

## WELL SCHEDULE

SITE NAME 13FF20 OTHER IDENTIFIER Hospital WELL NUMBER 335744084011601  
 Latitude 33° 57' 43.95" Longitude -84° 1.' 16.52" Ground Elevation 990.1 NGVD 29  
 OWNER City of Lawrenceville Casing Elevation 992.06 NGVD 29

## WELL CONSTRUCTION DESCRIPTION

Name of Aquifer: metamorphic - crystalline rock

## TYPE OF DRILLING

Rotary Total Depth 455  
 Percussion Static Water Level (bls)  
 Bored 17.05 @  
10/31/2001 11:35:00 AM

## DRILL HOLE DIAMETER

Size 8 in, from 0 ft to 69 ft  
 Size 6 in, from 69 ft to 455 ft  
 Size \_\_\_\_\_ in, from \_\_\_\_\_ ft to \_\_\_\_\_ ft

## CASING RECORD

Type material PVC  
 Size 6 in, from 0 ft to 69 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 3/14/2001 3/14/2001

Driller Middle Georgia Water Systems

GROUTING  YES  NO

Type bentonite

From 0 ft to 69 ft

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

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

## TEST PUMP DATA

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

Estimated 35 (air-lift yield)

Date tested 12/5/2001

Pump rated 40 gal/min 5 HP

Test yield 10.0 gal/min After 6 hrs

Water level before test 19.05 ft btoc

Drawdown 144.55 ft

Specific Capacity 0.1 gal/min/ft

Pumped during EM flow meter test

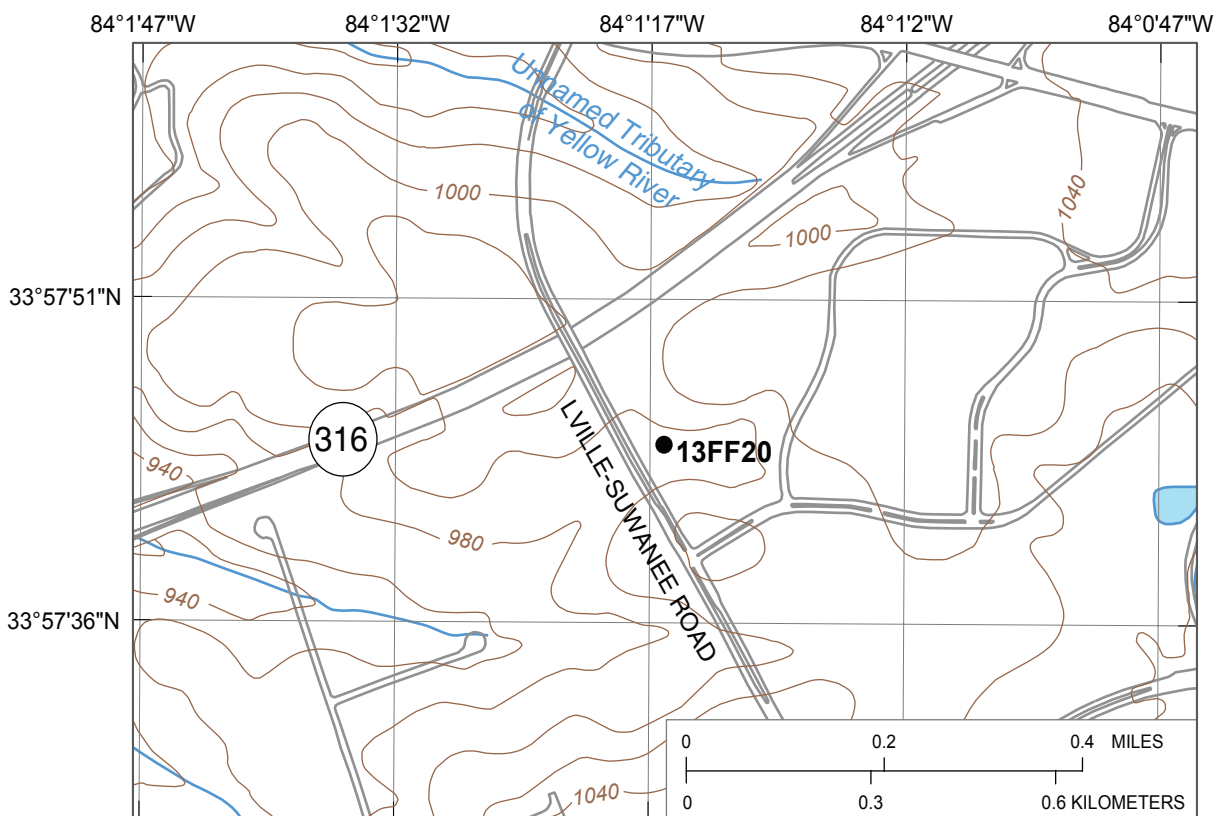
Altitudes are in reference to NGVD 29

Latitude/longitude in NAD 83

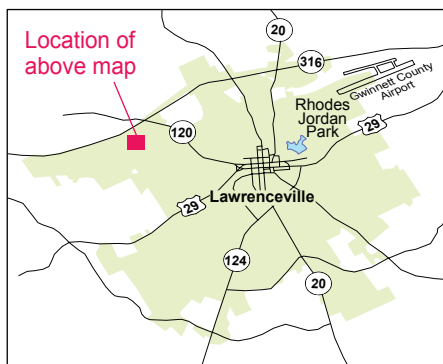
Depths are in feet below land surface (bls)

Feet below top of casing (ft btoc)

Comments: Test hole drilled 3/14/2001 logged by L.J. Williams and D.M. Crilley; gained small amount of  
water at 373.5-374.5' fracture (1 gal/min), main water-bearing fracture at 392.25-393', total air-lift  
yield 35 gal/min



