

# AUSTIN B. KLAUS



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**Russell, KS 67665**  
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**Scale 1:240 (5"=100') Imperial**  
**Measured Depth Log**

**Well Name:** States B #1  
**Location:** Phillips County  
**License Number:** API #15-147-20,737-0000  
**Spud Date:** 4/29/14  
**Surface Coordinates:** Section 30 - Township 5 South - Range 20 West  
2,085' FNL & 475' FWL  
**Bottom Hole Coordinates:** Vertical well with minimal deviation, same as above  
**Ground Elevation (ft):** 2,233' **K.B. Elevation (ft):** 2,238'  
**Logged Interval (ft):** 3,150' **To:** 3,740' **Total Depth (ft):** 3,740'  
**Formation:** Lansing, Reagan  
**Type of Drilling Fluid:** Chemical (Andy's)

**Region:** Kansas

**Drilling Completed:** 5/4/14

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## OPERATOR

**Company:** John O. Farmer, Inc.  
**Address:** P.O. Box 352  
Russell, KS 67665-0352

## GEOLOGIST

**Name:**  
**Company:**  
**Address:**

## Cores


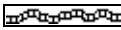
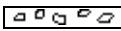
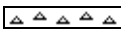
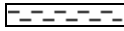







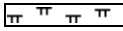

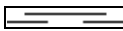
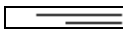
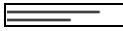


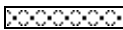
## DSTs

### Comments




















































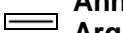



















The States B #1 well was drilled by WW Drilling Rig #6 (Tool Pusher: Mark Bigge ).

The location for the States B #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 3,100'-3,740'. Three bottom-hole tests were conducted in the Lansing, all of which yielded negative results. A final bottom-hole test was conducted over the top 8' of the Reagan Sand, which resulted in water. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to plug and abandon the States B #1 well on 5/5/14.
























### ROCK TYPES

 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
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### ACCESSORIES

<b>MINERAL</b>  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Feldspar  Ferrpel  Ferr  Glau	 Gyp  Hvymin  Kaol  Marl  Minxl  Nodule  Phos  Pyr  Salt  Sandy  Silt  Sil  Sulphur  Tuff	<b>FOSSIL</b>  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite	 Ostra  Pelec  Pellet  Pisolite  Plant  Strom  <b>STRINGER</b>  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst	 Sltstrg  Ssstrg  <b>TEXTURE</b>  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackst
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### OTHER SYMBOLS

<b>POROSITY</b>  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint	 Vuggy  <b>SORTING</b>  Well  Moderate  Poor	<b>ROUNDING</b>  Rounded  Subrnd  Subang  Angular  <b>OIL SHOW</b>  Even	 Spotted  Ques  Dead  <b>INTERVAL</b>  Core  Dst	<b>EVENT</b>  Rft  Sidewall
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Curve Track 1

