Total Organic Carbon and Pyrolysis Analyses

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API	State	County	Operator	Lease	Formation	Sample Type	Black Shale	Dark Gray Shale	Medium Gray Shale	Light Gray Shale	Green Shale	Red Shale	Carbonate	Siltstone	Sandstone	HCl Reaction	Top Depth	Base Depth	Avg. Depth	Amorphous Kerogen Percentage	Structured Kerogen Percentage	Framboidal Pyrite	Granular Pyrite	Massive Pyrite	Leco TOC	Rock-Eval TOC	S1	S2	S3	Tmax	Tmax %Roe	Tmax Unreliable	VR %Ro	HI	OI	S1+S2	Free Oil S1/TOC * 100	PI	UV Fluorescence Intensity	UV Streaming Cut	UV Reaction Rating	Comments
15131200710000	Kansas	Nemaha	Cities Service	Wessel #1-A	Platteville	cuttings										3	3680	3685	3682.5						0.43																	
15131200710000	Kansas	Nemaha	Cities Service	Wessel #1-A	Platteville	cuttings										4	3685	3685	3685						0.34																	circulating cuttings--do not use
15131200710000	Kansas	Nemaha	Cities Service	Wessel #1-A	Platteville	core		100								5	3685.4	3685.4	3685.4						21.47		4.00	162.18	0.24	470	1.30			755	1	166.18	19	0.02	very strong	yes	5	means TOC exceeded cell saturation limit
15131200710000	Kansas	Nemaha	Cities Service	Wessel #1-A	Simpson	core							100			4	3694.5	3694.5	3694.5						0.48		0.06	0.48	0.27	470	1.30			100	56	0.54	13	0.11	strong	no	4	
15131200710000	Kansas	Nemaha	Cities Service	Wessel #1-A	Simpson	cuttings										2	3690	3700	3695						0.30																	
15131200710000	Kansas	Nemaha	Cities Service	Wessel #1-A	Simpson	core							100			5	3699.0	3699.0	3699.0						0.91		0.41	4.97	0.24	424	0.47			546	26	5.38	45	0.08	very strong	yes	5	
15131200710000	Kansas	Nemaha	Cities Service	Wessel #1-A	Simpson	cuttings										2	3700	3720	3710						1.74		3.09	8.01	1.31			347		460	75	11.10	178	0.28				

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