



# Joshua R. Austin

## Petroleum Geologist

report for

**Lebsack Oil Production, Inc.**



COMPANY: Lebsack Oil Production, Inc.

LEASE: Garden City #2-7

FIELD: West Damme Ext.

LOCATION: 330' FNL & 330' FWL (NW-NW-NW)

SEC: 7 TWSP: 22s RGE: 33w

COUNTY: Finney STATE: Kansas

KB: 2916' GL: 2903'

API # 15-055-22456-00-00

CONTRACTOR: Sterling Drilling Company (rig #5)

Spud: 06/21/2017

Comp: 06/27/2017

RTD: 4860'

LTD: 4859'

Mud Up: 3383'

Type Mud: Chemical was displaced

Samples Saved From: 3600' to RTD.

Drilling Time Kept From: 3400 to RTD.

Samples Examined From: 3600' to RTD.

Geological Supervision From: 3850' to RTD.

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @445'

Production Casing: 5 1/2" @4851'

Electronic Surveys: Pioneer Energy Services

### NOTES

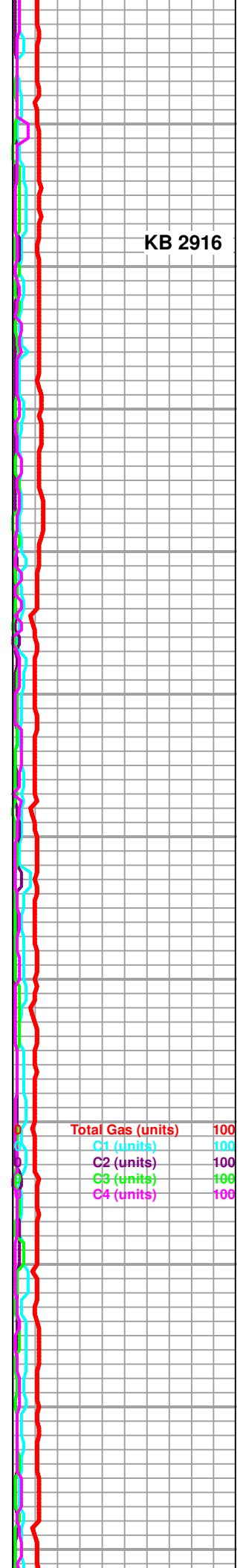
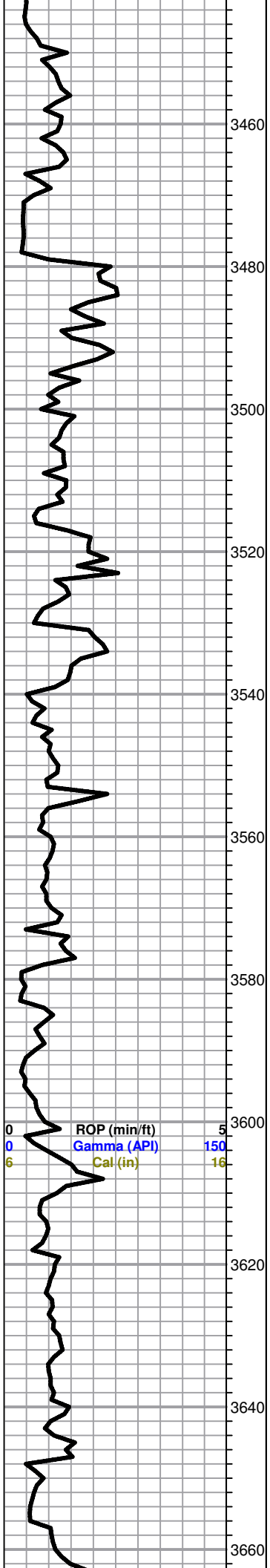
After reviewing the electric logs and on the basis of the positive structural position, it was recommended to run 5 1/2" production casing to further test the St. Louis (4768-71') and the Pawnee (4413-4419). Did not drill stem test on this well. From 4430-4657' lost 400 bbl fluid, LCM 12#.

