

INTERVAL SHEET

WWCR 150

Page 1

VDMR Well No: Well No. 1417

Date 11/18/65

Sample Interval: from 0 to 500

PROP: American Tel. & Tel.  
Company Well #1

Total Depth 500

COMP: Falwell Well Corp.

Oil  Gas  Water  Exploratory

COUNTY: Chesterfield (Skinquarter)

Cuttings  Core  Other

VDMR Well No: W-1417

Washed samples

From-To	From-To	From-To	From-To	From-To
-	-	0 - 10	310 - 320	-
-	-	10 - 20	320 - 330	-
-	-	20 - 30	330 - 340	-
-	-	30 - 40	340 - 350	-
-	-	40 - 50	350 - 360	-
-	-	50 - 60	360 - 370	-
-	-	60 - 70	370 - 380	-
-	-	70 - 80	380 - 390	-
-	-	80 - 90	390 - 400	-
-	-	90 - 100	400 - 410	-
-	-	100 - 110	410 - 420	-
-	-	110 - 120	420 - 430	-
-	-	120 - 130	430 - 440	-
-	-	130 - 140	440 - 450	-
-	-	140 - 150	450 - 460	-
-	-	150 - 160	460 - 470	-
-	-	160 - 170	470 - 480	-
-	-	170 - 180	480 - 490	-
-	-	180 - 190	490 - 500	-
-	-	190 - 200	-	-
-	-	200 - 210	-	-
-	-	210 - 220	-	-
-	-	220 - 230	-	-
-	-	230 - 240	-	-
-	-	240 - 250	-	-
-	-	250 - 260	-	-
-	-	260 - 270	-	-
-	-	270 - 290 No sample	-	-
-	-	290 - 300	-	-
-	-	300 - 310	-	-

OWNER: American Telephone & Telegraph Co., Well #1      VDMR #1417  
(Geraghty and Miller, Contractors)      WWCR #150  
DRILLER: Falwell Well Corporation      TOTAL DEPTH: 500'  
COUNTY: Chesterfield (Skinquarter)

GEOLOGIC LOG

Residuuum (0-50')

- 0-10      Residuuum — very light-brown, medium sand to coarse pebbles; quartz; minor feldspar, muscovite and clay.
- 10-20      As above — slightly pink, a few pebbles of fine-grained sandstone.
- 20-30      As above.
- 30-40      As above — minor fragments of biotite-syenite-gneiss.
- 40-50      As above.

Otterdale Sandstone, Newark Group (50-500')

- 50-60      Arkose and Sandy Shale — reddish-brown to very-pale-orange-pink, coarse sand to fine pebbles, angular grained; poorly indurated porous arkose with quartz, plagioclase and alkali feldspar, lithic (granite); fragments, minor muscovite, chlorite and biotite, argillaceous cement; medium-orange-red sandy shale, argillaceous and fissile.
- 60-70      As above.
- 70-80      As above — with fragments of large pebbles.
- 80-90      Arkose — pink to pale-green, coarse sand to pebbles, poorly indurated and porous; microcline, quartz, sodic-plagioclase, muscovite, epidote; minor apatite and biotite.
- 90-100      As above.
- 100-110      As above — more plagioclase; with medium-orange-red, sandy, soft, micaceous shale.
- 110-120      As above — less shale; few pebbles of fine-grained, red-brown and gray quartzite.
- 120-130      As above — more shale.
- 130-140      Shaly Arkose — reddish-brown and pale-green; medium sand to granule size, subangular grains, poor sorting, slightly fissile; quartz, feldspar, mica and lithic grains; abundant argillaceous cement; minor arkose as above.

OWNER: American Telephone & Telegraph Co., Well #1 #1417  
(Geraghty and Miller, Contractors)

- 140-150 Arkose — reddish-brown and pale-green; medium sand to granule size, subangular grains, poor sorting, slightly fissile; quartz, feldspar, mica and lithic grains; abundant argillaceous cement.
- 150-160 Arkose and Sandstone — dirty-pink and pale-green, coarse sand to pebbles poorly indurated, porous arkose; feldspar quartz, mica and lithic grains; reddish-brown to green-gray, medium- to very-coarse-sand, arkosic, micaceous sandstone hard to soft and shaly.
- 160-170 As above.
- 170-180 As above — less arkose.
- 180-190 As above.
- 190-200 As above — vein epidote.
- 200-210 Arkose — pink-tan to red-brown, pebbles to fine sand; quartz, feldspar, mica, chlorite, lithic grains (granite and quartzite and shale) poorly indurated, porous.
- 210-220 As above.
- 220-230 As above.
- 230-240 As above.
- 240-250 As above.
- 250-260 As above.
- 260-270 As above.
- 270-290 No sample.
- 290-300 Arkose — pink to red-brown, medium-sand to gravel size grains; lithic fragments quartz, feldspar, mica, chlorite, (granite and quartzite).
- 300-310 As above — no gravel.
- 310-320 As above.
- 320-330 As above — more red-brown colored arkose.
- 330-340 As above — minor epidote.

OWNER: American Telephone & Telegraph Co., Well #1 #1417  
(Geraghty and Miller, Contractors)

- 340-350 Arkose — pink, coarse-sand to pebbles, moderate argillaceous cement; quartz feldspar, lithic fragments, minor epidote.
- 350-360 As above — with red-brown, sandy, micaceous, fissile shale.
- 360-370 As above — no shale.
- 370-380 As above — trace of shale.
- 380-390 As above.
- 390-400 As above — minor pale-green arkose.
- 400-410 As above — with sandy, micaceous shale.
- 410-420 As above — the shale is almost a sandstone.
- 420-430 Arkose — pink to red-brown, fine-sand to pebbles, the dark portion is finer grained and shaly; arkose poorly indurated, much loose quartz sand.
- 430-440 As above — less shaly arkose; trace fine-grained, gray-green, soft arkose.
- 440-450 As above.
- 450-460 As above — more red-brown arkose and shale and pink arkose, better indurated.
- 460-470 Arkose — pale-pink to light-red-brown, fine-sand to pebbles; porous and poorly indurated; quartz, feldspar, lithic fragments minor mica and epidote; the red-brown portion is finer grained and often very argillaceous.
- 470-480 As above — more red-brown arkose.
- 480-490 As above.
- 490-500 As above — very poorly indurated less red-brown arkose, trace fragments of light-gray, coarse-sand biotite gneiss that appears to have been a hornblende gneiss.

GEOLOGIC SUMMARY

<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-50 Residuum	Recent
50-500 Otterdale Sandstone (Newark Group)	Triassic

Virginia Division of Mineral Resources  
Hollis N. Walker, Geologist  
December 13, 1965