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



#### EXPLANATION

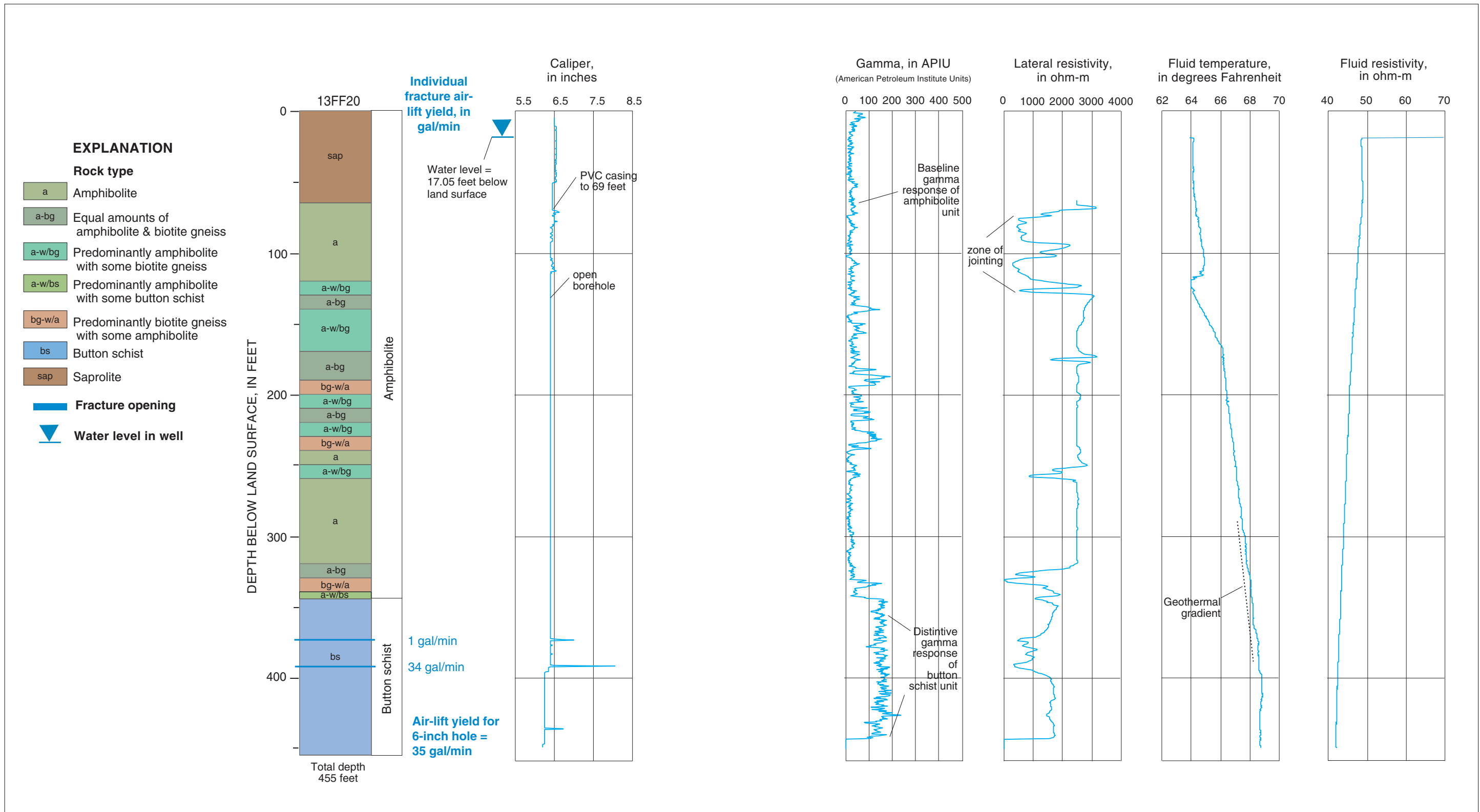
● **13FF20** Observation well and site name

Geophysical log files for well 13FF20 [contained on CD in Supplemental\_data\log\_archive\logs.zip; ft bls, feet below land surface]

