PETROGRAPHIC POINT COUNT ANALYSIS

for

Strategic Biofuels LLC

Louisiana Green Fuels Well 001

Caldwell Parish

Onshore, Louisiana

File No.: HH-108056

April 27, 2022

Strategic Biofuels LLC
Louisiana Green Fuels Well 001
Caldwell Parish
Onshore, Louisiana
File No.: HH-108056
Analyst: Karina Jenkins

Sample: Conventional Core
Date: 4/27/2022
Formation: N/A

Sample ID	Thin Section	Sample Depth (feet)	Sample Quality	Mean Grain Size (mm)	Grain size range (mm)	Grain sorting	Sedimentary Fabric/Texture	Compaction	Total Quartz	Monocrystalline Quartz	Polycrystalline Quartz	Metaquartzite	Total Feldspar	Potassium Feldspar	Plagioclase Feldspar	Lithics	Plutonic/Gneiss	Volcanic-Felsic	Metamorphic-Phyllite/Schist/Slate	Chert	Shale/Mudstone/Claystone	Sandstone/Siltstone	Carbonate Fragment	Over-sized Mudstone/Siltstone/Sandstone Clast	Over-sized Silty/Sandy Limestone Intraclast	Pseudomatrix*	Accessories	Muscovite Mica	Biotite	Chlorite	Heavy Minerals**	Environ. Indicators	Organic Material/Fragments	Glauconite	Calcareous Fossil Fragments	Phosphatic Fragments
3-8H	C9	4918.30	9	0.12	0.02-0.20	Well	Massive to Faint Lam	Low to Mod	53.3	50.0	1.0	2.3	0.7	0.0	0.7	1.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.7	2.3	2.3	0.0	0.0	0.0	1.0	0.7	0.3	0.0	0.0
4-14-H	C10	5263.30	9	0.20	0.02-0.45	Well	Massive to Faint Lam	Low to Mod	61.0	57.3	2.3	1.3	0.7	0.0	0.7	6.0	0.0	0.0	1.3	2.3	0.0	0.3	0.0	0.0	0.0	2.0	0.3	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0

* Pseudomatrix is composed of compacted argillaceous/micaceous lithics and deformed metamorphic/mudstone fragments
** Zircon
*** Iron Kutnohorite in sample 4918.30 feet
*** Apparent IGV calculation = intergranular porosity + intergranular cements + detrital matrix (excluding laminar matrix)
Unconsolidated samples might not reflect porosity at reservoir values

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Sample ID	Thin Section	Sample Depth (feet)	Detrital Matrix	Pore-filling (laminar)	Pore-Filling (disordered/infiltrated)	Inherited Pore-Lining/Grain-Coating	Undiff. Pore-fillings	Authigenic Clay	Grain-Coating/Pore-Lining Clay (Illite/Chlorite)	Pore-Filling Clay (Illite/Chlorite)	Chlorite Grain Replacement	Illite/Sericite Grain Replacement	Pore-Filling Clay (Kaolinite/Illite)	Kaolinite/Illite Grain Replacement	Kaolinite/Dickite Grain Replacement	Kaolinite/Dickite Pore-Filling	Cements	Quartz Overgrowths	Feldspar Overgrowths	Calcite/Ferroan Calcite	Dolomite	Iron Dolomite***	Siderite	Pyrite	Residual Hydrocarbons (Bitumen)	Ti/Fe-Oxides	Grain/Particle Replacements	Calcite/Ferroan Calcite	Dolomite	Iron Dolomite***	Quartz/Microquartz	Feldspar	Siderite	Pyrite	Ti/Fe-Oxides	Porosity****	Primary Intergranular	Secondary Intragranular	Micropore Intergranular (<15µm)	Micropore Intragranular (<15µm)	Moldic Pores	Grain Fracture Pores	Fractures
3-8H	C9	4918.30	1.7	0.0	0.7	1.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	6.7	16.7	6.0	0.0	0.0	0.7	7.7	0.7	0.0	1.7	0.0	2.0	0.0	0.0	0.3	0.0	0.0	1.7	0.0	0.0	14.0	4.0	0.0	8.7	1.0	0.3	0.0	0.0
4-14-H	C10	5263.30	3.0	0.0	1.3	1.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.3	9.7	9.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	17.0	12.7	0.0	3.7	0.3	0.3	0.0	0.0

