

IREDELL COUNTY--Continued

353148080524703. County number, IR-156; DENR Langtree Research Station MW-5D (Bedrock well).

LOCATION.--Lat 35°31'48.13", long 80°52'46.98", North American Datum of 1983, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .3 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Quartz diorite bedrock.

WELL CHARACTERISTICS.--Drilled observation well, depth 400 ft, diameter 6.25 in., cased to 40 ft, open hole from 40 to 400 ft.

INSTRUMENTATION.--Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land surface datum is 784.09 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of steel protective casing, 1.40 ft above land surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water project. Well also sampled for water quality.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.06 ft below land-surface datum, Apr. 24, 2002; lowest water level measured 32.56 ft below land surface datum, Aug. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 04 | 29.82 | JAN 17 | 29.40 | APR 24 | 25.06 | JUL 11 | 28.17 | SEP 17 | 29.48 |
| NOV 14 | 31.30 | FEB 21 | 28.85 | MAY 15 | 26.78 | AUG 13 | 29.45 | | |
| DEC 12 | 30.85 | MAR 22 | 27.80 | JUN 12 | 27.41 | 27 | 32.56 | | |

