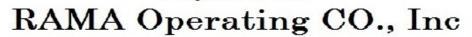


Joshua R. Austin Petroleum Geologist

report for





COMPANY: RAMA Operating Company, Inc.

LEASE: Kummer #5-4

FIELD: Chase-Silica

LOCATION: Se-Nw-Nw-Ne (500' FNL & 2080' FEL)

SEC: 4 TWSP: 20s RGE: 11w

COUNTY: Barton STATE: Kansas

KB: <u>1783'</u> GL: <u>1774'</u>

API # 15-159-26058-00-00

CONTRACTOR: Sterling Drilling (rig #4)

Spud: 11/28/2014 Comp: 12/03/2014

RTD: <u>3355'</u> LTD: <u>N/A</u>

Mud Up: 2600' Type Mud: Chemical was displaced

Samples Saved From: 2600'-RTD

Drilling Time Kept From: 2600'- RTD

Samples Examined From: 2600' - RTD

Geological Supervision From: 2880' to RTD

Geologist on Well: <u>Josh Austin</u> Surface Casing: <u>8 5/8" @335'</u> Production Casing: <u>none</u>

Electronic Surveys: none

NOTES

Due to the low structural position and lack of shows in the samples, it was recommeded by all parties involved in the Kummer 5-4 that it be plugged and abandonded at the rotary total depth 3355'.

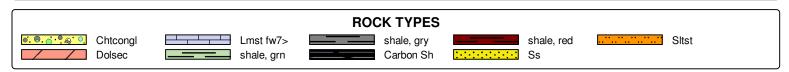
RAMA Operating Co., Inc. well comparison sheet

