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GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

COMPANY CGD:1 Co, LLC

LEASE MRS. #1

FIELD _____

LOCATION NW - NW - SE/4

SEC 22 T13SP 13S RGE 16 W

COUNTY Ellis STATE Kansas

CONTRACTOR Duke Rig #2

SPUD 8-9-19 COMP 8-15-19

RID 3510 LTD 3512

MUD UP 2800 TYPE MUD Chem

SAMPLES SAVED FROM 2900

DRILLING TIME KEPT FROM 2850

SAMPLES EXAMINED FROM 2850

GEOLOGICAL SUPERVISION FROM 2800

GEOLOGIST ON WELL Roger L. Fisher

ELEVATIONS

KB 1954

DF 1952

GL 1946

Measurements Are All From KB

CASING SURFACE 1063 of 8 5/8"
 PRODUCTION 3510 of 5 1/2"
 ELECTRICAL SURVEYS
 DIL/MEL
 CBL/CNL

TO TD

TO TD

TO TD

TO TD

FORMATION TOPS LOG SAMPLES

TOPE Kq	2919 - 965		
Hb Shale	3142 - 1188		
For onto	3161 - 1207		
Lansing	3188 - 1234		
B/WC	3425 - 1471		
Cg sd	3451 - 1497		
Air buckle	3468 - 1514		
LTD	3512 - 1558		

REMARKS

Casing was Run to Further Test

Per JFT

LEGEND

Anhydrite	Salt	Sandstone	Shale	Carbonate	Limestone	Ool. Lims	Chert	Dolomite

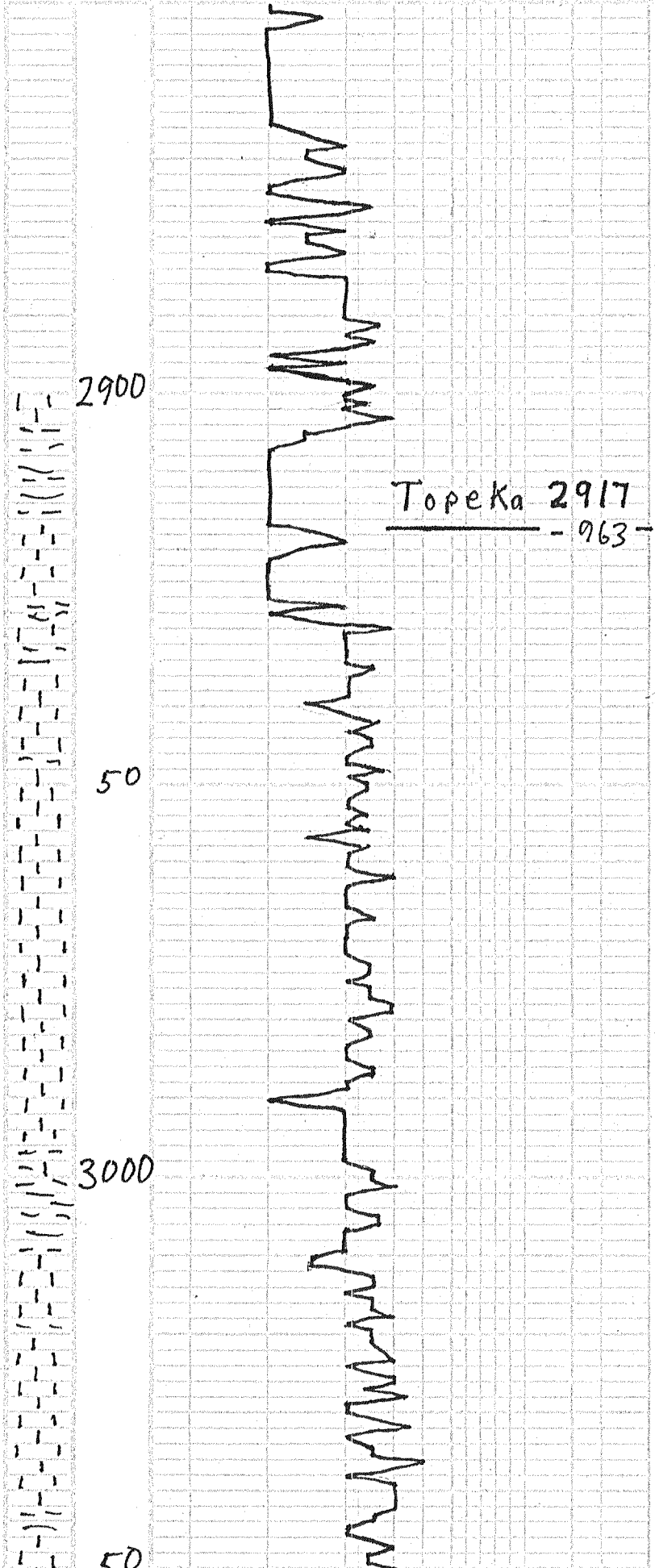
DRILLING TIME

LITHO DEPT

5 1 2 3 4 5 10 15 20 30

SAMPLE DESCRIPTIONS

REMARKS



Ls gy tan foss dense
vtxln to txh poor
N.S.

sh lt gn gy mica
sst wh vt gn mica shale
inclusions

Ls wh vtxln chalky
ool + foss F& N.S.

Ls gy vtxln ool
pø N.S

Ls crm wh fxln sli
foss pø some chalky
N.S.

Ls wh lt gy vtxln
sli foss chalky N.S.

Ls crm gy sli foss
dense N.S.

sh blk
sh lt gn lt dk gy

Ls wh vtxln chalky

Ls wh vtxln chalky
ch wh lt gy N.S.

Ls wh lt crm fxln
sli foss chalky to dense
N.S.

