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

Well Name: Radke #1
Location: Russell County
License Number: API #15-167-24,062-0000
Spud Date: 5/19/2017
Surface Coordinates: Section 28, Township 15 South, Range 14 West
330' FSL & 1600' FWL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 1,869
Logged Interval (ft): 2,700 To: 3,400
Formation: LKC & Arbuckle
Type of Drilling Fluid: Chemical (Mud Co.)

Region: Kansas
Drilling Completed: 5/28/2017
K.B. Elevation (ft): 1,877
Total Depth (ft): 3,400

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

OPERATOR

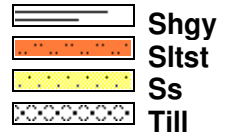
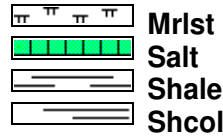
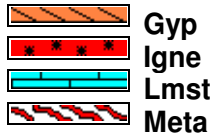
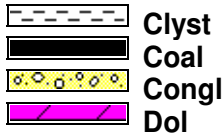
Company: John O. Farmer, Inc.
Address: 370 W. Wichita Ave.
Russell, KS 67665

Comments

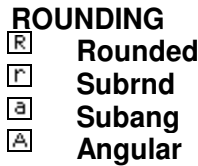
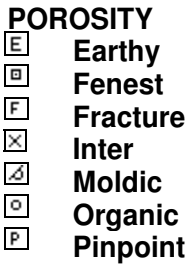
The Radke #1 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Terry Wickham).

The location for the Radke #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 2,750'-3,400'. Three bottom-hole drill stem tests were conducted in the Lansing, all yielding negative results. Structurally, the Radke #1 ran 9' low at the Lansing and 20' low at the Arbuckle, to the Becker #2 (480' FSL & 990' FEL, Sec 29-15S-14W). Upon completion of the logging operation two straddle tests were conducted over the top 20' and top 40' of the Arbuckle, both yielding negative results. Upon completion of the drill stem tests, the decision was made to plug and abandon the Radke #1 well on 5/30/17.

