



Where energy meets innovation.

EQT Production - Marcellus

Ritchie County, WV
Ritchie County 514387
Well #514387

Main Wellbore

Survey: 514387 MWD

Standard Survey Report

07 August, 2013



Where energy meets innovation.

09122014

Database:	EQT_DP	Local Co-ordinate Reference:	Base: Ritchie County 514387
Company:	EQT Production - Marcellus	TVD Reference:	AB @ 918.0usft
Project:	Ritchie County, WV	MD Reference:	FD @ 918.0usft
Site:	Ritchie County 514387	North Reference:	CH
Well:	Well #514387	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	Via Drilled		

Project Ritchie County, WV			
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	West Virginia North 4701		Using geodetic scale factor

Site Ritchie County 514387			
Site Position:		Northing:	277,025.10 usft
From:	Map	Easting:	1,592,386.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39.25
		Longitude:	-80.94
		Grid Convergence:	-0.92 °

Well Well #514387						
Well Position	+N-S	0.0 usft	Northing:	277,025.10 usft	Latitude:	39° 15' 5.875 N
	+E-W	0.0 usft	Easting:	1,592,386.30 usft	Longitude:	80° 56' 21.863 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	795.0 usft

Wellbore Main Wellbore			
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	7/23/2013	-8.32	66.89	52,405

Design Via Drilled			
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Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	328.57

Survey Program		Date			
From (')	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	3,770.0	514387 Gyros (Main Wellbore)	GYD_DP_MS	Gyrodata gyro-compassing and drop	
0.00	10,948.0	514387 MWD (Main Wellbore)	MWD	MWD - Standard	

Survey										
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
Gyro Tie to MD-3770'										
3,770.0	1.75	27.29	3,769.8	2,951.8	-16.3	6.2	-17.1	0.00	0.00	0.00
3,781.0	1.60	15.10	3,780.8	2,962.8	-16.0	6.4	-16.9	3.51	-1.36	-110.82
3,813.0	0.90	357.90	3,812.8	2,994.8	-15.3	6.5	-16.4	2.46	-2.19	-53.75
3,844.0	0.90	251.00	3,843.8	3,025.8	-15.1	6.2	-16.2	4.66	0.00	-344.84
3,876.0	2.30	226.40	3,875.8	3,057.8	-15.6	5.5	-16.2	4.78	4.38	-76.88
3,907.0	3.50	223.60	3,906.7	3,088.7	-16.8	4.4	-16.6	3.90	3.87	-9.03
3,939.0	4.80	223.20	3,938.6	3,120.6	-18.4	2.8	-17.2	4.06	4.06	-1.25

Database:	EQT DB	Local Co-ordinate Reference:	Blue Ridge County 11297
Company:	EQT Production - Mercers	TVD Reference:	KB 11 11.000
Project:	Blue Ridge County WV	MD Reference:	KB 11 11.000
Site:	Blue Ridge County WV	North Reference:	Grid
Well:	Well #31001	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled		

Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,970.0	6.20	222.20	3,969.5	3,151.5	-20.6	0.8	-18.0	4.53	4.52	-3.23	
4,002.0	7.20	220.40	4,001.3	3,183.3	-23.4	-1.6	-19.1	3.19	3.13	-5.63	
4,033.0	8.60	217.20	4,032.0	3,214.0	-26.8	-4.3	-20.6	4.73	4.52	-10.32	
4,065.0	10.20	216.20	4,063.6	3,245.6	-31.0	-7.4	-22.5	5.03	5.00	-3.13	
4,096.0	11.60	214.40	4,094.0	3,276.0	-35.7	-10.8	-24.9	4.65	4.52	-5.81	
4,128.0	13.00	211.30	4,125.3	3,307.3	-41.5	-14.5	-27.8	4.84	4.38	-9.69	
4,159.0	14.60	211.30	4,155.4	3,337.4	-47.8	-18.3	-31.2	5.16	5.16	0.00	
4,191.0	15.50	212.00	4,186.3	3,368.3	-54.9	-22.7	-35.0	2.87	2.81	2.19	
4,223.0	16.00	212.30	4,217.1	3,399.1	-62.2	-27.3	-38.8	1.58	1.56	0.94	
4,254.0	17.10	211.60	4,246.8	3,428.8	-69.7	-32.0	-42.8	3.61	3.55	-2.26	
4,286.0	18.10	212.30	4,277.3	3,459.3	-77.9	-37.1	-47.1	3.19	3.13	2.19	
4,317.0	19.00	213.00	4,306.7	3,488.7	-86.2	-42.4	-51.4	2.99	2.90	2.26	
4,349.0	19.50	213.70	4,336.9	3,518.9	-95.0	-48.2	-55.9	1.72	1.56	2.19	
4,380.0	19.70	213.40	4,366.1	3,548.1	-103.7	-54.0	-60.3	0.72	0.65	-0.97	
4,412.0	19.50	212.70	4,396.2	3,578.2	-112.7	-59.8	-65.0	0.96	-0.63	-2.19	
4,443.0	19.70	212.30	4,425.4	3,607.4	-121.5	-65.4	-69.5	0.78	0.65	-1.29	
4,475.0	19.50	210.90	4,455.6	3,637.6	-130.6	-71.0	-74.4	1.60	-0.63	-4.38	
4,506.0	19.40	209.90	4,484.8	3,666.8	-139.5	-76.3	-79.3	1.12	-0.32	-3.23	
4,538.0	19.70	210.20	4,515.0	3,697.0	-148.8	-81.6	-84.4	0.99	0.94	0.94	
4,570.0	19.50	211.30	4,545.1	3,727.1	-158.0	-87.1	-89.4	1.31	-0.63	3.44	
4,601.0	19.20	212.00	4,574.4	3,756.4	-166.8	-92.5	-94.0	1.22	-0.97	2.26	
4,633.0	19.50	213.40	4,604.6	3,786.6	-175.7	-98.2	-98.7	1.73	0.94	4.38	
4,664.0	19.50	214.10	4,633.8	3,815.8	-184.3	-104.0	-103.0	0.75	0.00	2.26	
4,696.0	19.50	214.80	4,663.9	3,845.9	-193.1	-110.0	-107.4	0.73	0.00	2.19	
4,727.0	19.20	213.40	4,693.2	3,875.2	-201.6	-115.8	-111.6	1.78	-0.97	-4.52	
4,759.0	20.20	213.00	4,723.3	3,905.3	-210.6	-121.7	-116.2	3.15	3.13	-1.25	
4,790.0	21.60	214.10	4,752.3	3,934.3	-219.8	-127.8	-120.9	4.69	4.52	3.55	
4,822.0	21.30	215.80	4,782.1	3,964.1	-229.4	-134.5	-125.6	2.16	-0.94	5.31	
4,853.0	21.50	217.60	4,810.9	3,992.9	-238.5	-141.3	-129.8	2.21	0.65	5.81	
4,885.0	22.30	218.30	4,840.6	4,022.6	-247.9	-148.6	-134.0	2.63	2.50	2.19	
4,917.0	23.20	219.00	4,870.1	4,052.1	-257.6	-156.3	-138.2	2.94	2.81	2.19	
4,948.0	23.40	221.50	4,898.6	4,080.6	-266.9	-164.3	-142.1	3.25	0.65	8.06	
4,980.0	23.80	223.60	4,927.9	4,109.9	-276.4	-172.9	-145.6	2.91	1.25	6.56	
5,011.0	24.60	223.60	4,956.2	4,138.2	-285.6	-181.7	-148.9	2.58	2.58	0.00	
5,042.0	26.00	222.20	4,984.2	4,166.2	-295.3	-190.7	-152.5	4.91	4.52	-4.52	
5,073.0	28.00	221.50	5,011.8	4,193.8	-305.7	-200.1	-156.5	6.53	6.45	-2.26	
5,105.0	30.10	220.10	5,039.8	4,221.8	-317.5	-210.2	-161.3	6.90	6.56	-4.38	
5,136.0	32.00	219.40	5,066.4	4,248.4	-329.8	-220.5	-166.4	6.24	6.13	-2.26	
5,203.0	36.20	216.90	5,121.8	4,303.8	-359.4	-243.6	-179.6	6.61	6.27	-3.73	
5,234.0	38.40	218.00	5,146.5	4,328.5	-374.3	-255.0	-186.3	7.42	7.10	3.55	
5,266.0	39.90	214.40	5,171.3	4,353.3	-390.6	-267.0	-194.0	8.51	4.69	-11.25	
5,297.0	40.80	211.60	5,194.9	4,376.9	-407.4	-277.9	-202.7	6.53	2.90	-9.03	
5,329.0	42.60	208.10	5,218.8	4,400.8	-425.9	-288.5	-212.9	9.20	5.63	-10.94	

