### LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: Waugh B #3

**Location: Wabaunsee County** 

License Number: API # 15-197-20299-00-00 Region: Kansas Spud Date: 7/24/13 **Drilling Completed: 7/29/13** 

Surface Coordinates: Section 18 - Township 15 South - Range 12 East

1,750' FSL & 1,290' FWL

Bottom Hole Vertical well with minimal deviation, same as above

Coordinates:

Ground Elevation (ft): 1,291' K.B. Elevation (ft): 1,299' Logged Interval (ft): 2,100 To: RTD Total Depth (ft): 3,110'

Formation: Miss-Arbuckle

Type of Drilling Fluid: Chemical (Fud-Mud Co.)

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

#### **OPERATOR**

Company: John O. Farmer, Inc.

Address: P.O. Box 352

Russell, KS 67665-0352

#### Comments

The Waugh B #3 well was drilled by Gulick Drilling Rig #1 (Tool Pusher: Mike Stafford).

The location for the Waugh B #3 well was located via 3D seismic survey. Geologic samples were collected and examined from 2,250'-3,110'. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to run 5 1/2" production casing on 7/30/13 to further evaluate the Waugh B #3 well.

# **ROCK TYPES**





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<b>U</b>		mota	
Curve Track 1  ROP (min/ft)  Gas (units)  Gamma (API)	Depth Lithology	Geological Descriptions	Drill Stem Tests
0 ROP (min/ft) 10 Gas (units) 500 Camma (API) 150	21	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: Cody Bloedorn

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

					rollowing:	
					Miss	2286
			2200		Kinderhook	2628
0	ROP (min/ft) Gas (units)	10 500	75		Hunton	2771
0	Gamma (API)	150			Maq	2813
	7/24/13 @ 1:30	pm-			Viola	2880
	Spud				Simp. SD	3002
	7/25/13 @ 7:00	am-			Arbuckle	3052
	Drlg, 549'				RTD	
	7/26/13 @ 7:00 Drlg, 2,095'	am-			LTD	3110
			2250		Sh: blk, carb, few pc	s pyrite
	1				Sh: drk gry-blk, carb	, fissile, pyrit
}	2				Sh: blk, carb, blky, fe	ew pcs ss, vr
\$					Mississipp	oian 2285
				<del></del>	Dolo: off wh-lt gry, fn porosity	xIn, DNS, po
\$			2300	1/	Dolo: tan-brn, fn-md x	(In, mostly D
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					Dolo: off wh-tan, fn-si few pcs w/ poor int x chert-off wh	ub xIn, mostly In porosity, s
				-/	Dolo: ala	
			2350	4	Dolo: off wh-cream, fi chalky, scat chert	n xIn, poor in
				4	Sh: drk gry	
					Dolo: off wh-tan, fn-si xln porosity, hvy che	
\$				<del>-</del>	Dolo: tan-brn, fn xln, hvy chert-off wh, NSf	poor int xIn p O
A	,			-/- 	Sh: drk gry	
			2400		Dolo: ala	
	Gamma (API)	10 500 150	7	4		

Tollowing:		
Miss	2286	-987
Kinderhook	2628	-1329
Hunton	2771	-1472
Maq	2813	-1514
Viola	2880	-1581
Simp. SD	3002	-1703
Arbuckle	3052	-1753
RTD	1	
LTD	3110	-1811