**Lebsack Oil Production, Inc.**  
**well comparison sheet**



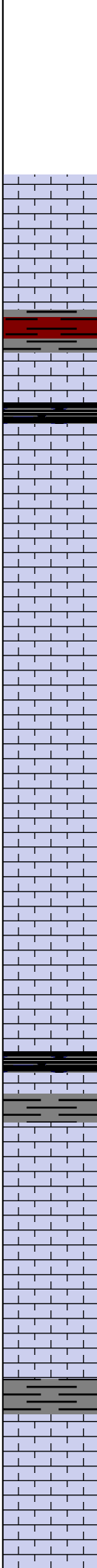
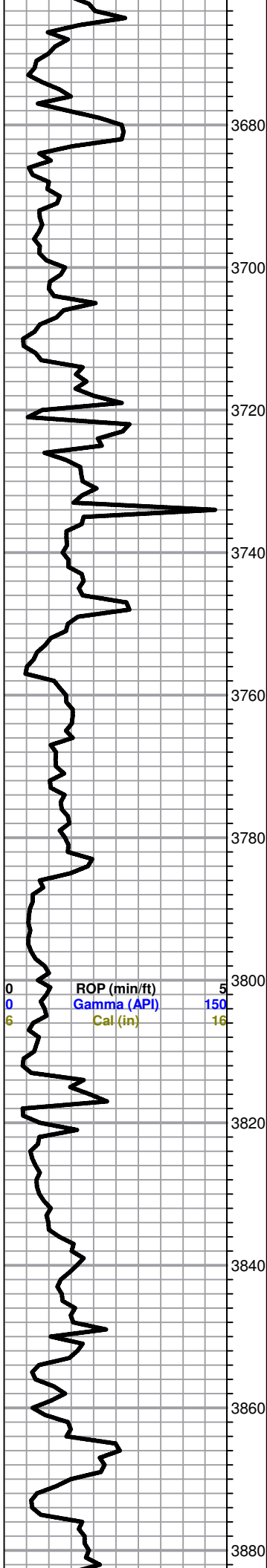
TOPEKA 3479 (-563)

KB 2916



0	ROP (min/ft)	5	3600
0	Gamma (API)	150	
6	Cal (in)	16	

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



**WET AND DRY SAMPLES 3700'-RTD**

Limestone; gray-cream, fine xln, chalky, few granular pieces, highly oolitic / fossiliferous, poor visible porosity

dark red-gray soft shale

black carboniferous shale

Limestone; cream-white, chalky, granular, scattered oolitic-fossiliferous pieces, no shows

Limestone; as above plus white chalk

Limestone; gray-cream, fine-medium xln, highly fossiliferous, chalky, granular, scattered porosity, no shows

Limestone; as above

**HEEBNER 3811 (-895)**

black carboniferous shale

**TORONTO 3822 (-906)**

Limestone; tan-buff, fine-medium xln, slightly granular, poor intercrystalline porosity, no shows

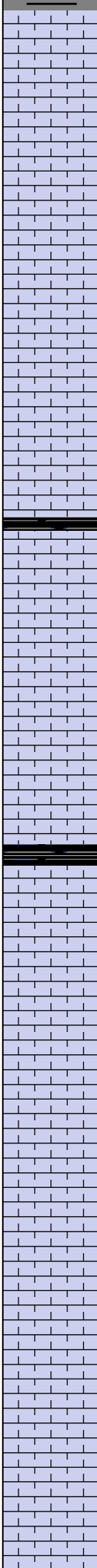
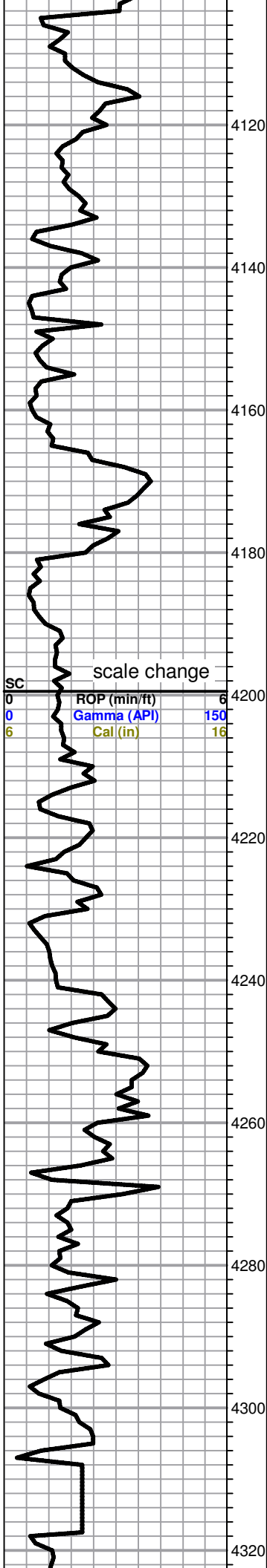
Limestone; as above plus white Chert, slug of white chalk

gray-grayish green Shale

Limestone; cream, fine xln, chalky in part, poor visible porosity, Chert, white-amber, fresh