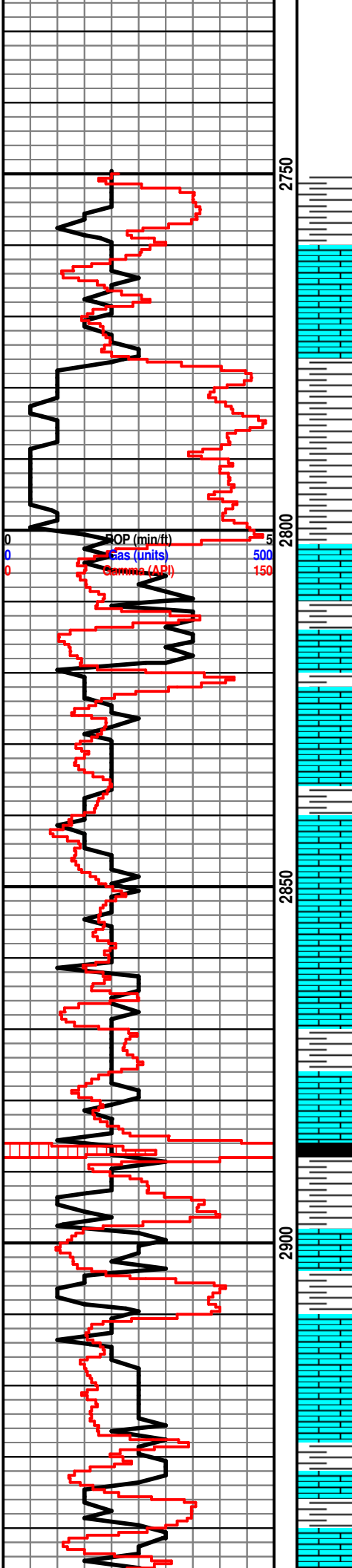
ROCK TYPES



OTHER SYMBOLS



Curve Track 1		Depth	Litholog	Geological Descriptions	DST/Mud/Survey																					
ROP (min/ft)	Gas (units)					Gamma (API)																				
0	0	0																								
500	500	500																								
150	150	150																								
Daily Progress 5/22/17 Spud @ 4:15am 5/23/17 601', Drilling 5/24/17 1,928', Drilling 5/25/17 2,748', Drilling 5/26/17 3,132', DST #1 5/27/17 3,261', CFS 5/28/17 3,410', Logging 5/29/17 3,410', Completed					The open-hole logging was performed by Mr. Casey Patterson with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density/Compensated Neutron, Dual Induction, and Micro Resistivity. Formation tops and datums from the open-hole logs include the following:																					
				<table border="1"> <tr> <td>Anhydrite</td> <td>882</td> <td>995</td> </tr> <tr> <td>Topeka</td> <td>2802</td> <td>-925</td> </tr> <tr> <td>Heebner</td> <td>3034</td> <td>-1157</td> </tr> <tr> <td>Lansing</td> <td>3098</td> <td>-1221</td> </tr> <tr> <td>B/KC</td> <td>3333</td> <td>-1456</td> </tr> <tr> <td>Arbuckle</td> <td>3351</td> <td>-1474</td> </tr> <tr> <td>TD</td> <td>3410</td> <td>-1533</td> </tr> </table>	Anhydrite	882	995	Topeka	2802	-925	Heebner	3034	-1157	Lansing	3098	-1221	B/KC	3333	-1456	Arbuckle	3351	-1474	TD	3410	-1533	Tester: Ray Schwager Mud Engineer: Rick Hughes
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Ls: tan-gry, fn-sub xln, DNS

Ls: ala

Sh: lt-drk gry

Sh: ala

Topeka 2800 (-923)

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

Ls: ala

Ls: lt gry-tan, fn xln, scat int xln porosity, NSFO

Sh: lt-drk gry

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

Ls: ala

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

Sh: lt-drk gry, few pcs black

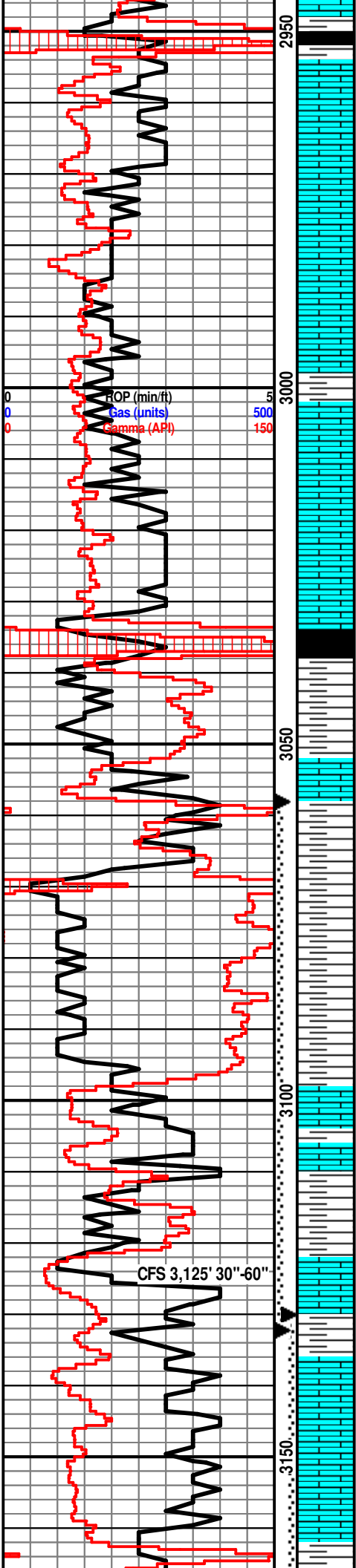
Sh: lt gry-drk gry

Ls: tan-gry, fn-md xln, scat int xln porosity, sl oil stn, NSFO, scat pyrite

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

Sh: lt-drk gry

Ls: tan-gry, fn-sub xln, mostly DNS, scat fossil



Sh: drk gr-blk

Ls: tan-lt gry, fn xln, mostly DNS, scat chalk

Ls: ala

Ls: off wh-tan, fn xln, poor int xln porosity, scat fossil

Ls: off wh-tan, fn xln, scat fair int xln porosity, scat oil stn, NSFO

Sh: lt gry

Ls: tan-lt gry, fn xln, mostly DNS, NSFO

Ls: ala

Heebner 3031 (-1154)

Sh: drk gry-blk, carb, fissile

Sh: lt gry-drk gry

Toronto 3049 (-1172)

Ls: off wh-tan, fn xln, poor int xln porosity, scat oil stn, VSSFO, sl odor, scat chalk

Sh: lt gry-drk gry, soft

Sh: ala

Sh: lt gry-drk gry, brn

Lansing 3093 (-1216)

Ls: off wh-tan, fn-md xln, poor int xln porosity, scat chalk, NSFO

Sh: lt gry-drk gry

CFS 3,125' 30"-60"

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

Sh: drk gry

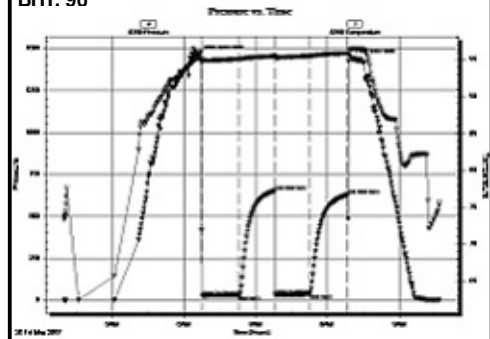
Ls: off wh-tan, fn xln, ool, poor oom porosity, scat oil stn, NSFO, scat chalk, scat pyrite

