

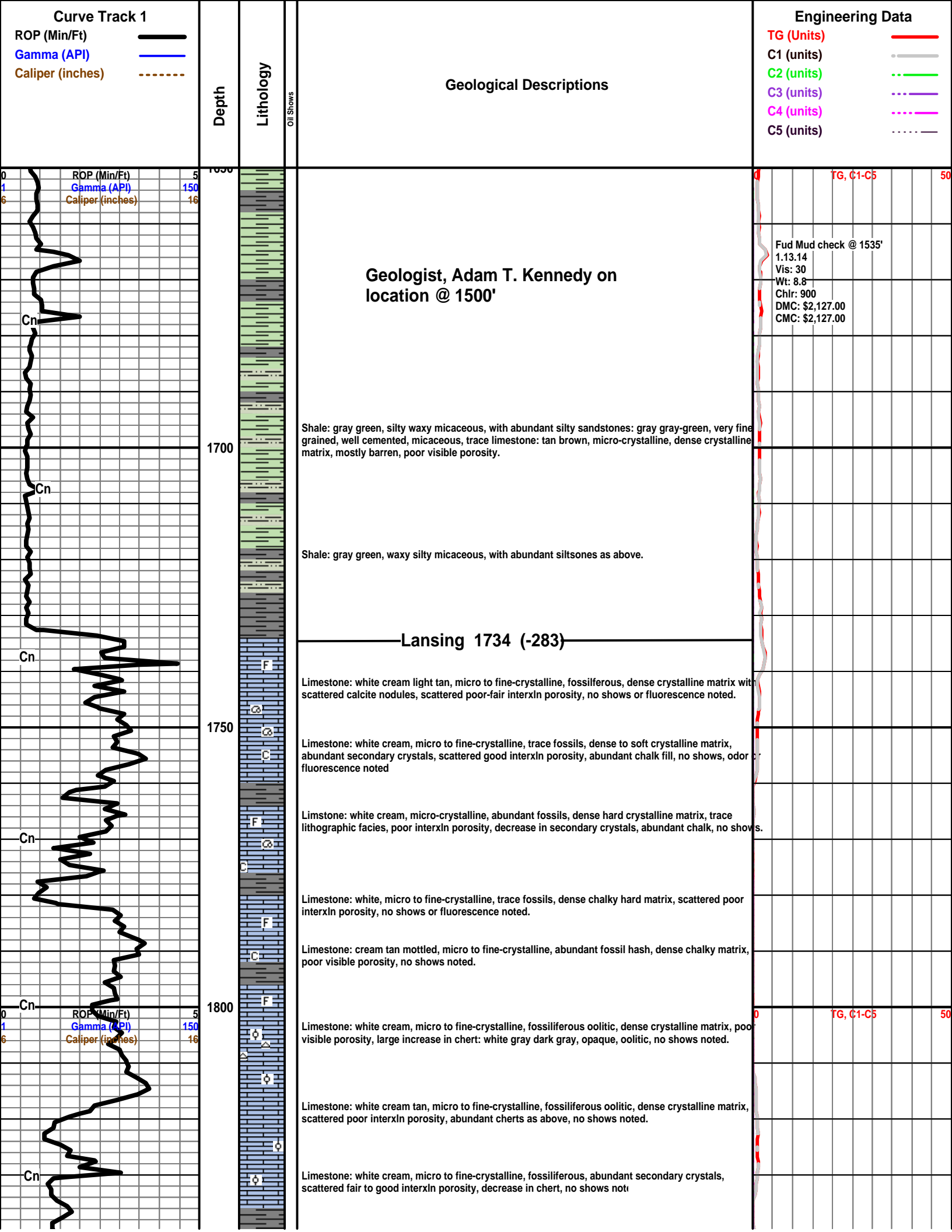
Date	0700 Hrs Depth	Previous 24 Hours of Operations
1.13.14	1400'	Drilling and connections Lansing, geologist on location @ 1500', 1100 hrs 1.13.14. DMC: \$2,127.00 CMC: \$2,127.00
1.14.14	2080'	Drilling and connections Lansing to Kansas city, currently drilling ahead through Kansas City. Made 680' in 24 hours of operations. DMC: \$3,036.75 CMC: \$5,163.75
1.15.14	2600'	Drilling and connections Kansas City through Mississippian. CFS @ 2560', 2570' (Miss). Currently drilling through Mississippian Chert. Made 520' in 24 hours of operations.
1.16.14	RTD - 2700'	

