

## WELL SCHEDULE

SITE NAME 14FF42 OTHER IDENTIFIER Airport WELL NUMBER 335839083572301  
 Latitude 33° 58' 38.81" Longitude -83° 57' 23.55" Ground Elevation 1028.2 NGVD 29  
 OWNER City of Lawrenceville Casing Elevation 1029.67 NGVD 29

## WELL CONSTRUCTION DESCRIPTION

Name of Aquifer: metamorphic - crystalline rock

## TYPE OF DRILLING

Rotary Total Depth 599  
 Percussion Static Water Level (bls)  
 Bored 29.46 @  
10/31/2001 11:50:00 AM

## DRILL HOLE DIAMETER

Size 12 in, from 0 ft to 35 ft  
 Size 6 in, from 35 ft to 599 ft  
 Size \_\_\_\_\_ in, from \_\_\_\_\_ ft to \_\_\_\_\_ ft

## CASING RECORD

Type material steel  
 Size 8 in, from 0 ft to 35 ft  
 Size \_\_\_\_\_ in, from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Size \_\_\_\_\_ in, from \_\_\_\_\_ ft to \_\_\_\_\_ ft

## WELL SCREEN

Type material open hole  
 Size \_\_\_\_\_ in, from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Size \_\_\_\_\_ in, from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Size \_\_\_\_\_ in, from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Date drilled May 1996

