

AUSTIN B. KLAUS



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Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Shaw #1
Location: Phillips County
License Number: API #15-147-20,680-0000
Spud Date: 5/29/12
Surface Coordinates: 1250' FSL & 2140' FEL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 1,902' K.B. Elevation (ft): 1,910'
Logged Interval (ft): 2,850' To: RTD Total Depth (ft): RTD: 3,391' LTD: 3378'
Formation: Topeka - LKC
Type of Drilling Fluid: Chemical (Andy's Mud Co.)
Region: Kansas
Drilling Completed: 6/4/2012

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

COMMENTS


The Shaw #1 well was drilled by Discovery Drilling Rig #1 (Tool pusher: Cliff Mayfield).

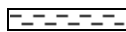



The location for the Shaw #1 was found via 3-D seismic survey. Based on the results of the five drill stem tests that were conducted, and the open hole logs and samples that were evaluated, the decision was made to set 5 1/2" production casing on 6/4/2012 to further evaluate the Shaw #1.




Respectfully submitted,

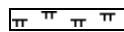

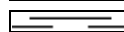
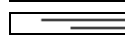
Austin Klaus
Petroleum Geologist
John O. Farmer, Inc.

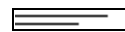



ROCK TYPES

-  Anhy
-  Bent
-  Brec
-  Cht








-  Clyst
-  Coal
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta

-  Mrlst
-  Salt
-  Shale
-  Shcol





-  Shgy
-  Sltst
-  Ss
-  Till

OTHER SYMBOLS

- #### POROSITY
-  Earthy
 -  Fenest
 -  Fracture
 -  Inter
 -  Moldic
 -  Organic
 -  Pinpoint

Vuggy

- #### SORTING
-  Well
 -  Moderate
 -  Poor

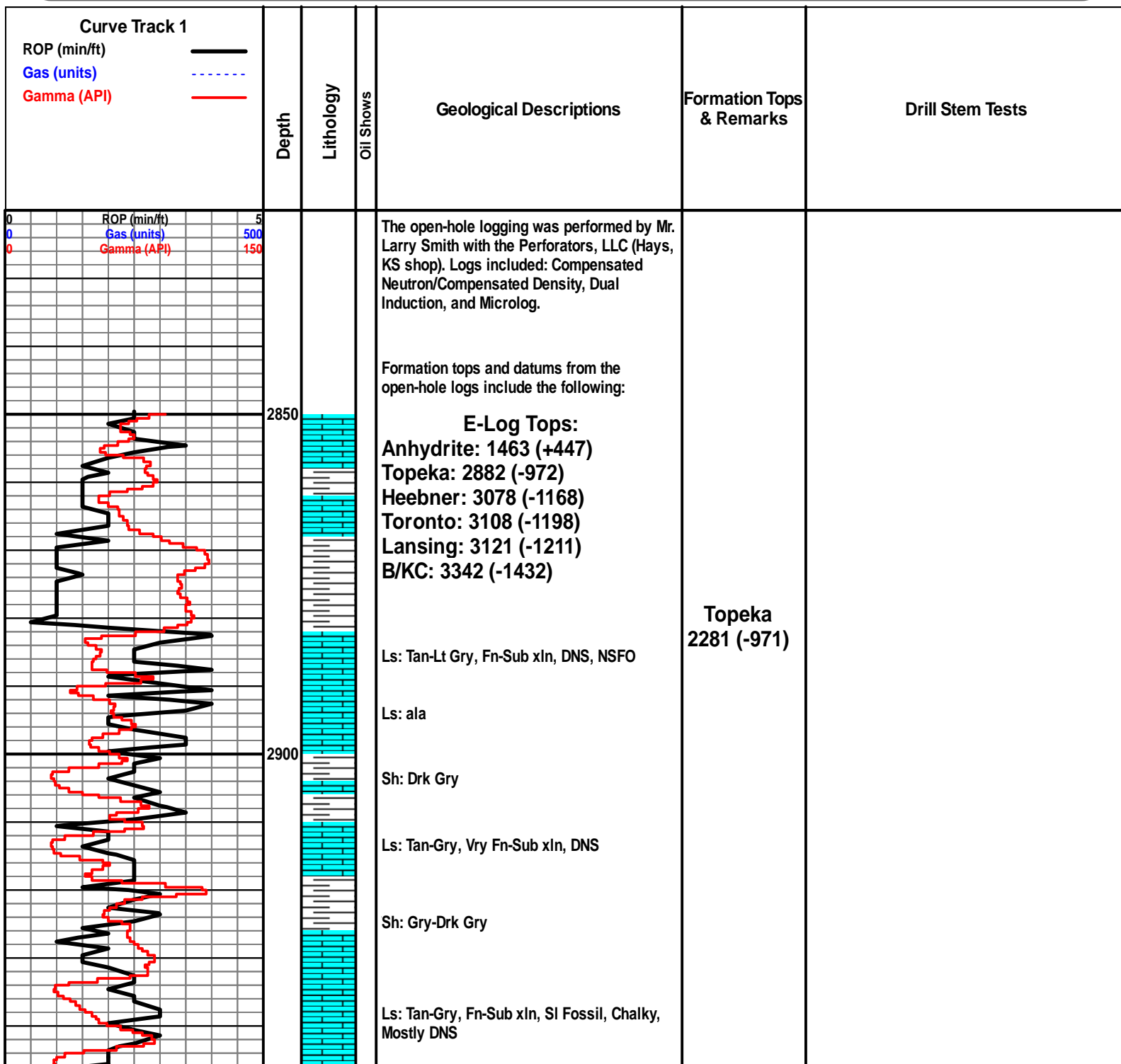
- #### ROUNDING
-  Rounded
 -  Subrnd
 -  Subang
 -  Angular