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Sample ID	**3-8H**	**4-14-H**		
Thin Section	**C9**	**C10**		
Sample Depth (meters)	**4918.30**	**5263.30**		
Lithology (Folk)	**Quartzarenite**	**Sublitharenite**		
Sample Quality	**9.00**	**9.00**		
Mean Grain Size (mm)	**0.12**	**0.20**		
Grain Size Range (mm)	**0.02-0.20**	**0.02-0.45**		
Sorting	**Well**	**Well**		
Texture	**Massive to Faint Lam**	**Massive to Faint Lam**		
Compaction	**Low to Mod**	**Low to Mod**		
Total Quartz	**53.3**	**61.0**		
Monocrystalline Quartz	50.0	57.3		
Polycrystalline Quartz	1.0	2.3		
Metaquartzite	2.3	1.3		
Total Feldspar	**0.7**	**0.7**		
K-Feldspar	0.0	0.0		
Plagioclase	0.7	0.7		
Lithics	**1.0**	**6.0**		
Plutonic/Gneiss	0.0	0.0		
Volcanic	0.0	0.0		
Metamorphic-Phyllite/Schist/Slate	0.0	1.3		
Chert	0.3	2.3		
Shale/Mudstone	0.0	0.0		
Sandstone/Siltstone	0.0	0.3		
Carbonate Fragments	0.0	0.0		
Over-sized Mudst./Siltstone/Sandstone Clast	0.0	0.0		
Over-sized Silty/Sandy Limestone Intraclast	0.0	0.0		
Pseudomatrix*	0.7	2.0		
Accessories	**2.3**	**0.3**		
Muscovite Mica	2.3	0.0		
Biotite	0.0	0.0		
Chlorite	0.0	0.0		
Heavy Minerals**	0.0	0.3		
Environ. Indicators	**1.0**	**0.3**		
Organic Material/Fragments	0.7	0.3		
Glauconite	0.3	0.0		
Calcareous Fossil Fragments	0.0	0.0		
Phosphatic Fragments	0.0	0.0		
Detrital Matrix	**1.7**	**3.0**		
Pore-filling (laminar)	0.0	0.0		
Pore-Filling (disordered/infiltrated)	0.7	1.3		
Inherited Grain-Coating/Pore-Lining	1.0	1.7		
Undiff. Pore-fillings	0.0	0.0		
Authigenic Clay	**7.3**	**1.7**		
Grain-Coating/Pore-Lining (Illite/Chlorite)	0.0	0.0		
Pore-Filling (Illite/Chlorite)	0.0	0.0		
Chlorite Grain Replacement	0.0	0.0		
Illite/Sericite Grain Replacement	0.0	0.0		
Pore-Filling Clay (Kaolinite/illite)	0.0	0.0		
Kaolinite/Illite Grain Replacement	0.0	0.3		
Kaolinite/Dickite Grain Replacement	0.7	0.0		
Kaolinite/Dickite Pore-Filling	6.7	1.3		
Cements	**16.7**	**9.7**		
Quartz Overgrowths	6.0	9.0		
Feldspar Overgrowths	0.0	0.0		
Calcite/Ferroan Calcite	0.0	0.0		
Dolomite	0.7	0.0		
Ferroan Dolomite	7.7	0.3		
Siderite	0.7	0.0		
Pyrite	0.0	0.0		
Residual Bitumen	1.7	0.3		
Ti/Fe-Oxides	0.0	0.0		
Grain/Particle Replacements	**2.0**	**0.3**		
Calcite/Ferroan Calcite	0.0	0.0		
Dolomite	0.0	0.0		
Ferroan Dolomite	0.3	0.0		
Quartz/Microquartz	0.0	0.3		
Feldspar	0.0	0.0		
Siderite	1.7	0.0		
Pyrite	0.0	0.0		
Ti/Fe-Oxides	0.0	0.0		
Porosity	**14.0**	**17.0**		
Primary Intergranular	4.0	12.7		
Secondary Intragranular	0.0	0.0		
Micropore Intergranular(<15µm)	8.7	3.7		
Micropore Intragranular (<15µm)	1.0	0.3		
Moldic	0.3	0.3		
Grain Fracture Pores	0.0	0.0		
Fractures	0.0	0.0		
Total	100.0	100.0		

