

Robert W. Turner

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Raymond Oil Co.
 LEASE Jackson Family #19-1
 FIELD Wildcat
 LOCATION Butler County
 SEC 19 TWP 24S RGE 8E
 COUNTY Butler STATE KS

ELEVATIONS
 KB 1524
 DF _____
 GL 1514
 Measurements Are All From KB

CONTRACTOR Summit Drilling
 SPUD 8/4/16 COMP 812/16
 RTD 2780 LTD 2776
 MUD UP 1,200' TYPE MUD Chemical

CASING 5/8"
 SURFACE 253'
 PRODUCTION _____

ELECTRICAL SURVEYS
CND, DIT

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION		
				A	B	C
Heebner	1417	1416	+108	+110		
Douglas	1500	1496	+28	+27		
Leaning	1720	1722	-198	-193		
Kansas City	2000	2003	-479	-476		
BKC	2172	2170	-646	-645		
Marathon	2267	2268	-744	-743		
Squirrel	2442	2439	-915	-915		
Mississippi	2738	2731	-1207	-1210		

REFERENCE WELLS FOR STRUCTURE

A Vestring #1 Lot 20 19-24-8E

REMARKS After sample, DST, and log evaluation, it was decided to plug & abandon this well.

RECOMMENDATIONS AND REMARKS

FORMATION	PERFORATE INTERVAL	LOG ANALYSIS		TREATMENT & REMARKS
		% POR	% SW	
Douglas		19.0	71%	
Squirrel		19.4	67%	

brn dns brtl lmst
wht sft chky lmst.
dkc brn dns brtl lmst no @
gry pr sctd vf-m mic. ss
mstly dns sm @, friable
few gas bubs on cut, no flr., no sh.
NEO, no odor
V. MIC arg silt stn
interbw/ brn dns. foss. lmst.

+ dck gry sh/ md ck

sft wht chky lmst.

brn dns foss. lmst.

grn sft md ck

gry pyritic. mod sorted ss

fn-wht foss. brittle lmst.
wht chky lmst.

dck blk sh.

dck gry sndy silt stn.

crm-tan foss. lmst. hard
sft wht chky lmst.

grn-blk intercal sh.

slty mic. grn md ck

'gry-grn arg. lmst. + calc. md ck

crm brittle foss. lmst.

sndy gry mic silt stn.

brn. foss. dns. lmst.

carb. gry sndy mic. silt stn to
v. fn silt stn

gry slty md ck

wht-gry fr sct fn. grn. mic snd stn

sm silt friable. No sh. odor. flr. cut
sli gas bub on cut

sli crsning of snd stn AA

wht mic w/srt snd stn. AA

e log 1416
Heebner +108

11:45 A.M. 8/7/16
Mud 8.7 wt 45 vis.
8.8 filtrate 1,000 chl.
2# LCM

e log
Douglas +28

3

1600

1700

gry sst sandy md rk.

AA

drk brn. foss. dns lmst
interbedded w/ gry sst md rk

drk gry sandy silty mic sh

drk gry vt mic sand st to silt stn.

drk gry carbonac. md rk + sh.

drk gry sh.

latan - 86 ^{e log 1606}
-82

brwn v. dns. micritic lmst
w/ foss. frags

gry silty md rk + sh.

inc. drk gry silt stn.

gry lt. brown dns sand. sli calc.
v. hd. well srt.

drk gry md rk.

AA

drk gry md rk blkly poss. paleool

Highly withcd crm lmst. calcareous

lt gry wht w/ srt friable sand stn
ven-fa good

drk gry mic. qtz md rk

AA w/ inc. in calcareous

Lansing - 196 ^{e log 1722}
-198

crm sli foss. md gen. lmst
sst wht chky lmst

brwn foss. crs gen. lmst.
v. hard + dense

crm sli foss md gen. lmst. brittle
crs gen sparry lmst.

1800

1900

fn med. grn foss lmst
sm. sect + dk. edge str on few
NFO, no odor, no cut, v. lww Flcr calcite
no app. @

H gry micritic lmst.

grn + blk sst sh.

crm. fn grn. lmst. brittle

fn md grn. foss. lmst.
sm moldic @ N.S.

brwn ccs grn. v. hrd lmst

fn micritic lmst. v. hrd. dnr.
dk brn. md str.

brwn ccs grn. foss. lmst

wht sst. chky lmst.

gry calc. sh.
v. wht. sst. chky lmst.

wht. soft chky lmst

crm. ccs. grn sparry lmst brittle
few pcs w/ v. sect str. no odor, NFO, no Flcr
no cut

gry calc. sh. blksh.
v. wht sst chky lmst.

