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

Well Name:	Beach A #2		
Location:	Ellis County		
License Number:	API #15-051-26917-00-00	**Region:**	Kansas
Spud Date:	6/6/2018	**Drilling Completed:**	6/11/2018
Surface Coordinates:	Section 21, Township 11 South, Range 17 West 2,278' FNL & 913' FEL		
Bottom Hole Coordinates:	Vertical well w/ minimal deviation, same as above		
Ground Elevation (ft):	1,837	**K.B. Elevation (ft):**	1,845
Logged Interval (ft):	2,800 To: RTD	**Total Depth (ft):**	3,440
Formation:	LKC-Arbuckle		
Type of Drilling Fluid:	Chemical (Andy's)		

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OPERATOR

Company: American Oil, LLC
Address: 1200 Main, Suite 410
Hays, KS 67601

GEOLOGIST

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

Comments

The Beach A #2 well was drilled by Discovery Drilling Rig #1 (Tool Pusher: Cliff Mayfield).

The Beach A #2 was drilled as production offset to the Fred A. Bemis #4 well (1937). Rock samples were gathered and evaluated from 2,800'-3,440'. Oil shows were encountered in the LKC C,D,F, I, J, K and Arbuckle. Structurally, the Heebner top was picked 2' low to the comparison well, 800' to the northeast (Beach A #1 - 1982'). Structure remained consistent through the LKC, which resulted in a B/KC picked 1' low to the comparison well. Thinning occurred below the B/KC and the Arbuckle top was picked 6' high to Beach A #1 and 1' high to the offset well (Fred A. Bemis #4). After evaluation of all oil shows and electric logs, it was decided that 5 1/2" production casing be set to further evaluate the Beach A #2 on 6/11/2018.

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

INTERVAL: Core, Dst

EVENT: Rft, Sidewall

Curve Track 1
ROP (min/ft)
Gas (units)
Gamma (API)

Depth | Lithology | Oil Shows | Geological Descrip | DST/Mud/Survey

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

6/6/2018 Spud @ 12:30 pm

6/7/2018 978', Drilling

6/8/2018 1,290', Drilling

6/9/2018 2,150', Drilling

6/10/2018 2,895', Drilling

6/11/2018 3,440', CTCH Before Logs

26

2700

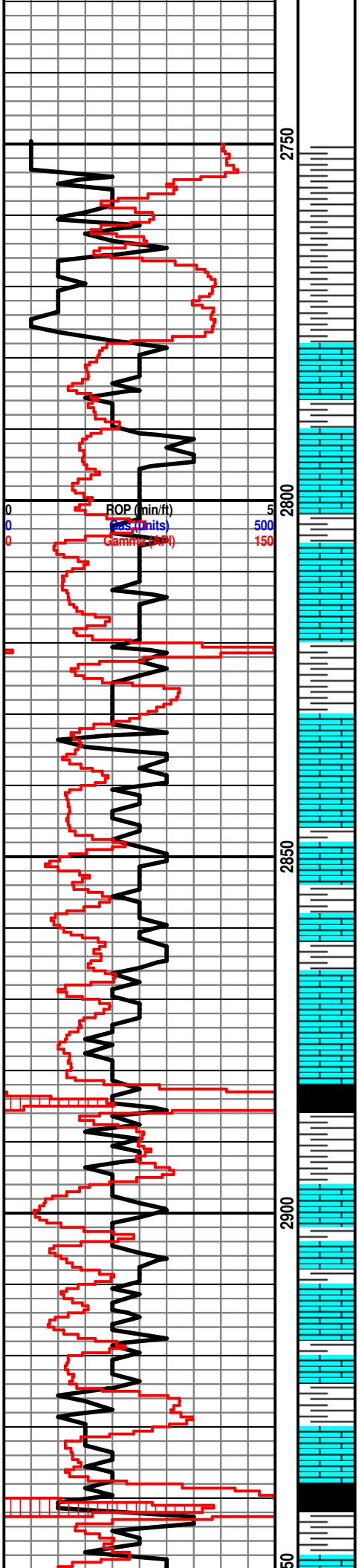
The open-hole logging was performed by Mr. Casey Patterson with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density Neutron & Dual Induction.

