

REPORT OF CABLE TOOL SAMPLES AND CORES

Kansas Oil Company

Froelich "A" No. 2

SW 1/4 Sec. 34, T. 12 S., R. 16 W., Ellis County, Kansas.

Elevation: 2048' Kansas Bench Mark. Total Depth 3524 1/2'

Depth

Description of Formation

3510 - 12: Cement with little oxidized, mostly quartz sand grains.

Core No. 1: 3512 - 15: Solid cement.
3512 - 13: Solid cement.
3512 - 15: Light gray, fine crystalline, with little low medium crystalline, very slightly cherty dolomite, mostly tight with oil in fractures and estimated 35% with fine porosity and little spotted good porosity with oil saturation.

Core No. 2: 3515 - 16: Light gray very fine crystalline hard dolomite with some pyrite and very little spotted fine porosity and very light oil stain.

3516 - 17 1/2: Light gray, very fine crystalline dolomite with some good spotted saturation. Estimated 65% of dolomite fragments have very low porosity with oil stain and 35% with fair porosity and good saturation; most of oil appears to have been in fractures, some across bedding.

3517 1/2 - 18: Light gray, fine crystalline dolomite with chert nodules surrounded by good porosity with oil saturation; bulk of dolomite tight with very little visible porosity or stain.

3518: Oil fill up 800' in 1 1/2 hours.
Oil fill up 900' in 4 hours.
Oil fill up 1,000' in 8 1/2 hours.

Core No. 3: 3518 - 21 1/2: Oil stained, finely drilled, fine and low medium crystalline dolomite with some visible porous material, loosely held together with "rock flour" and oil.

3519 1/2 - 20 1/2: Light gray, very fine crystalline tight dolomite with very light visible porosity and practically no oil stain.

3520 1/2 - 21 1/2: Light gray, fine crystalline with very little low medium, slightly cherty dolomite mostly tight with very little porosity and stain, but few fragments with much vugular porosity and porosity parallel to bedding planes with good spotted oil saturation.

Core No. 4: 3521 1/2 - 22 1/2: Light gray, fine crystalline cherty dolomite with very little visible porosity and oil stain, 70% and estimated 30% with spotted porosity with oil saturation; also some oil saturation in fractures.

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3522 - 22½: Light gray, fine crystalline, slightly cherty dolomite mainly tight but with estimated ¼ of spotted fine vugular porosity with oil saturation.

Core No. 5: 3522½ - 24½:

3522½ - 23½: Light gray, fine crystalline dolomite mostly tight with and barren but with estimated 10% of rock with spotted fine vugular porosity with oil saturation.

3523½ - 24½: (Total depth) Light gray, fine crystalline, very hard dolomite with practically no visible inter-crystalline porosity or oil; estimated less than 5% of rock has porosity along fractures, both parallel and transverse to bedding with brown live oil saturation.

Total Depth: 3524½'

Sample examined A.M. Thursday, November 16, 1950.

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