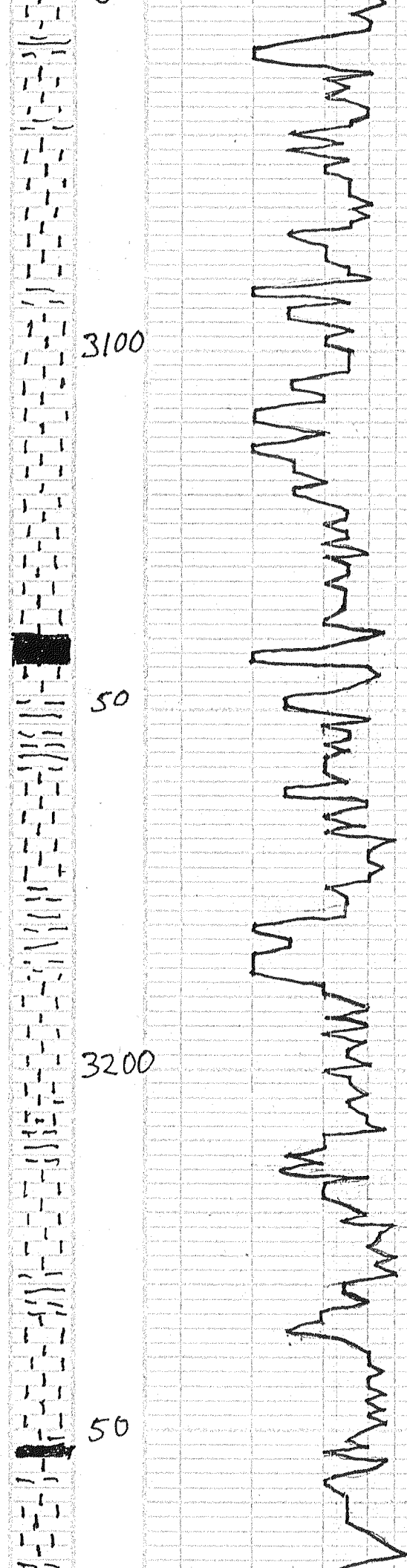
2900

50

3000

50

Topeka 2917
- 963 -



sh Blk

Ls gy vfxln dense N.S.

Ls wh lt gy vfxln
chalky slich & sli foss & ool
N.S.

Ls tan fxln foss
P & N.S

Ls crm fxln ool
chalky Fint ool &
N.S

Ls sli foss dense N.S

sh Blk

sh lt gh gy

Ls wh fxln foss slich &
chalky P Pin PT & scatt vugs
poor sptd ST VSSFD
No odor
sh lt to dk gy gh

Ls wh fxln ool Fint ool
& scatt vugs sptd to Sat stain
FSGFO Gd Odor Sli ch &

Ls wh fxln sli ool moldic
ool poor pin pt & F sptd
ST FSFO Gd Odor

Ls wh fxln sli foss
ch & dense PINT fssd
LT sptd ST Trace FO
No Odor

Ls wh fxln P Pin PT &
F Sat ST Sli Odor

3100

50

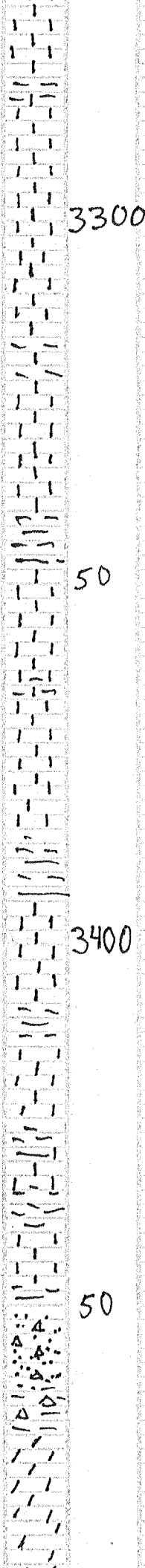
Hb Shale
3139 - 1185

Toronto
3159 - 1205

Lansing
3187 - 1233

3200

50



3300

Ls Lt tan ool F sptd
pin pt & ST FSFO
sli odor

Ls wh crm vtxln
chalky sli chd wh
lt gy N.S.

Ls lt gy tan vtxln
dense chd

Ls lt gy tan fxl
sli foss sli chd sli ST
on edge P & faint odor
VSSFO

50

Ls wh fxl foss Fint foss &
sptd to sat ST FSFO Gd Odor
sli chd

Ls wh foss sptd to sat ST
FSFO sli chalky

Ls wh ool sub chalky
lt sptd ST scatt F pin pt
& SSFO Fair Odor

sh/BK lt to dk gy
lt gn

3400

Ls lt tan gy vtxln
sli foss dense chd gy wh

Ls tan dk tan vtxln
foss dense poor &
V colored chert

B/KC 3424
-1470

Ls dk gy blueish
vtxln dense

sh red gy gn
Ls cxln vugs dk sptd ST
dk heavy oil P pin pt &
F odor

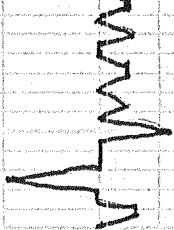
Cg Sd 3451
-1497

50

Loose ssgn VF-mgn clean
Rounded chd ool wh orange
gy Fresh some weathered trip
P pin pt & BK Residue faint
odor

Arkuckle
3468
-1514

Dol crm lt tan sandy
sucrosic Fint xln & sli
chd Friable LT SAT ST TO sptd
SSFO sli odor



RTD 3510
-1456

Dol wh Fxm F~~B~~ intxn
F sp+~~d~~ ST SSFD si odor
Dol wh ltan mxm
cha si sp+~~d~~ ST
V SSFD Faint odor