

Drilling 6/17/2019 at 2:50 am, 3229'

1150'

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Darrth Oil
 LEASE John Vacek #7
 FIELD Stalderburg
 LOCATION SE/SE/NW/SE
 SEC 32 TWP 15S RGE 10W
 COUNTY Ellsworth STATE KS

ELEVATIONS
 KB 1773'
 DF _____
 GL 1762'
 Measurements Are All From KB

CONTRACTOR WW Rig 14
 SPUD 6/14/2019 COMP 6/18/2019
 RTD 3280' 6/19/19 LTD NA
 MUD UP 2700' TYPE MUD Chemical

CASING
 SURFACE _____
 PRODUCTION _____
 ELECTRICAL SURVEYS _____

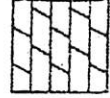

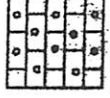
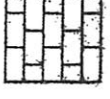


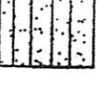
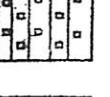
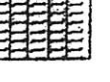
FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION		
				A	B	C

REFERENCE WELLS FOR STRUCTURE

A _____
 B _____
 C _____

LEGEND

-  Dolomite
-  Chert
-  Ool. Lime
-  Limestone
-  Carb sh
-  Shale
-  Sandstone
-  Salt
-  Anhydrite