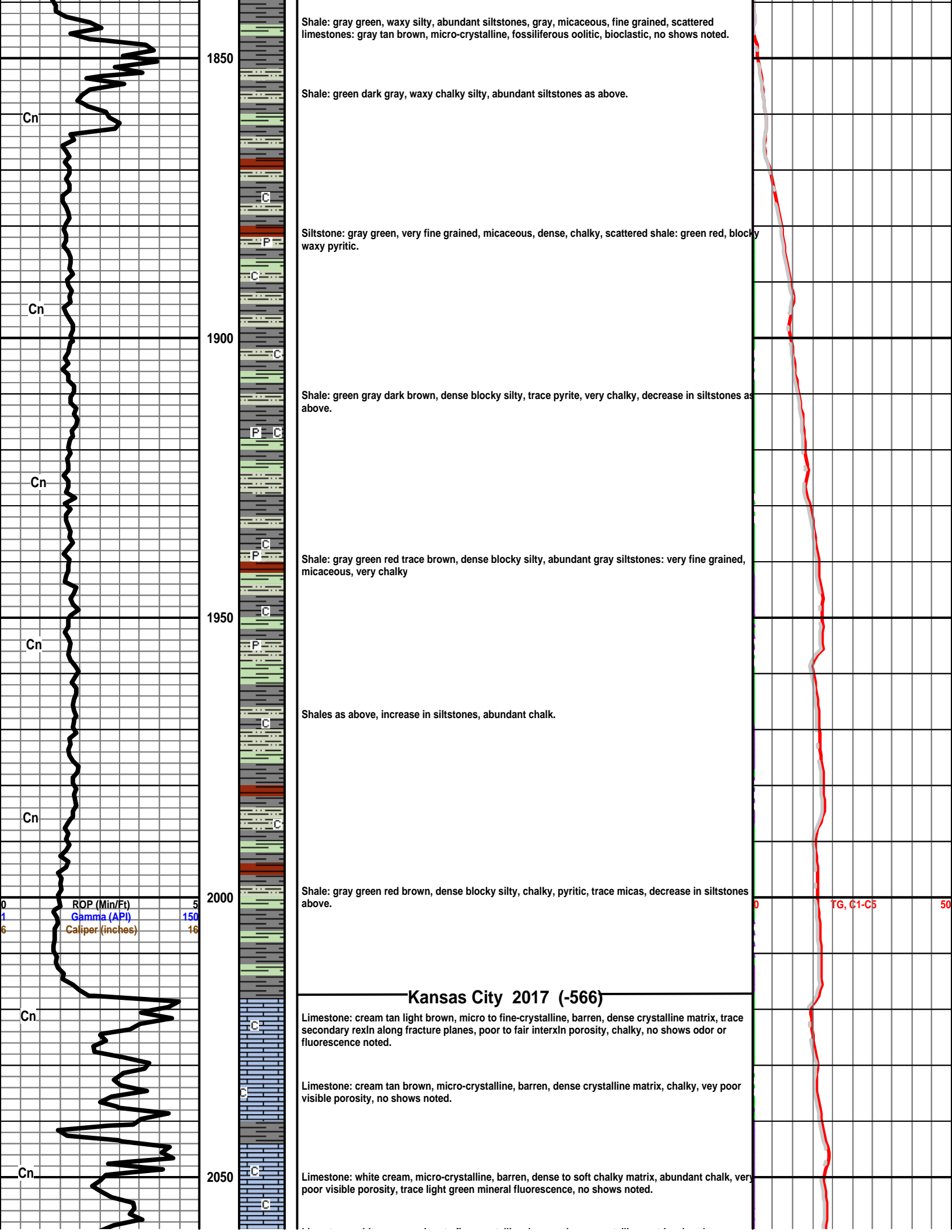
Drilling Well				
Edison Operating - Vestring #1-30				
Sec. 30 - T23S - R06E				
660' FSL & 900' FEL				
1451 KB				

Comparison Well			
The Reach Group - Vogleman #1			
Sec. 31 - T23S - R06E			
SW NE NE			
Dry		Structural Relationship	
1449 KB			

Comparison Well			
Barker - Wiebe #1			
Sec. 31 - T23S - R06E			
SW SE NW			
Dry		Structural Relationship	
1459 KB			

Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Sample	Sub-Sea	Sample	Log
Lansing	1734	-283			1741	-292	9		1665	-206	-77	
Kansas City	2017	-566			2024	-575	9		1940	-481	-85	
Stark	2113	-662			2122	-673	11					
Hushpuckney	2136	-685			2148	-699	14					
Base Kansas City	2154	-703			2167	-718	15		2100	-641	-62	
Marmaton	2252	-801			2263	-814	13					
Pawnee	2346	-895			2360	-911	16					
Fort Scott	2375	-924			2391	-942	18					
Cherokee	2386	-935			2402	-953	18					
Mississippian Chert	2550	-1099			2552	-1103	4					
Mississippian Lime	2605	-1154			2610	-1161	7					
Kinderhook	2638	-1187			2658	-1209	22					
Total Depth	2700	-1249			2800	-1351	102		2425	-966	-283	





1850

Cn

Shale: gray green, waxy silty, abundant siltstones, gray, micaceous, fine grained, scattered limestones: gray tan brown, micro-crystalline, fossiliferous oolitic, bioclastic, no shows noted.

Shale: green dark gray, waxy chalky silty, abundant siltstones as above.

1900

Cn

Siltstone: gray green, very fine grained, micaceous, dense, chalky, scattered shale: green red, blocky waxy pyritic.

Shale: green gray dark brown, dense blocky silty, trace pyrite, very chalky, decrease in siltstones as above.

1950

Cn

Shale: gray green red trace brown, dense blocky silty, abundant gray siltstones: very fine grained, micaceous, very chalky

Shales as above, increase in siltstones, abundant chalk.

2000

Cn

Shale: gray green red brown, dense blocky silty, chalky, pyritic, trace micas, decrease in siltstones above.

Kansas City 2017 (-566)

Cn

Limestone: cream tan light brown, micro to fine-crystalline, barren, dense crystalline matrix, trace secondary rexln along fracture planes, poor to fair interxln porosity, chalky, no shows odor or fluorescence noted.

Limestone: cream tan brown, micro-crystalline, barren, dense crystalline matrix, chalky, vey poor visible porosity, no shows noted.

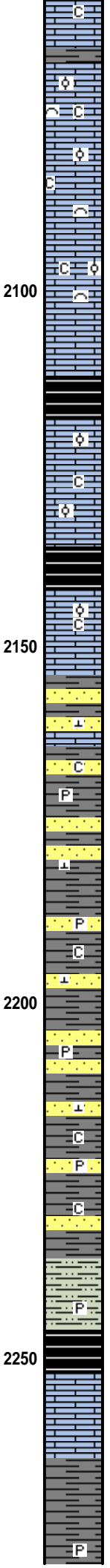
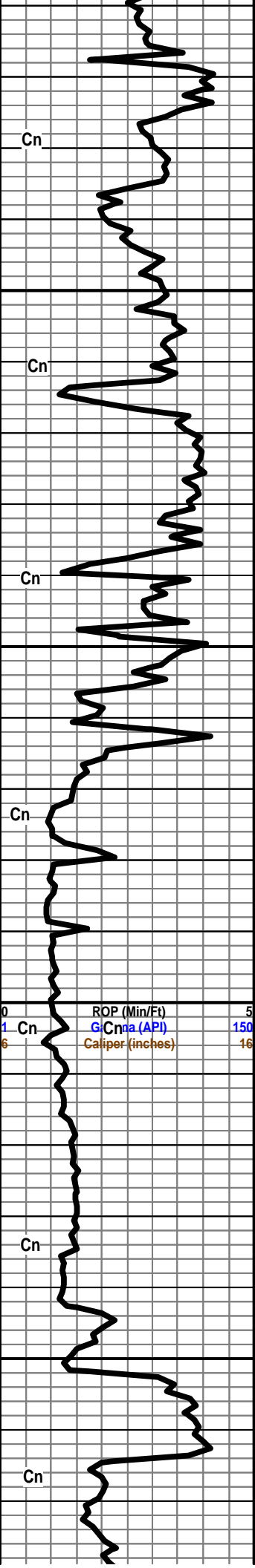
2050

Cn

Limestone: white cream, micro-crystalline, barren, dense to soft chalky matrix, abundant chalk, very poor visible porosity, trace light green mineral fluorescence, no shows noted.