ROP (min/ft) ———  
 Gas (units) - - - - -  
 Gamma (API) ———

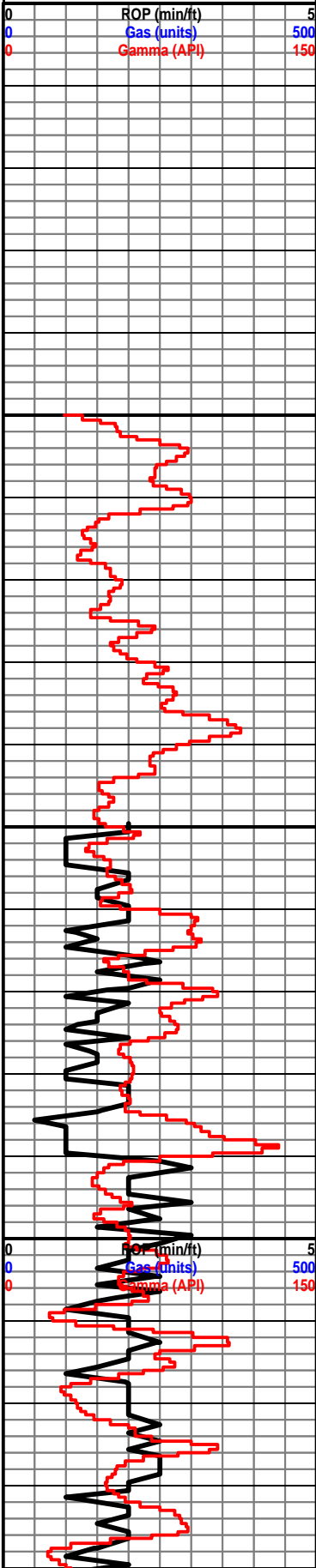
Depth

Lithology  
Oil Shows

Geological Descriptions

Drill Stem Tests

ROP (min/ft) 5  
 Gas (units) 500  
 Gamma (API) 150



30  
 3100  
 3150  
 3200

The open-hole logging was performed by Mr. Gus Pfannenstiel with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density/Compensated Neutron, Dual Induction, and Micro Resistivity.

Tester: Bob Hamel  
 Mud Engineer: Brandon Mendez

Formation tops and datums from the open-hole logs include the following:

Anhydrite	1815	423
Topeka	3190	-952
Heebner	3384	-1146
Toronto	3409	-1171
Lansing	3427	-1189
B/KC	3614	-1376
Arbuckle	3661	-1423
Reagan	3669	-1431
Granite		
TD	3740	-1502

Sh: lt gry-drk gry

Ls: tan-lt gry, fn-sub xln, DNS

Sh: drk gry-brn, soft

**Topeka 3192' (-954)**

Ls: tan-lt gry, fn xln, scat pp vuggy porosity, NSFO, scat sh: drk gry, soft

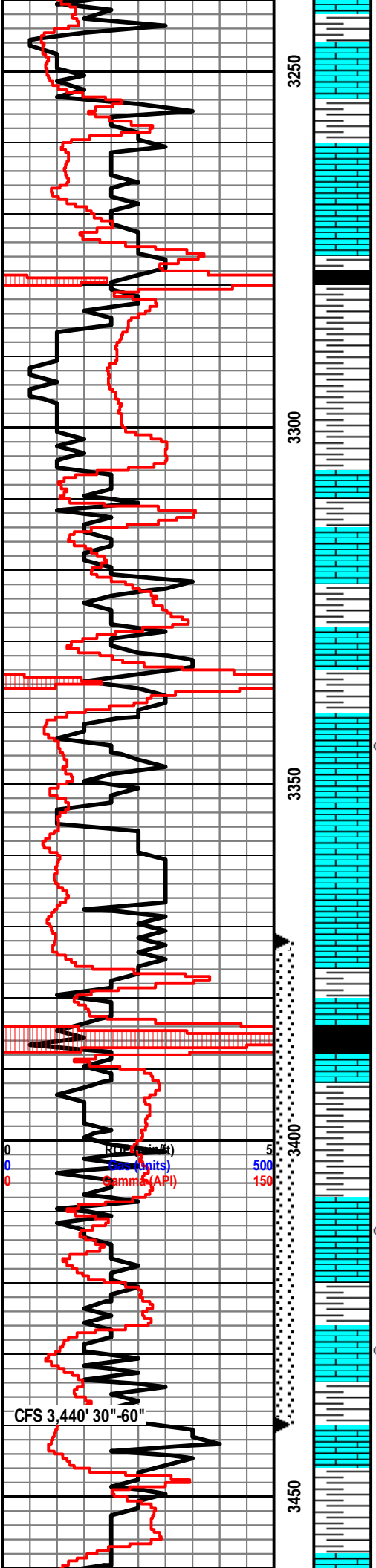
Sh: drk gry

Ls: lt-drk gry, fn xln, scat pp vuggy porosity, NSFO, fossil

Ls: lt gry-tan, fn xln, scat int xln porosity, vry lt oil st, NSFO, no odor, scat fossil