Database:	EQT 001	Local Co-ordinate Reference:	54° P (4) W County 511387
Company:	EQT Production - Marcellus	TVD Reference:	MB 16 818 000"
Project:	Phillips County, WV	MD Reference:	KB 16 816 000"
Site:	Phillips County 511387	North Reference:	100"
Well:	Well: W-14-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore: 14-10		
Design:	Design: 14-10		

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buird Rate (°/100usft)	Turn Rate (°/100usft)
5,361.0	44.90	205.90	5,242.0	4,424.0	-445.6	-298.5	-224.5	8.62	7.19	-6.88
5,392.0	47.50	204.60	5,263.4	4,445.4	-465.8	-308.0	-236.8	8.92	8.39	-4.19
5,424.0	47.30	204.90	5,285.1	4,467.1	-487.2	-317.9	-249.9	0.93	-0.63	0.94
5,455.0	46.80	204.90	5,306.2	4,488.2	-507.8	-327.5	-262.5	1.61	-1.61	0.00
5,487.0	46.60	203.50	5,328.1	4,510.1	-529.0	-337.0	-275.6	3.24	-0.63	-4.38
5,518.0	45.40	207.40	5,349.7	4,531.7	-549.2	-346.6	-287.8	9.84	-3.87	12.58
5,550.0	42.10	212.70	5,372.8	4,554.8	-568.3	-357.6	-298.4	15.41	-10.31	16.56
5,581.0	40.10	219.70	5,396.2	4,578.2	-584.8	-369.6	-306.2	16.18	-6.45	22.58
5,613.0	38.00	225.70	5,421.0	4,603.0	-599.6	-383.3	-311.7	13.51	-6.56	18.75
5,644.0	36.40	229.20	5,445.7	4,627.7	-612.2	-397.1	-315.3	8.56	-5.16	11.29
5,676.0	36.20	233.40	5,471.5	4,653.5	-624.1	-411.8	-317.7	7.79	-0.63	13.13
5,707.0	35.40	237.30	5,496.7	4,678.7	-634.4	-426.7	-318.7	7.80	-2.58	12.58
5,739.0	35.00	240.50	5,522.8	4,704.8	-643.9	-442.5	-318.6	5.90	-1.25	10.00
5,771.0	34.70	244.70	5,549.1	4,731.1	-652.3	-458.7	-317.4	7.56	-0.94	13.13
5,802.0	34.70	247.10	5,574.6	4,756.6	-659.5	-474.9	-315.1	4.41	0.00	7.74
5,834.0	35.50	247.80	5,600.7	4,782.7	-666.6	-491.8	-312.3	2.80	2.50	2.19
5,865.0	36.60	251.00	5,625.8	4,807.8	-673.0	-508.9	-308.8	7.03	3.55	10.32
5,897.0	37.70	256.30	5,651.3	4,833.3	-678.4	-527.5	-303.8	10.57	3.44	16.56
5,928.0	38.00	262.50	5,675.8	4,857.8	-681.9	-546.1	-297.0	12.31	0.97	20.00
5,960.0	37.80	268.90	5,701.1	4,883.1	-683.4	-565.7	-288.1	12.30	-0.63	20.00
5,991.0	36.80	274.90	5,725.7	4,907.7	-682.8	-584.5	-277.8	12.16	-3.23	19.35
6,023.0	37.10	280.90	5,751.3	4,933.3	-680.1	-603.5	-265.6	11.31	0.94	18.75
6,054.0	37.50	284.40	5,776.0	4,958.0	-676.0	-621.8	-252.5	6.96	1.29	11.29
6,086.0	38.90	286.90	5,801.1	4,983.1	-670.7	-640.9	-238.0	6.52	4.38	7.81
6,117.0	41.50	289.70	5,824.8	5,006.8	-664.4	-659.9	-222.8	10.21	8.39	9.03
6,149.0	45.20	291.80	5,848.1	5,030.1	-656.6	-680.4	-205.4	12.41	11.56	6.56
6,180.0	49.10	294.20	5,869.2	5,051.2	-647.7	-701.3	-186.9	13.80	12.58	7.74
6,212.0	52.10	296.70	5,889.5	5,071.5	-637.1	-723.6	-166.2	11.15	9.38	7.81
6,244.0	53.30	302.30	5,908.9	5,090.9	-624.5	-745.7	-144.0	14.41	3.75	17.50
6,275.0	53.10	305.80	5,927.4	5,109.4	-610.6	-765.3	-121.4	9.06	-0.65	11.29
6,307.0	54.20	307.60	5,946.4	5,128.4	-595.2	-787.0	-97.5	5.69	3.44	5.63
6,338.0	56.80	311.50	5,964.0	5,146.0	-579.0	-806.7	-73.3	13.33	8.39	12.58
6,370.0	59.30	315.30	5,980.9	5,162.9	-560.3	-826.4	-47.1	12.75	7.81	11.88
6,401.0	62.10	318.10	5,996.1	5,178.1	-540.6	-844.9	-20.7	11.98	9.03	9.03
6,433.0	64.90	321.30	6,010.4	5,192.4	-518.8	-863.4	7.6	12.51	8.75	10.00
6,464.0	67.60	322.00	6,022.8	5,204.8	-496.5	-881.0	35.8	8.95	8.71	2.26
6,496.0	70.70	323.10	6,034.2	5,216.2	-472.8	-899.2	65.5	10.21	9.69	3.44
6,527.0	74.60	324.50	6,043.5	5,225.5	-448.9	-916.7	95.0	13.30	12.58	4.52
6,559.0	78.70	326.20	6,050.9	5,232.9	-423.3	-934.4	126.1	13.82	12.81	5.31
6,590.0	82.90	326.90	6,055.8	5,237.8	-397.8	-951.2	156.7	13.73	13.55	2.26
6,622.0	87.40	328.70	6,058.5	5,240.5	-370.8	-968.2	188.5	15.14	14.06	5.63
6,653.0	90.40	332.20	6,059.1	5,241.1	-343.9	-983.5	219.5	14.87	9.68	11.29

