

WELL SCHEDULE

SITE NAME 13FF23 OTHER IDENTIFIER Baggett WELL NUMBER 335623084014401
 Latitude 33° 56' 22.72" Longitude -84° 1.' 43.98" Ground Elevation 906.2 NGVD 29
 OWNER City of Lawrenceville Casing Elevation 908.04 NGVD 29

WELL CONSTRUCTION DESCRIPTION

Name of Aquifer: metamorphic - crystalline rock

TYPE OF DRILLING

Rotary Total Depth 498
 Percussion Static Water Level (bls)
 Bored -1.3 @

10/31/2001 9:47:00 AM

DRILL HOLE DIAMETER

Size 12 in, from 0 ft to 30 ft
 Size 8 in, from 30 ft to 270 ft
 Size 6 in, from 270 ft to 498 ft

CASING RECORD

Type material steel
 Size 8 in, from 0 ft to 30 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 5/30/2001 8/14/2001

Driller Middle Georgia Water Systems

GROUTING YES NO

Type portland type I

From 0 ft to 30 ft

From ft to ft

From ft to ft

TEST PUMP DATA

Pumped Bailed

Estimated 250 (air-lift yield)

Date tested 9/18/2001 9/21/2001

Pump rated 375 gal/min 25 HP

Test yield 341.8 gal/min After 72 hrs

Water level before test 1.1 ft btoc

Drawdown 66.4 ft

Specific Capacity 5.2 gal/min/ft

Altitudes are in reference to NGVD 29

Latitude/longitude in NAD 83

Depths are in feet below land surface (bls)

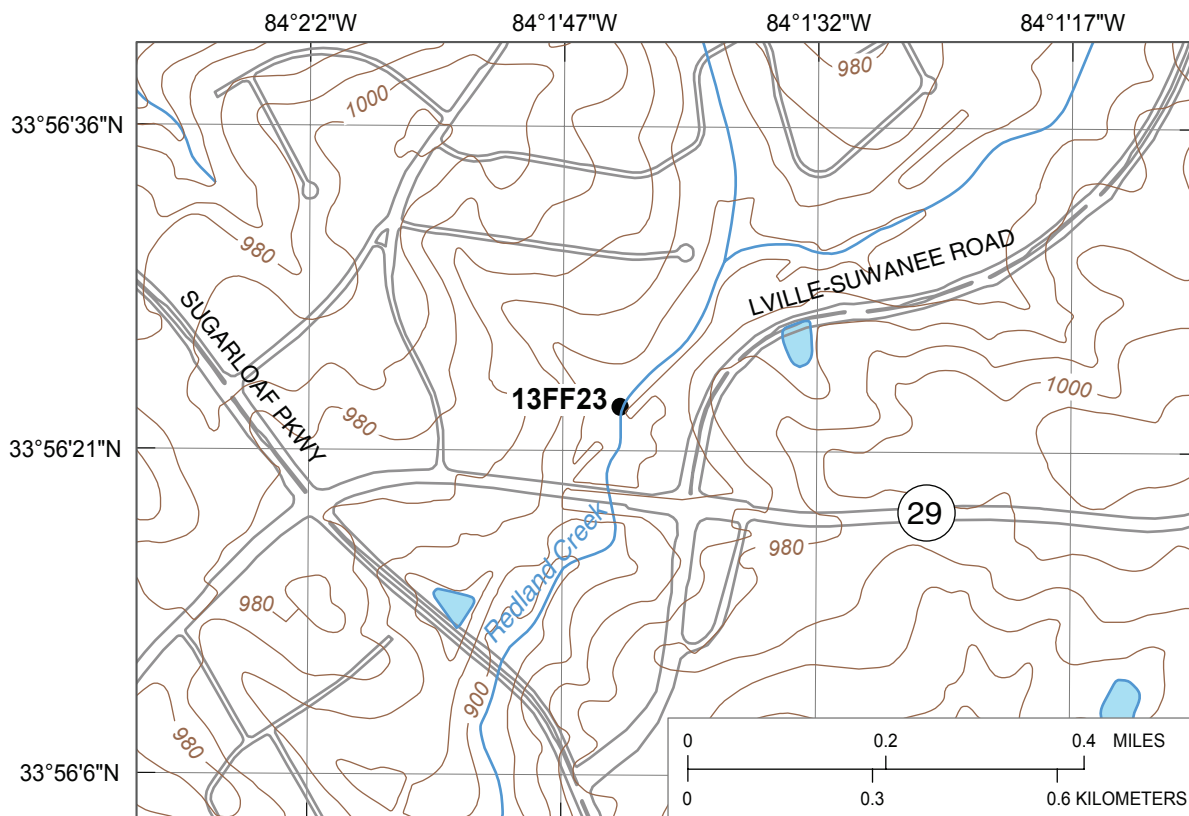
Feet below top of casing (ft btoc)

