

36-175-12W

Property of
Kansas Geological Society
540 Petroleum Bldg.
Wichita, Kansas

SHELL OIL COMPANY, INC.
STUEDER "B" NO. 1
NW NW SE SECTION 36-175-12W
BARTON COUNTY, KANSAS

SAMPLE ANALYSIS

<u>FROM</u>	<u>TO</u>		
2970		BASE SHAWNEE GROUP	OWLL
2970	2978	SHALE:	Pale green silky
2978	2980	SAND:	Fine, angular to subangular, argillaceous, coarsely micaceous
2980	2983	SHALE:	Pale green silky with thin sand lentils as above
2983	3000	SAND:	Fine to medium, angular to subangular, tightly cemented, argillaceous, micaceous
3000	3033	SHALE:	Medium gray-green blocky with thin sand lentils as above
3033	3040	LIME:	Brown to gray, dense ("Brown lime")
3040	3045	SHALE:	Pale green waxy plastic to gray-green blocky
3045			TOP LANSING-KANSAS CITY GROUPS (Schlumberger top 3046)
3045	3070	LIME:	Cream chalky to finely xln; occasional colite cavities; cream vitreous opaque chert; fair porosity; faint spotted oil stains in first ten feet (not commercial)
3070	3075	SHALE:	Gray-green blocky
3075	3080	LIME:	Cream finely xln; some gray algal fragments
3080	3090	LIME:	Cream chalky; thin band of green shale at base
3090	3102	LIME:	Cream finely xln; some large colite cavities; fair to good porosity; faint oil stain (non-commercial)
3102	3107	SHALE:	Gray-green blocky
3107	3115	LIME:	Gray-buff to buff, dense to microcrystalline; faintly outlined coarse brown to gray colites

<u>FROM</u>	<u>TO</u>	
3115	Circ. 1½ hrs.	LIME: Cream chalky, profusely but finely oolitic to metaoolitic; a little cream vitreous chert; good porosity; fair odor; faint spotted oil stain (non-commercial)
3115	3120	LIME: As above, becoming darker in color, less porous and more coarsely oolitic near base; oolites are dark gray; poor porosity
3120	3129	LIME: Cream to buff, chalky to finely xln; some coarsely oolitic fragments; fair porosity
3129	Circ. 1½ hrs.	LIME: Cream to buff, sucrose, coarsely metaoolitic, dolomitic; very good over-all porosity; fair odor (may be derived from overlying shows of oil); occasional faintly oil-stained fragments (non-commercial show)
3129	3135	LIME: As above; occasional well-saturated fragments; fair odor
3135	Circ. 1½ hrs.	LIME: As above; no visible oil stain
3135	3150	LIME: As above; some intercalated cream to buff dense lime
3150	3155	SHALE: Gray-green finely laminated
3155	3170	LIME: Cream to light buff dense to chalky
3170	3175	SHALE: Gray-green blocky
3175	3192	LIME: Cream to light buff, sucrose, dolomitic; coarsely metaoolitic in part
3192	3195	LIME: Gray to buff finely xln
3195	3200	LIME: Cream finely xln coarsely metaoolitic; good porosity; slight odor; faint oil stains (non-commercial)
3200	3214	LIME: Cream chalky to finely xln, coarsely and profusely metaoolitic; excellent porosity; fair odor in fresh cuttings; very faint spotted ("scattered") oil staining with occasional well-saturated fragments (Oil show is probably non-commercial)

<u>FROM</u>	<u>TO</u>	
3214	3226	LIME: As above; considerable asphaltic residue ("dead" oil) in oolite cavities with a little "live" oil stain; many fragments appear to be somewhat leached, possibly indicative of a water-bearing zone. (Non-commercial oil show)
3226	3230	SHALE: Gray-green blocky
3230	3246	LIME: Cream dense to finely xln; coarsely metaoolitic
3246	3250	SHALE: Gray-green blocky
3250	3265	LIME: Cream finely xln
3265	3280	LIME: Cream finely xln coarsely oolitic to metaoolitic; several thin intercalations of gray-green blocky shale
3280	3309	LIME: Cream to light gray finely xln; included flesh-pink vitreous chert; included coarse rounded sand grains in basal three or four feet
3309		TOP SOOY CONGLOMERATE
3309	3354	CONGLOMERATE: Limestone pebbles (first ten feet, only) and red and yellow jasperoid chert in matrix of maroon plastic sandy shale
3354		TOP ARBUCKLE DOLOMITE (Schlumberger 3355)
3354	3377	DOLOMITE: Leached bone-white (predominant) to cream coarsely xln; minor amount of white vitreous chert with occasional oolites. Fragments have a "watery" appearance; no oil stains. A few thin stringers of pale green plastic shale and mudstone.
3377	3382	CORED - recovered 3 feet Core consists of 6 inches of cream coarsely xln slightly argillaceous dolomite with one band of pale green mudstone near center; 2½ feet cream to bone-white coarsely xln dolomite with numerous vugs. Excellent vugular porosity. No trace of oil or gas; pronounced salty taste.
3382		TOTAL DEPTH (3384 Schlumberger)

T. C. Helms