Database:	CIT 08	Local Co-ordinate Reference:	San Pedro County 574317
Company:	EQT Technology Services	TVD Reference:	KB @ 375.000
Project:	Placer County, CA	MD Reference:	KB @ 311.000
Site:	Robert County Project	North Reference:	KB
Well:	W-111-1-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	New Wellbore		
Design:	CA 8100		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buird Rate (°/100usft)	Turn Rate (°/100usft)
6,685.0	90.80	336.40	6,058.8	5,240.8	-315.0	-997.4	251.3	13.18	1.25	13.13
6,708.0	90.10	339.90	6,058.6	5,240.6	-293.7	-1,005.9	274.0	15.52	-3.04	15.22
6,741.2	89.79	340.67	6,058.6	5,240.6	-262.5	-1,017.1	306.5	2.50	-0.95	2.32
6,803.0	89.20	342.10	6,059.2	5,241.2	-203.9	-1,036.8	366.8	2.50	-0.95	2.32
6,897.0	90.10	339.60	6,059.8	5,241.8	-115.1	-1,067.7	458.6	2.83	0.96	-2.66
6,949.9	89.31	342.36	6,060.0	5,242.0	-65.1	-1,084.9	510.2	5.42	-1.49	5.21
6,991.0	88.70	344.50	6,060.7	5,242.7	-25.7	-1,096.6	550.0	5.42	-1.49	5.21
7,086.0	87.60	346.30	6,063.8	5,245.8	66.2	-1,120.6	640.9	2.22	-1.16	1.89
7,181.0	87.60	347.00	6,067.8	5,249.8	158.5	-1,142.5	731.1	0.74	0.00	0.74
7,275.0	88.50	343.10	6,071.0	5,253.0	249.3	-1,166.7	821.2	4.26	0.96	-4.15
7,370.0	91.00	339.20	6,071.4	5,253.4	339.2	-1,197.4	913.8	4.88	2.63	-4.11
7,463.0	91.80	340.60	6,069.1	5,251.1	426.5	-1,229.3	1,005.0	1.73	0.86	1.51
7,558.0	91.50	341.00	6,066.4	5,248.4	516.1	-1,260.6	1,097.8	0.53	-0.32	0.42
7,652.0	90.30	342.40	6,064.9	5,246.9	605.4	-1,290.1	1,189.3	1.96	-1.28	1.49
7,747.0	90.10	342.80	6,064.6	5,246.6	696.0	-1,318.5	1,281.5	0.47	-0.21	0.42
7,841.0	89.70	342.10	6,064.7	5,246.7	785.6	-1,346.8	1,372.7	0.86	-0.43	-0.74
7,936.0	89.20	342.80	6,065.7	5,247.7	876.2	-1,375.5	1,465.0	0.91	-0.53	0.74
8,030.0	88.70	343.50	6,067.4	5,249.4	966.2	-1,402.7	1,555.9	0.92	-0.53	0.74
