Survey									
4,707.00	0.64	292.98	4,565.63	-793.35	617.27	1,912,680.75	535,706.64	36.2566385	-107.7122254
First SDI Curve MWD Survey									
4,739.00	0.92	306.87	4,597.62	-793.13	616.90	1,912,680.97	535,706.27	36.2566391	-107.7122267
4,770.00	3.27	294.15	4,628.60	-792.61	615.89	1,912,681.48	535,705.26	36.2566405	-107.7122301
4,802.00	5.89	291.22	4,660.49	-791.65	613.53	1,912,682.45	535,702.90	36.2566432	-107.7122381
4,833.00	8.09	288.78	4,691.26	-790.37	609.98	1,912,683.72	535,699.35	36.2566467	-107.7122501
4,864.00	11.15	291.81	4,721.82	-788.55	605.13	1,912,685.53	535,694.50	36.2566517	-107.7122666
4,896.00	13.82	290.38	4,753.06	-786.07	598.67	1,912,688.01	535,688.04	36.2566585	-107.7122885
4,928.00	14.81	284.37	4,784.07	-783.72	591.13	1,912,690.34	535,680.49	36.2566650	-107.7123141
4,960.00	16.32	282.40	4,814.90	-781.74	582.78	1,912,692.31	535,672.13	36.2566704	-107.7123424
4,991.00	17.46	283.50	4,844.56	-779.72	574.00	1,912,694.32	535,663.36	36.2566760	-107.7123722
5,023.00	18.86	285.34	4,874.97	-777.23	564.34	1,912,696.80	535,653.70	36.2566828	-107.7124049
5,055.00	21.56	284.21	4,904.99	-774.42	553.65	1,912,699.60	535,643.00	36.2566905	-107.7124412
5,086.00	24.15	282.43	4,933.56	-771.66	541.94	1,912,702.35	535,631.28	36.2566981	-107.7124809
5,118.00	26.63	279.78	4,962.46	-769.03	528.47	1,912,704.96	535,617.82	36.2567053	-107.7125266
5,150.00	30.53	280.18	4,990.56	-766.37	513.40	1,912,707.60	535,602.74	36.2567126	-107.7125777
5,182.00	34.36	281.71	5,017.56	-763.10	496.55	1,912,710.85	535,585.89	36.2567216	-107.7126349
5,213.00	37.71	281.93	5,042.63	-759.37	478.71	1,912,714.56	535,568.04	36.2567319	-107.7126954
5,245.00	40.63	282.50	5,067.43	-755.09	458.95	1,912,718.82	535,548.28	36.2567436	-107.7127624
5,277.00	42.54	282.19	5,091.37	-750.55	438.21	1,912,723.33	535,527.53	36.2567561	-107.7128328
5,309.00	45.97	281.55	5,114.28	-745.96	416.36	1,912,727.89	535,505.67	36.2567687	-107.7129069
5,340.00	49.21	281.58	5,135.19	-741.37	393.93	1,912,732.45	535,483.24	36.2567813	-107.7129829
5,372.00	51.43	280.85	5,155.62	-736.58	369.78	1,912,737.21	535,459.08	36.2567945	-107.7130648
5,404.00	53.33	278.81	5,175.15	-732.26	344.81	1,912,741.50	535,434.10	36.2568063	-107.7131495
5,436.00	55.98	278.99	5,193.66	-728.23	319.02	1,912,745.51	535,408.31	36.2568174	-107.7132370
5,467.00	59.35	279.70	5,210.24	-723.97	293.18	1,912,749.73	535,382.47	36.2568291	-107.7133246
5,499.00	62.03	279.10	5,225.90	-719.41	265.65	1,912,754.25	535,354.94	36.2568416	-107.7134180
5,531.00	62.78	279.41	5,240.73	-714.85	237.66	1,912,758.78	535,326.94	36.2568542	-107.7135129
5,562.00	65.15	279.76	5,254.33	-710.21	210.20	1,912,763.38	535,299.47	36.2568669	-107.7136061
5,594.00	68.26	280.79	5,266.99	-704.97	181.29	1,912,768.59	535,270.55	36.2568813	-107.7137042
5,626.00	70.63	280.74	5,278.22	-699.37	151.85	1,912,774.15	535,241.11	36.2568967	-107.7138040
5,657.00	71.16	280.24	5,288.37	-694.04	123.05	1,912,779.45	535,212.30	36.2569114	-107.7139017
5,689.00	73.38	280.07	5,298.11	-688.67	93.05	1,912,784.79	535,182.29	36.2569261	-107.7140034
5,720.00	75.55	279.27	5,306.41	-683.65	63.61	1,912,789.77	535,152.85	36.2569399	-107.7141033
5,752.00	77.84	279.59	5,313.78	-678.55	32.89	1,912,794.83	535,122.12	36.2569539	-107.7142075
