Geological Report

Hammond E. #39-18 2140' FNL; 1440' FEL Sec. 8, T24S, R16E Woodson County, Kansas 7/6/2018

Operator: Petroleum Resource Management Company

675 Bering Dr.

Houston, Texas 77057

Drilling Contractor: Leis Oil Services, Matt Leis, driller

Well-site Geologist: Julie Shaffer

480 Fox Rd

Toronto, Kansas 66777

Dates Drilled: June 28, 2018

Size Hole: 5 7/8"

Total Depth: 1102'

Elevation: 1054' (est.)

Drilling Fluid: Mud

Surface Casing: 42' of 7"

Electric Logs Run: CDL-CNL-DIL-TEMP.

Formation Tops: Formation tops were picked in the field and taken from sample bags

Rock Color Desc.: GSA rock color chart (dry cuttings)

Status: OIL WELL

Gas Shows: N/A

Oil Shows: Upper Squirrel Sandstone 1000-1006' Very Good

Upper Squirrel Sandstone 1006-1014' Trace to Poor Lower Squirrel Sandstone 1045-1047' Fair to Good Lower Squirrel Sandstone 1047-1050' Trace

Notes: Well cuttings were collected and bagged at the drill rig by the drillers. Samples of the

select zones of interest were saved and reviewed in the laboratory under the black light

and microscope.

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0-998' Samples not examined

998-1000' Siltstone, white to very light gray, well cemented, ~999' siltstone has very faint uniform pale yellow oil staining, uniform moderately-bright pale yellowish-green hydrocarbon fluorescence,

minor loose chips of limestone

Top of the Upper Squirrel Sandstone @ 1000' (+54')

1000-1006' Sandstone, dark yellowish-brown oil stained cuttings, excellent saturation, very fine grain, subrounded to round grains, well sorted, hi sphericity quartz, silty, minor mica, 18-20% porosity, highly friable, strong petroliferous odor, uniform bright brownish-yellow with bright speckled yellow hydrocarbon fluorescence, no acid reaction

Sandstone, light gray, very fine grain, sub-rounded to round grains, abundant siltstone, friable, slight petroliferous odor, shaley, abundant mica, mottled moderate grayish-brown and speckled black oil staining, mottled bright yellowish-brown and white hydrocarbon fluorescence, weak to fair acid reaction (minor calcitic cementation)

1014-1018' Samples not examined

Sandstone, light gray, very fine grain, sub-rounded to round grains, abundant siltstone, well cemented, shaley, micaceous, no odor, minor mottled pale yellowish-brown and lightly speckled black oil staining, <10% mottled pale yellow hydrocarbon fluorescence

1020-1026' Siltstone, light gray, shaley, well cemented, no odor, no oil show, no fluorescence

1026-1044' Samples not examined

1044-1045' Shale, medium-light gray, minor loose chips of limestone

Top of the Lower Squirrel Sandstone @ 1045' (+9')

Sandstone, mottled dark yellowish-brown oil stained cuttings, good saturation, fine grain, sub-angular to sub-rounded grains, moderately sorted, medium sphericity quartz, silty, micaceous, 14-18% porosity, friable, good petroliferous odor, speckled to mottled bright yellowish-brown and yellowish-white hydrocarbon fluorescence, no acid reaction

1047-1050' Sandstone, light gray, very fine grain, sub-rounded to round grains, silty, well cemented, shaley, micaceous, minor mottled very pale yellowish-brown and lightly speckled black oil staining, speckled bright yellow hydrocarbon fluorescence

Sandstone, medium gray, silty, micaceous, very well cemented, no hydrocarbon odor, no oil show, minor speckled yellowish-green hydrocarbon fluorescence

Siltstone, light to medium gray, shaley, minor very fine grain sandstone grains, abundant mica, very well cemented, no hydrocarbon odor, no oil show, minor speckled faint yellow fluorescence

1062-1100' Samples not examined

T.D. = 1102

1056-1062

Julie Shaffer Geologist