8,125.0	91.50	344.50	6,067.2	5,249.2	1,057.5	-1,428.9	1,647.5	3.13	2.95	1.05
8,220.0	90.80	343.10	6,065.3	5,247.3	1,148.7	-1,455.4	1,739.1	1.65	-0.74	-1.47
8,314.0	89.70	342.40	6,064.9	5,246.9	1,238.5	-1,483.3	1,830.3	1.39	-1.17	-0.74
8,409.0	89.60	342.80	6,065.5	5,247.5	1,329.1	-1,511.7	1,922.4	0.43	-0.11	0.42
8,503.0	88.70	341.70	6,066.9	5,248.9	1,418.6	-1,540.3	2,013.7	1.51	-0.96	-1.17
8,598.0	87.80	341.00	6,069.8	5,251.8	1,508.6	-1,570.7	2,106.3	1.20	-0.95	-0.74
8,692.0	90.30	342.80	6,071.3	5,253.3	1,597.9	-1,599.9	2,197.8	3.28	2.66	1.91
8,787.0	89.90	342.10	6,071.2	5,253.2	1,688.5	-1,628.5	2,290.0	0.85	-0.42	-0.74
8,882.0	91.10	341.00	6,070.3	5,252.3	1,778.6	-1,658.6	2,382.6	1.71	1.26	-1.16
8,976.0	90.40	339.60	6,069.1	5,251.1	1,867.1	-1,690.3	2,474.6	1.67	-0.74	-1.49
9,071.0	89.00	340.60	6,069.6	5,251.6	1,956.4	-1,722.6	2,567.7	1.81	-1.47	1.05
9,165.0	88.50	340.60	6,071.7	5,253.7	2,045.1	-1,753.8	2,659.6	0.53	-0.53	0.00
9,259.0	87.30	339.20	6,075.1	5,257.1	2,133.3	-1,786.1	2,751.7	1.96	-1.28	-1.49
9,353.0	89.20	341.00	6,078.0	5,260.0	2,221.6	-1,818.1	2,843.7	2.78	2.02	1.91
9,448.0	90.10	344.20	6,078.6	5,260.6	2,312.2	-1,846.5	2,935.9	3.50	0.95	3.37
9,543.0	90.10	344.50	6,078.4	5,260.4	2,403.7	-1,872.1	3,027.3	0.32	0.00	0.32
9,637.0	89.90	343.50	6,078.4	5,260.4	2,494.1	-1,898.0	3,117.9	1.08	-0.21	-1.06
9,732.0	89.60	342.10	6,078.8	5,260.8	2,584.8	-1,926.1	3,210.0	1.51	-0.32	-1.47
9,826.0	89.70	341.40	6,079.4	5,261.4	2,674.1	-1,955.6	3,301.5	0.75	0.11	-0.74
9,921.0	89.90	342.40	6,079.7	5,261.7	2,764.4	-1,985.1	3,393.9	1.07	0.21	1.05
10,015.0	89.40	342.80	6,080.3	5,262.3	2,854.1	-2,013.2	3,485.1	0.68	-0.53	0.43
10,110.0	89.00	342.80	6,081.6	5,263.6	2,944.8	-2,041.3	3,577.2	0.42	-0.42	0.00
10,204.0	88.30	342.10	6,083.8	5,265.8	3,034.4	-2,069.6	3,668.4	1.05	-0.74	-0.74