Limestone; cream, finely oolitic, fair-good porosity, few granular pieces, no shows

Limestone; as above chalky

Limestone; cream / buff, highly oolitic/oomoldic, chalky in part, fair oomoldic porosity, sparry quartz inclusions inbedded in porosity (barren)

**BASE POROSITY BREAK 4165 (-1249)**

black carboniferous shale

Limestone; cream-buff, fine xln, dense, chalky, poor inter crystalline proosity, slightly oolitic, trace brown-dark brown staining, spotty SFO, faint odor

Limestone; gray / cream / buff, chalky, dark brown stain, spotty SFO, poor-no porosity, no odor

black carboniferous shale

Limestone; gray-lt. gray, cream, micro-fine xln, chalky in part, slighty dolomitic, poorly developed porosity, no shows

Limestone; gray, fine xln, poor inter crystalline porosity, golden brown stain, spotty SFO, faint odor

Limestone; dark gray-gray, fine xln, dense, poor visible porosity, slightly dolomitic in part, no shows

Limesone; gray / cream / buff, fine xln, chalky, dense, no shows, slightly fossiliferous

Limestone; as above no shows

**BASE KANSAS CITY 4315 (-1229)**

Total Gas (units) 100  
 C1 (units) 100  
 C2 (units) 100  
 C3 (units) 100  
 C4 (units) 100

**BASE KANSAS CITY 4310 (-1394)**

Shale; grayish green silty, plus grayish green siltstone

**MARMATON 4338 (-1422)**

Limestone; cream-white, highly oolitic in part, few scattered porosity

Limestone; cream, fine xln, slightly fossiliferous-oolitic, chalky in part, inter crystalline porosity, spotty brown stain, SFO, no odor

Limestone; tan / gray / buff, fine xln, chalky, dense, granular in part, no shows

black carboniferous shale

**PAWNEE 4408 (-1492)**

Limestone; white-cream, micro xln, chalky, poor visible porosity, spotty SFO, no odor

dark gray Limestone; shaley (samples poor lost 75 bbls returns CFS)

**FT. SCOTT 4443 (-1527)**

black carboniferous shale

Limestone; tan, foss-oolitic, dense, poor porosity, brown stain, slight SFO, no odor

**CHEROKEE SHALE 4452 (-1536)**

black carboniferous shale

Limestone; cream, fossiliferous, chalky, plus Chert; opaque-white, boney, fossiliferous, fresh

black carboniferous shale

black carboniferous shale

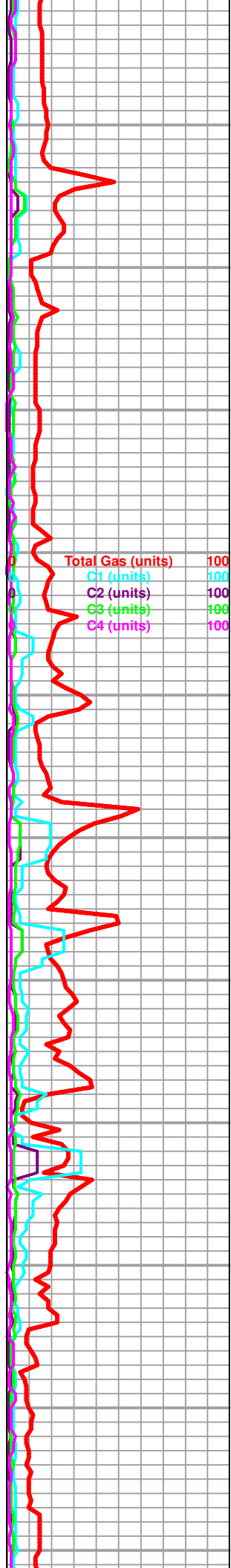
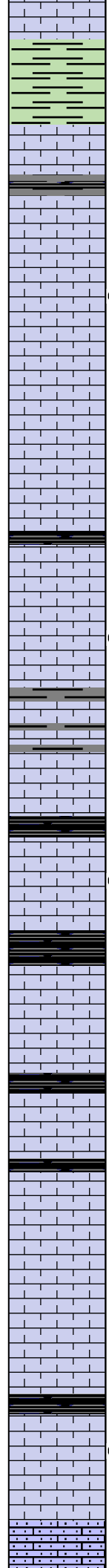
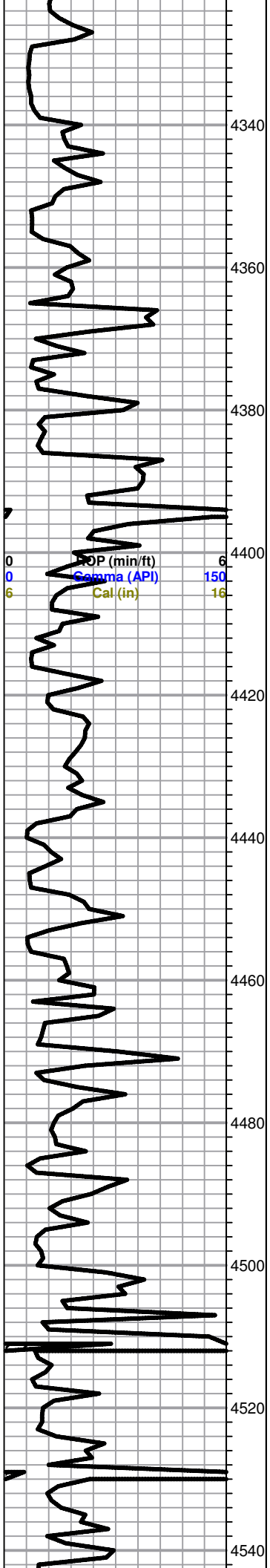
Limestone; gray-lt. gray, fine xln, chalky, slightly fossiliferous, dense, no shows