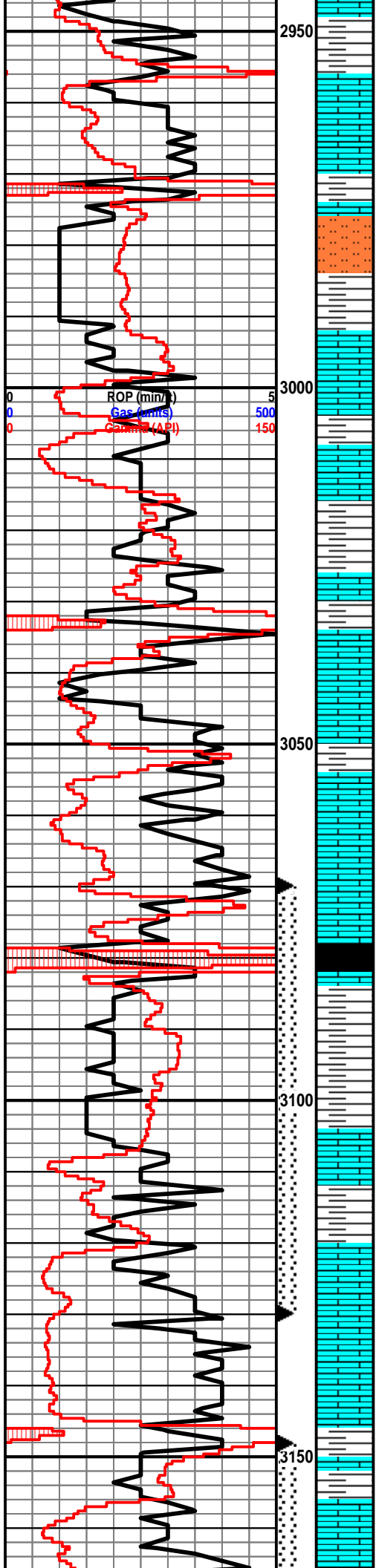
- #### OIL SHOW
-  Even

-  Spotted
-  Ques
-  Dead

- #### EVENT
-  Rft
 -  Sidewall

- #### INTERVAL
-  Core
 -  Dst





Sh: Drk Gry

Ls: Tan-Lt Gry, Fn-Sub xln, Fossil, Mostly DNS

Ls: ala

Sh: Gry

Sh,Slst: Gry, Vry Fn Grn

Ls: Tan-Gry, Fn-Sub xln, Mostly DNS

Ls: Tan-Lt Gry, Fn xln, Fossil, SI Chalky, Mostly DNS, NSFO

Sh: Gry

Sh: Drk Gry-Blk

Ls: Tan-Gry, Fn-Sub xln, Mostly DNS

Sh: Drk Gry-Grn

Ls: Off Wh-Tan, Fn-Sub xln, SI Fossil, Mostly DNS

Ls: ala, SI Chalky

Sh: Blk, Carb

Sh: Drk Gry-Grn, Vry Soft

Sh: ala

Ls: Off Wh-Tan, Fn-Sub xln, w/ Scat pinpoint vuggy porosity, Fossil, NSFO

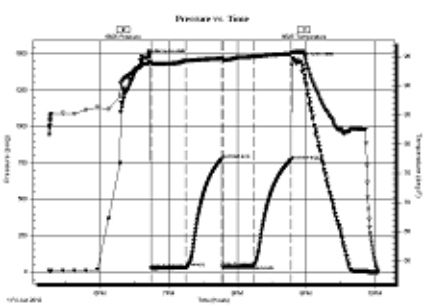
Ls: Off Wh-Tan, Fn xln, w/ Poor int xln porosity, Lt Oil St in porosity, VSSFO, SI Odor

