

**From:** matthew.barvenik@gza.com  
**To:** "James Noggle" <JDN@nrc.gov>  
**Date:** 05/01/2007 2:27:59 PM  
**Subject:** RE: NRC request for info

Hi Jim,

Just to be sure there isn't a glitch in data transfer (see attached) - the requested RW-1 .wlc file was uploaded to ftp server morning of 4/27. The pdf file has been on ftp server for a while. This has already been transferred to Tom verbally, but this e-mail is to make sure everyone is on same page

-----Original Message-----

**From:** Matthew Barvenik [mailto:mbarvenik@gza.com]  
**Sent:** Monday, April 30, 2007 5:55 AM  
**To:** 'James Noggle'; 'Gary Hinrichs'; 'Jay Adler'  
**Cc:** 'David Rusczyk'; 'dwinslow@gza.com'  
**Subject:** RE: NRC request for info

Hi Jim,

We will get this up on site as soon as we can get it from our contractor - Ideally Monday.

-----Original Message-----

**From:** James Noggle [mailto:JDN@nrc.gov]  
**Sent:** Friday, April 27, 2007 3:15 PM  
**To:** Gary Hinrichs; Jay Adler; Matthew Barvenik  
**Subject:** NRC request for info

Thanks for posting the well cad data on the GZA web site. One additional request from John Williams is posted below. Thanks in advance.

The WellCad logs posted by GZA look great. However, the WellCad/PDF image logs for RW-1 appear to be missing. There is a "rw1i.xls" file so there should also be "rw1i.wlc" and "rw1i.pdf" files. If they can post the RW-1 image files along with the pumping rates/drawdowns during the borehole flowmeter logging, we should be all set.

John H. Williams  
U. S. Geological Survey  
425 Jordan Road  
Troy, NY 12180-8349  
518-285-5670  
518-285-5601 FAX

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**CC:** "David Rusczyk" <[drusczyk@erl.com](mailto:drusczyk@erl.com)>, <[dwinslow@gza.com](mailto:dwinslow@gza.com)>, "Gary Hinrichs" <[ghinric@entergy.com](mailto:ghinric@entergy.com)>, "Jay Adler" <[jadler@entergy.com](mailto:jadler@entergy.com)>

Fracture Orientations Interpreted from RW-1 Acoustic Televiewer Log  
Indian Point Site  
Buchanan, NY  
Prepared for: GZA  
105836 - rw1i.xls

depth (feet)	down-dip compass azimuth (degrees)	dip angle (degrees)	Interpreted planar feature category
62.72	291.0	83.7	less-open
63.12	276.1	69.0	less-open
63.22	117.0	45.7	less-open
65.31	117.3	36.1	less-open
65.50	306.0	72.5	less-open
65.87	205.7	43.8	less-open
73.89	326.5	78.3	open
75.33	75.1	26.4	less-open
79.44	123.8	27.9	less-open
81.07	248.1	60.0	less-open
83.58	101.6	39.9	less-open
83.71	111.7	42.2	less-open
83.82	100.8	42.7	less-open
84.06	209.4	43.4	less-open
87.09	164.1	34.8	less-open
87.31	312.4	29.7	less-open
97.98	183.9	38.3	less-open
100.46	119.9	30.2	less-open
100.84	329.1	49.9	less-open
103.13	195.0	50.9	less-open
111.58	288.7	49.4	less-open
111.82	140.6	43.0	less-open
114.91	147.3	54.7	less-open
116.19	155.6	53.9	open
117.18	116.1	61.3	less-open
119.45	127.0	44.6	less-open
120.34	115.9	34.3	less-open
124.07	228.7	31.6	less-open
127.11	152.6	87.2	less-open
127.16	183.1	45.2	less-open
129.71	303.3	46.7	less-open
134.61	277.8	47.6	less-open
135.67	260.0	48.9	less-open
136.95	318.7	40.9	less-open
137.89	290.1	45.1	less-open
138.51	292.0	43.0	less-open
138.64	284.7	43.4	less-open
139.11	270.5	27.6	less-open

Note that down-dip compass azimuth  
is perpendicular to the strike direction.

Note that interpreted down-dip compass  
azimuths are with respect to  
magnetic north.

Down-dip azimuths & dip angles were  
corrected for borehole deviation from  
vertical.