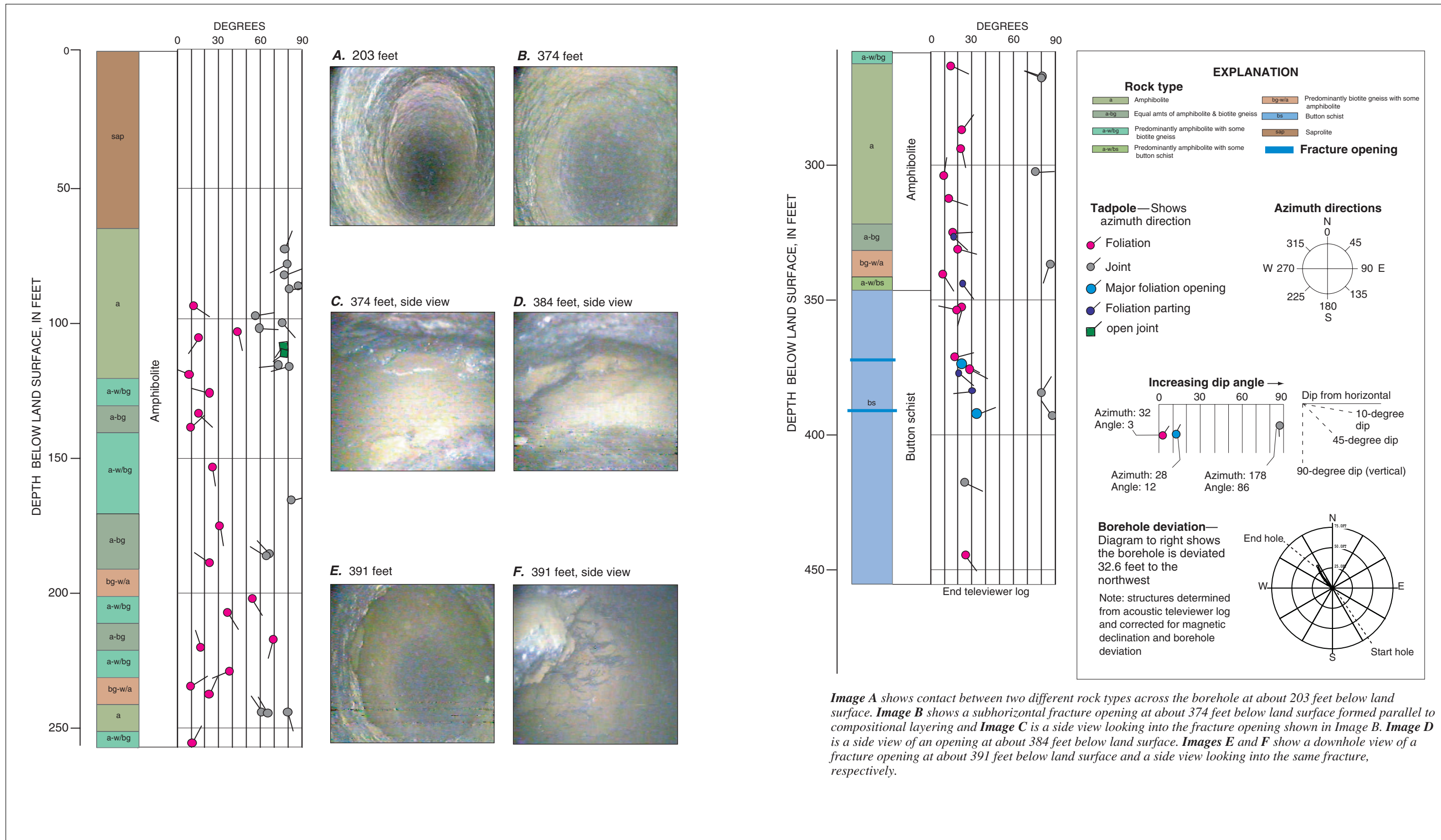
File name	Type	Date	Start depth (ft bls)	Stop depth (ft bls)
13FF20.20010724.ZE01	Combination Tool <sup>1</sup>	07/24/01	-1.7	450.9
13FF20.20010724.ZE02	Combination Tool <sup>1</sup>	07/24/01	-2	451.1
13FF20.20011112.AT01	Acoustic Televiwer <sup>2</sup>	11/12/01	67.6	450.83
13FF20.20010724.CT01	Caliper, Three Arm	07/24/01	2.8	450.9
13FF20.20011205.FE02	Electromagnetic Flowmeter	12/05/01	201.2	443.8
13FF20.20011205.FE01	Electromagnetic Flowmeter	12/05/01	167.6	444.1
13FF20.20010808.FH01	Heat-pulse Flowmeter	8/8/01	107	420
13FF20.20010808.FH02	Heat-pulse Flowmeter	8/8/01	35	420
13FF20.20010724.ZI01	Gamma and EM Induction	07/24/01	-1.6	448.5
13FF20.20011205.FEI01	Interpreted EM Flowmeter	12/5/01	206.3	444

