

WELL SCHEDULE

SITE NAME 14FF59 OTHER IDENTIFIER Hwy 316 WELL NUMBER 335902083565901
 Latitude 33° 59' 2.07" Longitude -83° 56' 58.91" Ground Elevation 952.1 NGVD 29
 OWNER City of Lawrenceville Casing Elevation 954.19 NGVD 29

WELL CONSTRUCTION DESCRIPTION

Name of Aquifer: metamorphic - crystalline rock

TYPE OF DRILLING

Rotary Total Depth 470
 Percussion Static Water Level (bls)
 Bored -9.7 @
10/31/2001 12:10:00 PM

DRILL HOLE DIAMETER

Size 12 in, from 0 ft to 35 ft
 Size 8 in, from 35 ft to 400 ft
 Size 6 in, from 400 ft to 470 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 7/20-21/2001 (test hole), 8/2001

Driller Middle Georgia Water Systems

GROUTING YES NO

Type portland type I

From 0 ft to 35 ft

From _____ ft to _____ ft

From _____ ft to _____ ft

TEST PUMP DATA

Pumped Bailed _____

Estimated 350-400 (air-lift yield)

Date tested 10/10/2001 10/13/2001

Pump rated 375 gal/min 25 HP

Test yield 301.5 gal/min After 72 hrs

Water level before test 0 (flowing) ft btoc

Drawdown 84.3 ft

Specific Capacity 3.6 gal/min/ft

Well flows about 60 gal/min when left uncapped

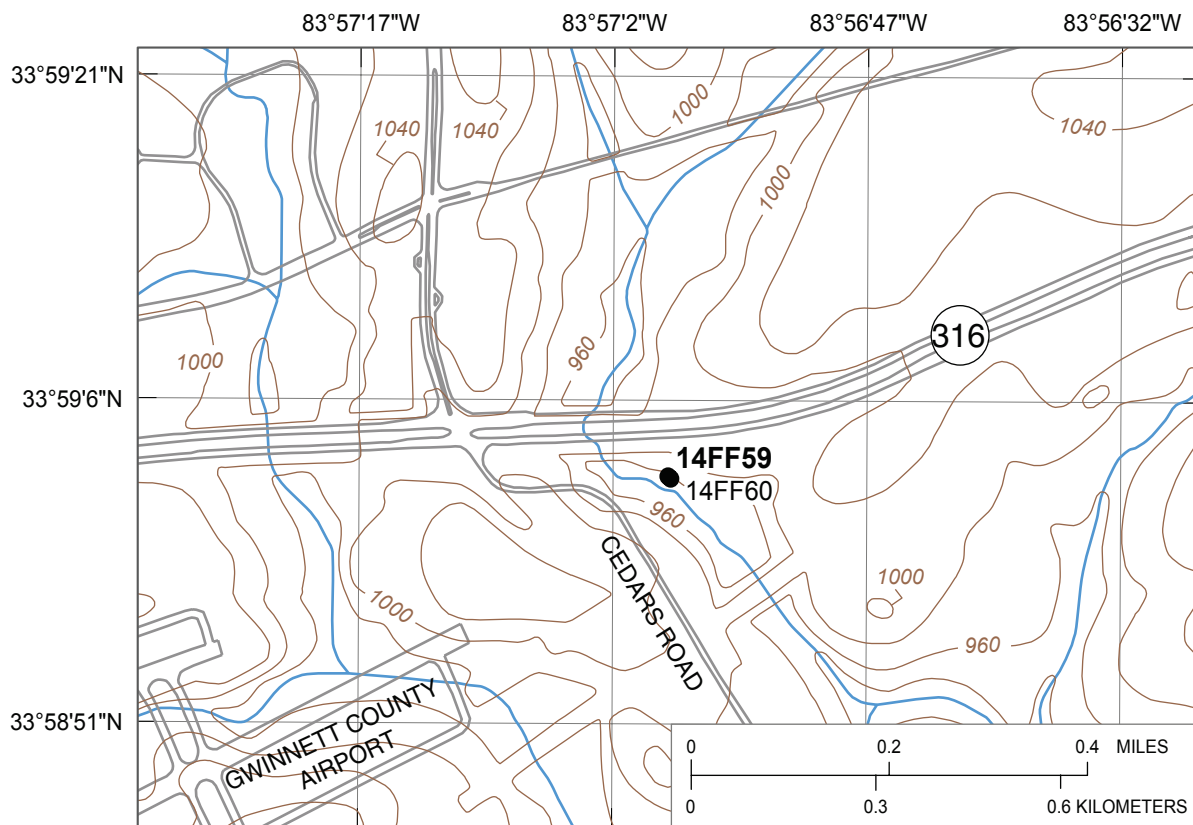
Altitudes are in reference to NGVD 29

Latitude/longitude in NAD 83

Depths are in feet below land surface (bls)