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS

Sh: Drk Gry-Brn-Grn

Ls: Off Wh-Tan, Fn xln, w/ Scat pinpoint vuggy porosity, Lt Oil St, SSFO, Fair Odor, Fossil

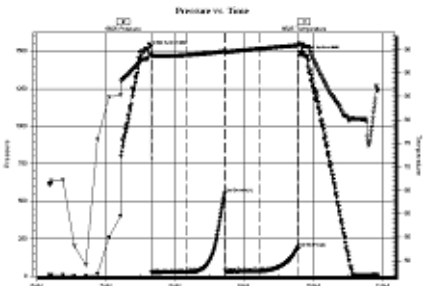
**Heebner
3078 (-1168)**



**Toronto
3105 (-1195)**

**DST #1 3,070'-3,130' Toronto-LKC A
30"-30"-30"-30"**
 IF: weak blow built to .25"
 FF: no blow
 Rec: 30' SOCM (2% O, 98% M)
 FP: 25-32, 36-42#
 SIP: 776-770#
 HP: 1,475-1,453#
 BHT: 96

**Lansing
3120 (-1210)**

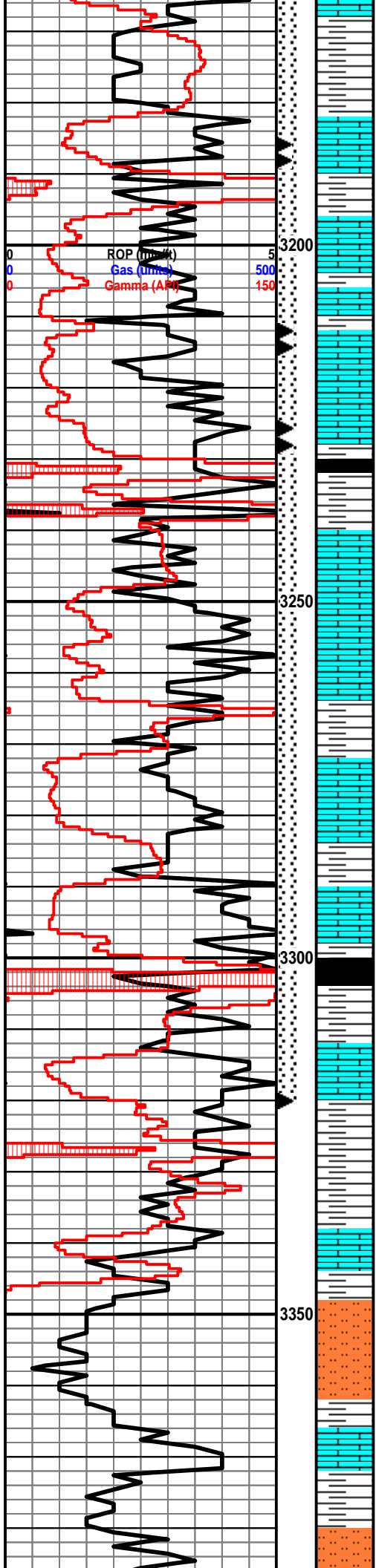


'A'

'B'

'C'

**DST #2 3,148'-3,188' LKC C-D
30"-30"-30"-30"**
 IF: weak blow built to .25"
 FF: no blow



Sh: Drk Gry-Grn-Brn, Vry Soft

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS

Sh: Gry-Brn-Grn

Ls: Off Wh-Tan, Fn xln, w/ Poor pinpoint vuggy porosity, Lt Oil St in porosity, SSFO, Fair Odor

Ls: Off Wh-Tan, Fn xln, w/ Scat pinpoint vuggy & poor int xln porosity, Lt Oil St, SSFO, SI-Fair Odor

Ls: Off Wh-Tan, Fn xln, w/ Poor-Fair pinpoint vuggy & int xln porosity, Fair Oil St, SFO, Good Odor, SI Chert

Sh: Drk Gry-Brn-Grn

Sh: Gry-Blk

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS, Heavy Chert, Chalky

Ls: Tan-Lt Gry, Fn-Sub xln, Mostly DNS

Ls: Off Wh-Lt Gry, Fn xln, w/ Fair int xln porosity, Fair Oil St in porosity, SFO, Fair-Good Odor