Ls: ala

Sh: lt-drk gry

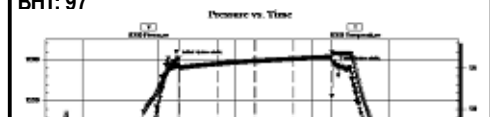
DST #1 3,058-3,132' (LKC A-C)

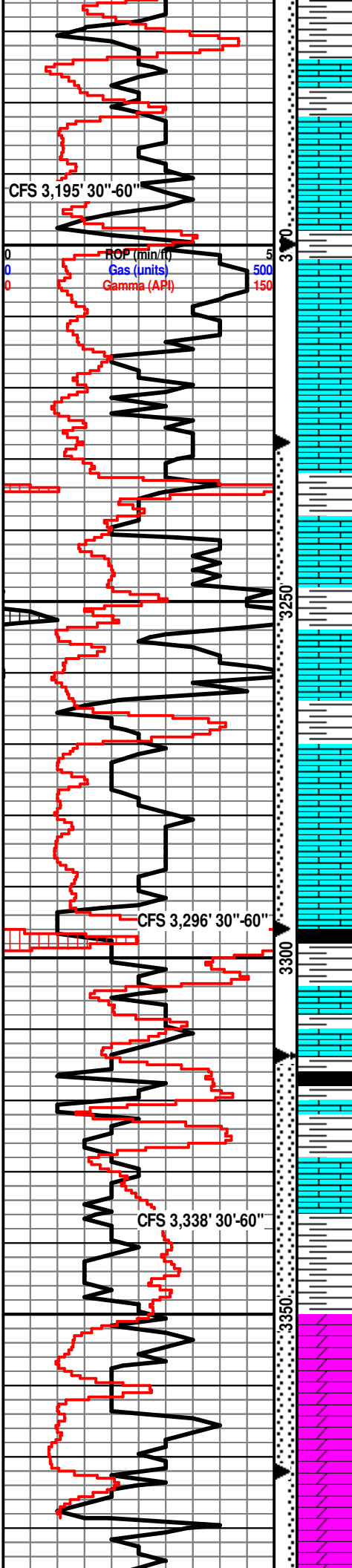
30"-30"-30"-30"
 IF: weak blow, built to 1.5"
 FF: no blow
 Rec: 20' Mud with oil show
 FP: 26-30, 31-35#
 SIP: 651-627#
 HP: 1,463-1,437#
 BHT: 96



DST #2 3,130-3,200' (LKC D-F)

30"-30"-30"-30"
 IF: weak blow, died in 20 minutes
 FF: no blow
 Rec: 10' Mud
 FP: 15-14, 15-15#
 SIP: 114-78#
 HP: 1,500-1,464#
 BHT: 97





Ls: off wh-tan, fn xln, ool, poor int oom porosity, scat oil stn, VSSFO, sl odor

Sh: lt gry-drk gry

Ls: off wh-tan, fn xln, ool, scat int xln porosity, poor int oom porosity, scat oil stn, SSFO, sl odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, poor int xln porosity, NSFO

Ls: off wh-tan, fn xln, ool scat int xln & ool porosity, scat chalk, NSFO

Sh: lt-drk gry

Ls: lt gry, fn-sub xln, mostly DNS, NSFO, scat chalk

Sh: lt gry

Ls: off wh-tan, fn xln, foss, poor-fair int fossil porosity, scat oil stn, SSFO, sl odor

Sh: drk gry-blk

Ls: off wh-tan, fn xln, ool, poor-fair ool porosity, scat int xln porosity, fair oil stn, SSFO, sl odor

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

Sh: drk gry-blk

Ls: ala

Sh: drk gry-blk

B/KC 3323 (-1446)