5,784.00	79.65	281.18	5,320.02	-672.89	2.02	1,912,800.45	535,091.25	36.2569695	-107.7143122
5,816.00	81.75	279.78	5,325.19	-667.15	-29.03	1,912,806.16	535,060.19	36.2569852	-107.7144175
5,848.00	85.67	280.47	5,328.70	-661.56	-60.33	1,912,811.71	535,028.88	36.2570006	-107.7145237
5,860.00	86.88	279.51	5,329.48	-659.48	-72.13	1,912,813.77	535,017.08	36.2570063	-107.7145637
5,913.00	88.57	279.09	5,331.58	-650.92	-124.39	1,912,822.26	534,964.81	36.2570298	-107.7147409
7" Casing - Landing Point (POE) @ 5913' MD									
5,941.00	89.46	278.87	5,332.07	-646.55	-152.04	1,912,826.60	534,937.15	36.2570418	-107.7148347
Last SDI Curve MWD Survey									
5,972.00	88.89	278.03	5,332.51	-642.00	-182.70	1,912,831.12	534,906.49	36.2570543	-107.7149387
First SDI Lateral MWD Survey									
6,002.00	90.00	279.71	5,332.80	-637.37	-212.34	1,912,835.71	534,876.85	36.2570670	-107.7150392
6,032.00	89.97	279.05	5,332.81	-632.48	-241.94	1,912,840.56	534,847.24	36.2570805	-107.7151396



Survey Report - Geographic



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-06H #396H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Site:	Chaco 2308-06H	MD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Well:	Chaco 2308-06H #396H	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
6,063.00	90.54	280.37	5,332.67	-627.25	-272.49	1,912,845.75	534,816.68	36.2570948	-107.7152433
6,093.00	90.30	279.13	5,332.45	-622.17	-302.06	1,912,850.79	534,787.11	36.2571088	-107.7153435
6,154.00	90.54	279.46	5,332.01	-612.32	-362.25	1,912,860.57	534,726.90	36.2571358	-107.7155477
6,215.00	91.54	280.18	5,330.90	-601.92	-422.35	1,912,870.90	534,666.79	36.2571644	-107.7157515
6,275.00	90.74	278.91	5,329.70	-591.97	-481.51	1,912,880.78	534,607.62	36.2571917	-107.7159522
6,335.00	91.38	280.77	5,328.59	-581.72	-540.61	1,912,890.95	534,548.51	36.2572199	-107.7161527
6,396.00	92.15	281.70	5,326.72	-569.84	-600.41	1,912,902.76	534,488.69	36.2572525	-107.7163555
6,457.00	91.48	280.17	5,324.78	-558.28	-660.27	1,912,914.25	534,428.82	36.2572843	-107.7165585
6,518.00	91.81	280.47	5,323.03	-547.35	-720.26	1,912,925.10	534,368.81	36.2573143	-107.7167620
6,579.00	91.81	280.27	5,321.11	-536.38	-780.23	1,912,936.00	534,308.83	36.2573444	-107.7169654
6,640.00	91.80	279.95	5,319.18	-525.68	-840.26	1,912,946.63	534,248.79	36.2573738	-107.7171690
6,701.00	91.91	281.12	5,317.21	-514.53	-900.20	1,912,957.70	534,188.84	36.2574045	-107.7173723
6,762.00	91.71	281.46	5,315.28	-502.59	-959.99	1,912,969.57	534,129.03	36.2574372	-107.7175751
6,822.00	91.41	281.21	5,313.65	-490.81	-1,018.79	1,912,981.28	534,070.21	36.2574696	-107.7177746
6,884.00	90.87	280.76	5,312.42	-478.99	-1,079.64	1,912,993.02	534,009.35	36.2575021	-107.7179810
6,947.00	90.30	279.29	5,311.77	-468.03	-1,141.68	1,913,003.91	533,947.30	36.2575322	-107.7181914
7,011.00	91.04	278.17	5,311.02	-458.31	-1,204.93	1,913,013.54	533,884.04	36.2575589	-107.7184059
7,075.00	90.91	278.04	5,309.94	-449.29	-1,268.28	1,913,022.49	533,820.67	36.2575836	-107.7186208
7,138.00	91.95	279.61	5,308.36	-439.63	-1,330.51	1,913,032.07	533,758.43	36.2576102	-107.7188319
7,201.00	91.41	279.08	5,306.52	-429.41	-1,392.65	1,913,042.22	533,696.28	36.2576382	-107.7190426
7,264.00	91.54	280.73	5,304.89	-418.57	-1,454.69	1,913,052.98	533,634.23	36.2576680	-107.7192530
