

Georgia Geological Survey well no. 3105

Dodge County, Georgia

Atlanta Gas Light Co., B and L Farms no. 1

TD 4470 feet

Geophysical datum: 302 feet above sea level = ground level; Kelly
bushing 310 feet.

logged by Steve Duncan, West Georgia College. note! This is the
first well ever logged by Duncan. 1976

- 900-910 (or 1000-1010). 90% quartz sand, subangular to sub-round, equant coarse to very coarse
2% quartz sand, subround, equant, very coarse, moderate red 5R7/4
6% siltstone, medium gray N5
2% glauconite; 1% pyrite
- 910-920 (or 1010-1020) 90% quartz sand, subrounded, equant, coarse to very coarse grained
2% quartz sand, moderate red, very coarse
5% medium gray N5 siltstone
2% glauconite; 1% pyrite; fossiliferous
- 920-930 (or 1020-1030) 90% quartz sand, subrounded, equant, coarse to very coarse
2% quartz sand, subrounded, equant, very coarse grained, moderate red
5% siltstone medium gray N5
2% glauconite; 1% pyrite; fossiliferous
- 930-940 (or 1030-1040) As above
- 940-950 (or 1040-1050) As above; pyrite in concretions
- 950-960 (or 1050-1060) 90% quartz sand, subrounded, equant, coarse to very coarse grained
2% moderate red, coarse grained sand
5% siltstone, medium gray N5 and yellowish brown 10YR6/2; small amount of quartz sand in the siltstone, fine to medium grained
2% glauconite; 1% pyrite
- 960-970 (or 1060-1070) 90% quartz sand, subrounded, equant, coarse to very coarse grained
1% quartz sand, moderate red, coarse grained
6% siltstone, 4% medium gray, 2% pale yellowish brown with small amount of fine to medium grained quartz sand
2% glauconite; 1% pyrite; trace of biotite
- 970-980 (or 1080-1090) 90% quartz sand, subrounded, equant, coarse to very coarse grained
2% quartz sand, subrounded, equant, coarse grained and moderate red
5% siltstone, medium gray and pale yellowish brown with a small amount of fine to medium sand
2% glauconite; 1% pyrite; fossils
- 980-990 (or 1080-1090) 90% coarse to very coarse quartz sand
1% moderate red, coarse grained quartz sand
6% siltstone, medium gray and pale yellowish brown
1% phosphate; 1% pyrite; 1% glauconite

- 990-1000 (or 1090-1100) 92% coarse grained quartz sand;
 1% moderate red coarse grained quartz sand
 6% gray and brown siltstone
 1% glauconite and pyrite; trace of mica; fossiliferous
- 1000-1010 85% quartz sand, subrounded, coarse to very coarse
 grained
 3% moderate red, coarse grained quartz sand
 10% siltstone, gray and brown
 1% glauconite; 1% pyrite; trace of mica; fossiliferous
- 1010-1020 92% coarse to very coarse sand
 2% coarse grained, moderate red quartz sand
 4% siltstone, gray and brown
 1% pyrite; 1% mica; fossiliferous
- 1020-1030 88% quartz sand as above
 4% red coarse grained sand as above
 6% siltstone as above
 1% pyrite; 1% glauconite; fossiliferous
- 1030-1040 85% quartz sand, subrounded, equant, coarse to very
 coarse grained
 6% quartz sand, moderate red, coarse and less than
 coarse grained, subrounded, equant
 7% siltstone, medium gray and pale yellowish brown
 1% glauconite; 1% pyrite; fossiliferous
- 1040-1050 65% quartz sand, coarse to very coarse grained
 8% moderate red coarse and less than coarse sand
 35% siltstone, mostly medium gray
 1% pyrite; 1% glauconite; trace of mica
 note: rapid increase in the occurrence of siltstone
 fossiliferous
- 1050-1060 65% coarse to very coarse grained quartz sand
 8% coarse and less than coarse, moderate red quartz sand
 35% siltstone, mostly medium gray
 1% glauconite; 1% pyrite
- 1060-1070 75% coarse to very coarse grained quartz sand
 4% moderate red, coarse and less than coarse sand
 20% siltstone, mostly medium gray
 1% glauconite
 trace of mica and pyrite, fossiliferous
- 1070-1080 As above; shark tooth
- 1080-1090 As above
- 1090-1100 75% coarse to very coarse grained quartz sand
 3% moderate red, coarse to less than coarse quartz sand
 20% siltstone, mostly medium gray
 2% phosphate pebbles, rounded, very coarse to medium
 grained
 fossils; shark tooth

