



Musgrove

Petroleum Geology
212 Main Street, Claflin KS

NOTES

Company: Pauley Oil

Lease: Olivia #1

Location: NW-NE-SE-NE (1330' FNL & 390' FEL)

Sec: 16 Twsp: 16S Rge: 10W

County: Ellsworth State: Kansas

Field: Stoltenberg

KB: 1865' GL: 1855'

Contractor: Southwind Drilling, Inc. (Rig #1)

Spud: 02/20/2017 Comp: 02/27/2017

RTD: 3431'

Mud Up: 2700' Type Mud: Chemical

API #: 15-053-21352-00-00

Samples Saved From: 2800' to RTD

Drilling Time Kept From: 2800' to RTD

Samples Examined From: 2800' to RTD

Geological Supervision from: 2800' to RTD

Geologist on Well: Jim Musgrove

Surface Casing: 8 5/8" @ 408'

Production Casing: None

Electronic Surveys: None



Toronto 2931.0 (-1066.0)

LS, white, cream, slightly dolomitic, tr. LS, tan, dense

Douglas 2943.0 (-1078.0)

Sh, red/maroon, soft

Tr. maroon, gry, green shale,
plus gry, greenish, sd. vfg, slity

Sh, a/a, tr. sd, gry, gryish, green, vfg, mica few friable,
n/s

Sh, a/a

Brown Lime 3020.0 (-1155.0)

LS, tan, brown, fxl, dense

Lansing 3038.0 (-1173.0)

LS, white, tan, fxl, sub oom, chalky, poor visible
porosity, no shows

LS, gry, white, chalky, n/s

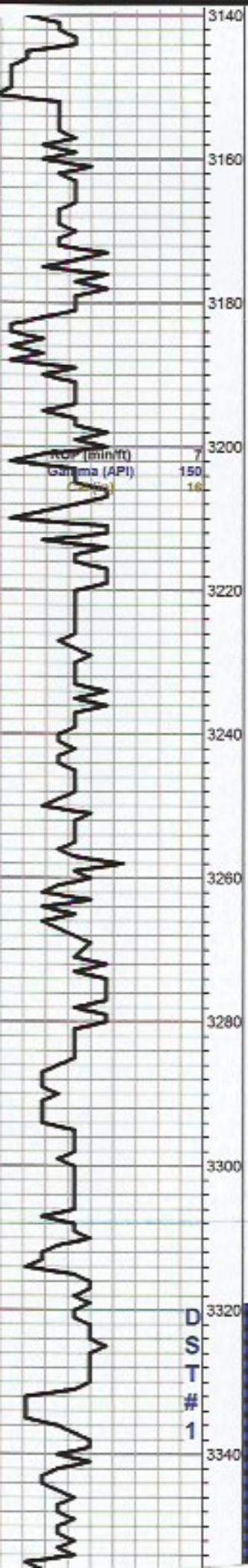
LS, white, cream, sub oom, chalky, poorly developed,
n/s

LS, gry, white, ool, sub oom, chalky, poor visible
porosity, no shows

LS, white, gry, foss/ool in pts, scattered porosity, no
shows

LS, tan, gry, ool, oom, fair-good oom porosity, no
shows

0	Total Gas (units)
0	C1 (units)
0	C2 (units)
0	C3 (units)
0	C4 (units)



LS, tan, brown oom, fair oom porosity (barren)

LS, tan, brown, dense, plus gry, white, chalky

Sh, black carb, with coal black chert

LS, white, tan, fxl, sub oom chalky in pts, n/s

LS, tan, white, oom, ool in pts, scattered oom porosity, no shows

LS, tan, gry, foss, slightly cherty (dense)

Sh, black carb

LS, white, gry, foss, slightly cherty, (dense)

Slug gry, greenish shale

LS, gry, tan, foss in pts, (dense), with white chert

Tr. amber cherts, gry, glauc. LS

Base Kansas City 3310.0 (-1445.0)

Sh, gry, dark gry

LS, gry, f-med xln, chalky

LS, white, fxl, foss, dense, plus amber chert

Conglomerate 3346.0 (-1481.0)

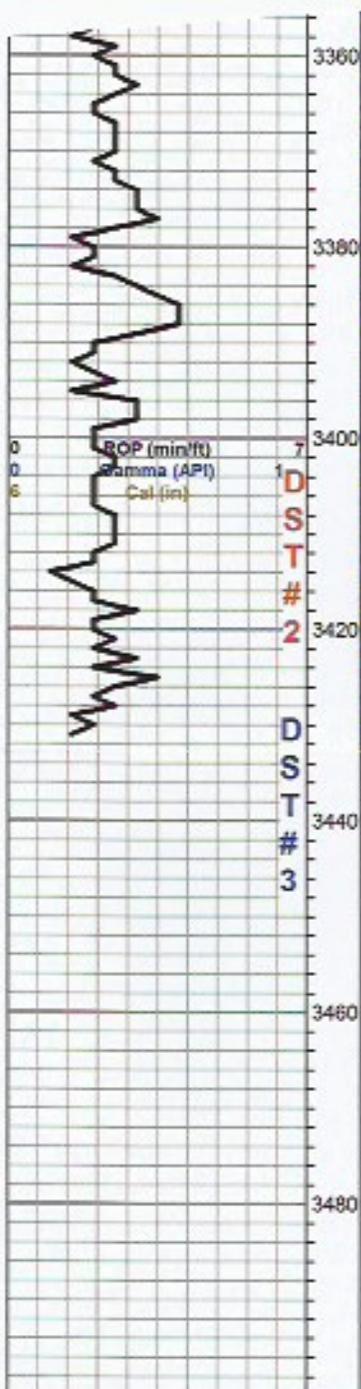
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

DST#1 3319-3415
30-30-30-30

1st Open:
Weak

Recovery:
35' Slightly mud cut oil
(3%O, 98%M)

Pressures:
ISIP 772 psi
FSIP 746 psi
IFP 79-85 psi
FFP 86-91 psi
HSH 1707-1673



V.C. cherts, orange, amber, yellow, opaque

LS, mar. tinted, plus cherts A/A

A/A

Sd. white, clear, vfg, friable in pts, n/s

Simpson 3399.0 (-1534.0)

Sh, blue green, sub-waxy

Arbuckle 3413.0 (-1548.0)

Dol. tan, med xln, suc. scattered porosity, tr. fo, ??? odor

Dol. tan, white, med xln, scattered tr. poor stain, wk. sfo. (decreasing from above) no odor

RTD 3431.0 (-1566.0)

DST #2 3319-3421

30-30-30-30

1st Open:
Weak

Recovery:
1' Clean Oil

65' Slight Oil
(7%O, 53%M)

Pressures:
ISIP 879 psi
FSIP 839 psi
IFP 85-91 psi
FFP 95-106 psi
HSH 1702-1735 psi

DST#3 3319-3431

30-30-30-30

1st Open:
Blow, weak

Recovery:
55' mud w/ tr. oil

Pressures:
ISIP 1017 psi
FSIP 974 psi
IFP 85-98 psi
FFP 100-108 psi
HSH 1690-1647 psi