Comments: Water-bearing fractures at 40-41', 50-51', 77.5-78.5', 82.5-83.5', 101-102', 142-143' 164-165', 179-

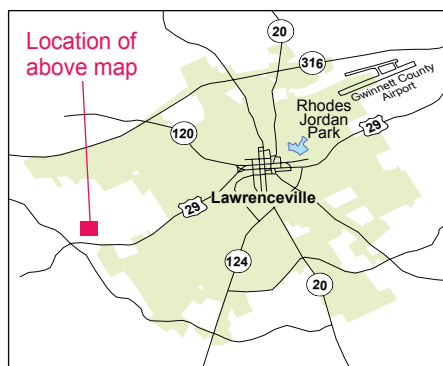
180', 242.75-243.75', 256.5-257.5'; major water-bearing zone is 240-260'; test hole drilled

5/30/01 and logged by D.M. Crilley and L.J. Williams; air-lift yield 250+ gal/min with shallow fractures

exposed in 6-inch borehole; well was reamed and completed 8/14/01



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



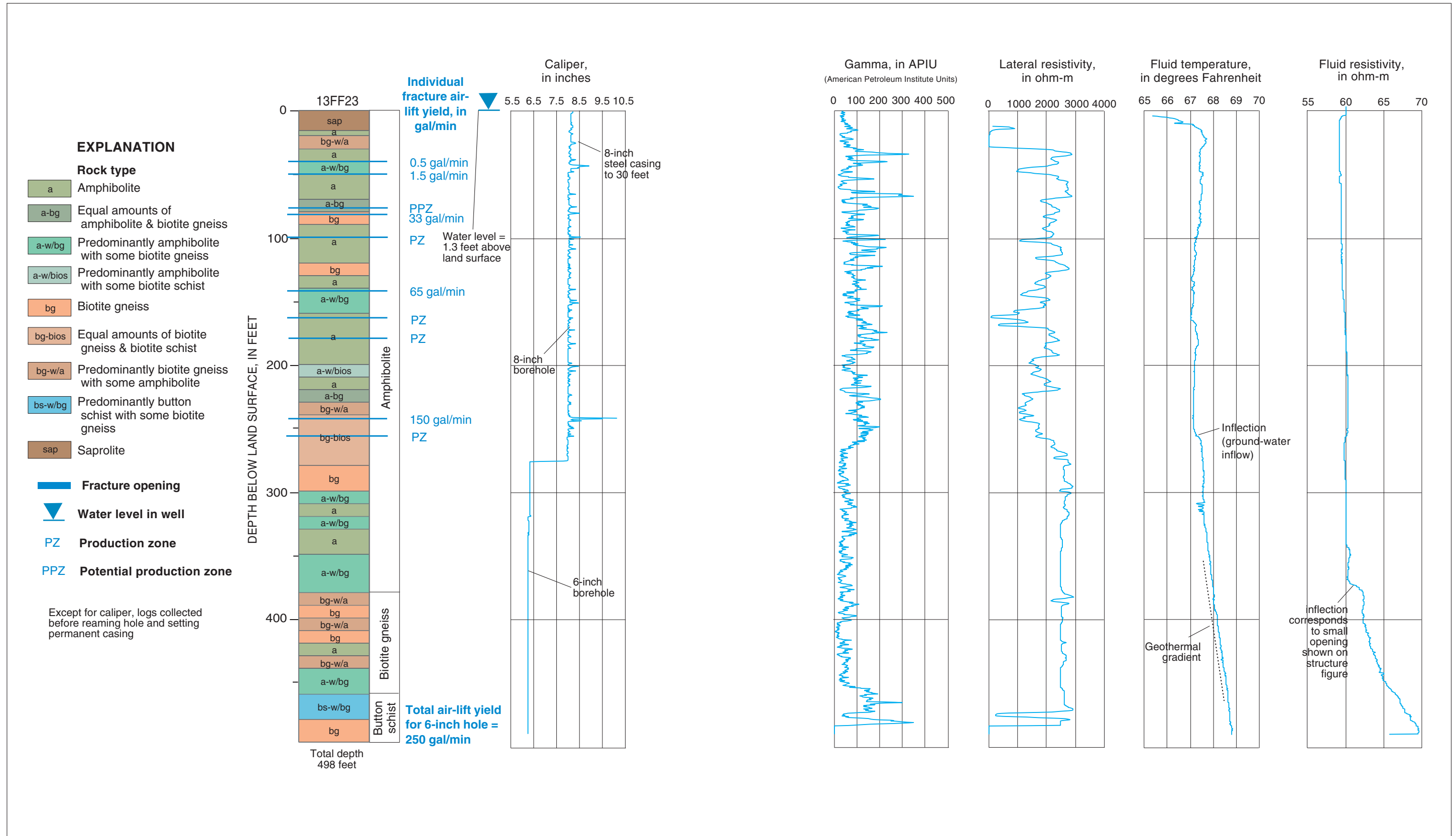
EXPLANATION
13FF23 ● Observation well and site name