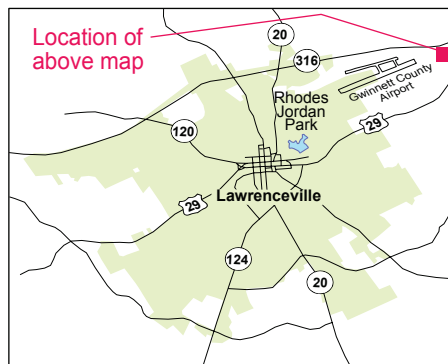
Feet below top of casing (ft btoc)

Comments: Major water-bearing fractures at 266.5-267', 281-282', 296-297', 324.5-325', 347-348'; also shallow
water-bearing fractures at 7' and 17.5' sealed off behind casing; six-inch test hole drilled 7/20/01 to 7/21/01 and logged
by J. Lawson; air-lift yield 180 gal/min with shallow fractures exposed in 6-inch borehole; reamed and completed in
August 2001; air-lift yield for reamed well was reported to be in range of 350 to 400 gal/min.



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

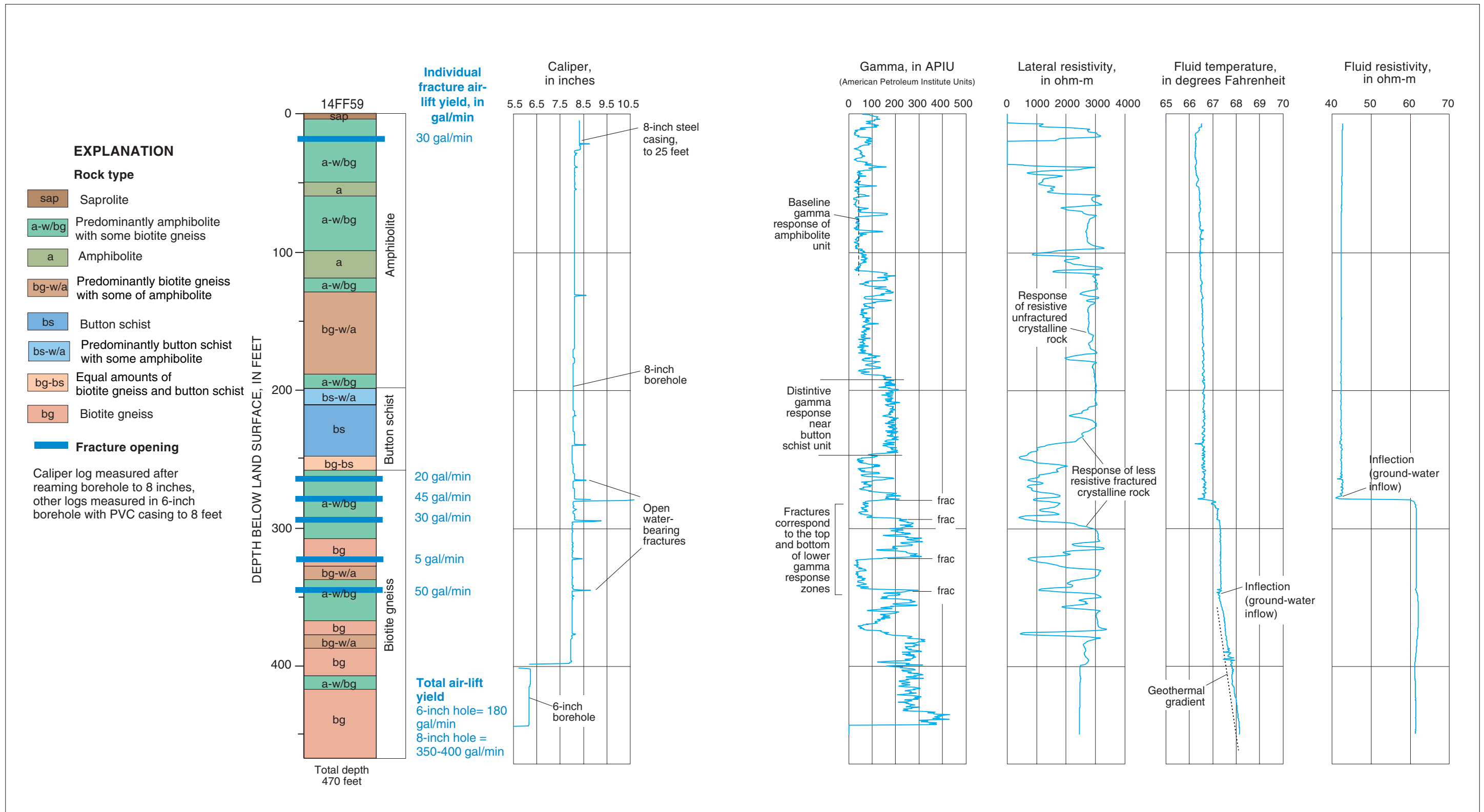
14FF59 ● **EXPLANATION**
 Observation well and site name