ROP (Min/Ft) 5
Gamma (API) 150
Caliper (inches) 16

TG, C1-C5 50



Limestone: white cream, micro to fine-crystalline, barren, dense crystalline matrix, abundant secondary calcite crystals, decrease in chalk, scattered poor to fair interxn porosity, no shows noted.

Limestone: cream tan white, micro to fine-crystalline, fossiliferous, dense crystalline matrix, abundant secondary calcite crystals, decrease in chalk, scattered poor to fair interxn porosity, no shows noted.

Limestone: cream brown, micro to fine-xln, fossiliferous oolitic bioclastic, dense fossiliferous matrix, scattered poor interxn porosity, no shows note

Limestone: cream brown, micro to fine-xln, fossiliferous oolitic increase in bioclastic, dense fossiliferous matrix, increase in lithographic facies, poor visible porosity, chalk, no shows noted.

Stark Shale 2113 (-662)

Shale: black gray, fissile blocky micaceous carbonaceous.

Limestone: tan brown trace white, micro-crystalline, fossiliferous broken hash oolitic, dense crystalline/fossiliferous matrix, very poor visible porosity, chalky, no shows, odor or fluorescence noted.

Hushpuckney 2136 (-685)

Shale: gray green black, waxy silty micaceous trace carbonaceous.

Limestone: white gray tan, micro-crystalline, fossiliferous, trace oolitic, dense lithographic matrix, very poor visible porosity, no shows noted.

Base Kansas City 2155 (-703)

Shale: gray green, waxy chalky silty, sandstone: clear to opaque, poorly sorted, sub-angular to sub-rounded, well cemented, calcareous matrix, chalky, no shows noted.

Sandstone: quartz, clear opaque light green, fine to medium grained, poorly sorted, sub-angular to angular, well cemented silty chalky matrix, with abundant gray waxy pyritic shales.

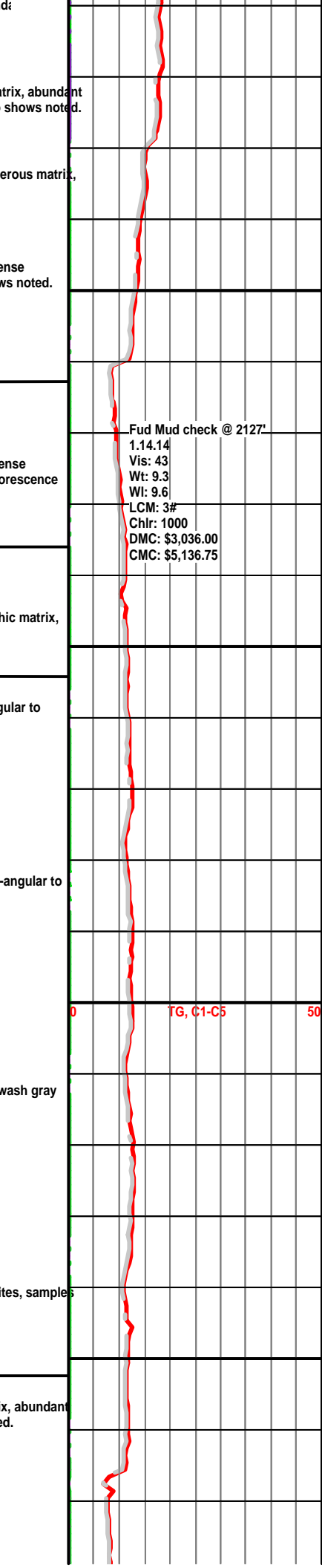
Sandstones as above with increasing mica and pyrite, large increase in chalk, samples wash gray white, with abundant gray shales as above

Siltstone: gray green, very fine grained, dense chalky matrix, abundant micas, large pyrites, samples gray / white.

Shale: gray black, dense waxy carbonaceous.