ite, scatt Is

ry fn grn

## 5' (-986)

oor int xIn

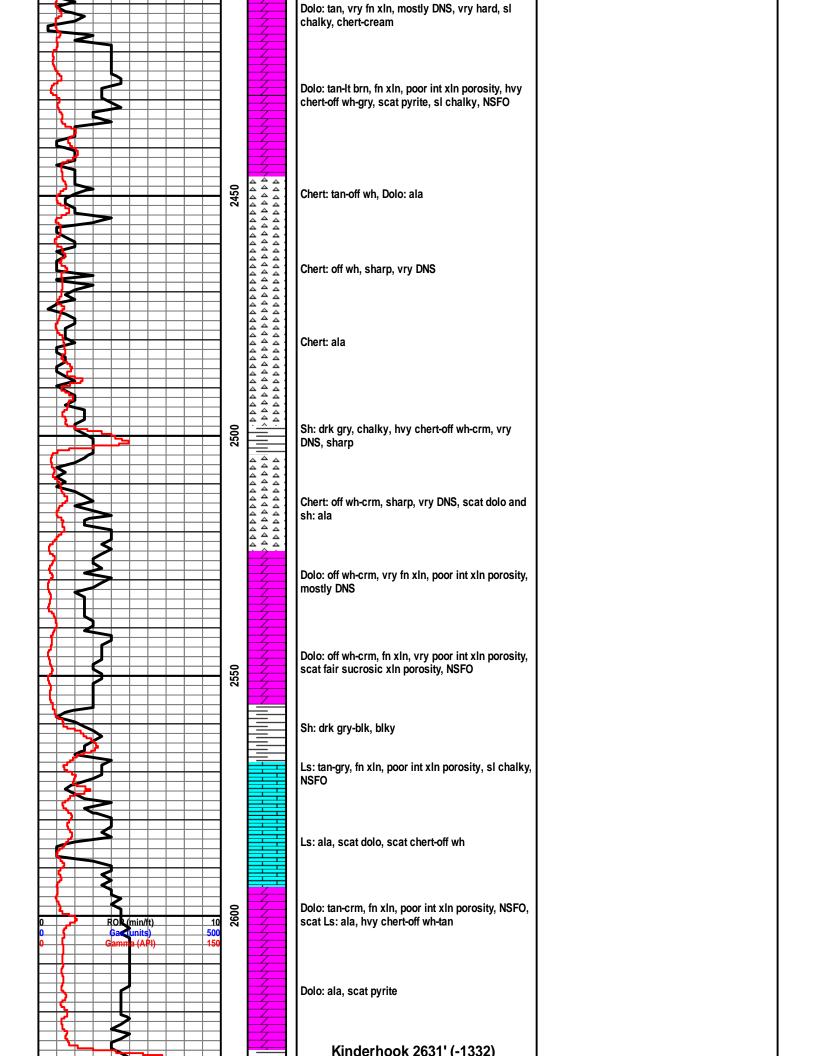
DNS, vry hard, sl

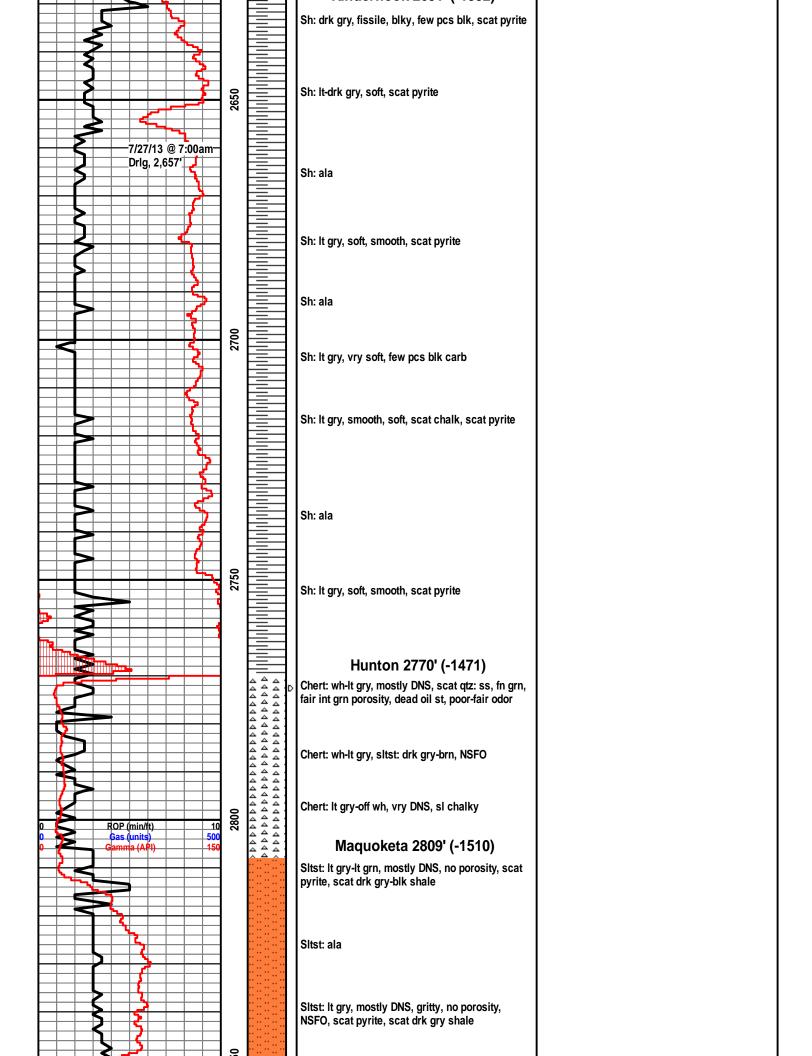
tly DNS, hard, sl chalky,

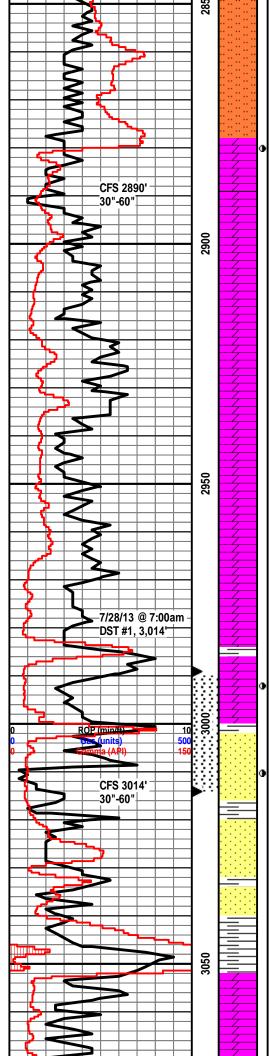
nt xIn porosity,

tly DNS, poor int

porosity, chalky,







Sitst: ala

### Viola 2874' (-1575)

Dolo: off wh-tan, fn-md xln, fair-good int xln porosity, fair show heavy free oil, good odor, dull fluor, bright yel streaming cut

Dolo: off wh-lt gry, fn-sub xln, mostly DNS, poor int xIn porosity, poor show heavy free oil, fair-good odor, no yel fluor, scat chert-off wh

Dolo: It gry-It brn, fn xln, poor int xln porosity, mostly DNS, NSFO, no odor, sI chert-off wh

Dolo: tan-brn, fn xln, poor int xln porosity, mostly DNS, vry hard, sI chert-off wh

Dolo: ala

Dolo: drk brn-tan, fn xln, poor int xln porosity, mostly DNS, vry hard, NSFO, no odor, sl chert-off wh-lt gry

Dolo: ala, few pcs drk gry shale