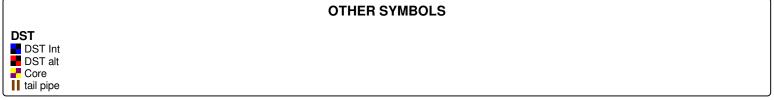
DRILLING WELL

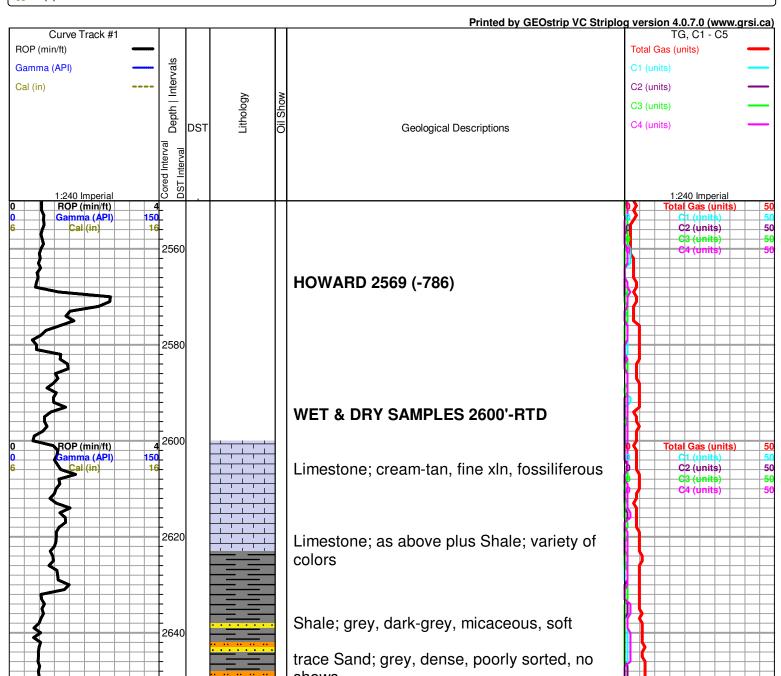
COMPARISON WELL

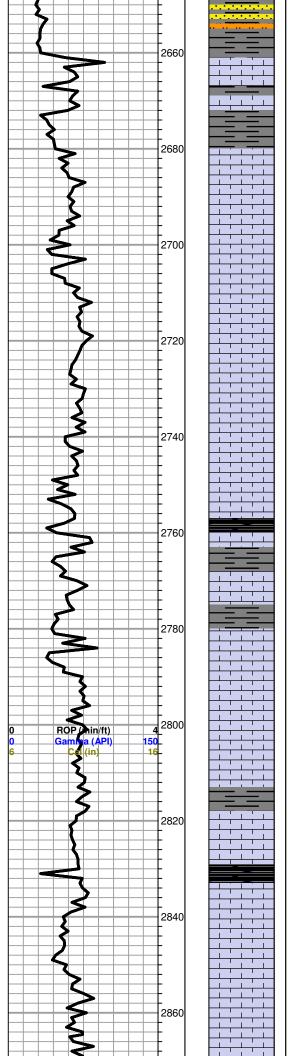
COMPARISON WELL

	Kummer 5-4				Kummer 4-4				Schmidt 1			
										C-SE-1	NE-NE	
							Structural				Struct	cural
	1783 KB				1785 KB		Relationship		1780 KB		Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	2922	-1139	N/A	N/A	2917	-1132	-7	N/A	2922	-1142	3	N/A
Douglas	2953	-1170	N/A	N/A	2948	-1163	-7	N/A				N/A
Brown Lime	3043	-1260	N/A	N/A	3040	-1255	-5	N/A		1111111		N/A
Lansing	3063	-1280	N/A	N/A	3062	-1277	-3	N/A	3067	-1287	7	N/A
Arbuckle	3345	-1562	N/A	N/A	3316	-1531	-31	N/A	3322	-1542	-20	N/A
Total Depth	3355	-1572	N/A	N/A	3420	-1635		N/A	3325	-1545		N/A









S110WS

TOPEKA 2660 (-877)

Limestone; buff, fine-medium xln, chalky, slighlty granular, no shows

Shale; grey-greyish green

Limestone; It. grey-cream, fine xln, dense, slightly fossiliferous, chalky, no shows

Limestone; as above, dense, slighlty cherty

Limestone; cream, fine xln, chalky in part, poor visible porosity, no shows

Limestone; as above cream-lt. grey, fossiliferous in part, chalky

KING HILL

black carboniferous shale grey shale

Limestone; cream, fine xln, chalky, plus grey shale

Limestone; cream-white, fine xln, chalky, dense, plus Chert; grey-lt. grey, boney

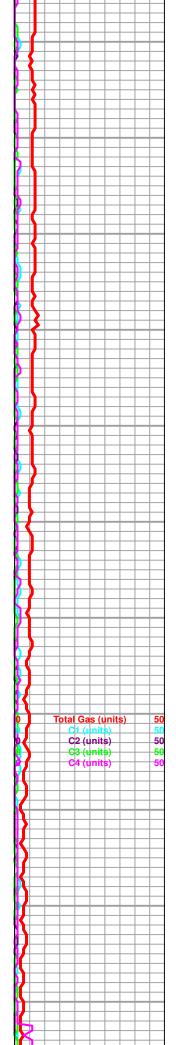
grey-green shale

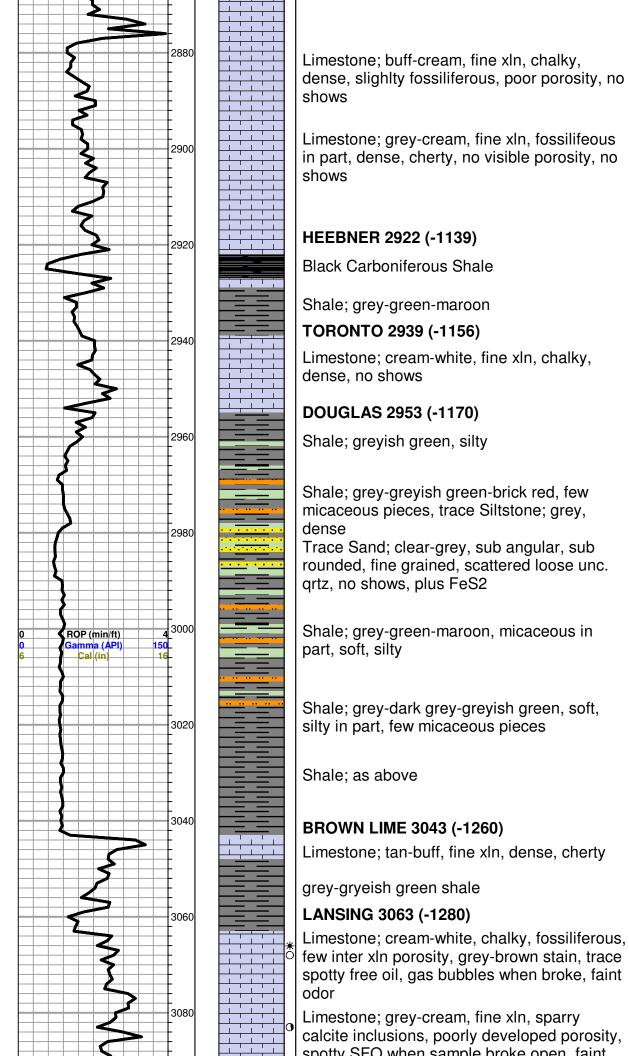
QUEEN HILL

black carboniferous shale

Limestone; cream-lt.grey, fine-medium xln, granular in part, fossiliferous, few chalky pieces, scattered porosity, no shows

Limestone as above, no shows





KB 1783 Total Gas (units) C2 (units) C3 (units)