Sh: drk gry-blk

Ls: tan-buff, fn xln, trace pp vuggy porosity, NSFO, fossil



NSFO, fossil

Sh: drk gry

Ls: off wh-crm, fn xln, no visible porosity, hvy chalk

Ls: off wh-tan, fn-sub xln, vry DNS, no visible porosity, hvy chert-off wh

Ls: ala

Sh: drk gry-blk

Sh: lt gry, vry soft

Sh: drk gry-brn, vry soft

Ls: off wh-tan, fn xln, fossil, scat int fossil porosity, scat chalk, NSFO, no odor

Sh: drk brn-gry, soft

Ls: tan-lt gry, fn-sub xln, mostly DNS, NSFO, no visible porosity, scat chert-off wh

Ls: off wh-tan, fn xln, poor vuggy porosity, lt oil st in porosity, SSFO, vry lt odor, scat chert-off wh

Ls: off wh-tan, fn xln, mostly DNS, NSFO, scat fossil, chert-off wh

Ls: ala

**Heebner 3383' (-1145)**

Sh: blk, carb, fissile

Ls: lt gry, fn-sub xln, vry DNS, no visible porosity, chert-off wh

Sh: drk gry-brn, soft

**Toronto 3410' (-1172)**

Ls: off wh-tan, fn xln, poor pp vuggy porosity, fair oil sat, SSFO, sl odor, hvy chert-off wh

Sh: drk gry-brn

**Lansing 3429' (-1191)**

Ls: off wh-tan, fn xln, vry poor int xln porosity, scat oil st, VSSFO, sl odor, chert-off wh

Sh: drk gry-brn-grn

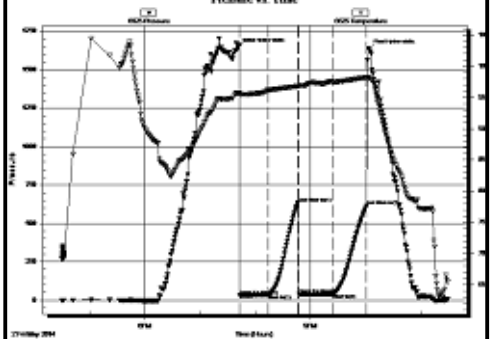
Ls: off wh-tan, fn xln, mostly DNS, no visible porosity, hvy chalk, scat chert-off wh

Sh: drk gry-brn-grn, scat soft

Ls: off wh, fn xln, scat int xln porosity, NSFO, no

DST #1 3,372'-3,440' (Toronto-LKC A)  
30"-30"-30"-30"

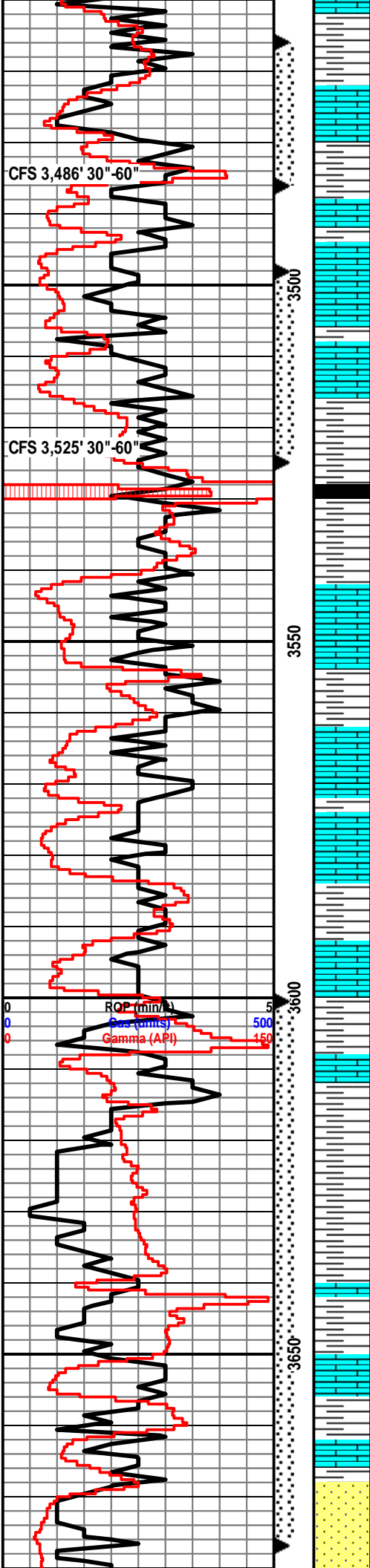
IF: weak blow built to 1/2"  
FF: weak surface blow  
Rec: 10' M  
FP: 32-36, 37-42#  
SIP: 633-613  
HP: 1,640-1,633#  
BHT: 98



