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 Petroleum Geologist

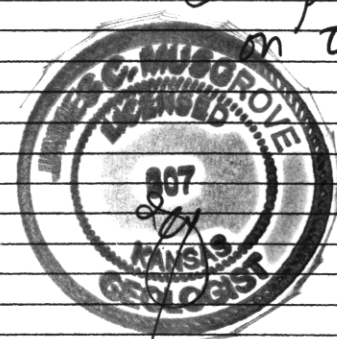
# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>American Warrior Inc.</u>	ELEVATIONS
LEASE <u>Eulert #19-35</u>	KB <u>1813</u>
FIELD <u>Eulert</u>	DF _____
LOCATION <u>Ne-Ne-SW (2310' ESL)</u> <u>(2310' FWL)</u>	GL <u>1805</u>
SEC <u>35</u> TWPSP <u>11 S</u> RGE <u>315 W</u>	Measurements Are All From <u>-KB-</u>
COUNTY <u>Russell</u> STATE <u>Kansas</u>	
CONTRACTOR <u>Duke Drilling Co. (rig# 8)</u>	SURFACE <u>CASING 883'</u> <u>858 1/2'</u>
SPUD <u>7/1/2014</u> COMP <u>7/9/2014</u>	PRODUCTION <u>5/21/12 3373'</u>
RTD <u>3373</u> LTD <u>3374</u>	ELECTRICAL SURVEYS <u>By Pioneer</u> <u>DDL, CNL/CD, m&amp;L</u>
MUD UP <u>2500</u> TYPE MUD <u>Chemical displaced</u>	
SAMPLES SAVED FROM <u>2600</u> TO _____	
DRILLING TIME KEPT FROM <u>2600</u> TO _____	<u>RTD</u>
SAMPLES EXAMINED FROM <u>2600</u> TO _____	
GEOLOGICAL SUPERVISION FROM <u>2700</u> TO _____	
GEOLOGIST ON WELL <u>Adam Folk &amp; James C. Musgrove</u>	
FORMATION TOPS	LOG
<u>Anhydrite</u>	<u>883 +920</u>
<u>Base anhydrite</u>	<u>921 +892</u>
<u>Topoka</u>	<u>2663 -850</u>
<u>Hebner</u>	<u>2918 -1105</u>
<u>Toronto</u>	<u>2937 -1124</u>
<u>Hansing</u>	<u>2961 -1148</u>
<u>Base Kansas City</u>	<u>3241 -1428</u>
<u>Arbuckle</u>	<u>3264 -1451</u>
<u>LTD</u>	<u>3374 -1561</u>
<u>RTD</u>	<u>3373 -1560</u>
SAMPLES	

REMARKS 5 1/2" production casing was set & cemented on the American Warrior Inc, Eulert # 19-35.

Respectfully submitted,  
James C. Musgrove & Adam Folk



LEGEND	
	Anhydrite
	Salt
	Sandstone
	Shale
	Carbonate
	Limestone
	Coal Limestone
	Chert
	Dolomite

LITHOLOGY	DEPTH	DRILLING TIME (Logarithmic Scale)		SAMPLE DESCRIPTIONS	REMARKS
		.5	1 2 3 4 5 10 15 20 30		
	60				
	80				
	2700				
	20				
	40				
	60				
	80				
	2800				
	20				

- Jopeka  
2664

LS, gm / brown, fxl,  
slightly d'y  
poorly

~ gm / green sh.

LS, crn, wh, fxl, few foss,  
scatt b; jr. blk. stn)  
nsfo, or odor

LS, tan, inc;  
gm / blk. stn, nsfo  
no odor.