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

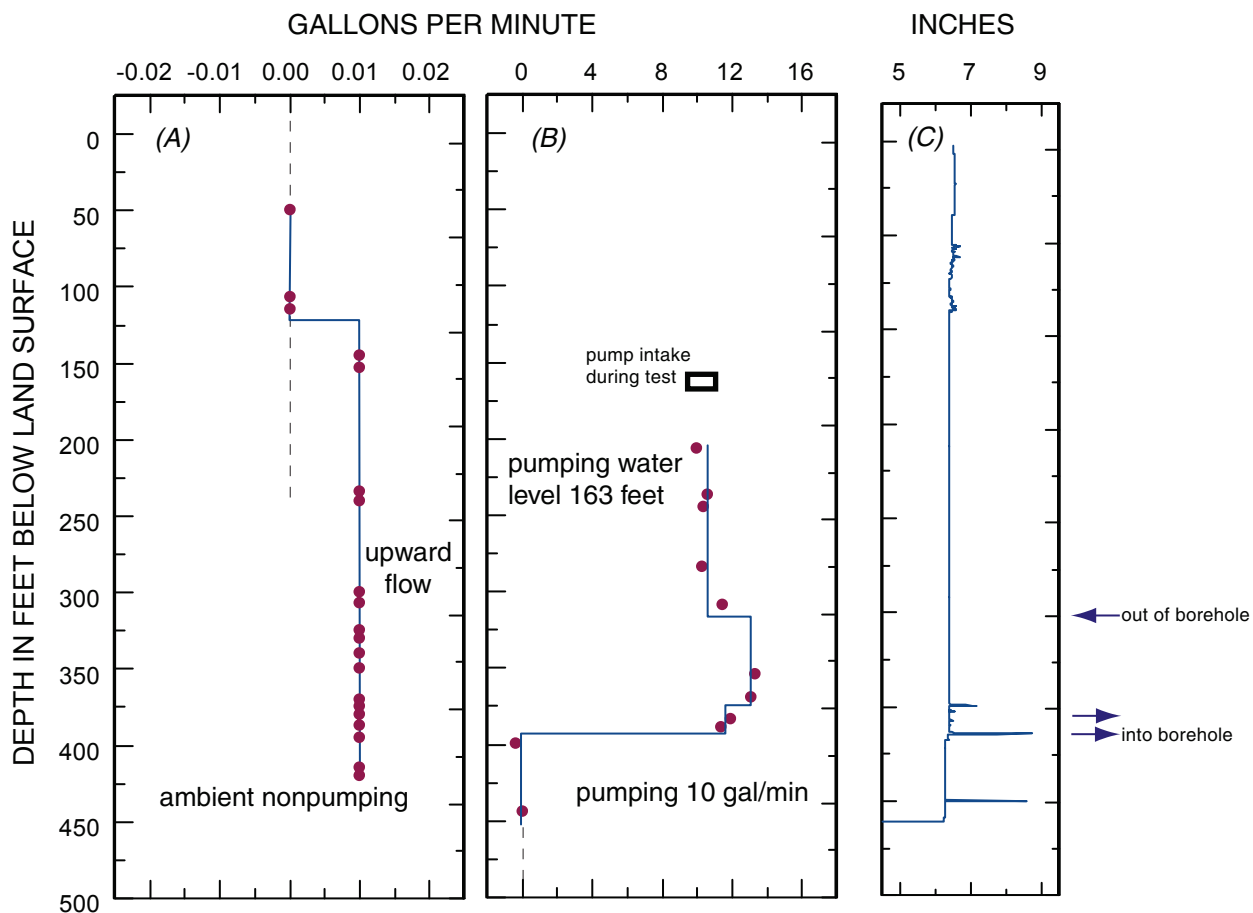
<sup>2/</sup> Does not include trace data, original log is provided in Century binary format under the same file name with extension ".log"



Lithology and borehole geophysical logs for well 13FF20 (Hospital well), Lawrenceville, Georgia.



Structural tadpole plot and downhole camera images for well 13FF20 (Hospital well), Lawrenceville, Georgia.



Flowmeter logs from well 13FF20 showing (A) flow in borehole under ambient nonpumping conditions; left of dashed line indicates downward flow and right of line upward flow; inflection to left near 125 feet appears to indicate a fracture taking on water, and (B) vertical flow in borehole during pumping 10 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 out of borehole during pumping.

#### EXPLANATION

- Measured flow
- Interpretation