

FRANK M. BROOKS  
 PETROLEUM GEOLOGIST  
 809 CENTRAL BUILDING  
 WICHITA 2, KANSAS

July 6, 1948

La Mar Hunt Est.  
 1107 City Bank Building  
 Shreveport, Louisiana

Re: No. 1 Petracek  
 ONE NE 14-4S-27W  
 Decatur County, Kansas  
 Elevation: 2594 Derrick Floor

Gentlemen:

Drilling of the No. 1 Petracek was witnessed from 3150 to 4020 total depth. Samples were examined at the well from 3150 to the total depth.

Following are the formation tops plus descriptions of porous zones encountered within the Topeka, Lansing-Kansas City and Arbuckle formations. All depths are measurements from the rotary bushing. To correct to derrick floor measurements are upward correction of 2 ft. should be made.

- Soft Zone 3235-40 - very fossiliferous limestone with poor to good porosity and good stain and saturation. Zone tested by Halliburton Drill Stem test 3235-63; open 20 minutes and recovered 180 ft. mud
- Top Topeka Lime 3275
- Topeka Zone 3280-3305 - fossiliferous and oolitic to oolitic lime Spotted live stain and saturation, 40 to 50% of porosity barren, zone partially water bearing
- 3518 Top Heebner Shale 3442
- Top Lansing lime 3471 (-377)
- Zone I - 3471-88 Scattered stain in thin oolitic lime beds with poor porosity. Non commercial
- Zone II 3490-3515 Rather tight limestone containing small oolites. Poor porosity with no showing or odor
- Zone III 3558-64 Fine grained slightly fossiliferous lime with poor porosity. Trace of very spotted heavy stain. Non-commercial
- Zone IV 3574-92 Fossiliferous and slightly oolitic to oolitic lime containing good staining and saturation with poor to good interstitial porosity. Zone tested by Halliburton Drill stem test 3573-92, open 20 minutes; recovered 8 ft. mud
- Zone IVA 3592-3601 Spotted stain in poor vugular porosity. Is continuation of Soft Zone IV
- Zone V 3635-42 Fossiliferous and slightly oolitic and oolitic lime with fair to good porosity. Good showing of free oil in wet sample, no odor. Zone tested by drill stem test 3634-44, open 1 hour, and recovered 88 ft. mud and water
- Base Kansas City 3686
- 3721-29 Trace light to dead oil stain in slightly fossiliferous lime, Poor porosity
- 3741-50 Scattered and spotted stain in dense to slightly algal lime, Non-commercial
- Weathered Granite 3926-43 Gray feldspars medium to coarse quartz fragments with black hornblende like material

3558  
 2594 KB  
 -963

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Pennsylvanian Conglomerate 3943 Red, gray and yellow shale, fine grained sand and small amounts of vari-colored cherts

Top Arbuckle 3988 (-1394) Red to gray finely crystalline dolomite with some interstitial red shale

3986  
 2594  
 -1392

4015-20 Med. rounded sand with glauconite and some dolomite as above. This zone is thought to be lower Arbuckle (Cambrian) in age.

Total Depth 4020

Schlumberger electrical log was made of the hole with detail logging from 3150 to the total depth. No zones with commercial oil possibilities were noted and formation tops checked closely.

The No. 1 Petrcek on top of the Lansing is:

17 ft. higher NW/C 35-3S-27W dry hole  
 79 ft. Higher NE NW SW 3-4S-27W Dry hole  
 10 ft. lower SE SW SE 36-4S-27W Dry hole

On top of the Arbuckle it is:

32 ft. lower NW/C 35-3S-27W  
 9 ft. lower NE NW SW 3-4S-27W  
 91 ft. lower SE SW SE 36-4S-27W

Yours very truly,

*Frank M. Brooks*

Frank M. Brooks

FMB:me