KOLAR Document ID: 1427563

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34888
Name: American Oil LLC
Address 1: 1200 MAIN SUITE 410
Address 2:
City: HAYS State: KS Zip: 67601 + ____
Contact Person: Zach Patterson
Phone: (785) 259-3717
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Austin Klaus
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

6/6/2018 Spud Date or Recompletion Date
6/11/2018 Date Reached TD
8/1/2018 Completion Date or Recompletion Date

API No.: 15-051-26917-00-00
Spot Description:
NE - SW - SE - NE Sec. 21 Twp. 11 S. R. 17 ☐ East ☑ West
2278 Feet from ☑ North / ☐ South Line of Section
913 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: (e.g. xx.xxxxx) , Long: (e.g. -xxx.xxxxx)
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ellis
Lease Name: BEACH 'A' Well #: 2
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1837 Kelly Bushing: 1845
Total Vertical Depth: 3440 Plug Back Total Depth: 3410
Amount of Surface Pipe Set and Cemented at: 978 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 5000 ppm Fluid volume: 160 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 11/16/2018

Operator Name: American Oil LLC Lease Name: BEACH 'A' Well #: 2

Sec. 21 Twp. 11 S. R. 17 ☐ East ☑ West County: Ellis

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

Dual Induction
Compensated Density Neutron

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Arbuckle	3350	-1505

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	978	Common	320	3% cc 2% Gel
Production	7.875	5.50	15.50	3435	Common	175	NA

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☑ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	5		1200		

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top: 3351 Bottom: 3355

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	3351	3355			

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	American Oil LLC
Well Name	BEACH 'A' 2
Doc ID	1427563

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	978	Common	320	3% cc 2% Gel
Production	7.875	5.50	15.50	3435	Common	175	NA

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 488

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-7-18	21	11	17	Ellis	KS		12:15 PM

Location Codell + River Rd 1W 1½ S

Lease Beach "A" Well No. #2

Contractor Discovery #1

Type Job Surface

Hole Size 12¼ T.D. 978'

Csg. 8⅝ Depth 978'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint 42'

Meas Line Displace 59½

EQUIPMENT

Pumptrk 5 No. Cementer Helper Brent

Bulktrk 21 No. Driver Driver Jordan

Bulktrk No. Driver Driver

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Ran 978' 8⅝ Est circulation
Mix 400 sx
Displaced 59½ bbl
Landed plug @ 800 lbs

Cement circulated!!

Owner

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To American Oil

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 400 80/20 3% cc 2% Gel

Common	320
Poz. Mix	80
Gel.	8
Calcium	14
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	422
Mileage	

8⅝ **FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	Baffle plate - 1
	Rubber plug - 1
Pumptrk Charge	Long Surface
Mileage	25
Tax	
Discount	
Total Charge	

x Signature Jeff Mayfield

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 844

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-11-18	21	11	17	Ellis	KS		9:30pm

Location Codell 9 River Road 1W 3/0 1S 1W

Lease Beach A Well No. 2

Contractor Discovery #1

Type Job Production String

Hole Size 7 7/8 T.D. 3440'

Csg. 5 1/2 15.50# Depth 3435

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 25 Shoe Joint ~~35~~ 25'

Meas Line Displace 81 BL

EQUIPMENT

Pumptrk 5 No. Cementer Craig

Helper

Bulktrk No. Driver Brett

Driver

Bulktrk 14 No. Driver

Driver Doug

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30SK

Mouse Hole 15SK

Centralizers

Baskets

D/V or Port Collar

5 1/2 Set @ 3435. Baffle @ 3410.

Est. Circulation. Pump 500 gal mud Clean 10 BL KCL. Plug Rathole & Mousehole. Cement 5 1/2 with 130SK Class A Displace Plug. 1st 10 BL KCL Plug landed @ 1500#

Owner

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To American Oil

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 175 com 10% Salt .5% Gilsonite 500 gal mud Clean 20 BL KCL

Common 175

Poz. Mix

Gel. KCL 2 gal

Calcium

Hulls

Salt 15

Flowseal

Kol-Seal 875#

Mud CLR 48 500 gal

CFL-117 or CD110 CAF 38

Sand

Handling 198

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer 6

Baskets 1

AFU Inserts

Float Shoe 1

Latch Down 1

Pumptrk Charge Prod String

Mileage 25

Tax

Discount

Total Charge

X Signature

AUSTIN B. KLAUS

Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

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)		

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

26

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

2700

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

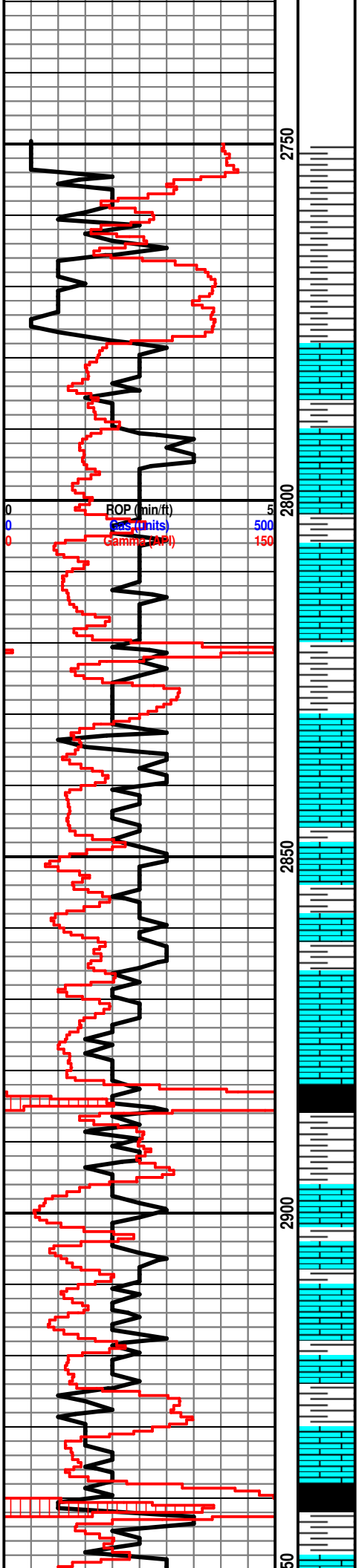
The open-hole logging was performed by Mr. Casey Patterson with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density Neutron & Dual Induction.