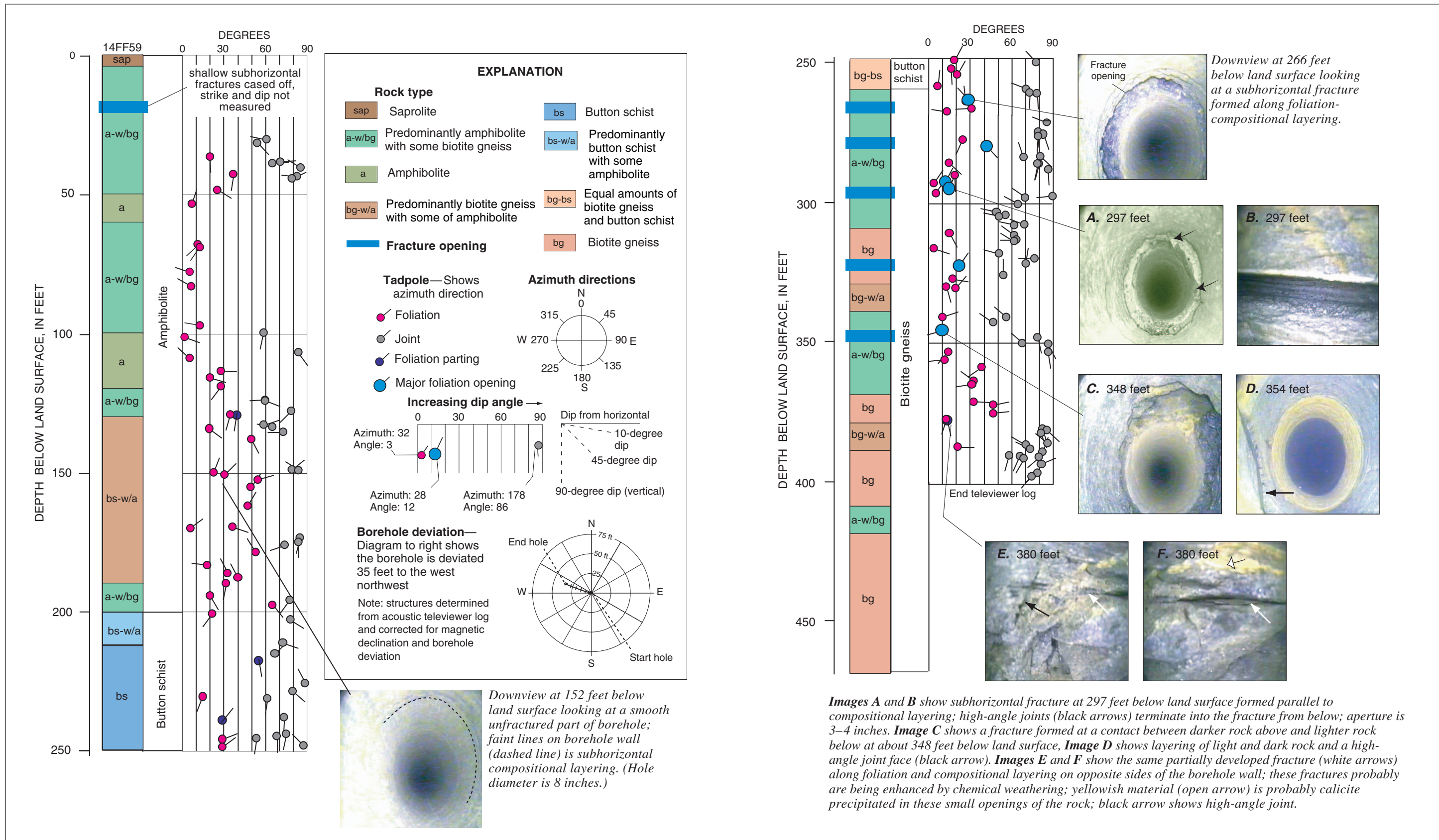
Geophysical log files for well 14FF59 [contained on CD in Supplemental_data\log_archive\logs.zip; ft bls, feet below land surface]