Marmaton 2252 (-801)

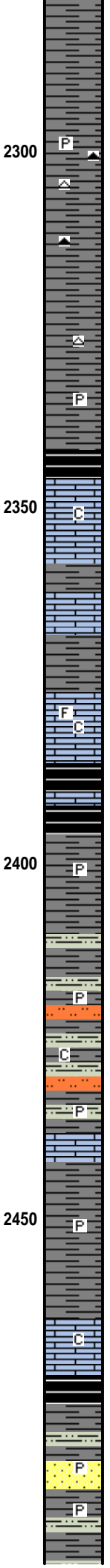
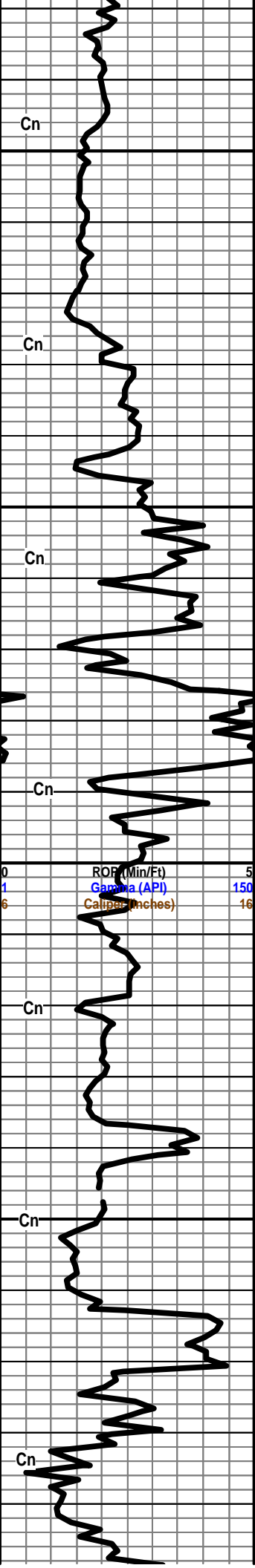
Limestone: white cream tan light green, micro to fine-crystalline, dense crystalline matrix, abundant secondary relxn, poor interlxn porosity, pale green mineral fluorescence, no shows noted.



Fud Mud check @ 2127'
 1.14.14
 Vis: 43
 Wt: 9.3
 WI: 9.6
 LCM: 3#
 Chr: 1000
 DMC: \$3,036.00
 CMC: \$5,136.75

0 1 6 ROP (Min/Ft) 5
 1 Cn GI Cn na (API) 150
 6 Caliper (inches) 16

0 1 6 TG, C1-C5 50



Shale: gray green dark brown, dense silty blocky, abundant siltstones: gray, very fine grained, micaceous pyritic, well cemented, no shows.

2300 P ▲

Shale and siltstones as above, with increase in chert: white tan yellow orange, sharp fresh, no shows.

Cn ▲

Shale: gray dark gray black, waxy blocky dense micaceous pyritic, decrease in siltstones.

P ▲

Pawnee 2346 (-895)

2350 C

Limestone: white cream tan, micro to fine-crystalline, fossiliferous, dense chalky crystalline matrix, poor visible porosity, no shows noted.

Cn ▲

Limestone: white cream, micro-crystalline, trace fossils, dense chalky matrix, very poor visible porosity, pyritic, abundant chalk, no shows or fluorescence note

F C

Cherokee 2386 (-935)

Cn ▲

Shale: gray brown black, dense blocky pyritic trace carbonaceous.

2400 P

Shale: gray dark gray trace green, dense blocky fissile, pyritic, abundant limestones as above?

Cn ▲

Shales as above with increasing silty sandstones: gray dark gray, very fine grained, well cemented, micaceous pyritic, chalky.

P ▲

C ▲

P ▲

Cn ▲

Shale: gray dark gray black, dense silty, blocky, pyritic.

2450 P

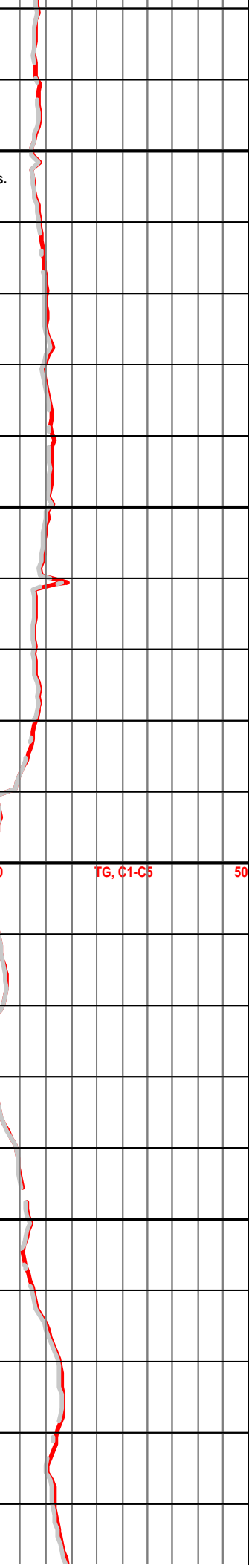
Limestone: cream tan, micro to fine-crystalline, fossiliferous, dense chalky matrix, very poor visible porosity, no shows noted