## Simpson Dolo 2982' (-1683)

Dolo: drk brn, fn xln, poor int xln porosity, FSFO, fair-good odor, scat chert-off wh-tan, scat ss: fn grn, fair int grn porosity, SSFO

## Simpson Sand 3000' (-1701)

Ss: qtz, off wh-drk brn, vry fn-fn grn, fairly well rounded, fairly well sorted, fair int grn porosity, poorly cemented-friable, good oil saturation, FSFO, good odor, fair yel fluor

Sh: It-drk gry-brn-blk

Ss: qtz, wh, vry fn-fn grn, well rounded, fair-poorly sorted, poor int grn porosity, well cemented, dead oil st, NSFO, sl odor, no yel fluor, scat pyrite

Sh: drk gry-grn, few pcs soft, hvy pyrite

#### **Arbuckle 3051' (-1752)**

Dolo: tan-It brn, fn xln, vry poor int xln porosity, mostly DNS, sI chert-wh-off wh, scat pyrite, NSFO

Dolo: off wh-lt tan fn-md xln noor int xln norosity

DST #1 2,989'-3,014' (Top 12' of Simpson Sd) IF: weak blow built to 2", no blow back FF: weak blow built to 3", no blow back Rec: 5' CO

62' HMCO (40% M, 60% O) 124' HMCO (50% M, 50% O) 62' OCM (5% O, 95% M) FP: 25-55, 66-116#

SIP: 942-952# HP: 1,412-1,417#

**BHT: 113** 

