

STANDARD OIL COMPANY
KIRKPATRICK #1

Sec. 6, T-4-S, R-21-E

Core Descriptions

- CORE #1 2737-2756'. Rec. 19' tuff, pale forest green when wet to creamy gray green when dry, firm to very firm, soapy and very clayey when wet but very slightly gritty, brittle and very difficultly scratched by fingernail when dry, compact, uniform, non-calcareous. Consists of fine to coarse sand size, sub-angular to rounded grains of dark gray basalt and occasional other rock fragments, with very abundant, similar sizes, angular to sharp fragments of clear glass, slightly altered pumice, and green devitrified glass? in creamy green matrix. Dips 10°-13°.
- CORE #2 4405-4422'. Rec. 17' tuff, light gray to green, soft but with several hard calcareous streaks, abundant altered glass and pumice fragments in a very clayey matrix. Rare tiny calcite filled fractures. No shows. Extremely questionable dips of 0°-13°.
- CORE #3 5409-5429'. Rec. 20' tuff to tuffaceous claystone, dark reddish brown to dark blue gray and dirty medium greenish gray to light cream gray, firm and soapy to predominantly blocky and crumbly. The top 6' consists of light gray to medium gray, possibly slightly siliceous, thinly bedded, very bentonitic claystone showing common black carbonaceous parting and plant fragments. The lower portion of core consists of dark red and blue gray to green claystone which retain some altered remnants of their tuffaceous nature but are generally rather mottled, blocky to splintery and more typically claystone than tuffs. Several small pods and very thin (2") streaks of rather coarse waterlain tuffs to near greywacke are scattered through these lower "claystones". The "greywacke" zones consist of fine to coarse sand size, angular to rounded glass, basalt and other rock fragments in a very clayey matrix. Good dips 0°-5°. No shows.
- CORE #4 6542-6545'. Rec. 3' tuff, light creamy pale greenish gray to cream white, very firm to hard and apparently rather siliceous, compact, homogenous and clayey smooth to micro-crystalline texture, with common minute calcite filled fractures. No shows.
- CORE #5 6846-6856'. Rec. 5' subgraywacke sandstone, medium to dark gray, very hard, dense, fine to coarse sand size grains in very dirty silty matrix. Interbedded with shaley siltstone, dark gray, carbonaceous. Fracturing is common but apparently all openings are completely calcite filled. No shows. Fair dips of 40°-45°.
- CORE #6 7177-7184'. Rec. 7'. Shaley siltstone as in Core #5, but locally grading to very shaley texture with no fissility. Abundant fracturing and minor displacements as in Core #5. No shows. Good dips of 10°-12°.
- CORE #7 7647-7653'. Rec. 3½'. Argillitic shale with intrabedded dirty silty sandstone. Very similar in all details to cores 5 and 6. Common fracturing as cores 5 and 6. No shows. Good dips of 35°-40°.

CORE #8 8220-8221'. No Recovery.

CORE #9 8268-8278'. Rec. 5'. Siliceous tuff (similar to Core #4), chalk white to cream, hard, micro-textured, locally slightly calcareous, homogenous with no apparent bedding. Several recemented fracture planes have rare tiny dark brown spots of staining which yield a yellow fluorescent cut in CCl_4 .

CORE #10 8385-8393'. Rec. 4'. Argillitic shale with thin, slightly calcareous, dirty, fine sandstone intrabeds, very similar in all details to Core #7, except only slightly fractured. No shows. Good dips of 10° - 15° .