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1665 ✓

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>Rocken 3 Farms (BDD)</u>	ELEVATIONS
LEASE <u>Rocken 3 Farms #1</u>	K.B. <u>2079</u>
FIELD <u>WC</u>	D.F. <u>2077</u>
LOCATION <u>330' FNL x 790 FWL</u>	G.L. <u>2071</u>
SEC. <u>8</u> TWSP. <u>6</u> RNG. <u>19W</u>	Measurements Are All
COUNTY <u>Rooks</u> STATE <u>Ks</u>	From <u>KB</u>
CONTRACTOR <u>Discovery (Rig 1)</u>	CASING
SPUD <u>2/4/09</u> COMP <u>2/9/09</u>	SURFACE <u>2 5/8" 211'</u>
RTD <u>3551</u> LTD <u>3541</u>	PRODUCTION <u>7 1/2"</u>
MUD UP <u>2800</u> TYPE MUD <u>Chemical</u>	ELECTRICAL SURVEYS
	<u>Neutron Density</u>
	<u>Dual Induction, Micro</u>

FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION		
				A	B	C
<u>Anhydrite</u>	<u>1654</u>	<u>1650</u>	<u>+429</u>	<u>+417</u>		
<u>Base Anhydrite</u>	<u>1684</u>	<u>1681</u>	<u>+398</u>	<u>+387</u>		
<u>Topeka</u>	<u>3055</u>	<u>3050</u>	<u>-971</u>	<u>-972</u>		
<u>Hesbner</u>	<u>3251</u>	<u>3247</u>	<u>-1168</u>	<u>-1175</u>		
<u>Tenanta</u>	<u>3276</u>	<u>3271</u>	<u>-1193</u>	<u>-1200</u>		
<u> Lansing WC</u>	<u>3291</u>	<u>3287</u>	<u>-1208</u>	<u>-1214</u>		
<u>Base KC</u>	<u>3500</u>	<u>3496</u>	<u>-1417</u>	<u>-1424</u>		
<u>Arbuckle</u>	<u>None</u>			<u>-1425</u>		
<u>Reagan 3d</u>	<u>None</u>			<u>-1505</u>		
<u>Granite Wash</u>	<u>3544</u>	<u>3540</u>	<u>-1461</u>	<u>-1537</u>		

REFERENCE WELLS FOR STRUCTURE

A. Bacus #1

B. _____

C. _____

KANSAS GEOLOGICAL SURVEY COMMISSION

APR 18 2009
RECEIVED

1665-10-3

Dalmanites Lm con. Salu
Supracalc. some friable
Sp. v. apt. con. of thin bed of
S. thin bed to FO

Lm con-tan Salu fossils
Δ-grey-tan foss sharp

Heebner 3251 (-1192)

sh blk

sh red & grey

DST #1 3245-2
wk blow-dried
no blow flush
30-30-10-0

Taronto 3276 (-1197)

ISI 1138*

Lm wht con Salu chalky
No shales

Rec. 65' No

(Slide tool 10

Worsing-K.C. 3291 (-1212)

Lm con Salu sly calcitic
to intercalitic of sh/sal
good con. of SFO

Lm wht con Salu dense

sh blk

sh red & grey

DST #2 3245-8

IF weak block
FF " "

30-30-30-30

IF 21-38*

ISI 1171

FF 40-45*

FSI 1158

Rec 45' 0 gpi

Lm con Salu calcitic fossils
spt thin v. apt. of thin bed
spt sh. to spt sh. of thin bed

sh red

Lm con-tan Salu sly fossils
v apt v. apt & pass s. of
v apt sh. to spt sh. of thin bed

sh red & grey

Lm wht chalky

sh red

Lm con-tan-brown Salu
calcitic spt thin intercalitic
spt thin to spt sh. of thin bed

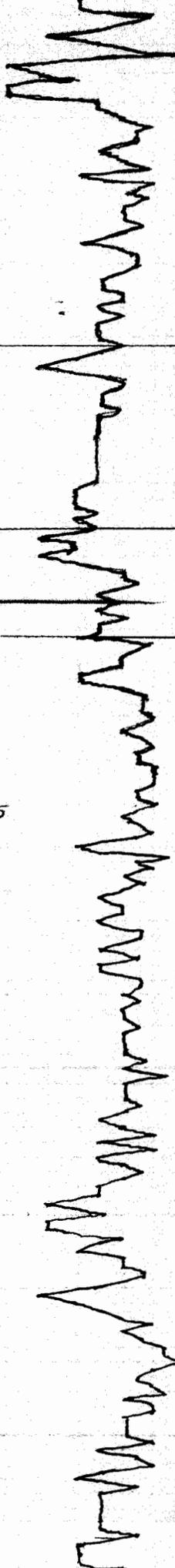
Lm con Salu sly sh. dense
v apt good v. apt of thin bed
con. of SFO