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

Formation	E-Log	Datum
Anhydrite	1060	785
Topeka	2778	-933
Heebner	3009	-1164
Toronto	3030	-1185
Lansing	3054	-1209
B/KC	3291	-1446
Arbuckle	3350	-1505
LTD	3441	-1596

Mud Engineer:
Aaron Blew

Tester:
No Drill Stem Tests



Sh: lt-drk gry

Sh: ala

Topeka 2777' (-932)

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

Sh: drk gry

Ls: tan-buff, fn xln, foss, scat int xln porosity, sl oil stn in porosity, NSFO

Ls: tan-gry, fn-sub xln, scat chalk

Ls: ala

Ls: tan-gry, fn xln, scat foss, poor int xln porosity, scat dead oil stn, NSFO

Sh: drk gry

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

Sh: drk gry-blk

Sh: lt-drk gry

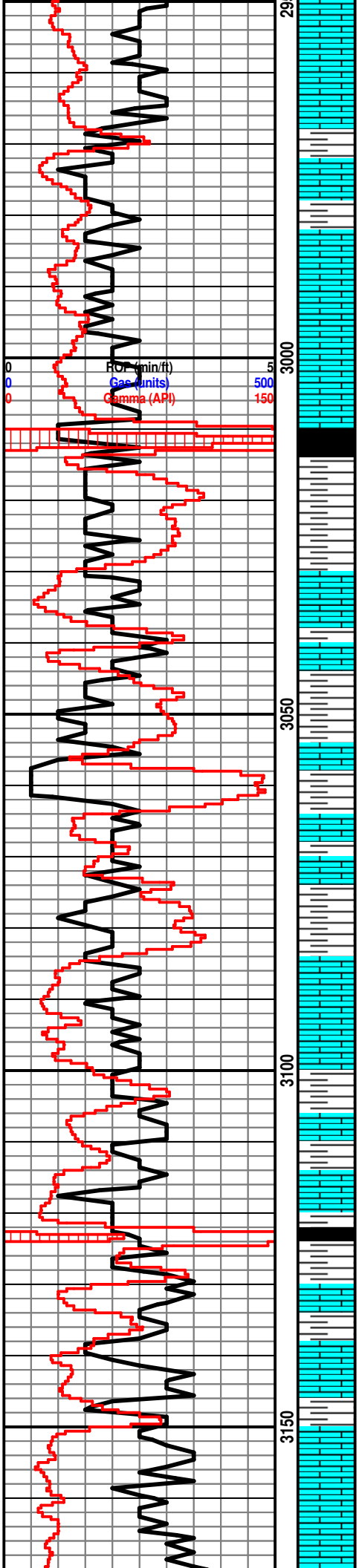
Ls: tan-gry, fn xln, DNS, NSFO

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

Ls: ala

Wt: 8.8
Vis: 49

Sh: drk gry-blk



Ls: off wh-tan, fn xln, scat foss, mostly DNS, NSFO, scat chalk

Ls: ala

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

Heebner 3008' (-1163)

Sh: blk, carb, fissile

Sh: drk gry-brn

Toronto 3031' (-1186)

Ls: off wh-tan, fn xln, scat foss, poor int xln & foss porosity, scat dead oil stn, NSFO, scat chalk

Sh: drk gry-brn

Lansing 3053' (-1208)

Ls: off wh-tan, fn xln, poor int xln porosity, scat dead oil stn in few rx, NSFO

Sh: drk gry-brn

Ls: off wh-tan, fn xln, poor int xln porosity, scat oil stn in porosity, NSFO, scat chalk

Sh: drk gry-brn, soft

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

Sh: lt-drk gry

Ls: off wh-tan, fn xln, foss, poor int xln & int foss porosity, fair oil stn in porosity, VSSFO, fnt odor