H gry micritic lmst. dnr

sm vit. brwn chert
dk brwn v. fn grn. lmst. v. hrd dnr

gry md rck + sh.

wht, orange, vit chert

dk gry + brwn micritic lmst

gry + brwn sandy sst str + vfn sst str
l ccs brwn calcite filling fracs

gry slty md rck, carb. + pyrit

interbed brwn. dk gry md str.
w/ v. carb. gry sandy pyrit md rck

AA

AA

AA sli more carb. + pyritic

AA

AA

Dev. Sur. 1866 1/2°

8-8-16 10:15A:M
mud wt. 9.3, vis 39
filtrate 8.8 chlor 1,700
2# LCM - jet tank
add premix to
bring vis. up

e log
2003-479

Kansas City 2,000

AA

tn vfn grn. arg. lms.
tn. foss. med. v. hd. dense.
tn. brwn. dk gry micritic lms.

ccm. v. tn. grn. fus. lms. hd. brtl
cfs. sparry calc. filling trac.

wht. fa. grn. lms. hd. dns.
tn. brwn. hd. micritic lms.
gry vit. chert

wht med. grn. foss. lms. mostly dns.
few pieces w/ pp & sm. frags
No odor. NEQ. v. wh. strat. cut. wht. fluc.

blk sh.
gry md rck

cfs 20, 40, 60

tn. brwn med grn w/ srt. oolitic grn str.
v. dns. hd. w/ cmtd
NS.

ccm-tn ccs grn. foss. lms.

cfs 20, 40

tn med. grn. oolitic + foss. v. hd. lms.
wht. vit. chert
blk pyritic sh.

dk gry micritic lms.
blk sh.

wht. foss. lms. hd. brtl.
brwn. v. hd. md str.
gry-grn. blk. md rck.

blk sh.
gry sli. foss. wkstr. v. hd. dns.
brwn md str. v. hd.

grn + brwn sft. calc. md rck
blk sh.
gry + brwn md str. hd.

gry + brwn md str. w/ rip up clasts
v. hd. dns.
grn + brwn mottld calc. md rck. v. sft.

wht. gray. tn. grn. calc. sand str.
sm. glauc.

e log
2170-646

BKC 2170

2,000

2,100

DKU 2112

2,200

whit. cm, tn, brown, mottled foss. lmst
 tn-brown mttld carb. md rk
 lt gry fn. gen, mic, carb. sand stn.
 tn sandy mic. md rk. v. sft.

8/9/16 9:30 AM.
 wt. 9.1 vis 43
 filt. 8:8 chlor 1,800
 2# LCM

gry slit stn, md rk, sh.
 gry calc. fn gen sand stn.
 gry md rk
 tn rdsh brown foss. lmst bed
 brown, tn, gry md rk + sh.
 sandy slit stn.

2,300

gry sh. md rk
 blk calc. brittle sh.
 lt gry-grn fn. gr lmst, hd.
 whit-grn sandy silty calc. md rk
 gry, tn. md stn. v. hd.
 AA