Limestone; cream, fossiliferous-oolitic, scattered oomoldic porosity, no shows

black carboniferous shale

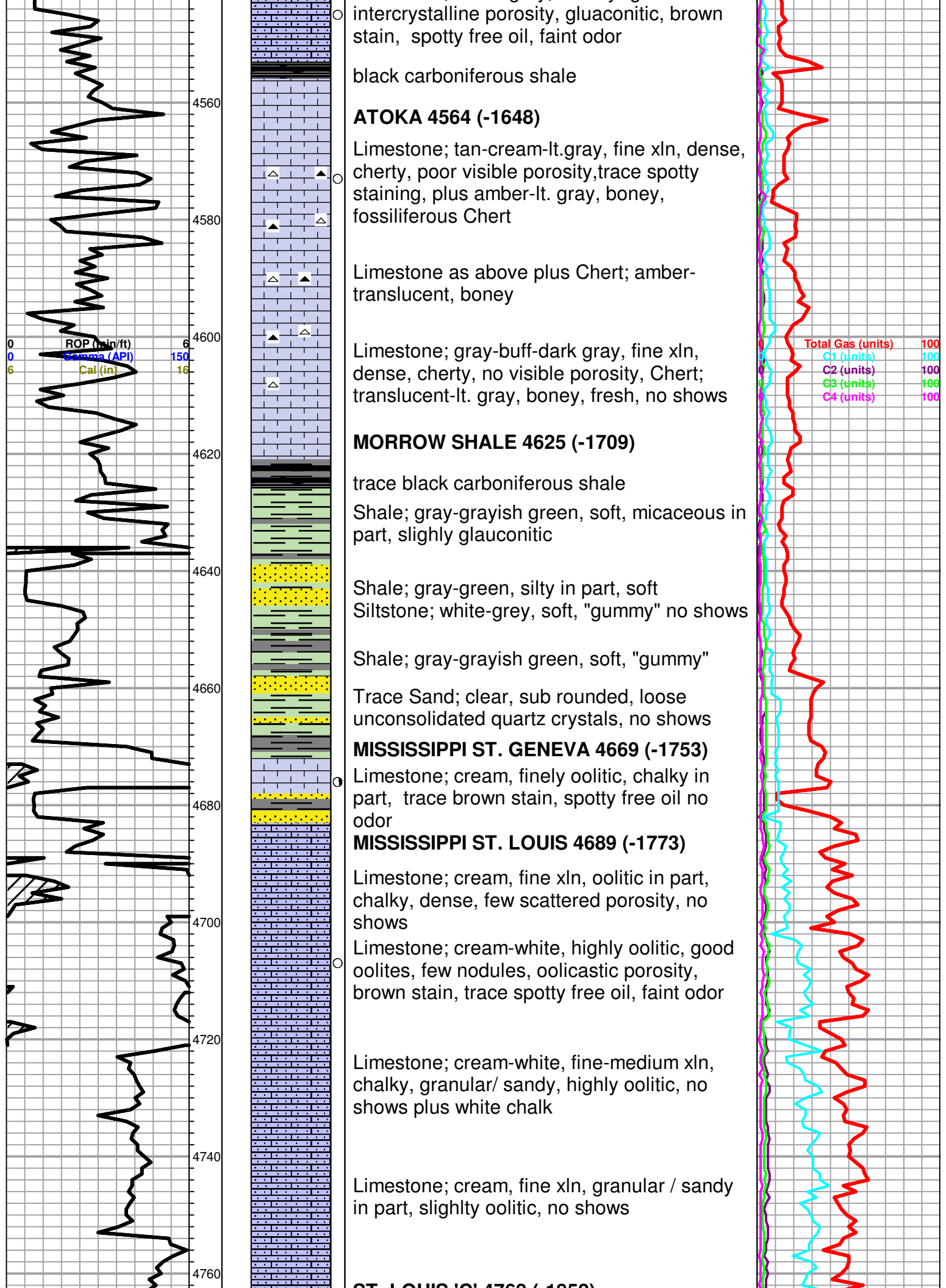
Limestone; gray-tan, fine xln, dense, trace spotty stain, NSFO, no odor