REMARKS

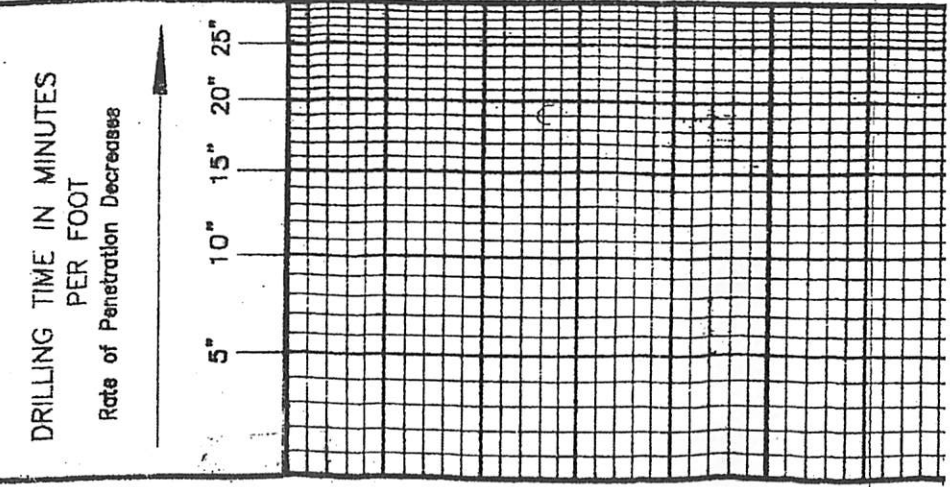
OIL SHOWS

SAMPLE DESCRIPTIONS

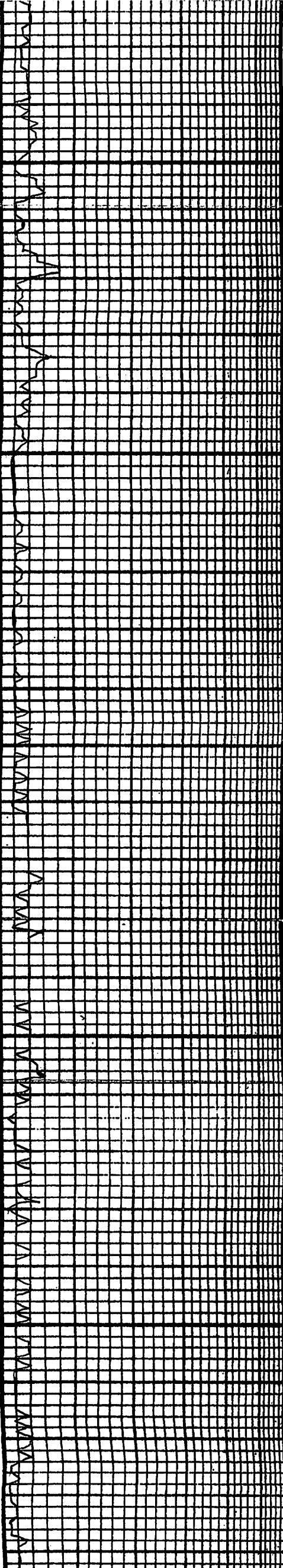
LITHOLOGY

DEPTH

2400
SD



REMARKS



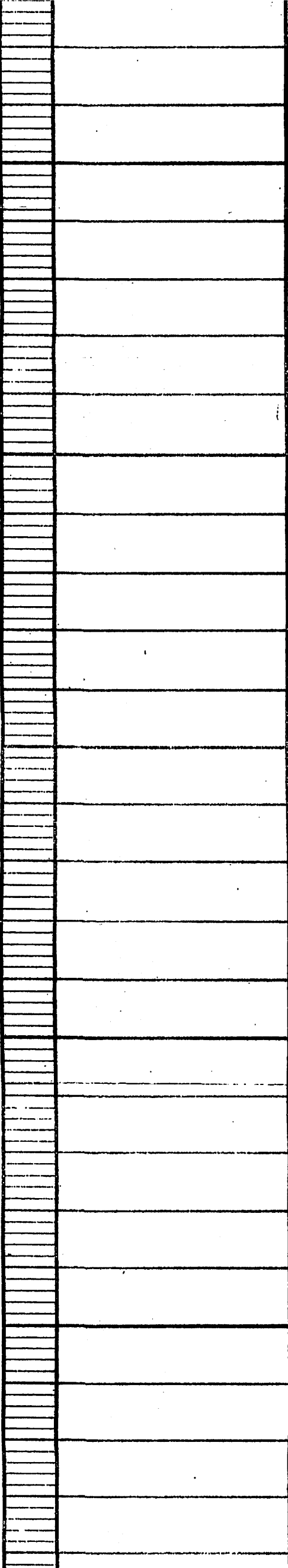
2800'

50

2900'

50

3000'



Headwater 2812' (-1039)

Tomato 2834' (-1057)

Branch 2912' (-1135)

Landing 2932' (-1155)

50

3100'

50

3200'

50 CFS

Sup 3267

CFS

CFS

Lms, grey to light grey, some tan, vfn xth, med res, med up-no vis & a few pcs of cherty, some calc. vngl. w/fr

Lms, grey to cyan, vfn xth, med res, but no vis & a few partly calc. w/fr vngl. & S.S.

Lms, lt grey-tan, vfn-fn xth, med res, vfn-no vis & xth, med res, vpr-no vis & xth

Lms, lt grey to off-white vfn xth, med res, but vpr-no vis & xth

Lms, lt grey, tan, some off-white, micro-vfn xth, med res, vpr-no vis & xth

Lms, cyan, lt grey, some tan, micro-vfn xth, med res, but no vis & xth. A few pcs of calc. vngl. w/fr

Lms, cyan, tan grey, micro-vfn xth, med-hrd res, vpr-no vis & xth. The blk. calc. chert. Some blk. calc. shale

Lms, cyan, tan, lt grey, micro-vfn xth, med-hrd res, vpr-no vis & xth

Lms, cyan, lt grey, micro-vfn xth, med res, some off-white & calc. chert, vpr-no vis & xth

Lms, cyan, tan grey, micro-vfn xth, med some hrd res, all vpr-no vis & xth. Small amount blk. calc. egg. imp. shale

Lms, lt grey to grey, some cyan, micro-vfn xth, med res, vpr-no vis & xth. Much blk. calc. shale

Lms, grey, vfn xth, med-hrd res, some chert to silty, all vpr-no vis & xth. Some blk. calc. shale as above

Lms, tan, lt grey, cyan, micro-vfn xth, med-hrd res, vpr-no vis & xth. Sp. pr. calc. chert, some calc. chert in lms, shale

Lms, tan to lt grey, vfn xth, med-hrd res, vpr-no vis & xth. Lms in grey shale a couple pcs of grey chert

Shaly lms to lms shale, grey, med res, much tan lms as above. Some lt grey, greenish silty shale. Also some dk grey-blk sst shale

Shale, grey, blk, med son earthy, some bluish, some lt grey, greenish & silty.

Lms, cyan, some lt grey, vfn xth, vpr-no vis & xth, med res. Some lt pr. calc. chert. Calc. chert lms as above

Lms, grey, shaly, some tan, vfn xth, med res, vpr-no vis & xth. Most lt grey, silty shale, some vpr-no vis & xth

Mostly lms, lt grey, fine. Some lt grey to lt tan shale. Also some SS, lt tan to lt grey vfn-fn xth, med-hrd res, vpr-no vis & xth, with small, calc. chert. A couple pcs of blk. calc. shale

some calc. lms grey to off-white, fine & med vpr-no vis & xth, S.S.

Some tan grey & blk shale

some pcs, cherty, more cherty pcs than above

3 grey, shaly calc. chert, vpr-no vis & xth

BLK 3223' (-1446)

3250' CFS 15 min. Shaly calc. chert lms, some calc. chert, shaly lms, no vis & xth. Much pr. calc. chert & some calc. chert as above

3250' CFS 30 min. Calc. chert lms, some calc. chert, shaly lms, no vis & xth. Much pr. calc. chert & some calc. chert as above. A couple pcs of grey lms, vfn xth, med res, vpr-no vis & xth, but part of the calc. chert is blk. calc. chert. Some tan grey SS, also some calc. chert & some calc. chert as above