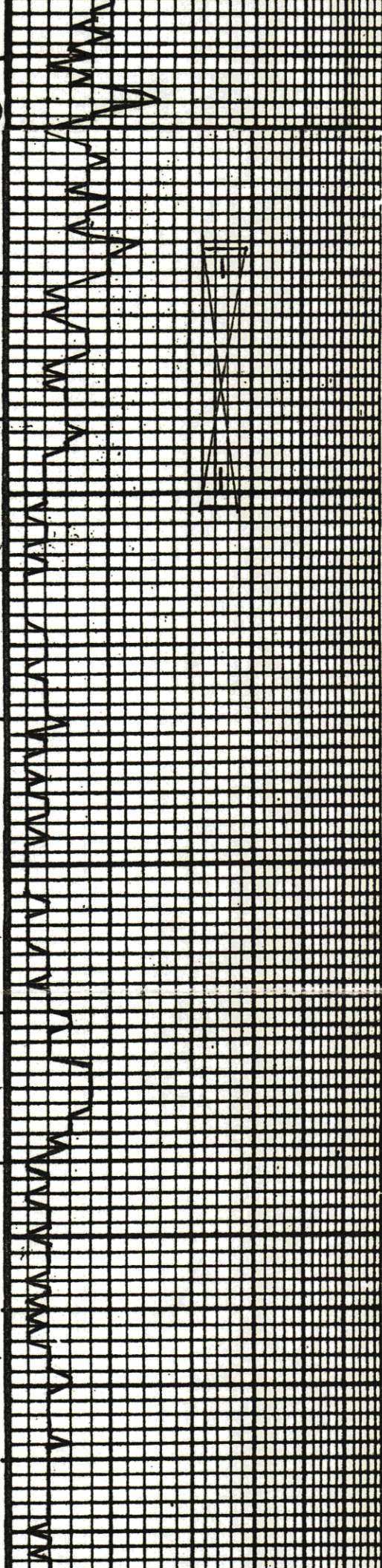
elog
 2268-744
 Marm 2267

tn prly stnd oolitic lmst, mdly bed
 sem. pr. oolitic
 whit, gm tn-v. tn calc. glauc. sand stn
 grn. slit. stn. dng + brittle
 blk pyr. sh.
 cem. sparry lmst, hd.
 gry mic. carb. fn gen sand stn.

lt. gry lt. tn. md stn v. hd.
 gry mic. fn gen sand stn, hd.
 lt. gry micritic lmst. hd.
 dck brown micritic lmst v. hd.

2,400

2,500



blk. sh.
gry md. rk
dk brwn micritic lmst. v. hd.
blk. sh. gry sh
brwn med. grn. foss. lmst.
grn. foss. lmst. hd.
blk sh.
tan-brwn md stn. v. hd.
gry md. rk
tan. brwn foss. lmst. hd.
blk sh.
gry slit. stn.
lit. gry + tan. fn. or sand. stn. fract. mic. + glauc. mostly friable no odor, no sing. NBB, gas bubbles very lively gas cut, vent structure grn floor on cut
AA
AA
AA sm. calc. cont.
gry carb. slit stn.
lit. gry + tan sand AA
AA
AA silty
gry carb. slit stn. gry-grn mottled sh. blk sh.
cmg-ang-pnk hd brk-lmst w/ qtz intracr. last hd
gry calc. sh.
brwn tan. v. tan calc. sd stn. v. hd.
sm. med. gr. sand stn. v. hd. sli glauc. interb w/ blk + gry sh. gry v. tan mic. sand stn. green sh.
blk-grn carb. sh.
v. tan-silty grn. - w/ht sand stn. v. hd.
ang + brwn md stn. v. hd.
gry sli mic. v. tan sand stn.
green v. tan mic. sand stn.
gry silty md rk
lit. gry v. ang. peloidal lmst blk + brwn sh.