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

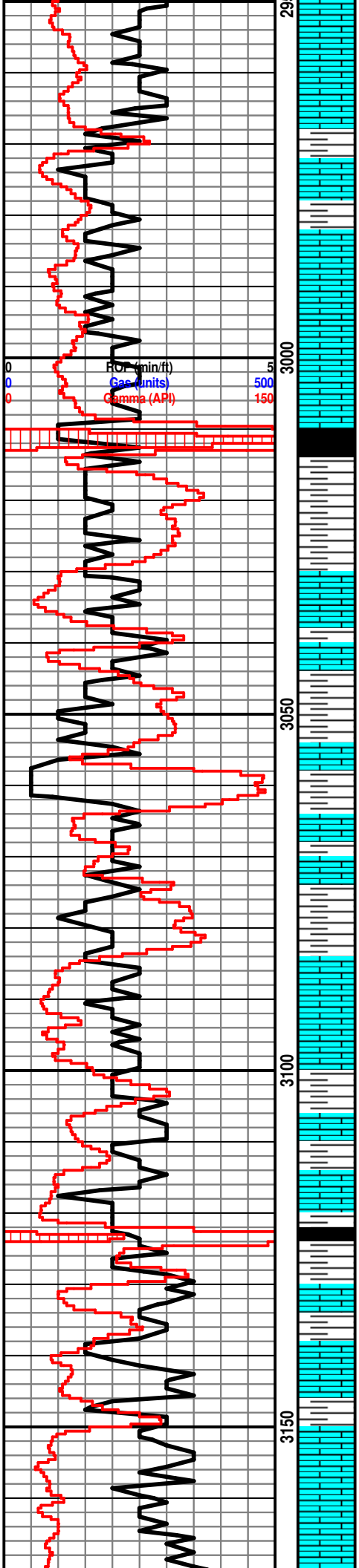
Ls: tan-gry, fn xln, DNS, NSFO

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

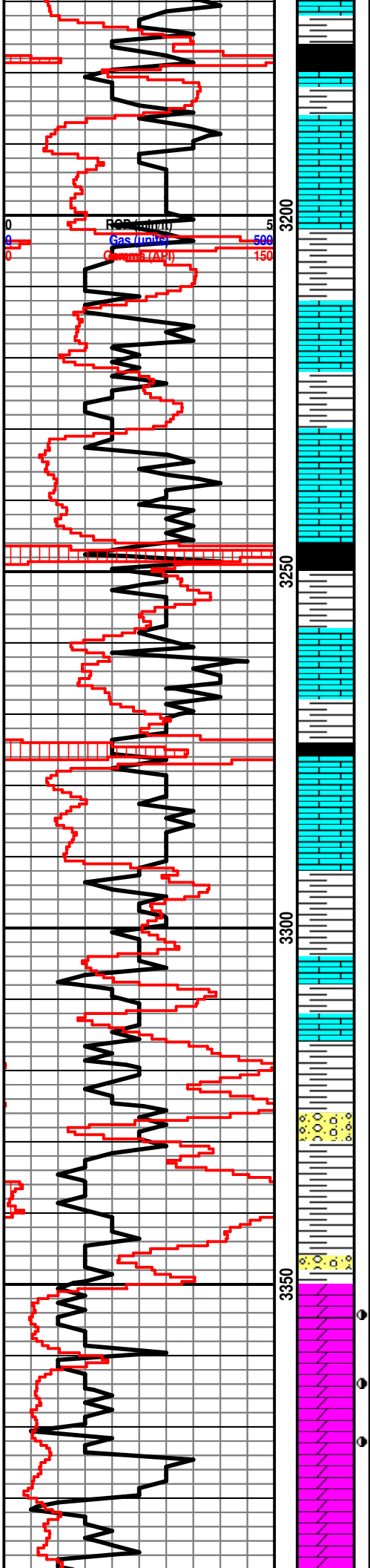
Sh: lt-drk gry

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

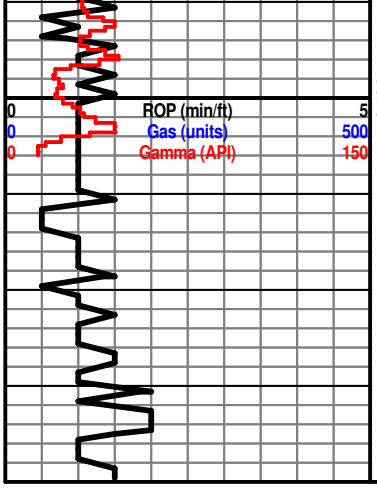
Arbuckle 3351' (-1506)

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