Driller USGS

GROUTING  YES  NO

Type cement grout

From 0 ft to 35 ft

From \_\_\_\_\_ ft to \_\_\_\_\_ ft

From \_\_\_\_\_ ft to \_\_\_\_\_ ft

## TEST PUMP DATA

Pumped  Bailed \_\_\_\_\_

Estimated 10

Date tested \_\_\_\_\_

Pump rated \_\_\_\_\_ gal/min \_\_\_\_\_ HP

Test yield \_\_\_\_\_ gal/min After \_\_\_\_\_ hrs

Water level before test \_\_\_\_\_ ft btoc

Drawdown \_\_\_\_\_ ft

Specific Capacity \_\_\_\_\_ gal/min/ft

Altitudes are in reference to NGVD 29

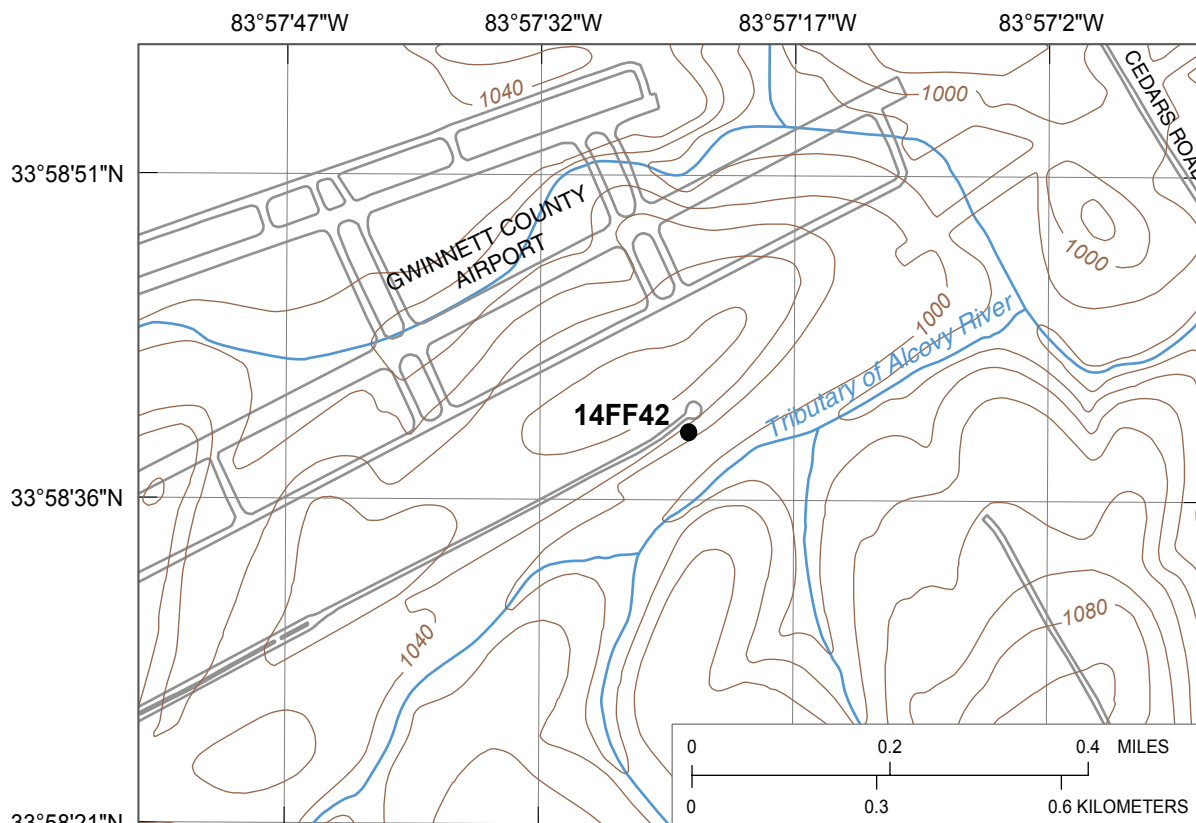
Latitude/longitude in NAD 83

Depths are in feet below land surface (bls)

Feet below top of casing (ft btoc)

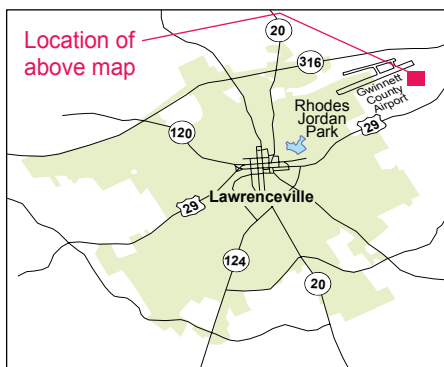
Comments: Originally cored by USGS and later reamed to a 6-inch open-hole well; core examined by

T. Crawford



Base from U.S. Geological Survey 1:24,000-scale, Luxomni Roads from City of Lawrenceville 1999 digital data