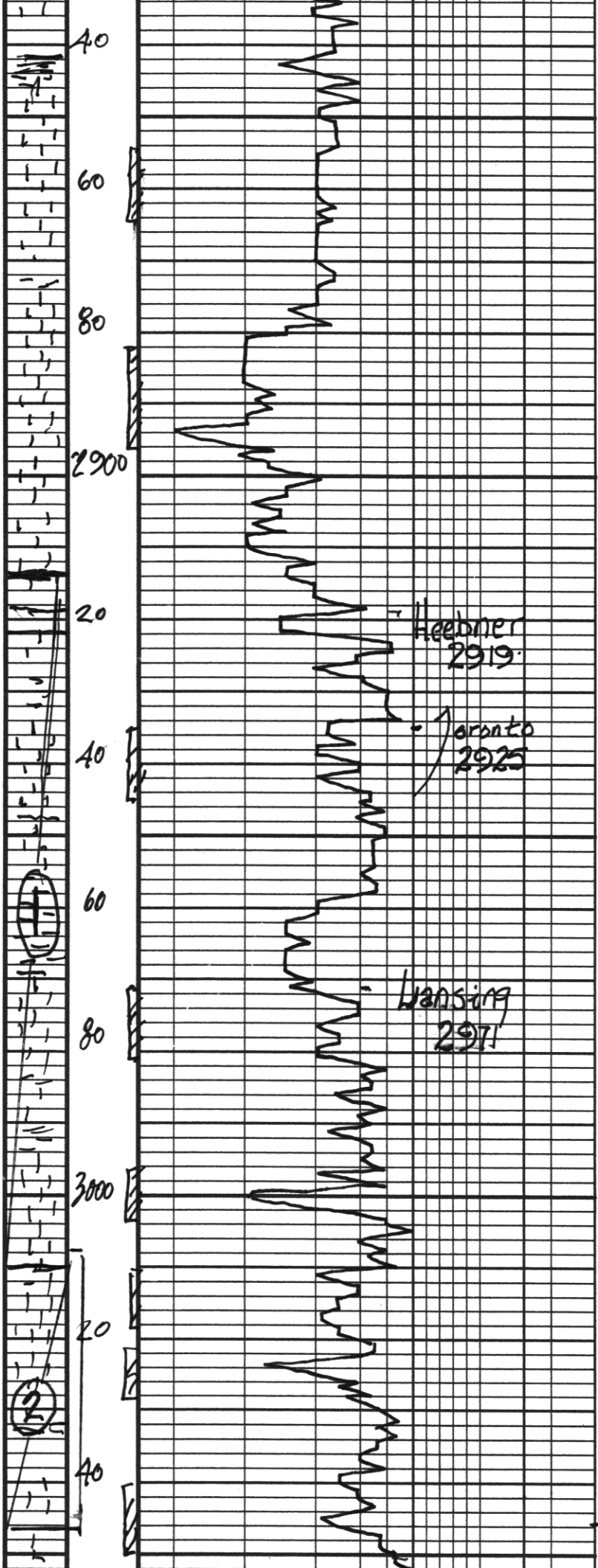
LS, tan, fxl, few  
d'y / chunky in part  
lnts

~ jr. blk carb. sh.

~  
~  
gm / green sh

~  
~  
LS, tan, fxl, chunky  
poorly

~  
~



- blk carb. sh.

LS, tan, brown, fxt;  
 some foss; poor vis g  
 fr. light brown str,  
 sfo, no odor

LS, tan, fxt; scatt ex-l  
 p.p.o.; light brown / blk brown  
 str, sfo, ??? odor

and Jr. gym. A

- blk carb. sh.

LS, tan, fxt; foss; cherty,  
 pebbly dev o; fr. str;  
 sfo; no odor in fresh  
 samples