DST #2 3,466'-3,486' (LKC D)  
30"-30"-30"-30"

IF: BOB in 8 minutes, no blow back  
FF: BOB in 10 minutes, no blow back  
Rec: 3' CO, 50' OCM (5% O, 95% M), 483' OCMW (5% O, 10% M, 85% W)  
FP: 18-155, 166-258#  
SIP: 1,034-1,018#  
HP: 1,679-1,668#  
BHT: 105

CFS 3,440' 30"-60"



odor, hvy chalk, scat chert-off wh

Sh: drk gry-brn

Ls: off wh, fn xln, poor int xln and vuggy porosity, fair-good oil sat, SSFO, sl odor, hvy chert-off wh, chalky

CFS 3,486' 30"-60"

Sh: drk gry-brn-grn

Ls: off wh, fn xln, poor int xln porosity, sl oil st, NSFO, sl odor, scat chert-wh-off wh, chalky

3500

Ls: off wh-tan, fn xln, poor int xln porosity, scat oil st, SSFO, sl odor, chalky, hvy chert-off wh

Sh: drk gry

Ls: off wh-tan, fn-sub xln, mostly DNS, NSFO, hvy chert-off wh

CFS 3,525' 30"-60"

Sh: drk gry

Sh: drk gry-grn, vry soft

Ls: off wh-tan, fn xln, scat int xln porosity, scat oil st, NSFO, no odor, chalky

3550

Sh: drk gry-grn, soft

Ls: off wh-tan, fn xln, scat int xln porosity, NSFO, no odor, chalky

Ls: off wh-brn, fn xln, poor int xln porosity, fair oil sat, SSFO, sl odor, chalky, scat chert-off wh

Sh: drk gry

Ls: off wh, fn xln, poor int xln porosity, sl-fair oil st, SSFO, sl odor, fossil, scat chalky

