

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEARE OIL CO.**

LEASE **ANDERSON L-33**

FIELD **Wildcat**

LOCATION **1090' FSL, 1135' FWL**

SEC **33** TWP **4S** R **29W**

COUNTY **Decatur** STATE **Kansas**

CONTRACTOR **Duke Drilling Rig #4**

SPUD **9-6-16** COMP **9-16-16**

RTD **4500'** LTD **4504'**

MUD UP **3400'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3600'** to RTD

DRILLING TIME KEPT FROM **3600'** to RTD

SAMPLES EXAMINED FROM **3600'** to RTD

GEOLOGICAL SUPERVISION FROM **3700'** to RTD

GEOLOGIST ON WELL **Tim Priest**

By: **Micro Sonic**

FORMATION TOPS

ANhydrite

Heebner Shale

Lansing

B/KC

Fort Scott

Cherokee Shale

Mississippian

ELEVATIONS

KB **2784'**

DF _____

GL **2775'**

Measurements Are All From **KB**

CASING

CONDUCTION **N/A**

SURFACE **8-5/8" @ 264'**

PRODUCTION **None**

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

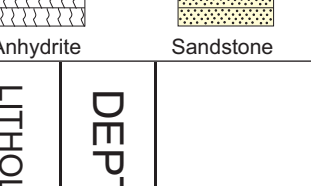
Electrical

Electrical

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Electrical

Electrical



REMARKS Due to the negative drill stem results and lack of other shows, it was decided to plug and abandon the well.

Respectfully Submitted,

Tim Priest

Petroleum Geologist

API #15-039-21233-0000

LEGEND

Anyhydrite

Sandstone

Limestone

Shale

Carb Sh

Cherty LS

Chert

Dolomite

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration Decreases

5 1.0 5 10 15 20 30

DEPTH

2550

3600

50

3700

50

3800

50

3900

50

4000

50

4100

50

4200

50

4300

50

4400

50

4500

50

4600

50

4700

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4800

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4900

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5000

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5100

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5200

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Ls crm-tan, fn-vfn xtl, sli fos, chky, dnse

Ls crm-tan, vfn xtl, sli chky, dnse

Ls crm-tan, vfn xtl, sli chky, dnse

Ls crm, fn xtl, sandy, w/silts

Ls crm-tan, fn xtl, fos, chky, no vis por

Ls crm-tan, vfn xtl, dnse

Ls crm, fn xtl, v sandy, int grn por, NS

Ls crm-tan, vfn xtl, dnse

Ls crm-lt gry, fn xtl, sli fos, v chky, p int xtl-pp por, NS

Ls crm-lt gry, fn xtl, sli fos, v chky, p int xtl-pp por, NS

Ls lt gry, vfn xtl, dnse

Ls crm-lt gry, fn xtl, sli fos, sli chky, dnse

Sh gry-blk

Ls crm-tan, fn xtl, fos, sli chky, f int xtl & int frag por, NS

Ls lt gry, fn xtl, fos, chky, p-f int xtl & int frag por, NS

Sh gry-blk

Ls crm-lt gry, vfn xtl, dnse

Sh gry-dk gry

Sh grn-gry

Ls crm-lt gry, fn xtl, fos, chky, f int xtl-pp por w/scat vugs, NS

Ls crm-lt gry, sli chky, dnse

Sh blk, carb

Ls tan, fn xtl, sli fos, dnse

Sh grn-gry- red, calc

Sh red-brn

Ls crm-lt gry, fn xtl, sli fos, chky, p-f int xtl-pp por, NS

Sh red-brn-gry

Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por w/few vugs, spdt-sli sat brn-blk stn, SFO (heavy), f odor, v dull-no fluor

Sh red-brn-gry, calc

Ls crm, fn-vfn xtl, fos, sli chky, p-f int xtl-pp por, spdt-sli sat dk stn, SSFO, sli-f odor, dull fluor

Ls crm-lt gry, fn xtl, fos, sli chky, f int frag por, spdt-sat brn stn, SFO w/few gas bubbles, f-gd odor, dull fluor

Sh grn-gry-dk gry, calc

Sh var col

Ls lt gry, fn xtl, fos-sub ool, sli chky, f int xtl & int frag por, spdt-sli sat stn, SSFO w/few gas bubbles, f odor, dull fluor

Sh red-brn

Ls crm-lt gry, fn xtl, fos, sli chky, f int frag-vug por, spdt-sat brn stn, SFO w/few gas bubbles, f-gd odor, dull fluor

Ls crm-lt gry, vfn xtl, chky, dnse

Sh grn-gry-blk

Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, spdt-sli sat stn, SFO, sli-f odor, dull fluor

Ls crm-lt gry, vfn xtl, chky, dnse

Sh red-brn, soft

Sh red-gry, calc

Ls blk, carb

Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, spdt-sli sat stn, SFO, sli-f odor, dull fluor

Ls crm-lt gry, vfn xtl, chky, dnse

Sh red-brn, soft

Sh red-gry, calc

Ls crm-lt gry, fn xtl, fos, sli chky, p-f int frag por, spdt-sat stn, SFO, sli-f odor, dull fluor

Ls crm-lt gry, vfn xtl, dnse

Sh blk, carb

Sh red-brn, calc in prt

Ls crm-lt gry, fn xtl, fos-sub ool, sli chky, p-f int xtl & int frag por, spdt-sat stn, SFO, f odor, dull fluor

Sh red-brn-gry, calc

Ls crm, fn xtl, fos, sli chky, p int xtl-pp por, spdt stn, VSSFO, sli odor, dull fluor

Ls crm-lt gry, vfn xtl, dnse