}}

- v.c. soft sh

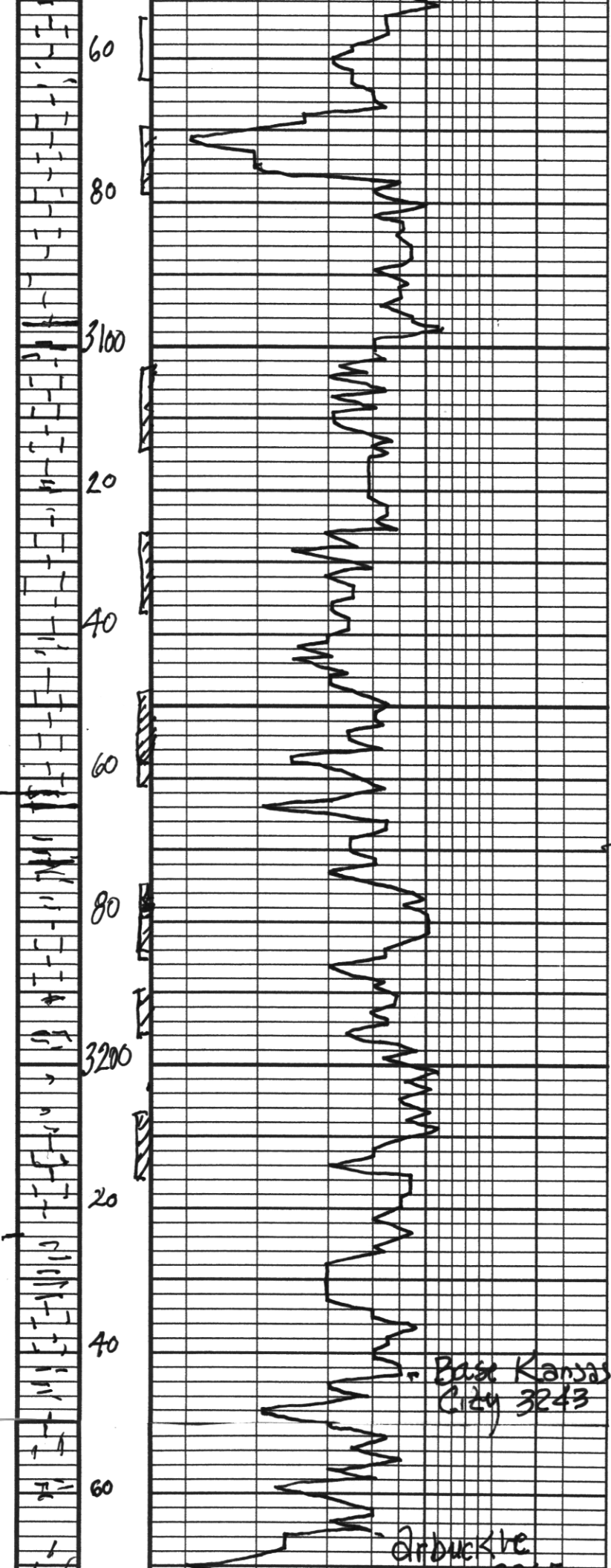
LS, tan/crm, highly foss,  
 poor / fr. g; brown str;  
 sfo; ft. odor

LS, tan, fxt; scatt o;  
 brown str/sat; sfo;  
 ft. odor

LS, tan f. med x2  
 ool; fr. o.; light brown  
 str, sfo, fr. odor

LS, wh/crm, fxt;  
 ool; sub ool; fr - good o; brown  
 str; sfo; fr. odor

LS, wh/gm, fxt; few foss;  
 poor vis o; fr. brown



sp. sh. no odor

LS, (cm) (wh) ool; cherty  
scat g; dk. brown sh  
sfo; ??? odor

LS, tan, ool; ool, cherty  
poor brown sh; poor sfo  
no odor

LS, (cm) / tan, ool;  
dense; scat g; nty

blk  
carb sh

ls / tan, foss / cherty;  
br. brown / sh; sfo;  
gm / blk sh. ??? odor.