ROP (min/ft) 5  
 Gas (ml/stk) 500  
 Gamma (API) 450

3600

Sh: drk gry-blk

Ls: off wh-tan, fn-sub xln, mostly DNS, NSFO, no odor, chalky

**B/KC 3620' (-1380)**

Sh: drk gry-brn-grn

Sh: lt-drk gry, vry soft

Ls: tan-lt gry, fn xln, mostly DNS, chert-off wh, hvy chalk

3650

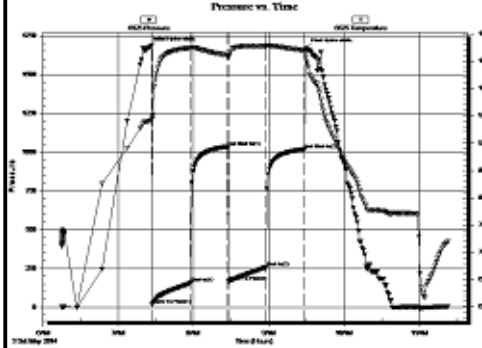
Sh: drk gry-brn-grn

Sh: drk gry-brn-grn

**Reagan 3668' (-1430)**

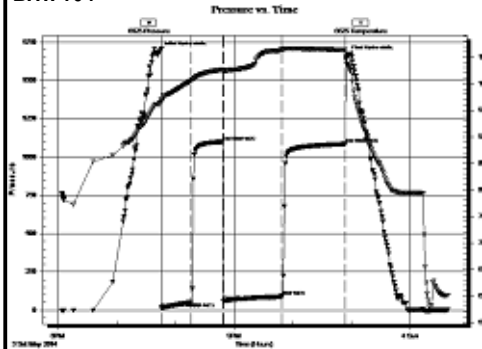
Ss: qtz, off wh-lt gry, fn-md grn, sub rnd, fair-poorly sorted, fair int grn porosity, SSFO, sl-fair odor, dull yel fluor

Ss: qtz, off wh-lt gry, fn-md grn, fairly well and



**DST #3 3,498'-3,525' (LKC G)**  
 30"-30"-60"-60"

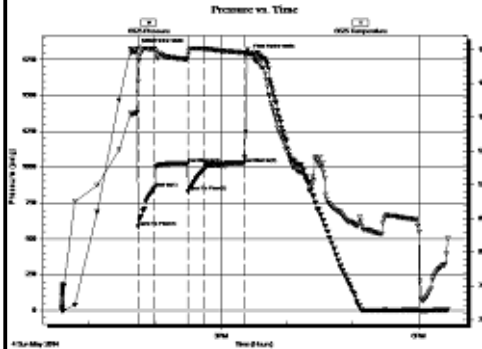
IF: weak blow built to 3"  
 FF: weak blow built to 4"  
 Rec: 165' SOCMW (1% O, 5% M, 94% W)  
 FP: 13-52, 60-89#  
 SIP: 1,099-1,085#  
 HP: 1,692-1,666#  
 BHT: 104

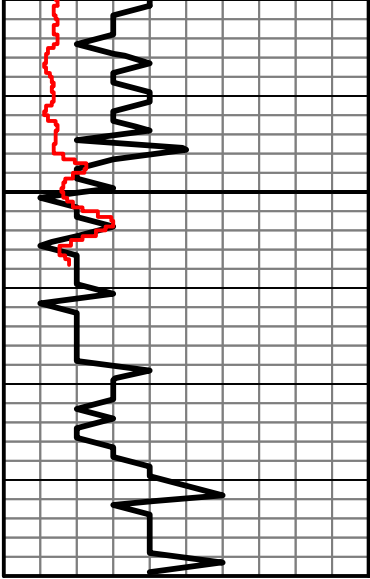


Wt: 9.1  
 Vis: 55

**DST #4 3,600'-3,677' (Reagan Sand)**  
 15"-30"-15"-30"

IF: BOB in 10 seconds, no blow back  
 FF: BOB in 30 seconds, no blow back  
 Rec: 756' SOCMW (1% O, 15% M, 84% W), 1,376'  
 MW (5% M, 95% W), 10' M  
 FP: 582-852, 829-982#  
 SIP: 1,027-1,027#  
 HP: 1,829-1,789#  
 BHT: 109





3700



● Ss: qtz, off wh-lt gry, m-fnd grn, fairly well rnd, fair-poorly sorted, poor int grn porosity, GSFO, good odor, good yel fluor

○ Ss: qtz, off wh-lt gry, fn grn, well rnd, well sorted, poor int grn porosity, SSFO, sl odor, dull yel fluor

Sh: drk gry-brn-grn

Sh: drk gry-brn-grn, scat pyrite, chalky

Sh: ala, vry soft, chalky, scat qtz: off wh-clr, DNS

**Granite 3728' (-1490)**

Qtz: off wh-pink, vry DNS

Wt: 9.4  
Vis: 54