



nr 8# 375  
D.P. # 31

March 25, 1954

Laboratory Nos: 8743  
 Locations: Sample #1 - Oil test in Telfair County  
 Sample #2 - Dug well in Telfair County  
 County: Telfair  
 Submitted by: Lieut. H. M. Spurlin, McRae, Georgia

Chemist's Report:

	<u>Sample No. 1</u> <u>Oil test in Telfair Co.</u>	<u>Sample #2</u> <u>Dug well Telfair Co.</u>
Iron .....	Considerable amount	Slight trace only
Chlorides (salt).....	16 parts per million	26 parts per million
Colloidal silica and clay } .....	Trace only	Heavily saturated and cause of milky white appearance

Remarks:

The colloidal silica in sample No. 2 is also admixed with a considerable amount of suspended clay (kaolin). Clarification of this water can probably be accomplished by treatment with suitable chemicals, such as the lime and soda treatment, plus coagulation of the floc with alum, plus sedimentation and subsequent filtration, through a power driven filter press.

I suggest sending or bringing in a gallon sample of the milky water and we will experiment with same and ascertain the suitable chemicals and amounts necessary for clarification.

Hydrocarbon oil (such as crude petroleum) is absent in both samples.

L. H. Turner  
Chief Chemist

t/p