

FIVE CORE SAMPLES FROM AN OIL EXPLORATION WELL

INTRODUCTION

The samples consist of three unmetamorphosed sediments, S-1 (TS 23662) a sandy siltstone, S-2 (TS 23663) a ferruginous conglomerate and S-3 (TS 23664) a laminated siltstone, together with two low grade metamorphic rocks S-4 (TS 23665 and S-5 (TS 23666).

The last two rocks are low grade metamorphics derived from clay-rich mudstones. They contain the mineral assemblage quartz-muscovite-biotite-chlorite and have a very weak cleavage. The spots, composed of aggregates of chlorite surrounded by a rim rich in muscovite resemble the texture found in thermally metamorphosed hornfelses.

Sample: S-1: TS 23662 Core 5 (4478-4489)

Rock Name:

Ferruginous sandy siltstone

Hand Specimen:

A reddish brown (10R 4/3) massive siltstone.

Thin Section:

An optical estimate of the constituents gives the following:

	<u>%</u>
Framework:	
Quartz	40
Mica	2
Opagues	3
Matrix:	
Clay	10
Iron oxide	35

The rock consists mainly of a poorly sorted framework of quartz and rock fragments in a fine-grained ferruginous matrix.