Geophysical log files for well 13FF23 [contained on CD in Supplemental_data\log_archive\logs.zip; ft bls, feet below land surface]

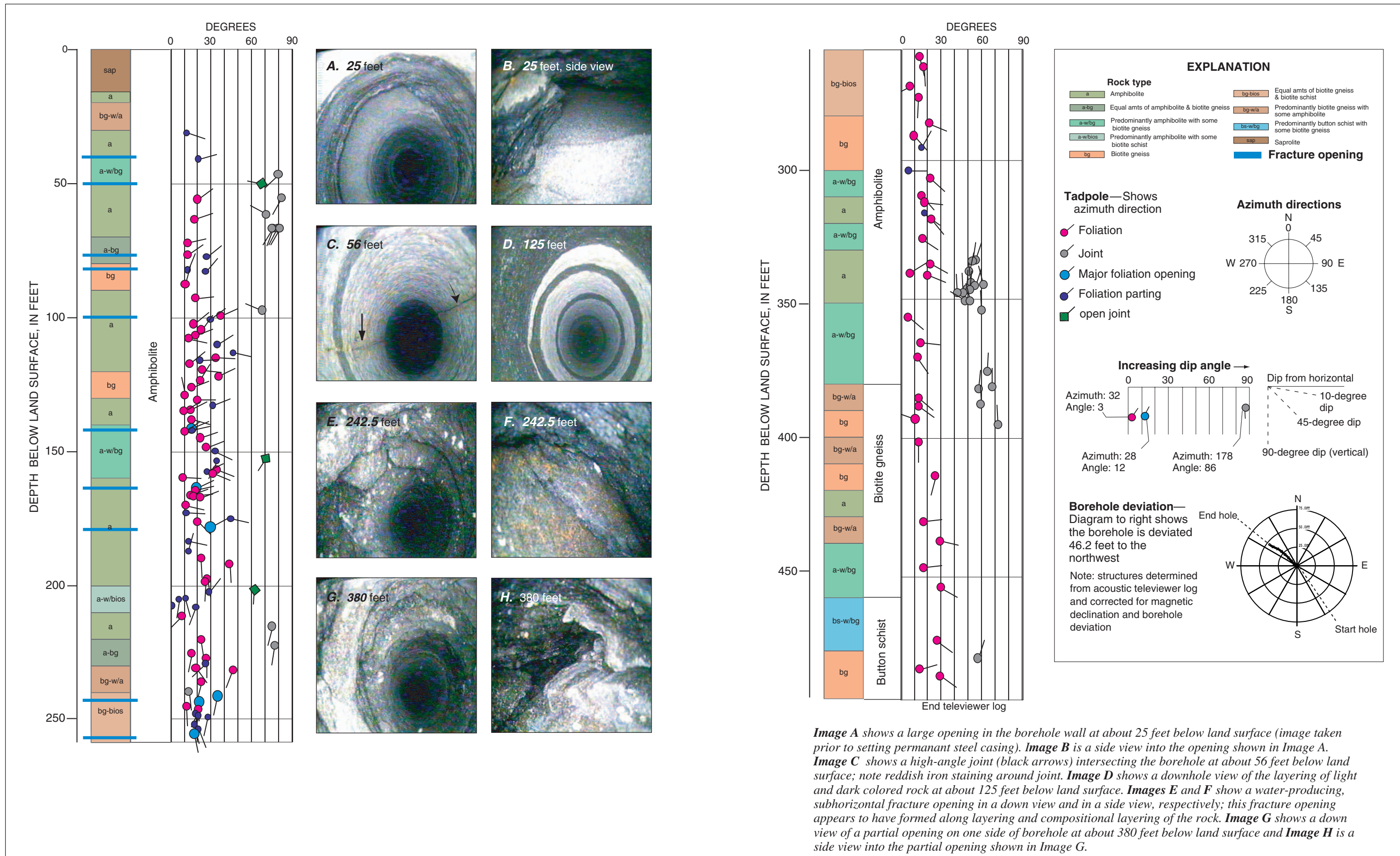
File name	Type	Date	Start depth (ft bls)	Stop depth (ft bls)
13FF23.20010802.ZE01	Combination Tool ¹	08/02/01	-1.1	267.4
13FF23.20011110.AT02	Acoustic Televiewer ²	11/10/01	29.59	277.03
13FF23.20011110.AT01	Acoustic Televiewer ²	11/10/01	275.6	477.12
13FF23.20011110.CT01	Caliper, Three Arm	11/10/01	3.2	491
