

Oe13-1

Redden State Forest

Geothermal Project Hole

9/12/78

DESCRIPTIVE LOG

Depths from K. B. (approx. 8' above ground).

Descriptive log by DGS.

Bagged samples collected by driller, quality of sample varies.

<u>Depths</u>	<u>Description</u>
135-140	Sand, med. to coarse (Manokin?).
145-150	Sand and gravel, very coarse, cherty.
165-170	Sand, very coarse, less gravel, and silt, gray. Mud circulation problems common.
187-222	easy drilling.
240-241	hard layers.
247-264	relatively hard drilling. Mud circulation problems throughout duration of drilling.
602	1st coring attempt - no recovery.
627	2nd coring attempt, approx. 12' of recovery.
657-687	:returns: gravel with some cse. sand, occasional lignite, easy drilling.
687-717	Cse. gravel (may not be representative - KDW) and silt, clayey, gray, brown, 30', in 6 min.
717-734	silt, gray-brown, with sand, med. to cse.
735	drill string chatters - returns: sand, med. to cse., white.
735-747	silt, clayey, gray-brown, and sand, med. to case., (sand may not be representative). 30' in 8.5 min.
747-777	clay, gray, and sand, fine to cse., lignitic, some shell, glauconitic, some benthonic forams, poorly preserved.

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Oe13-1
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 Page 2

Sept. 12, 1978

<u>Depth</u>	<u>Description</u>
777-807	Sand, med. to cse., clean, white shell material common, with occasional clay balls, gray (30' in 8 min.).
807-837	Sand, med to cse. to about 825' then grading to silt, clayey, gray 825-837. Sand, med. highly glauconitic, quartz, are shell material abundant. Top of Piney Point at about 725'(?). (KDW). Fairly well preserved benthonic forams. (DGS sample).
837-867	Sand, fine, very shelly and glauconitic, well sorted. (30' in 6.5 min.)
867-897	Same as above, (30' in 7 min.).
897-927	Same as above.
927-957	Sand fine, shelly, glauconitic, grading to silt, clayey, dk. gray. (30' in 7 min.).
957-987	Sand, fine to cse, glauconitic, shelly, with silt, clayey, gray.
987-1017	Same, <u>Bottom at 1037'</u> .