

OWNER: Earle and Alice Bradford
DRILLER: R. R. Runyon
COUNTY: Fairfax (Herndon)

VDMR #1315
WWCR #696
TOTAL DEPTH: 165'

GEOLOGIC LOG

- 0-10 Arkose — buff-pink and medium-light-gray, medium-coarse-grained; angular sand; feldspar, quartz, mica, clay; minor red-gray sandy shale.
- 10-20 Shaly Siltstone — medium-dark-gray to red-gray, micaceous; minor fine-grained buff-pink sandstone and arkose as above.
- 20-30 Arkose, Sandstone and Siltstone — buff-pink, medium-coarse-grained arkose; light-gray, buff-pink to dark-red-gray, fine-grained sandstone and siltstone; minor reddish-gray, silty, micaceous shale; trace epidote and specular hematite.
- 30-40 trace slickensides with chlorite and epidote.
- 40-50 Arkose, Sandstone and Siltstone — buff-pink, medium-coarse-grained arkose; light-gray, buff-pink to dark-red-gray, fine-grained sandstone and siltstone; minor reddish-gray, silty, micaceous shale; minor specular hematite and trace epidote.
- 50-60 less hematite.
- 60-70 Shale and Sandstone — dark-red-gray to red-gray shale; red-gray to light-gray, fine-sandstone to siltstone; minor buff-pink arkose; minor specular hematite and epidote.
- 70-80 more arkose.
- 80-90 Arkose and Shaly Siltstone — medium-light-gray to buff-pink, medium- to coarse-grained arkose: feldspar, quartz, mica, clay, and minor epidote and hematite; dark-reddish-gray, slightly fissile micaceous shaly siltstone with knots, and streaks of disseminated hematite.
- 90-100 minor slickensides with chlorite.
- 100-110 Shaly Siltstone — red-gray, slightly fissile with knots, and streaks of disseminated specular hematite; minor gray to buff-pink arkose and sandstone with minor hematite.
- 110-120 Shaly Siltstone — red-gray, slightly fissile with knots, and streaks of disseminated specular hematite; minor gray to buff-pink arkose and sandstone with minor hematite; portion of the arkose has been mylonitized and partially altered to epidote and chlorite with metacrysts of feldspar and hematite; trace vein calcite.

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| 120-130 | Shaly Siltstone — red-gray, slightly fissile with knots, and streaks of disseminated specular hematite; minor gray to buff-pink arkose and sandstone with minor hematite; portion of the arkose has been mylonitized and partially altered to epidote and chlorite with metacrysts of feldspar and hematite; trace vein calcite. |
| 130-140 | " |
| 140-150 | " |
| 150-160 | " |
| 160-165 | No sample. |

GEOLOGIC SUMMARY

| | <u>ROCK UNIT</u> | <u>AGE</u> |
|---------|-------------------------------|------------|
| 0-160 | Blue Run Shale (Newark Group) | Triassic |
| 160-165 | No sample | |

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
February 16, 1966