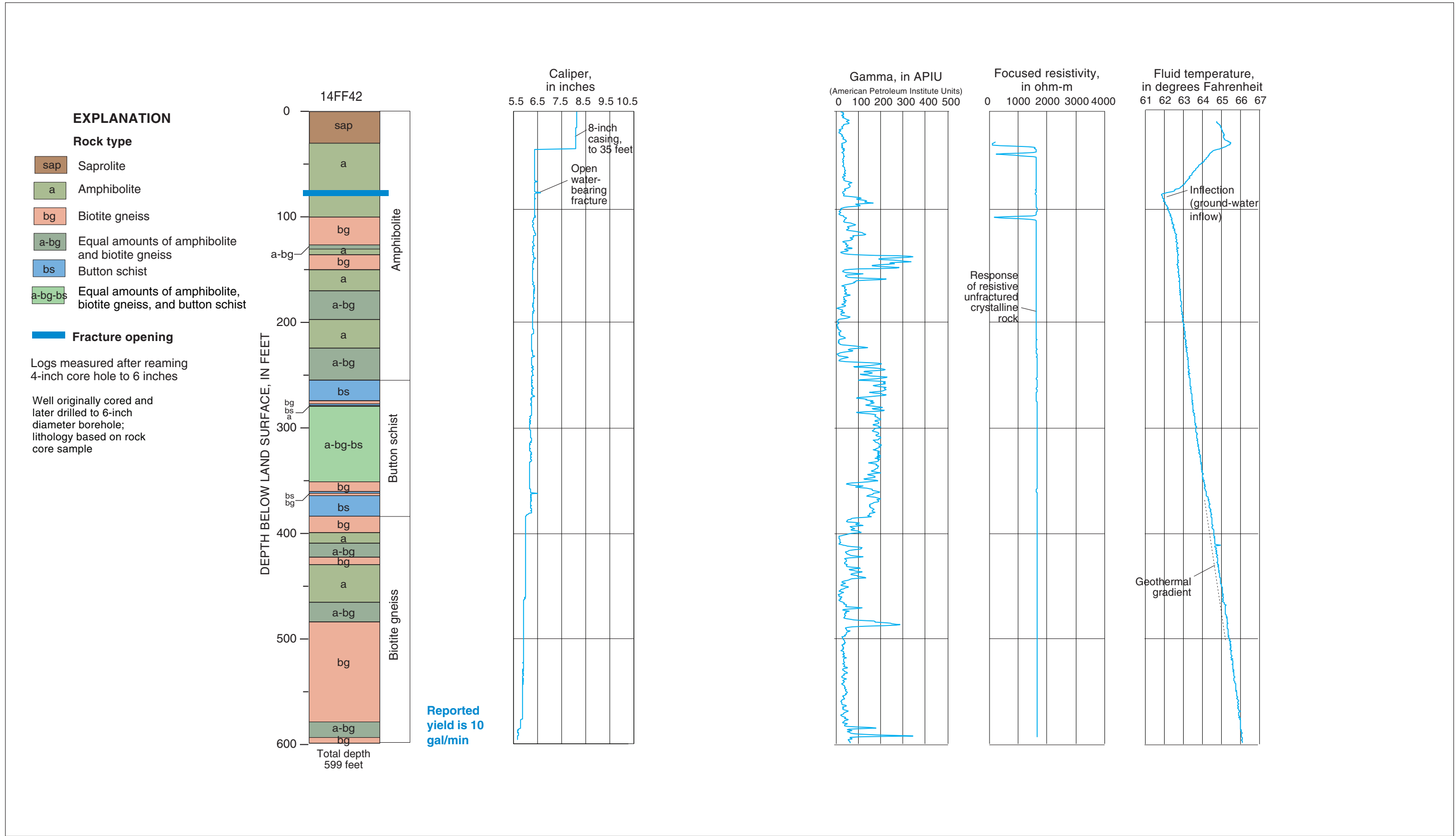
**14FF42** ● **EXPLANATION**  
 Observation well and site name