Lm con Salu

sh blk

sh red & grey

Lm con Salu spt v. apt
to v. apt v. apt sh. to spt



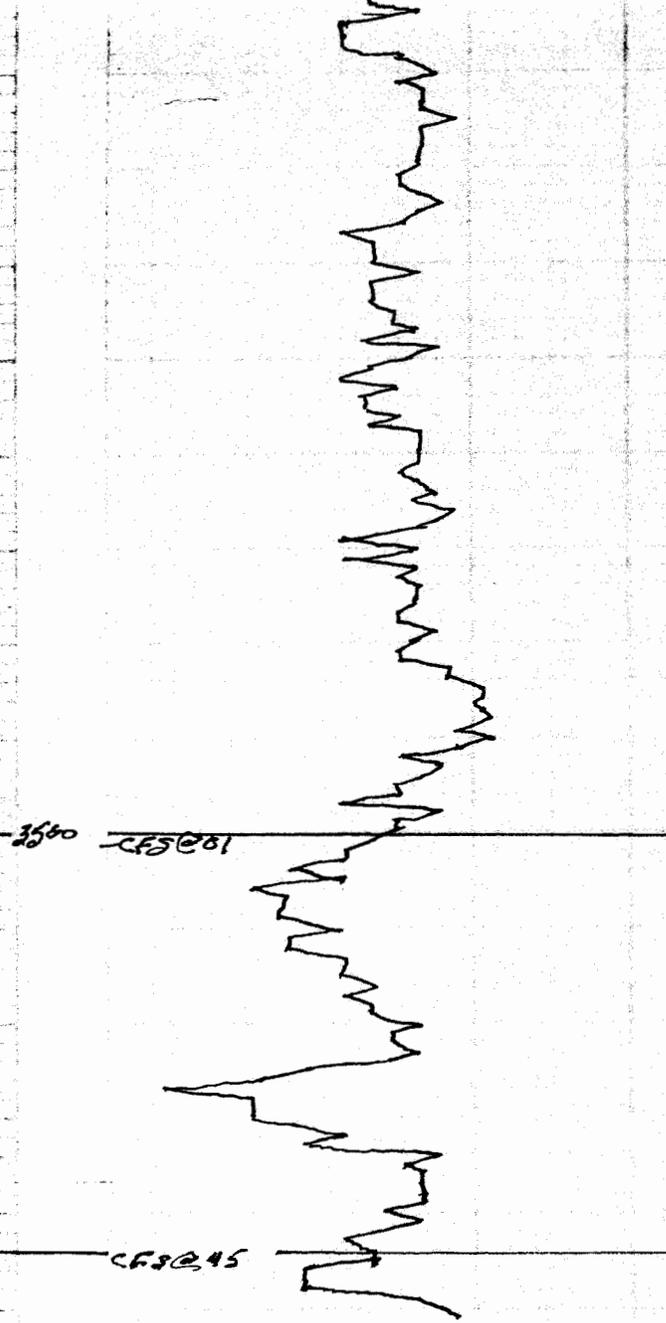
3300

-CFS 15

-CFS

-CFS

3400



Low conc Salin apt veg of
 through vapt str. frust
 adon 4 018FO

sh red of gny

DST #3 3427-350

IF: 9" blow
 ISF: weak blow
 FF 808 39 min
 FSF: weak blow

Low conc Salin foss Salin
 cry of apt good veg p
 good set in of good adon
 good SF of 0

45.45-60-60

sh red of gny

IF: 28-44
 ISF: 1177
 FF: 44-65
 FSI: 1161

Low conc Salin colitic
 apt Salin vapt good
 water colitic of good
 apt str-ach adon SFO
 sh blk

Rec 140' GIP
 45' FO:1
 80 VHCEN

sh red of gny

Water left - conc Salin
 dense

sh red gny & blk

Low conc Salin Base KC 3500 (-1421)
 sh red of gny silty

sh red

Low conc Salin foss dense

Granite Wash 3544 (-1446)

Pink-orange qtz w/mica