7,328.00	90.77	279.96	5,303.60	-407.08	-1,517.63	1,913,064.39	533,571.27	36.2576996	-107.7194665
7,392.00	91.71	281.29	5,302.22	-395.29	-1,580.52	1,913,076.11	533,508.37	36.2577320	-107.7196798
7,455.00	90.84	280.50	5,300.82	-383.38	-1,642.37	1,913,087.94	533,446.51	36.2577646	-107.7198896
7,519.00	89.87	280.62	5,300.42	-371.65	-1,705.28	1,913,099.59	533,383.58	36.2577969	-107.7201030
7,582.00	89.60	280.90	5,300.71	-359.89	-1,767.17	1,913,111.28	533,321.67	36.2578292	-107.7203129
7,646.00	89.93	280.25	5,300.97	-348.15	-1,830.09	1,913,122.94	533,258.75	36.2578614	-107.7205263
7,709.00	90.54	281.06	5,300.72	-336.50	-1,892.00	1,913,134.52	533,196.82	36.2578934	-107.7207363
7,773.00	89.73	280.17	5,300.57	-324.71	-1,954.90	1,913,146.23	533,133.90	36.2579258	-107.7209497
7,836.00	89.13	280.09	5,301.19	-313.63	-2,016.92	1,913,157.23	533,071.87	36.2579562	-107.7211600
7,900.00	90.80	282.25	5,301.23	-301.23	-2,079.70	1,913,169.55	533,009.08	36.2579902	-107.7213730
7,963.00	90.10	280.48	5,300.74	-288.82	-2,141.46	1,913,181.89	532,947.30	36.2580243	-107.7215824
8,026.00	90.67	281.70	5,300.31	-276.70	-2,203.28	1,913,193.93	532,885.47	36.2580576	-107.7217921
8,090.00	89.97	280.54	5,299.96	-264.36	-2,266.08	1,913,206.20	532,822.66	36.2580915	-107.7220051
8,153.00	90.91	281.97	5,299.47	-252.06	-2,327.86	1,913,218.42	532,760.86	36.2581253	-107.7222147
8,216.00	89.34	279.51	5,299.33	-240.32	-2,389.75	1,913,230.08	532,698.95	36.2581575	-107.7224246
8,280.00	89.33	279.31	5,300.08	-229.86	-2,452.88	1,913,240.46	532,635.81	36.2581862	-107.7226387
8,344.00	89.97	279.11	5,300.47	-219.62	-2,516.06	1,913,250.63	532,572.62	36.2582144	-107.7228530
8,407.00	89.93	280.06	5,300.52	-209.13	-2,578.18	1,913,261.04	532,510.49	36.2582432	-107.7230637
8,470.00	90.87	279.70	5,300.08	-198.32	-2,640.24	1,913,271.78	532,448.41	36.2582728	-107.7232742
8,534.00	89.96	278.28	5,299.62	-188.32	-2,703.45	1,913,281.70	532,385.19	36.2583003	-107.7234886
8,597.00	90.37	278.50	5,299.44	-179.13	-2,765.78	1,913,290.82	532,322.85	36.2583255	-107.7237000
8,661.00	91.01	277.61	5,298.67	-170.16	-2,829.14	1,913,299.70	532,259.48	36.2583501	-107.7239149
8,722.00	91.72	278.46	5,297.21	-161.63	-2,889.52	1,913,308.15	532,199.08	36.2583735	-107.7241198
8,786.00	91.18	279.91	5,295.60	-151.42	-2,952.68	1,913,318.29	532,135.92	36.2584016	-107.7243340
8,849.00	90.20	279.49	5,294.84	-140.81	-3,014.77	1,913,328.83	532,073.81	36.2584307	-107.7245446
8,912.00	91.21	279.51	5,294.06	-130.41	-3,076.90	1,913,339.15	532,011.67	36.2584593	-107.7247553
8,975.00	92.45	280.36	5,292.05	-119.55	-3,138.92	1,913,349.93	531,949.63	36.2584891	-107.7249657
9,039.00	91.58	279.50	5,289.80	-108.52	-3,201.93	1,913,360.89	531,886.62	36.2585194	-107.7251794
9,103.00	90.91	280.28	5,288.41	-97.53	-3,264.96	1,913,371.80	531,823.57	36.2585495	-107.7253932
9,166.00	90.80	280.22	5,287.47	-86.32	-3,326.95	1,913,382.93	531,761.57	36.2585803	-107.7256035
9,229.00	90.47	280.11	5,286.77	-75.20	-3,388.95	1,913,393.97	531,699.55	36.2586108	-107.7258138
9,293.00	90.50	279.14	5,286.23	-64.50	-3,452.05	1,913,404.60	531,636.44	36.2586402	-107.7260278
9,356.00	91.31	279.02	5,285.23	-54.56	-3,514.25	1,913,414.46	531,574.22	36.2586675	-107.7262388