Database:	EQT DB	Local Co-ordinate Reference:	Site: Ridge County 514397
Company:	EQT Production - Macellus	TVD Reference:	K8 @ 810' mark
Project:	Ridge County 514	MD Reference:	K8 @ 810' mark
Site:	Ridge County 514397	North Reference:	Ctrl
Well:	Well 514397	Survey Calculation Method:	Minimum Curvature
Wellbore:	Min Wellbore		
Design:	KS Drive		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bull'd Rate (°/100usft)	Turn Rate (°/100usft)
10,299.0	94.10	344.20	6,081.8	5,263.8	3,125.3	-2,097.1	3,760.3	6.49	6.11	2.21
10,394.0	92.00	342.80	6,076.8	5,258.8	3,216.2	-2,124.1	3,852.0	2.66	-2.21	-1.47
10,488.0	89.60	343.80	6,075.5	5,257.5	3,306.3	-2,151.1	3,942.9	2.77	-2.55	1.06
10,583.0	89.40	341.70	6,076.3	5,258.3	3,397.0	-2,179.3	4,035.0	2.22	-0.21	-2.21
10,677.0	88.20	338.20	6,078.3	5,260.3	3,485.2	-2,211.5	4,127.1	3.94	-1.28	-3.72
10,772.0	88.90	339.90	6,080.7	5,262.7	3,573.9	-2,245.4	4,220.5	1.93	0.74	1.79
10,867.0	87.80	341.70	6,083.4	5,265.4	3,663.6	-2,276.7	4,313.3	2.22	-1.16	1.89
Last Survey MD=10887										
10,887.0	87.80	342.10	6,084.2	5,266.2	3,682.6	-2,282.9	4,332.7	2.00	0.00	2.00
514397 Plus TD										
10,941.7	87.80	342.10	6,086.3	5,268.3	3,734.6	-2,299.6	4,385.8	0.00	0.00	0.00
Projection to TD MD=10948										
10,948.0	87.80	342.10	6,086.5	5,268.5	3,740.6	-2,301.6	4,392.0	0.00	0.00	0.00

Measured Depth (')	Vertical Depth (')	Local Coordinates		Comment
		+N/-S (')	+E/-W (')	
3,770.0	3,769.8	-16.3	6.2	Gyro Tie In MD=3770'
10,887.0	6,084.2	3,682.6	-2,282.9	Last Survey MD=10887'
10,948.0	6,086.5	3,740.6	-2,301.6	Projection to TD MD=10948'

Checked By: _____ Approved By: _____ Date: _____

Project: Ritchie County, WV
Site: Ritchie County 514387
Well: Well #514387
Wellbore: Main Wellbore
Design: As Drilled