LS, (cm) / tan, fxl; few  
med sh; few foss;  
poorly dev g; light brown  
sh; info; no odor

LS, tan, ool; cherty; br.  
brown / gm sh; sfo;  
st. odor

blk sh.

gm / green sh

LS, gm / (cm) fxl; ool  
fair g; brown sh;  
sfo; no odor

blk / coffee brown sh

LS, wh; fxl; foss;  
slightly dy; poor g  
brown sh; info; no odor

gm / rusty brown  
green soft sh

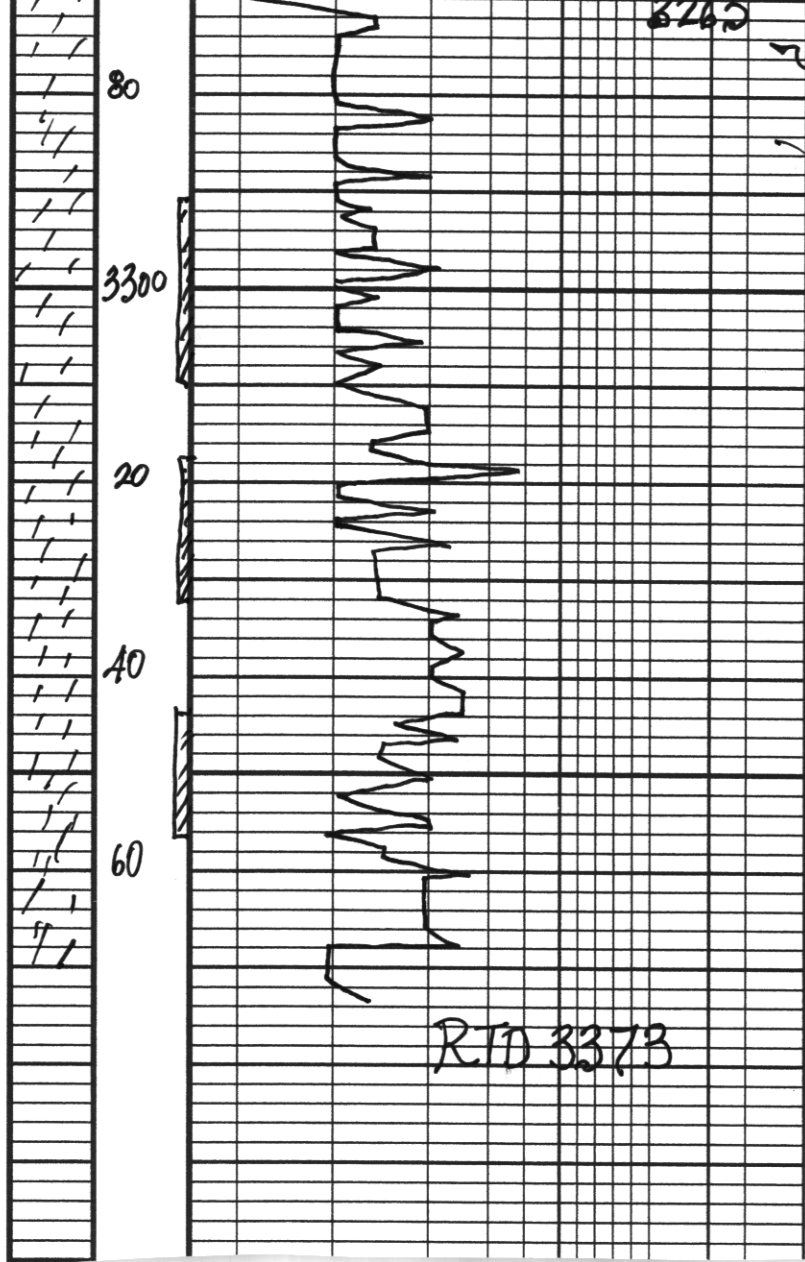
LS, tan, fxl; green / dense

green / lime green gm sh  
p. p. p.

LS, tan / (cm) fxl; slightly  
dy (dse)

aa

dd; (cm) wh; sug; scat pfg



8260

brown stn sfg, odor  
 dol, crm/wh f med xl,  
 fr. Fr-L/vuggy, golden brown  
 stn, sfg, good odor.

dob aa, fr. stn/sst  
 sfg, odor

dd, crm/gm, med xl,  
 sst, Fr-L, brown stn  
 sst, v-to, fr. odor

dol, gry/f. med xl,  
 few sst, sandy in part  
 twh & m/s

32  
 Dolomite, wh/crm, fr, sfg,  
 sst

32  
 Dols, A aa  
 + wh. chnk