13FF23.20010802.ZI01	Gamma and EM Induction	08/02/01	-1.1	264.8
13FF23.20011203.FEI01	Interpreted EM Flowmeter	12/03/01	24.3	402.5
13FF23.20011204.FEI01	Interpreted EM Flowmeter	12/04/01	43.12	278.66

¹ Includes gamma, long/short normal resistivity, spontaneous potential, single-point resistance, fluid resistivity, and temperature

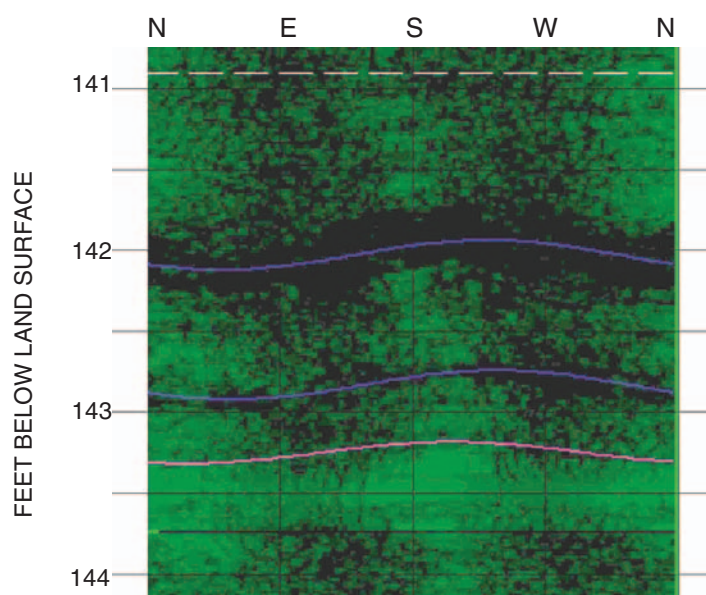
² Does not include trace data, original log is provided in Century binary format under the same file name with extension ".log"