- 1100-1110 75% quartz sand, subrounded, equant, coarse to very coarse grained
3% quartz sand, subrounded, equant, moderate red, coarse and less than coarse grained
20% siltstone, mostly medium gray
1% mica
trace of phosphorite pebbles, increase in fossils
- 1110-1120 55% quartz sand, subround, equant, coarse to very coarse
1% very coarse, moderate red quartz sand
44% siltstone, mostly medium gray
trace of mica; fossiliferous
- 1120-1130 55% very coarse to coarse sand as above
45% siltstone, mostly medium gray
trace of mica; fossiliferous (shark tooth)
- 1130-1140 55% quartz sand, coarse to very coarse
45% siltstone, mostly medium gray
trace of stained quartz sand and mica
fossiliferous
- 1140-1150 65% quartz sand, coarse to very coarse, subrounded
35% siltstone, mostly medium gray
trace of pyrite
fossiliferous
- 1150-1160 65% quartz sand, coarse to very coarse
34% siltstone, medium gray
1% mica
fossiliferous
- 1160-1170 65% quartz sand, coarse to very coarse grained
34% medium gray siltstone
1% mica
trace of glauconite. fossils
- 1170-1180 70% quartz sand, coarse to very coarse
26% siltstone, medium gray, trending toward smaller cementations
4% glauconite
- 1180-1190 75% quartz sand, coarse to very coarse
24% medium gray siltstone
1% glauconite
fossiliferous
- 1190-1200 75% quartz sand, subrounded, equant, coarse to very coarse grained
25% medium gray siltstone
trace of glauconite
fossiliferous
- 1200-1210* 80% quartz sand, subrounded, equant, coarse to very coarse grained
15% siltstone (cave), medium gray
5% glauconite
fossiliferous

- 1210-1220 80% quartz sand as above
 5% glauconite
 10% siltstone (cave), medium gray
 5% siltstone, medium to coarse grained; some in
 quartz concretions
 note! introduction of quartz and siltstone concretions
 fossils are gastropods and forams
- 1220-1230 85% quartz sand as above
 5% glauconite
 5% siltstone cave
 5% siltstone (in quartz sand concretions)
 pelecypods
- 1230-1240 75% quartz sand, medium to coarse grained
 15% siltstone, smaller than very coarse, medium gray
 concreted loosely with quartz and glauconite
 5% siltstone
 5% glauconite
 fossils; calcareous shale (cave) and pelecypod frag-
 ments
- 1240-1250 85% quartz sand as above
 5% siltstone, medium gray, (concretions)
 5% siltstone, medium gray (cave)
 5% glauconite
 fossils--pelecypods and other fragments
- 1250-1260 93% quartz sand as above
 3% siltstone, medium gray, some quartz/siltstone con-
 cretions
 3% glauconite
 1% mica
 fossiliferous--unidentifiable shell fragments
- 1260-1270 87% quartz sand, as above
 4% siltstone, as above in concretions
 5% siltstone, cave
 3% glauconite
 1% mica
 fossils--pelecypod fragments and others
- 1270-1280 86% quartz sand as above
 10% siltstone, some concretions, as above
 1% siltstone, cave
 2% glauconite
 1% mica
 pelecypods
- 1280-1290 87% quartz sand, as above
 10% siltstone, medium gray, concretions
 1% glauconite
 2% mica
 fossiliferous--shell fragments