9,419.00	91.58	279.21	5,283.64	-44.58	-3,576.44	1,913,424.36	531,512.03	36.2586949	-107.7264497

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well Chaco 2308-06H #396H
Project:	San Juan County, NM NAD27	TVD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Site:	Chaco 2308-06H	MD Reference:	GL 6927' & RKB 13' @ 6940.00ft (Aztec 222)
Well:	Chaco 2308-06H #396H	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
9,483.00	90.97	280.86	5,282.22	-33.43	-3,639.44	1,913,435.43	531,449.01	36.2587255	-107.7266634
9,547.00	90.17	279.79	5,281.58	-21.96	-3,702.40	1,913,446.83	531,386.04	36.2587570	-107.7268769
9,610.00	91.04	281.46	5,280.92	-10.35	-3,764.31	1,913,458.36	531,324.11	36.2587889	-107.7270870
9,673.00	91.37	281.53	5,279.59	2.20	-3,826.04	1,913,470.84	531,262.37	36.2588233	-107.7272963
9,737.00	91.24	280.35	5,278.14	14.34	-3,888.85	1,913,482.91	531,199.54	36.2588567	-107.7275094
9,800.00	91.84	281.38	5,276.44	26.22	-3,950.70	1,913,494.70	531,137.68	36.2588892	-107.7277192
9,862.00	91.95	280.28	5,274.39	37.86	-4,011.56	1,913,506.27	531,076.80	36.2589212	-107.7279256
9,926.00	90.67	280.65	5,272.93	49.48	-4,074.48	1,913,517.81	531,013.87	36.2589531	-107.7281390
9,989.00	90.98	280.94	5,272.02	61.28	-4,136.36	1,913,529.53	530,951.98	36.2589855	-107.7283489
10,053.00	91.68	282.08	5,270.54	74.04	-4,199.05	1,913,542.22	530,889.27	36.2590205	-107.7285616
10,116.00	91.81	282.36	5,268.62	87.37	-4,260.60	1,913,555.48	530,827.71	36.2590571	-107.7287703
10,179.00	91.01	280.68	5,267.07	99.95	-4,322.31	1,913,567.98	530,765.98	36.2590917	-107.7289796
10,243.00	90.17	280.93	5,266.41	111.95	-4,385.17	1,913,579.90	530,703.11	36.2591246	-107.7291929
10,306.00	90.10	280.42	5,266.26	123.62	-4,447.08	1,913,591.49	530,641.18	36.2591566	-107.7294029
10,370.00	90.84	280.63	5,265.74	135.31	-4,510.00	1,913,603.10	530,578.25	36.2591887	-107.7296163
10,433.00	91.78	280.90	5,264.30	147.07	-4,571.87	1,913,614.79	530,516.36	36.2592210	-107.7298261
10,498.00	89.90	278.69	5,263.34	158.13	-4,635.91	1,913,625.77	530,452.31	36.2592513	-107.7300434
10,561.00	91.24	278.58	5,262.72	167.59	-4,698.19	1,913,635.15	530,390.01	36.2592773	-107.7302546
10,623.40	92.71	279.28	5,260.56	177.27	-4,759.80	1,913,644.76	530,328.40	36.2593039	-107.7304636
Bast Perf @ 10,623' MD									
10,625.00	92.75	279.30	5,260.49	177.52	-4,761.38	1,913,645.01	530,326.82	36.2593046	-107.7304689
10,658.00	93.02	279.39	5,258.83	182.88	-4,793.90	1,913,650.32	530,294.29	36.2593193	-107.7305792
Last SDI Lateral MWD Survey									
10,721.00	93.02	279.39	5,255.51	193.14	-4,855.97	1,913,660.51	530,232.21	36.2593474	-107.7307898
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
434.00	434.00	-0.04	1.44	First SDI Surface MWD Survey
4,643.00	4,501.63	-793.45	616.92	Last SDI Surface MWD Survey
4,707.00	4,565.63	-793.35	617.27	First SDI Curve MWD Survey
5,913.00	5,331.58	-650.92	-124.39	7" Casing
5,913.00	5,331.58	-650.92	-124.39	Landing Point (POE) @ 5913' MD
5,941.00	5,332.07	-646.55	-152.04	Last SDI Curve MWD Survey
5,972.00	5,332.51	-642.00	-182.70	First SDI Lateral MWD Survey
10,623.40	5,260.56	177.27	-4,759.80	Bast Perf @ 10,623' MD
10,658.00	5,258.83	182.88	-4,793.90	Last SDI Lateral MWD Survey
10,721.00	5,255.51	193.14	-4,855.97	Projection to TD

Checked By: _____ Approved By: _____ Date: _____