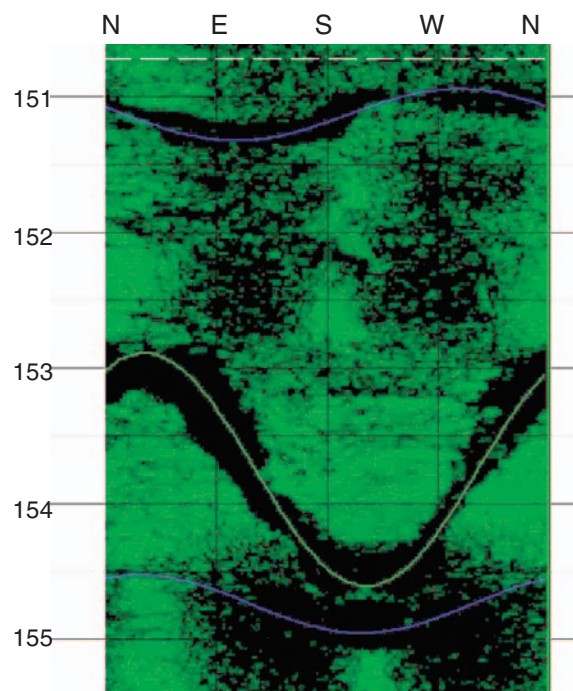
Lithology and borehole geophysical logs for well 13FF23 (Baggett well), Lawrenceville, Georgia.



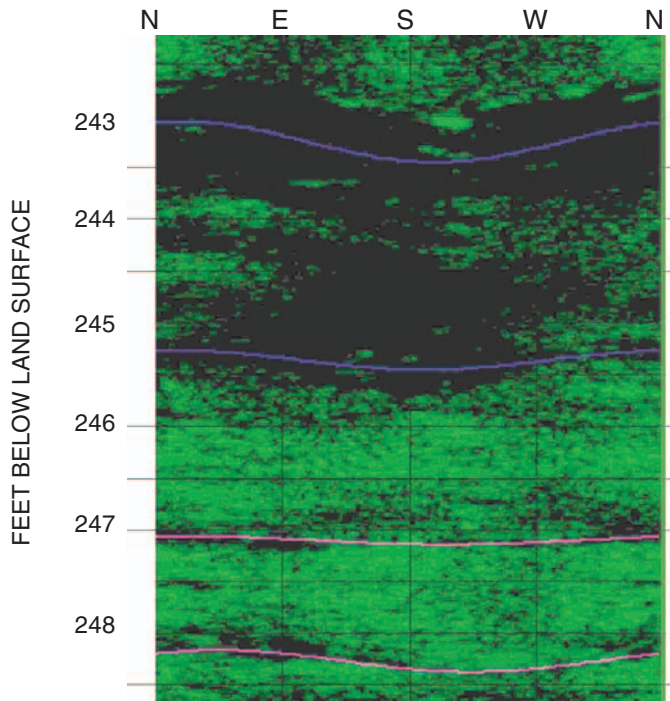
Structural tadpole plot and downhole camera images for well 13FF23 (Baggett well), Lawrenceville, Georgia.



