Geological Report

Hammond E. #23-18
2140' FNL; 830' FEL
Sec. 8, T24S, R16E
Woodson County, Kansas
6/24/2018

Operator:	Petroleum Resource Management Company 733 Highgrove Park Houston, Texas 77024
Drilling Contractor:	Leis Oil Services, Matt Leis, driller
Well-site Geologist:	Julie Shaffer 480 Fox Rd Toronto, Kansas 66777
Dates Drilled:	June 21, 2018
Size Hole:	5 7/8"
Total Depth:	1102'
Elevation:	1067' (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
Rock Color Desc.:	GSA rock color chart (dry cuttings)
Status:	**OIL WELL**
Gas Shows:	N/A

Oil Shows:			
	Upper Squirrel Sandstone	998-1009'	Very Good
	Lower Squirrel Sandstone	1044-1052'	Good

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.

0-996' Samples not examined

996-998' Oswego Limestone, light gray, very fine grain, locally medium crystalline, no visible porosity

Top of the Upper Squirrel Sandstone @ 998' (+69')

998-999' Sandstone, light gray, very fine grain, sub-rounded to round grains, abundant siltstone, minor petroliferous odor, minor mottled very pale yellowish-brown oil staining, <5% mottled to uniform medium-bright pale-yellow hydrocarbon fluorescence

999-1004' Sandstone (70%), moderate to dark yellowish-brown oil stained cuttings, good saturation, very fine grain, sub-rounded to round grains, well sorted, hi sphericity quartz, abundant siltstone, minor mica, 16+% porosity, friable, strong petroliferous odor, uniform bright brownish-yellow hydrocarbon fluorescence, no acid reaction; Shale (30%), light gray, silty, minor loose chips of limestone

1004-1006' Sandstone, dark yellowish-brown oil stained cuttings, excellent saturation, very fine grain, sub-rounded to rounded grains, well sorted, hi sphericity quartz, minor siltstone, minor mica, 18-20% porosity, highly friable, strong odor, uniform bright yellow to brownish-yellow hydrocarbon fluorescence, no acid reaction

1006-1009' Sandstone (70%), light gray with heavily mottled dark yellowish-brown oil staining and black thick oil in pore space, excellent saturation, very fine to fine grain, sub-rounded to rounded grains, moderately well sorted, hi sphericity quartz, minor siltstone, abundant mica, 16+% porosity, friable, strong odor, mottled bright brownish-yellow with bright speckled yellow hydrocarbon fluorescence, weak acid reaction; Shale (30%), medium-light gray, silty to sandy, micaceous, minor loose chips of limestone

1009-1010' Siltstone, light gray, minor black shale partings, minor sandstone, shaley, abundant mica, no odor, no oil show, no fluorescence

1010-1042' Samples not examined

1042-1044' Shale, medium gray, calcareous and pyritic

Top of the Lower Squirrel Sandstone @ 1044' (+23')

1044-1052' Sandstone, very dark yellowish-brown to black oil stained cuttings, excellent saturation, fine grain, sub-angular to sub-rounded grains, well sorted, hi sphericity quartz, minor silt, micaceous, 18-20% porosity, highly friable, good odor, speckled to heavily mottled bright yellowish-white hydrocarbon fluorescence, no acid reaction

1052-1058' Siltstone, light to medium gray, minor shale, minor very fine grained sandstone grains, abundant mica, very well cemented, no hydrocarbon odor, no oil show, minor speckled yellow fluorescence

1058-1102' Samples not examined

T.D. = 1102'

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Julie Shaffer
Geologist