

Ec 13-5

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Tidewater Associated Oil Company
Delaware City

Driller: Layne-New York

Elevation: About
60 feet

Test Hole #4

<u>Depth</u>	<u>Description</u>
1 - 5	yellow brown silt.
5 - 16	yellow brown silty medium sand.
16 - 18	buff, coarse sand with a little silt and fine sand, some grit. According to driller's log some clay streaks.
18 - 43	buff, medium to coarse sand with some silt and silt balls; few black minerals.
43 - 66	buff, coarse, some fine and medium sand with some silt; few black minerals.
66 -131	<i>Mac</i> dark gray, micaceous sandy silt; the sand is fine grained. If glauconite is present, it is hard to discover because of dark gray color. According to driller's log black wood.
131-136	fine angular to subangular grit to fine gravel, mostly gravel.
136-167	buff fine to medium, clean sand, with glauconite, streaked with dark gray silt; some fine gravel.
167-205	light buff clean, pretty well sorted, fine to medium sand with glauconite; some brown, rounded fine grained quartzballs. According to driller's log a little clay.
205-218	light gray sandy silt; sand is fine.
218-245	white, clean, well sorted fine to medium sand; some glauconite; some brown rounded and subrounded quartz clusters; mica; some grit; yellowish fossilized wood (silicified).
245-263	brown to pinkish-brown silt to very fine sand, probably silty very fine sand.
263-279	white, fine, clean, well sorted sand with brown rounded clusters; some glauconite; some lignite.
279-285	pinkish-brown silty very fine sand; some glauconite.
285-293	white, fine sand with many brown clusters of fine quartz grains; some silt; some glauconite; larger pieces of lignite.

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Tide Water #4

- 293-330 gray, some pinkish-red variegated clay.
- 330-342 white, clean, well sorted, fine sand, with some glauconite; some clusters of grains.
- 342-390 pink-gray variegated clay. According to driller's log some sand and wood.
- 390-412 mixture of white, clean, fine sand and brown, rounded, quartz clusters; some glauconite.
- 412-435 light gray and pink variegated clay.
- 435-475 white and brown medium, clean sand with some grit; some glauconite. According to driller's log also some clay.
- 475-495 white sand, some brown medium to coarse sand, with a little silt; some glauconite; some grit. According to driller's log also clay and wood.
- 495-535 white, clean, medium sand with glauconite, brown clusters, lignite. According to driller's log also clay.
- 535-551 white fine to medium, clean sand with brown clusters, some coarse sand, some glauconite.
- 551-578 same, a little finer.
- 578-598 pinkish-brown silt to clay with some glauconite.
- 598-661 brown rounded clusters of fine grains and white medium to coarse sand; some glauconite; some grit.
- 661-681 white to buff, fine to medium sand, with quite a bit of glauconite; black clay balls; brown rounded clusters of sand.
- 681-694 gray and pinkish-red variegated clay. According to drillers log rock formation.