- 1290-1300 87% quartz sand as above
10% siltstone, medium gray, concretions, coarse to very coarse, plus some cave
1% glauconite
2% mica
fossils--pelecypod shells
- 1300-1400 samples missing
- 1400-1410 93% quartz pebbles, subangular to subround 2-5 mm, equant
7% siltstone, medium gray, some indurated
trace of pyrite
fossils--shark tooth, pelecypods, echinoids
- 1410-1420 93% quartz pebbles
7% siltstone, as above
trace of mica
fossils--shark teeth, shell fragments
- 1420-1430 94% quartz pebbles as above
4% siltstone, medium gray
1% pyrite
trace of limonite
fossils--shell fragments and shark teeth
- 1430-1440 75% quartz sand, coarse to very coarse grained, subrounded, equant
10% quartz pebbles as above
15% siltstone, medium gray
fossils--shark teeth
- 1440-1450 60% coarse to very coarse quartz sand
30% quartz pebbles as above
10% siltstone, medium gray
trace of pyrite
fossils--bryozoa and other fragments *in H?*
- 1450-1460 10% quartz sand, coarse and very coarse
80% quartz pebbles, as above
10% siltstone, medium gray
trace of pyrite and mica
fossil fragments
- 1460-1470 20% quartz sand as above
65% quartz pebbles, as above
14% siltstone, medium gray
1% pyrite
fossil fragments
- 1470-1480 75% quartz sand as above
10% quartz pebbles, 2-3 mm
13% siltstone, medium gray
1% glauconite
1% pyrite
- 1480-1490 80% quartzsand as above
10% quartz pebbles, 2-4 mm
10% siltstone; trace of mica and glauconite

- 1490-1500 88% quartz sand, subrounded, equant, coarse to very coarse grained
5% quartz pebbles, 1-4 mm
5% medium gray siltstone
1% glauconite
1% pyrite
pyritized worm burrows
- 1500-1510 90% quartz sand
2% pyrite
8% medium gray siltstone
trace of glauconite and mica
fossils--shell fragments and pyritized worm burrows
- 1510-1520 90% quartz sand, medium to very coarse grained
2% pyrite
8% medium gray siltstone
pyritized worm burrows
- 1520-1530 90% quartz sand, medium to very coarse grained
2% pyrite
8% siltstone, medium gray
pyritized worm burrows
- 1530-1540 92% medium to coarse grained quartz sand
2% pyrite
6% siltstone, medium gray
trace of mica
pyritized worm burrows
- 1540-1550 92% quartzsand, medium to coarse grained, subrounded
1% pyrite
7% medium gray siltstone
trace of mica
small shell fragments
- 1550-1560 91% quartz sand, coarse to very coarse, subround to subangular
2% pyrite
7% siltstone, medium gray
trace of glauconite and mica
pyritized worm borrows, shell fragments
- 1560-1570 94% quartz sand, as above
5% siltstone, medium gray
1% pyrite
trace of glauconite and mica
shell fragments
- 1570-1580 95% medium to coarse grained quartz sand
2% medium gray siltstone
3% pyrite
trace of mica
pyritized worm burrows and shell fragments

1580-1590	93% quartz sand as above cave--quartz pebbles 6% siltstone, medium gray 1% pyrite trace of mica shell fragments
1590-1600	93% quartz sand, medium to coarse grained, subrounded 5% siltstone, medium gray 1% pyrite 1% mica trace of glauconite pyritized worm burrows
1600-1620	no samples
1620-1630	93% quartz sand, coarse to very coarse grained 6% siltstone, medium gray 1% pyrite shell fragments
1630-1710	no samples
1710-1720	87% quartz sand, subrounded, medium to coarse grained 10% siltstone, medium gray, mostly fissile, some cave 2% pyrite 1% glauconite pyritized worm burrows
1720-1740	no samples
1740-1750 see below	98% quartz sand and pebbles 1-4mm, 1% siltstone, medium gray 1% pyrite trace of mica and glauconite shell fragments
1740-1750 see above	second sample 96% quartz sand, and pebbles, .5-3mm 2% siltstone, medium gray 1% pyrite 1% glauconite shell fragments
1750-1760 see below	87% quartz sand, coarse to very coarse 10% shaly siltstone, 1% glauconite; 1% mica; 1% pyrite
1750-1760 see above	second sample 92% quartz sand, medium grained 6% siltstone, medium gray 1% pyrite; 1% glauconite shell fragments