Sh: lt gry-drk gry-brn

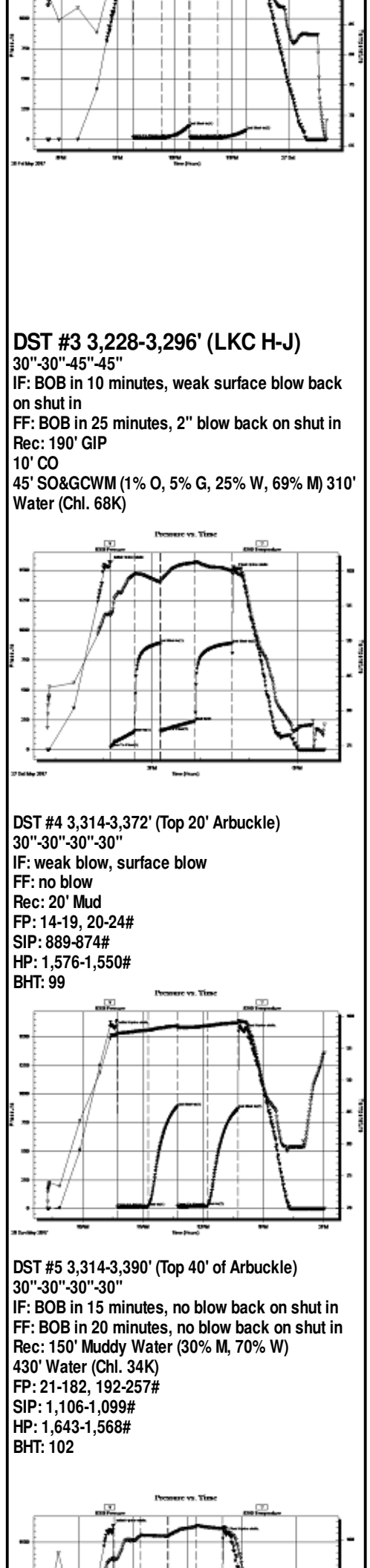
Ls: tan-gry, fn-sub xln, mostly DNS, chert-off wh, NSFO

Arbuckle 3348 (-1471)

Dolo: off wh-tan, fn-md xln, fair int xln porosity, scat oil stn, VSSFO, sl odor, scat chalk

Dolo: off wh-tan, fn-md xln, poor-fair int xln porosity, fair oil stn, SSFO, sl odor

Dolo: off wh-tan, fn-md xln, fair int xln porosity, lt brn oil stn, VSSFO, sl odor



DST #3 3,228-3,296' (LKC H-J)

30"-30"-45"-45"

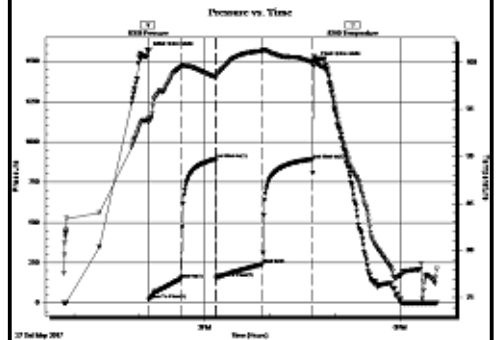
IF: BOB in 10 minutes, weak surface blow back on shut in

FF: BOB in 25 minutes, 2" blow back on shut in

Rec: 190' GIP

10' CO

45' SO&GCWM (1% O, 5% G, 25% W, 69% M) 310' Water (Chl. 68K)



DST #4 3,314-3,372' (Top 20' Arbuckle)

30"-30"-30"-30"

IF: weak blow, surface blow

FF: no blow

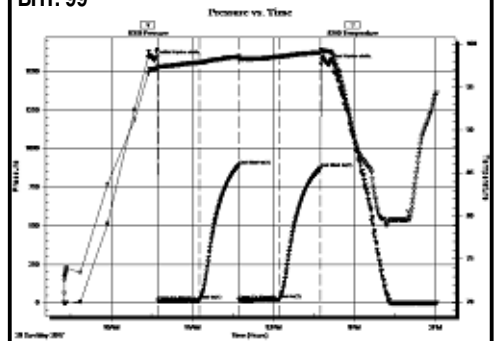
Rec: 20' Mud

FP: 14-19, 20-24#

SIP: 889-874#

HP: 1,576-1,550#

BHT: 99



DST #5 3,314-3,390' (Top 40' of Arbuckle)

30"-30"-30"-30"

IF: BOB in 15 minutes, no blow back on shut in

FF: BOB in 20 minutes, no blow back on shut in

Rec: 150' Muddy Water (30% M, 70% W)

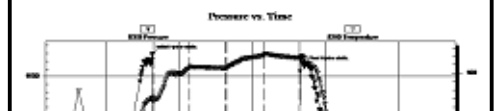
430' Water (Chl. 34K)

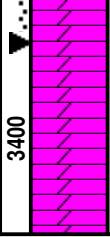
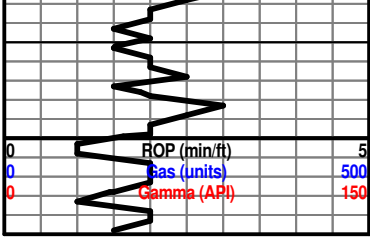
FP: 21-182, 192-257#

SIP: 1,106-1,099#

HP: 1,643-1,568#

BHT: 102





Dolo: off wh-tan, fn-md xln, fair int xln porosity, scat oil str, NSFO, scat chalk

Dolo: ala