8/10/16 10:00 A.M
wt. 9.1 vis. 47
filt. 8.8 1,300 chlor
1/2 # LCM

Squirrel 2442 ^{elog} 2439-915

-cfs 30,60

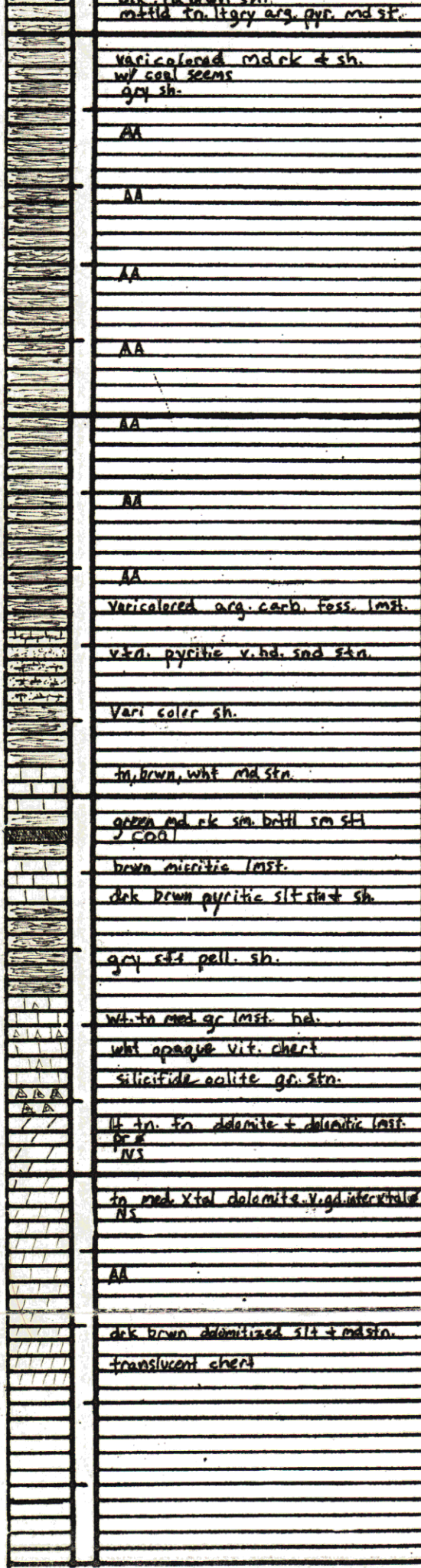
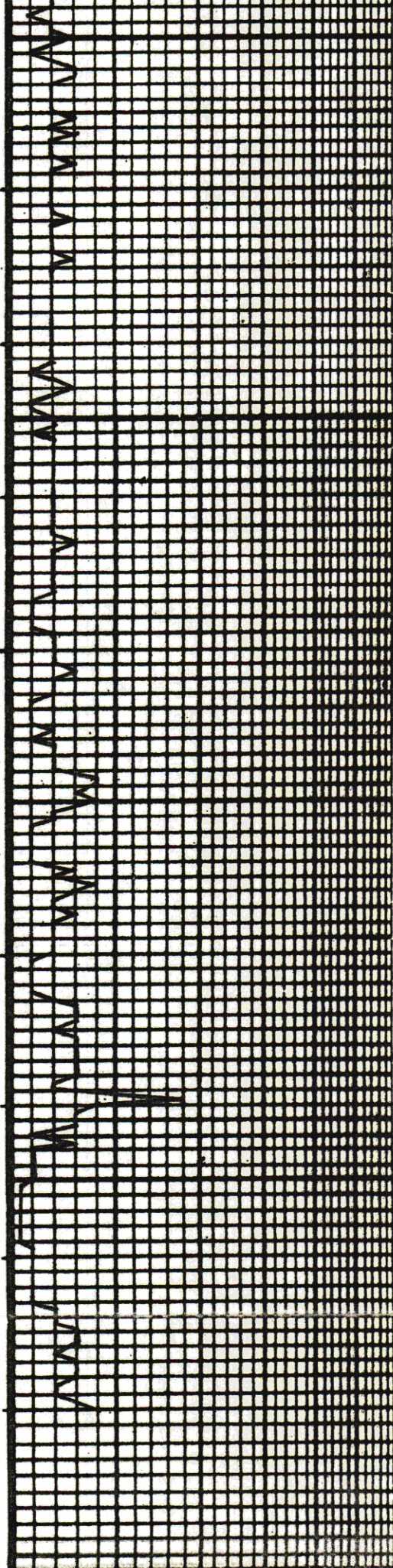
-cfs 30,60

DST 1 30-60-45-90
2417-2452 ^{elog} 2417-2449
1" blow bldg to 11"
NBB
wk sur. blow bldg to 11"
Rec. 300' TF
120' MCW (90% w)
120' WCM (35% w)

60 M
spks oil in tool
SIP: 858-856
FP: 28-86-90-160
HP: 1192-1179

2,600

2,700



mtld. fn. lgry arg. pyr. md st.

varicolored md rk + sh.
w/ coal seams
gry sh.

AA

AA

AA

AA

AA

AA

AA

varicolored arg. carb. foss. lmsl.

v. tr. pyrite v. hd. sand stn.

Vari color sh.

to, brwn, wht md stn.

green md rk sm. brtl sm sh
J coal

brwn micritic lmsl.

dk brwn pyritic silt-stn sh.

gry sft pell. sh.

wt. to med gr lmsl. hd.

wht opaque vit. chert

silicified oolite gr. stn.

lt. to. to dolomite + dolomitic lmsl.
NS

to med xtal dolomite v. gd interstratified
NS

AA

dk brwn dolomitized silt + md stn.

translucent chert

8/11/16 9:15 A.M.
wt. 9.3 vis 52
filt. 8.8 chl. 1,000
LCM 3#

Miss 2,738 ^{elog} 2731-1207