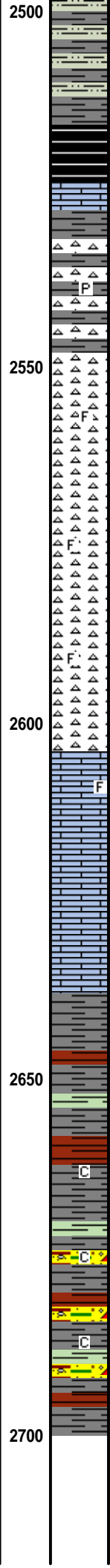
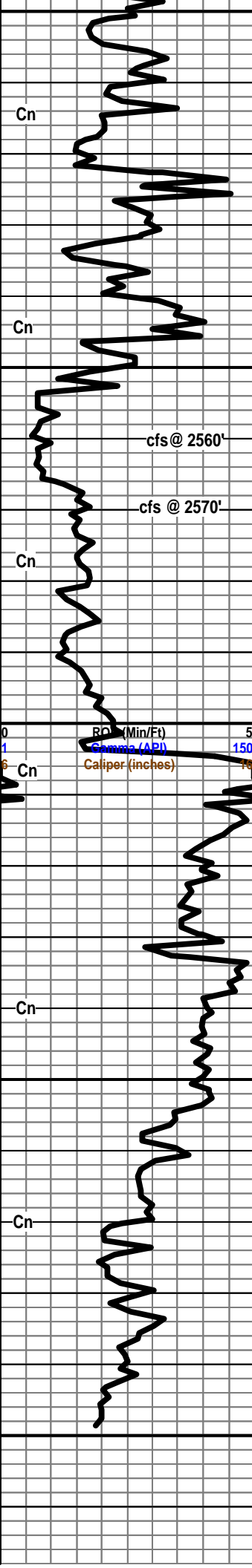
C ▲

Shale: gray dark gray, dense blocky pyritic, scattered silty sandstones: clear opaque quartz, fine to medium grained, well cemented, sub-angular to sub-rounded, poorly sorted, micaceous pyritic.

P ▲

P ▲





Shales and siltstones as above, decrease in sandstone

Shale: gray dark gray black, dense blocky, carbonaceous.

Shale: green yellow gray, waxy fissile chalky, abundant chert: opaque white pink, sharp dense, no shows noted.

Shale: gray green yellow purple, waxy fissile chalky pyritic, abundant cherts as above, pyritic, chalky, no shows.

Mississippian Chert 2550 (-1099)

Chert: white tan, cryptoxln to micro-xln, dense sharp fresh, trace fossils, scattered poor to fair pinpoint edge porosity, overall porosity very poor, no shows odor or fluorescence.

cfs @ 2560'

Chert: white tan, micro-xln, dense sharp fresh, trace fossils, scattered poor edge pinpoint porosity, overall porosity poor, no shows or fluorescence noted.

cfs @ 2570'

Chert: white cream, micro to fine-crystalline, dense sharp fresh, fossiliferous oolitic, dense, scattered secondary crystals & translucent veins, trace edge pinpoint porosity, no shows odor or fluorescence.

2600

RC (Min/Ft) 5
Gamma (API) 150
Caliper (inches) 10

Limestone: white light green, micro to fine-crystalline, trace fossils, dense to soft crystalline matrix, chalky, scattered poor interxln porosity, grainy texture in part, overall visible porosity very poor, no shows noted.

Limestone: white gray light green, cryptoxln to micro-xln, mostly barren, very dense cryptoxln matrix, recemented in part, trace chalk, very poor visible porosity, no shows odor or fluorescence,

Kinderhook?

Shale: gray dark gray green trace yellow, dense blocky fissile, pyritic, abundant limestones as above.

2650

Shale: gray dark gray green yellow, dense blocky fissile, pyritic, trace chalk.

Shale: gray dark green yellow, dense blocky to waxy silty, chalky, scattered conglomerates: yellow white, samples wash gray/white, with chert: white sharp fresh.

2700

RTD 2700 (-1249)