Sh: Gry-Brn

Ls: Off Wh-Lt Gry, Fn-Sub xln, Mostly DNS, SI Chalky

Sh: Drk Gry-Blk, Carb

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS, SI Fossil

Sh: Gry-Grn-Brn

Ls: Off Wh-Tan, Fn-Sub xln, Moslty DNS

Sh: Gry-Brn

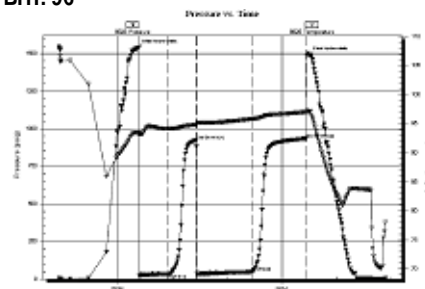
Sh, Slstst: Gry-Brn-Grn, Vry Fn Grn

Sh, Slstst: ala

Ls: Off Wh-Tan, Fn-Sub xln, DNS

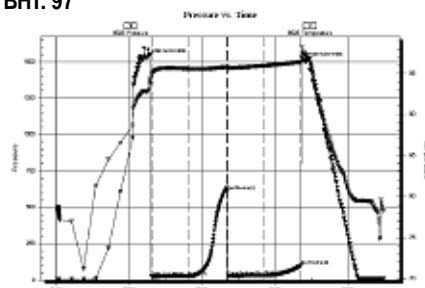
Sh, Slstst: Gry-Brn-Red, Grn, Vry Fn Grn

FP: 10-15#
 Rec: 10' OCM (10% O, 90% M)
 FP: 23-29, 31-35#
 SIP: 553-191#
 HP: 1,511-1,483#
 BHT: 96



DST #3 1,186'-3,212' LKC E-F
 30"-30"-60"-60"

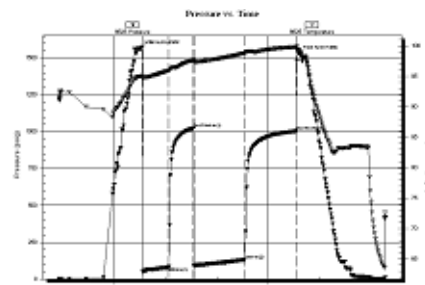
IF: surface blow
 FF: weak blow built to 1.25"
 Rec: 60' GIP, 40' CO, 30 HMC GO (10% G, 40% M, 50% O)
 FP: 23-33, 31-48#
 SIP: 923-934#
 HP: 1,539-1,491#
 BHT: 97



DST #4 3,214'-3,228' LKC G
 30"-30"-30"-30"

IF: weak blow built to .25"
 FF: surface blow
 Rec: 2' CO, 15' O&GCM (5% G, 15% O, 80% M)
 FP: 26-28, 30-34#
 SIP: 615-100#
 HP: 1,530-1,508#
 BHT: 97

**Stark
 3302 (-1392)**



DST #5 3,226'-3,320' LKC H-K
 30"-30"-60"-60"

IF: weak blow built to 4"
 FF: weak blow built to 2"
 Rec: 30' CO, 75' OCM (10% O, 90% M), 62' OCWM (10% O, 40% W, 50% M), 62' SOCMW (1% O, 20% M, 79% W)
 FP: 49-83, 90-131#
 SIP: 1,023-1,004#
 HP: 1,560-1,527#
 BHT: 99

'D'

'E'

'F'

'G'

'H'

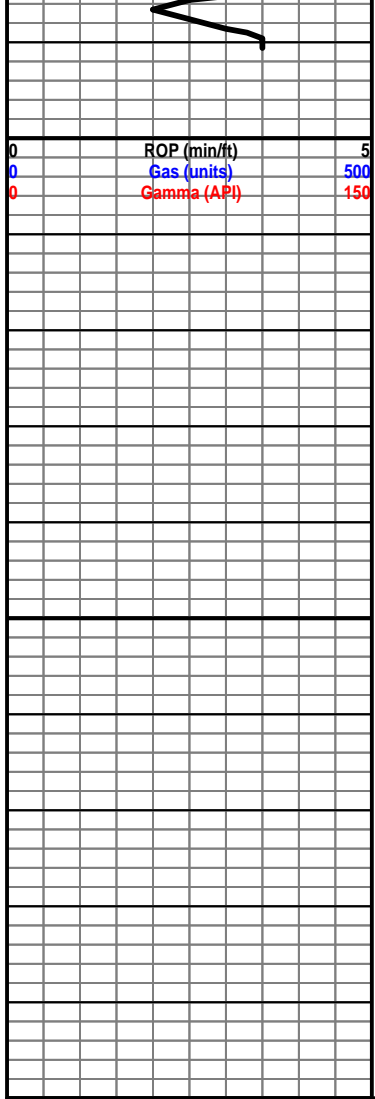
'I'

'J'

'K'

**'L'
 B/KC
 3341 (-1431)**

RTD
3391 (-1481)



3400

3450

3500

ROP (min/ft)

Gas (units)

Gamma (API)

5

500

150