see above

- 1760-1770 97% quartz sand, medium grained, subrounded
1% siltstone, medium gray
1% mica
1% pyrite
trace of glauconite
- 1770-1780 90% quartz sand, coarse to very coarse grained
3% siltstone, medium gray, fissile
2% pyrite
1% mica
2% mudstone, moderate yellowish brown 10YR5/4
2% glauconite
- 1780-1800 no samples
- 1800-1810 92% quartz sand, very coarse and less than very coarse
4% medium gray siltstone
1% mudstone, moderate yellowish brown
2% glauconite
1% pyrite
phosphate nodule 4x7 mm
- 1810-1820 no sample
- 1820-1830 95% quartz sand, coarse grained
2% medium gray siltstone
1% mica
1% glauconite
1% pyrite
- 1830-1900 no samples
- 1900-1910 85% quartz sand and pebbles, .5-2mm
1% glauconite
14% pyrite
portions of the pyrite in form of pyritized worm burrows
- 1910-1920 90% quartz sand and pebbles, .25-2 mm, broken grains
10% pyrite, portions in the form of concretions with the quartz sand
- 1920-1930 90% quartz sand, coarse to very coarse
1% feldspar
5% mica
4% medium gray siltstone
- 1930-1940 85% quartz sand, coarse to very coarse
8% pyrite, replacement and pyritization
1% mica
1% feldspar-cave
5% pale yellow borwn siltstone

1940-1950	81% coarse to very coarse quartz sand 2% glauconite 5% siltstone, medium gray and pale yellowish brown 10% pyrite 1% mica 1% limonite
1950-1960	88% quartz sand as above 3% glauconite 5% pyrite 4% siltstone
1960-1970	90% quartz sand, coarse grained 2% glauconite 6% pyrite 2% siltstone, pale yellowish brown
1970-1980	92% quartz sand, coarse grained 4% pyrite 3% siltstone, medium gray 1% mica
1980-1990	60% quartz sand, coarse to very coarse, caved pebbles 8% pyrite 2% glauconite 30% siltstone, pale yellowish brown and medium gray, trace of mica and epidote? pyritized worm burrows
1900-2000	48% quartz sand, medium to coarse grained 2% pyrite 50% silty shale, calcareous, medium gray trace of mica
2000-2300	no samples
2300-2310	very small sample 97% quartz sand 2% mica 1% pyrite
2310-2320	82% quartz silt and sand, silt to medium grained 10% silty shale, medium gray 5% pyrite 2% glauconite 1% hematite
2320-2330	85% quartz silt and sand as above 10% silty shale as above 2% pyrite 2% glauconite 1% mica

- 2330-2340 82% quartz sand, medium to very coarse grained
2% pyrite
2% mica
10% silty shale, medium gray
3% hematite, predominantly as cement bonding the quartz grains
1% glauconite
- 2340-2350 cave-hematitic sandstone
87% medium to coarse grained quartz sand
2% hematite in sandstone
2% mica
6% silty shale, medium gray
2% glauconite
1% pyrite
- 2350-2360 cave--hematitic sandstone
86% medium grained quartz sand
2% hematite in sandstone
2% mica
6% silty shale, medium gray
2% glauconite
2% pyrite
- 2360-2370 88% fine to medium grained quartz sand
3% pyrite
cave--hematitic sandstone and quartz
1% mica
2% glauconite
1% hematite (in sandstone)
5% silty shale, medium gray
- 2370-2380 87% quartz sand, fine to coarse grained
3% hematitic sandstone
4% glauconite
2% pyrite
4% silty shale, medium gray
trace of mica
- 2380-2390 89% fine to very coarse grained quartz sand
2% glauconite
2% pyrite
2% mica
3% silty shale, medium gray
2% hematite sandstone
- 2390-2400 93% medium to very coarse grained quartz sand
4% hematitic sandstone
1% mica
1% pyrite
1% glauconite
trace of silty shale, medium gray

2400-2800 no samples

2800-2810 99% granite chips

E log suggests contact with granite at 2760