

Geological Report

Baker #SCZ-47
SE-NW-SE-NW, Sec. 26, T18S, R22E
1815' FNL & 1815' FWL
Miami County, KS
API #15-121-30519-00-00

Operator: SCZ Resources LLC, Jorge Ranz, 8614 Cedarspur Drive, Houston, TX, 77055

Drilling Contractor: JTC Oil Inc.

Well Site Geologist: Mark Brecheisen

Date Drilled: August 13th, 2014

Size of Hole: 6"

Total Depth: 420'

Elevation: 957' (estimated)

Drilling Fluid: Compressed air with fresh water injection

Surface casing: 20' of 7" casing cemented with 3 sacks of cement to surface

Formation Tops: Formation tops have not been correlated to electric logs

Field Name: Paola-Rantoul

Status: Oil Well

Oil Shows: Hepler Sandstone @ 291'-295.5'
Peru Sandstone @ 320'-340'

Water Encountered: No appreciable water encountered while drilling.

On Location: August 13th, 2014, 7:20 AM. Drilling depth of 195'; left location @ TD 420' @ approximately 8:32 AM.

Notes: Well cuttings were examined at rig and discarded. Samples of zones of interest were saved and examined with binocular microscope and UV light.

Top of the Hepler Sandstone @ 291'

291'-295.5' Sandstone; light gray to dark brown. Mottled. Very fine-grained. Very well-sorted with angular to subrounded grains. Very micaceous. Very argillaceous. Fairly hard. Friability overall good, with vugular porosity observed on few sample surfaces, with free oil show around some vugular pores. Mottled, dark brown oil staining on sample surfaces. Saturation overall fair to good. Sample had an excellent petroliferous odor. Excellent free oil show to sample surfaces; fair to good free oil show to pit. 40-45% mottled, variegated yellow hydrocarbon fluorescence.

Top of the Peru Sandstone @ 320'

320'-324' Sandstone; light gray to very light brown. "Sugar sand" section. Mottled in part. Very fine to fine-grained. Well-sorted with angular to subrounded grains. Slightly micaceous. Glauconitic. Slightly argillaceous in part. Overall, extremely clean; poorly-cemented grainstone. Friability overall excellent, with abundant vugular porosity observed on sample surfaces. Mottled to mostly even, very light to light brown oil staining on sample surfaces. Saturation overall poor. Sample had a very slight petroliferous odor. No free oil show to sample surfaces; very slight free oil show to pit. 80% slightly mottled to even, medium yellow hydrocarbon fluorescence.

324'-328' Sandstone; light gray to medium brown. Mottled. Very fine to fine-grained. Well-sorted with angular to subrounded grains. Slightly micaceous. Glauconitic. Calcareous and argillaceous in part, with traces of light gray, non-porous, interbedded limestone present. Friability overall good, with vugular porosity observed on some sample surfaces. Saturation overall fair. 325'-326' had a very good petroliferous odor. Good free oil show to sample surfaces and to pit. 40% even, medium-bright yellow hydrocarbon fluorescence.

Note: Visible evidence of water passing through this footage from previous water flooding attempts. This well should not be perforated above 326'

328'-332' Sandstone; light gray to medium brown. Mottled. Very fine to fine-grained. Well-sorted with angular to subrounded grains. Slightly micaceous. Glauconitic. Argillaceous. Very laminated. Poor-quality sandstone. Friability overall fair, with no vugular porosity present in sample. Mottled, medium to medium-dark brown oil staining on sample surfaces. Saturation overall poor to fair. Sample had a good petroliferous odor. Fair free oil show to sample surfaces and to pit. 30-35% mottled to even, variegated yellow hydrocarbon fluorescence.

- 332'-336' Sandstone; medium to medium-dark brown. Mottled. Very fine to fine-grained. Well-sorted with angular to subrounded grains. Slightly micaceous. Glauconitic. Very calcareous, with traces of light gray, non-porous, interbedded limestone present in sample. Friability overall poor to fair, with vugular porosity observed on few sample surfaces. Mottled, medium-dark brown oil staining on some sample surfaces. Saturation overall poor to fair. Sample had a good petroliferous odor. Strong free oil show to sample surfaces; good free oil show to pit. 40% mottled to even, variegated yellow hydrocarbon fluorescence.
- 336'-340' Sandstone; light gray to dark brown. Mottled. Very fine to fine-grained. Well-sorted with angular to subrounded grains. Slightly micaceous. Glauconitic. Calcareous in part. Argillaceous. Hard. Friability overall fair to good, with abundant vugular porosity on calcareous sandstone sample surfaces. Mostly mottled to even, medium-dark to dark brown oil staining on sample surfaces. Saturation overall fair to good. Sample had an excellent petroliferous odor. Very good free oil show to sample surfaces and to pit. 45% mottled to even, variegated yellow hydrocarbon fluorescence.

TD 420' @ approximately 8:32 AM, August 13th, 2014

A handwritten signature in cursive script, reading "Mark D. Brechisen Sr.", written in dark ink on a light-colored background.