File name	Type	Date	Start depth (ft bls)	Stop depth (ft bls)
14FF59.20010802.ZE01	Combination Tool ¹	8/2/01	-2	453
14FF59.20011107.AT01	Acoustic Televiwer ²	11/7/01	26.67	374.82
14FF59.20011107.AT02	Acoustic Televiwer ²	11/7/01	364.65	400.77
14FF59.20011107.AT03	Acoustic Televiwer ²	11/7/01	375	400.61
14FF59.20010802.CT01	Caliper, Three Arm	8/2/01	3.1	453.9
14FF59.20011107.CT01	Caliper, Three Arm	11/7/01	2.6	447.7
14FF59.20010802.ZI01	Gamma and EM Induction	8/2/01	-1.4	450.5
14FF59.20011203.FEI01	Interpreted EM Flowmeter	12/3/01	45.5	402.2

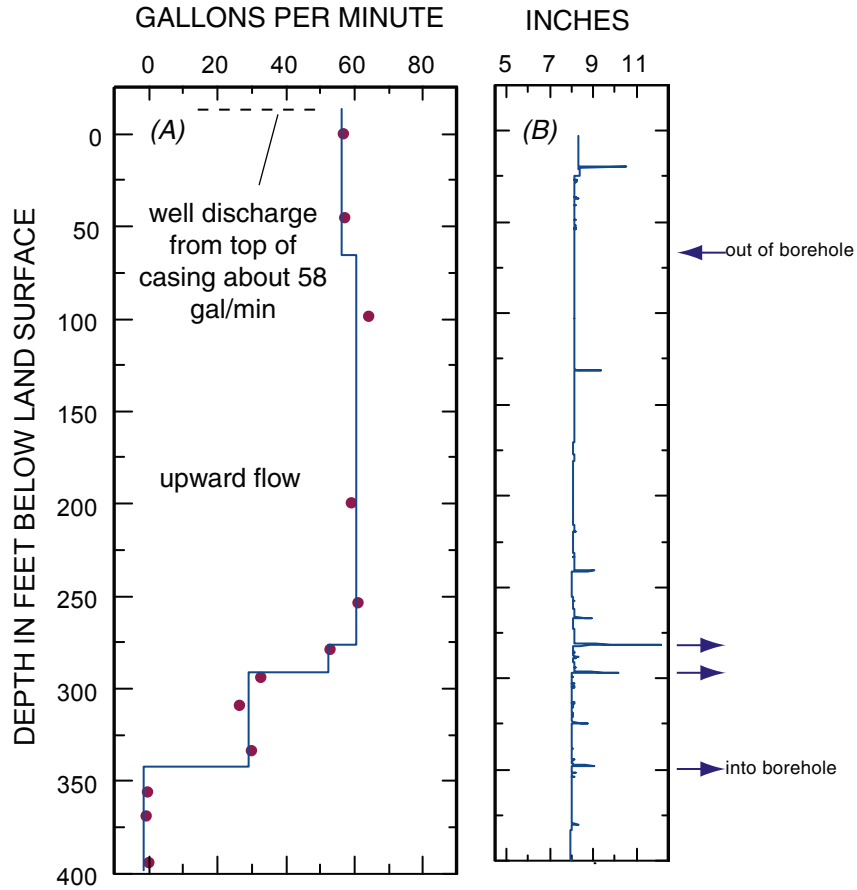
^{1/} Includes gamma, long/short normal resistivity, spontaneous potential, single-point resistance, fluid resistivity, and temperature
^{2/} Does not include trace data, original log is provided in Century binary format under the same file name with extension ".log"



Lithology and borehole geophysical logs for well 14FF59 (Hwy 316 well), Lawrenceville, Georgia. [frac = fracture]



Structural tadpole plot and downhole camera images for well 14FF59 (Hwy 316 well), Lawrenceville, Georgia.



Flowmeter log from well 14FF59 showing (A) flow in the borehole under artesian flowing conditions, and (B) caliper log showing peaks where the borehole diameter is enlarged at discrete fracture openings in the bedrock. Right-facing arrows indicate flow into borehole, and left-facing arrows indicate flow out from the borehole.

EXPLANATION
 ● Measured flow
 — Interpretation