

GEOLOGIST'S LOG OF WELL I 291
ROGERS RANCH USSC

<u>Depth(feet)</u>	<u>Lithology</u>
0-9	Sand, brownish gray (5 YR 4/1), unlithified, common ironstaining, fine to course sized quartz grains, subrounded, upper 1 foot black, organic rich.
7-14	Clay, greenish gray (5 GY 6/1), unlithified, stiff texture, silty, occasional barnicle fragments.
14-28	Limestone marl, light olive gray (5 Y 6/1), soft to medium sandy limestone with large cemented bivalve section fragments and 30-40% unlithified lime mud of the same, common fine white shell fragments, minor phosphate.
28-41	Marl, as above, but 50-60% unlithified common interbedded land sandstone, similar composition, light olive gray and olive brown (5 YR 5/6), fairly well developed moldic porosity.
41-53	Limestone, yellowish gray (5 Y 7/2) medium hard and unlithified marly to 50', 40-50% quartz sand, fossil molds and casts common minor phosphate.
53-60	Limestone, yellowish gray (5 Y 6/2), medium hard, micrite cement common fine quartz and phosphate sand, good moldic porosity.
60-79	Limestone as above, and light gray (N6), well developed secondary moldic porosity.
79-100	Limestone, sandy, yellowish gray (5 Y 8/1) medium to hard, microcrystalline sparry calcite cement and minor light gray (N6) micritic cement matrix, excellent moldic porosity, becoming calcareous sandstone same composition, and softer with depth.
100-110	Sandstone, light olive gray (5 Y 6/1), soft to very poorly lithified, quartz fine to course sand size grains.
110-120	Sandstone, as above, and clayey sand light olive gray same; occasional hard moldic sandy limestone lenses; basal greenish gray (5 GY 6/2) sandy clay minor shell from 119 feet.

<u>Depth(feet)</u>	<u>Lithology</u>
0-7	Sand, light olive gray, unconsolidated fine to coarse quartz grains, sandy clay lenses, light olive gray with depth.
7-18	Shell marl, white, unconsolidated sandy and light olive gray sandy clay, bivalves, gastropods, barnacles, corals.
18-35	Clay, light olive gray, unconsolidated, sandy, abundant shell as above and oyster fragments.
35-42	Limestone, light olive gray, medium to soft, and shell white and gray, sandy good moldic porosity.
42-55	Limestone marl, light olive gray, similar to above but commonly unlithified.
55-62	Limestone, light olive gray, medium hard, fine quartz and phosphate sand abundant, shell common.
62-130	Limestone, light olive gray to yellowish gray and gray, medium to hard, fine quartz and phosphate sand, fine shell fragments, all common, excellent moldic porosity.
130-138	Limestone, yellowish gray, medium, and soft from 135 feet, common quartz sand minor phosphate, finer moldic porosity than that of above.
138-142	Limestone, yellowish gray, soft to medium, sandy granular texture, commonly friable and loose.

Shaded 17
depth - 18
70