Limestone; tan-lt. gray, "sandy" good



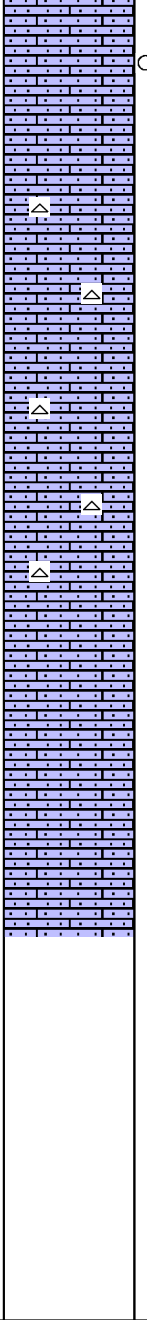
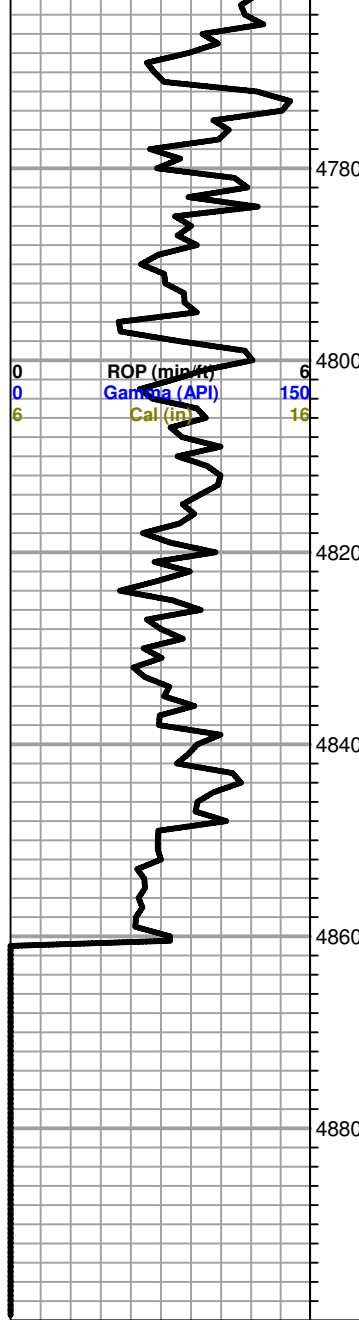
POP (min/ft) 6  
Gamma (API) 150  
Cal (in) 16

Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100





ST. LOUIS 'C' 4768 (-1852)



Limestone; cream, oolitic, fine xln in part, few oolitic type porosity, brown stain, trace free oil, no odor

4780

Limestone; cream-lt. grey, fine-medium xln, granular, oolitic in part, few scattered inter xln type porosity, no shows, plus grey-translucent-amber, boney Chert

4800

Limestone; as above, "sandy/ granular" no shows, Chert; white-translucent

4820

Limestone; cream-white, highly oolitic, chalky, granular/sandy, calcareous in part, no shows

4840

Limestone; as above

4860

ROTARY TOTAL DEPTH 4860 (-1944)

4880