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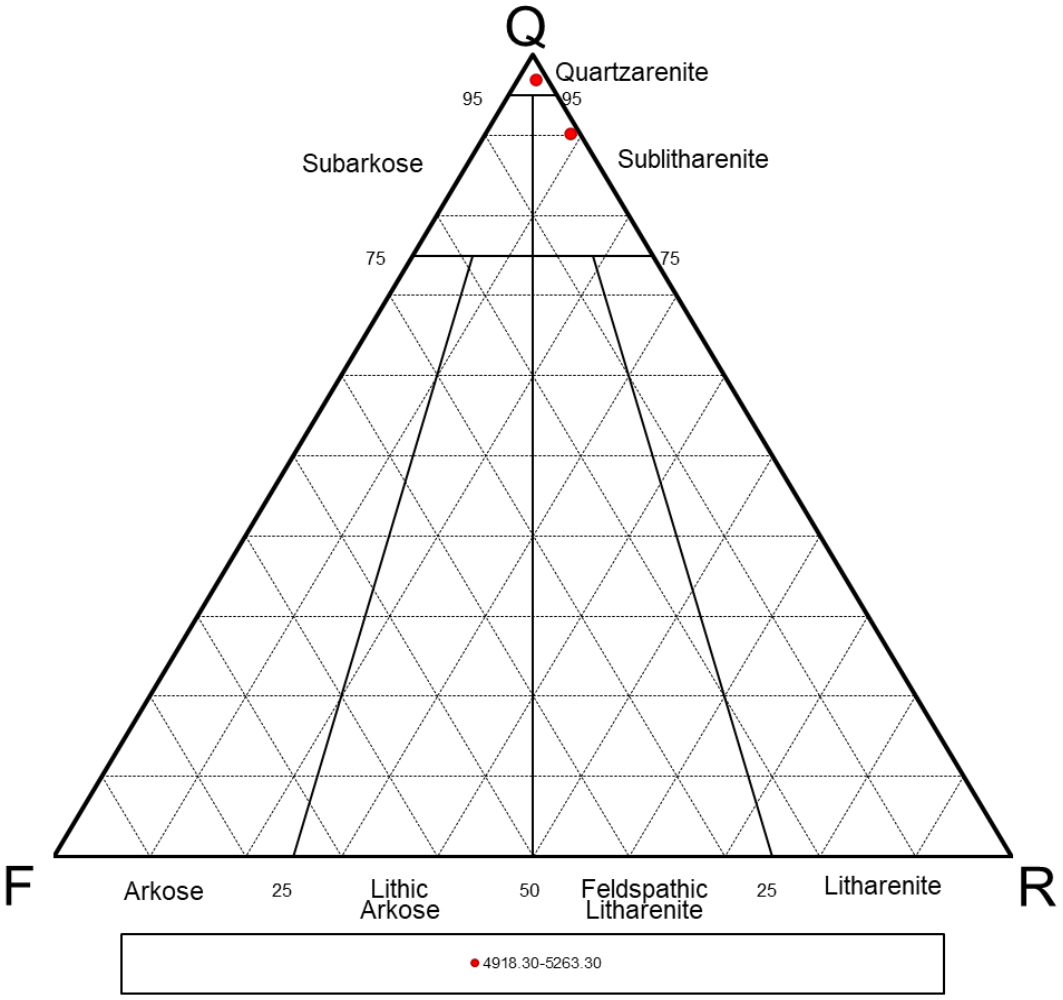
Sandstone Classification (Folk, 1968)



Sandstone Classification

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Sample ID	TS	Depth	Qtz	Fldspr	Lithics	Plutonic RF	Total	Q	F	R	Folk Name
3-8H	C9	4918.30	53.3	0.7	1.0	0.0	55.00	97.0%	1.2%	1.8%	Quartzarenite
4-14-H	C10	5263.30	61.0	0.7	6.0	0.0	67.67	90.1%	1.0%	8.9%	Sublitharenite

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3-8H	C9	4918.30	9	0.12	0.02-0.20	Well	Massive to Faint Lam	Low to Mod	160	150	3	7	2		2	3				1						2	7	7				3	2	1		
4-14-H	C10	5263.30	9	0.20	0.02-0.45	Well	Massive to Faint Lam	Low to Mod	183	172	7	4	2		2	18			4	7		1				6	1				1	1	1			

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3-8H	C9	4918.30	5		2	3		22							2	20	50	18			2	23	2		5		6			1			5			42	12		26	3	1		
4-14-H	C10	5263.30	9		4	5		5						1		4	29	27				1			1		1				1					51	38		11	1	1		

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