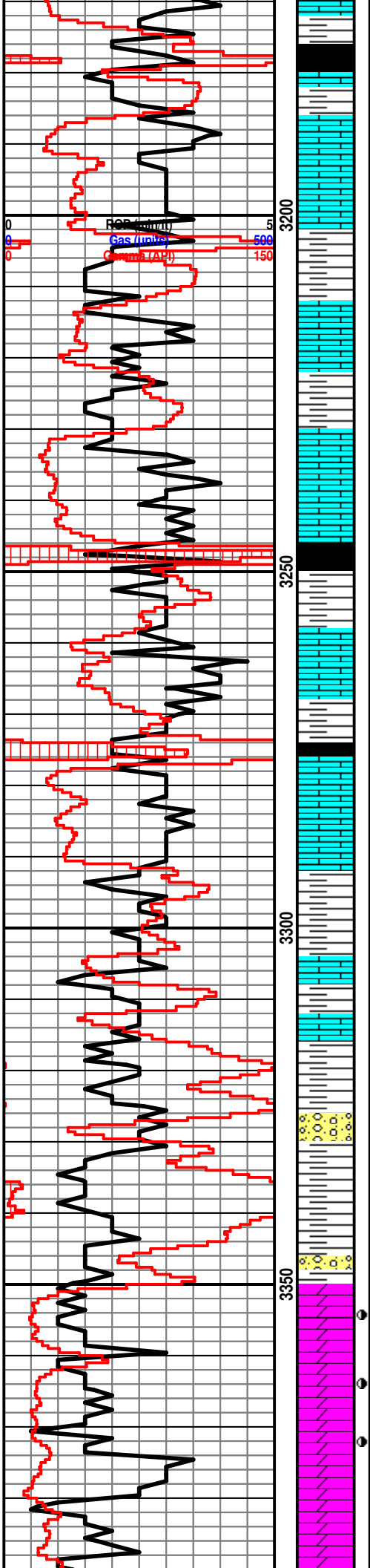
Sh: lt-drk gry

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

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

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

Ls: off wh-tan, fn xln, fair int xln & scat vuggy porosity, scat oil stn, VSSFO, fnt odor



Sh: drk gry-blk

Sh: lt-drk gry

Ls: off wh-tan, fn xln, poor int xln & vuggy porosity, scat fair oil stn in porosity, NSFO, no odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, poor-few rx fair int xln & vuggy porosity, scat fair oil stn, VSSFO, fnt odor, scat chalk

Sh: drk gry

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

Sh: drk gry-blk

Sh: drk gry

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

Sh: lt-drk gry

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

B/KC 3290' (-1445)

Sh: drk gry-brn

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

Sh: lt-drk gry, scat brn

Sh: drk brn-rd

Cong: off wh-tan, fn-sub xln, NSFO, chert-off wh

Sh: drk gry-grn

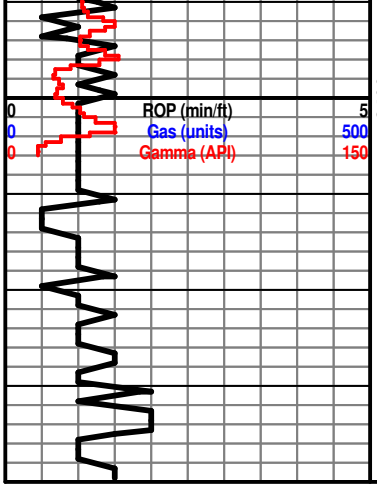
Arbuckle 3351' (-1506)

Dolo: off wh-tan, md-crs xln, good sucrosic xln porosity, fair-good oil sat, SSFO, fair odor

Dolo: off wh-tan, fn-md xln, good sucrosic xln porosity, good oil sat, FSFO, fair odor, scat sh: drk grn

Dolo: off wh-tan, fn-md xln, fair-good sucrosic xln porosity, scat fair oil stn, SSFO, fair odor

Dolo: off wh-tan, fn-md xln, fair-good int xln porosity, sl-fair oil sat, VSSFO, fair odor



3400

Dolo: off wh-tan, md xln, good int xln porosity, lt oil shn on rx, NSFO

Dolo: off wh-tan, fn-md xln, fair-good int xln porosity, barren, chert-off wh

Dolo: ala

Dolo: off wh-tan, fn xln, no visible porosity, NSFO

Wt: 9.1
Vis: 48