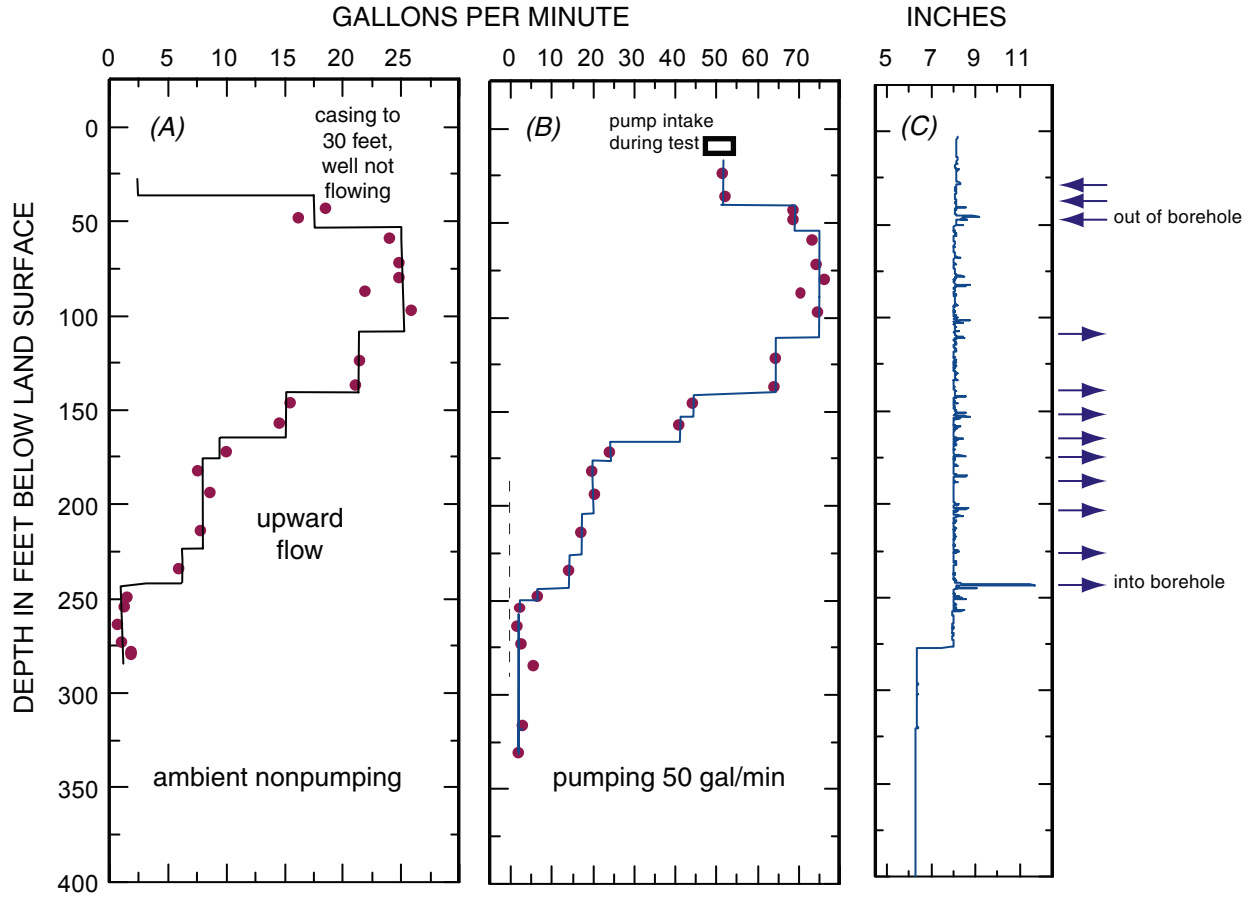
Projected acoustic televiewer image of borehole wall from well 13FF23. Purple line traces rock foliation. Blue lines trace openings formed parallel to foliation and compositional layering. The upper opening has a larger aperture. Gained approximately 65 gal/min in air-lift yield while drilling through this zone.



Projected acoustic televiewer image of borehole wall from well 13FF23. Green line traces an open joint cutting across rock foliation. Blue lines trace small openings formed parallel to foliation and compositional layering.



Projected acoustic televiewer image of borehole wall from well 13FF23. Purple lines trace rock foliation. Blue lines trace openings formed parallel to foliation and compositional layering. Gained approximately 150 gal/min in air-lift yield while drilling through this zone.



Flowmeter logs from well 13FF23 showing (A) flow in borehole under ambient nonpumping conditions, and (B) vertical flow in borehole during pumping 50 gal/min. Caliper log (C) shows peaks where the borehole diameter is enlarged at discrete fracture openings in the bedrock. Right-facing arrow indicates flow into borehole during pumping. Left-facing arrow indicates flow out of borehole. Well is not flowing, flow is assumed zero above 30 feet where casing is set.

EXPLANATION

- Measured flow
- Interpretation