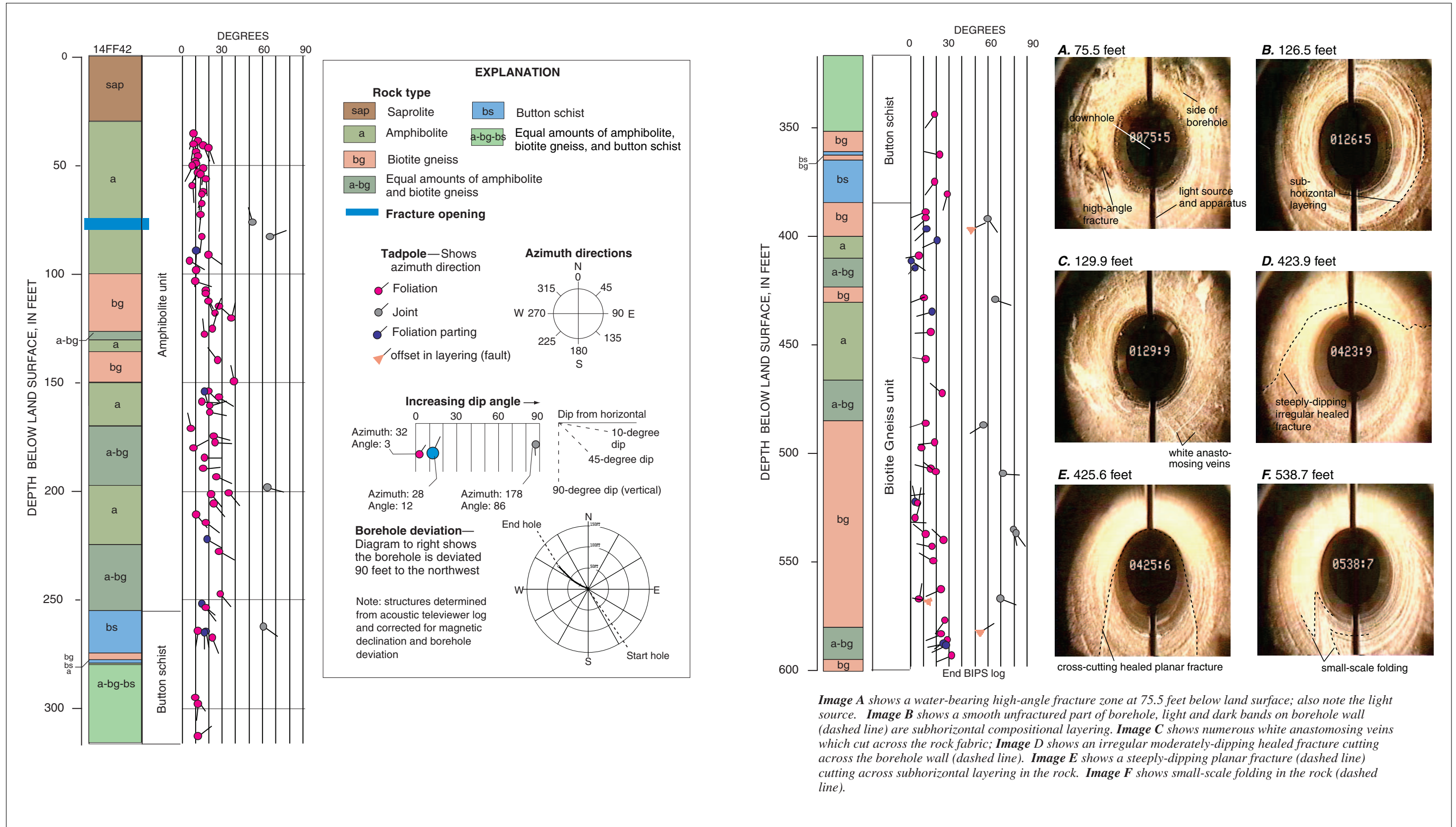
Geophysical log files for well 14FF27 [contained on CD in Supplemental\_data\log\_archive\logs.zip; ft bls, feet below land surface]

File name	Type	Date	Start depth (ft bls)	Stop depth (ft bls)
14FF42.20011207.AT01	Acoustic Televiwer <sup>1/</sup>	12/07/01	35.86	592.08
14FF42.19960524.AV01	Acoustic Velocity	05/24/96	25.7	593
14FF42.19960524.WD01	Borehole Deviation	05/24/96	0	596.8
14FF42.19960523.CT01	Caliper, Three Arm	05/23/96	0	596.8
14FF42.19960524.FT01	Fluid Temperature	05/24/96	10.5	599
14FF42.19960524.EF01	Focused Resistivity	05/24/96	28.5	594
14FF42.19960523.NG01	Gamma	05/23/96	0	599
14FF42.19960524.EL01	Long-normal Resistivity	05/24/96	14.5	599
14FF42.19960524.ES01	Short-normal Resistivity	05/24/96	14.5	599
14FF42.19960524.EP01	Spontaneous Potential	05/24/96	14.5	599

<sup>1/</sup> Does not include trace data, original log is provided in Century binary format under the same file name with extension ".log"



Lithology and borehole geophysical logs for well 14FF42 (Airport well), Lawrenceville, Georgia.



Structural tadpole plot and downhole camera images for well 14FF42 (Airport well), Lawrenceville, Georgia.

**Image A** shows a water-bearing high-angle fracture zone at 75.5 feet below land surface; also note the light source. **Image B** shows a smooth unfractured part of borehole, light and dark bands on borehole wall (dashed line) are subhorizontal compositional layering. **Image C** shows numerous white anastomosing veins which cut across the rock fabric; **Image D** shows an irregular moderately-dipping healed fracture cutting across the borehole wall (dashed line). **Image E** shows a steeply-dipping planar fracture (dashed line) cutting across subhorizontal layering in the rock. **Image F** shows small-scale folding in the rock (dashed line).