Sean Deenihan
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY: Triple Crown Operating, LLC

LEASE: Koerner #1-29

WELL NO.

LOCATION: 1310' FSL & 990' FEL

SEC. 29 TWP. 20 S RGE. 22 W

COUNTY: Ness STATE: KS

ELEVATIONS

KB: 2192'

DF:

GL: 2185'

Mud Co.: Mud Service

From: Kelly Bushing

CASING

CONDUCTOR: 8 5/8" @ 1432'

PRODUCTION: 5.5" / 0H.

ELECTRICAL SURVEYS

DUAL IND., MIC.

SAMPLES SAVED FROM: 3600' TO: RTD

DRILLING TIME KEPT FROM: 3600' TO: RTD

SAMPLES EXAMINED FROM: 3600' TO: RTD

GEOLOGICAL SUPERVISION FROM: 3600' TO: RTD

REFERENCE WELL

Formation	Sample Tops	E-log Tops	Pool
Anhydrite	(-1300')	(-1303')	
Base Anhydrite	(-1334')	(-1337')	
Heebner	(-1540')	(-1542')	
Lansing	(-1584')	(-1586')	
Muncie Creek	(-1748')	(-1752')	
Stark Sh.	(-1842')	(-1852')	
Hushpuckney	(-1880')	(-1892')	
Base Kansas City	(-1924')	(-1932')	
Marmaton	(-1932')	(-1940')	
Pawnee	(-2026')	(-2034')	
Myrick Station	(-2062')	(-2070')	
Fort Scott	(-2080')	(-2088')	
Cherokee Sh.	(-2092')	(-2100')	
Mississippian	(-2160')	(-2168')	

REMARKS_ Based on sample analysis, DST & E-log evaluation, and relative structural position, The Koerner #1-29 will be further evaluated through production casing.

Respectfully Submitted,

Sean P. Deenihan

Curve Track 1
ROP (Min/Ft)

Lithology

Geological Descriptions

Engineering Data
T2 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)

ROP (Min/Ft)

3590 — Ls, wh, vf-gr, sdy, p-fr intrgran Pcs; fri, soft, no show

Ls, gy, tri, wh, vf-gr, chlky, sdy,ff; no show

3600 — Ls, crm, gy, vf-gr, p-intrgran Pcs fri-firm, barren

LS - crm,f gr,fr intgran Pcr, vug, fos, no show

Ls, crm, wh, Pyr,p-fr intgran Pcr, sme chlky fos, grys, No show

Hoebner Sh. 3694 (-1502)

3700 — Sh, blk

LS - crm-med sh, v poor-fr por, chalky ff mds

Ls, crm, gy, vf-gr,p-intgran Pcr, vug, fos, no show

SH - grey, green, gummy soft

Lansing 3738 (-1546)

3730 — LS - some as above, some fine sh & dense, platy, transition to white

Shale - dark brown, organic, & limestone, white & grey, some coarse sh, sandy texture

Ls, wh, tn, crm, vf-gr, sli dolic, dnse, vug, p-fr/sh Por, barren, no odr

Ls, xx, gran, sli dolo fos

3760 — LS - cm-tn white, fr med gr, suc fos, abd chlk

LS - buff, fine to med sh, foss, occ & com porosity, no odor, some slight staining, ratti

3790 — LS - as above

Ls, wh, gy, vf-gr, p intgran Pcs; no show Cht, wh, gy, fresh

CH - as above & LS - cm-tn white & gry, occ, barren porosity, no odor, ratti

Ls, wh, - n chlky, sme p-fr intgran Pcr, vug, barren, soft, no show

3820 — Ls, crm, gy, vf-gr, p/intgran Pcs, chlky, no show

Ovst, wh, tn, vf-dn, suc, barren. Cht, wh, gy, fos, no show

LS - creamy tan, most med sh, fine-occ-occ porosity, barren, some foss, fair pyritic development, ratti

3850 — LS cm-tn, fr,f gr,p intgran Por, fos, no odr, Cht, wh, gy, translucent-opq, fresh, sharp

SH - mostly grey-green & blocky

LS - white, med sh, occ-vf-con texture, well cemented & chalky, ratti

3880 — LS - buff to cream, heavy occ-com porosity, fine crush, barren porosity, chalky, no odor, ratti

LS - wh, mod, fine sh, heavy occ-com, barren, ratti

3910 — LS - cm-tn gy, med sh, chlky matrix, abd fos

LS - gy, fine sh, platy & lithographic

Ls, gy, chlky/ff, vf gr,p-fr intgran Pcr, barren, no odr

3940 — Ls, gy, dk gy, shaly, dnse, inc. chlky wi depth, no odr

Ls, v chlky

Ls, gy vf-gr,p intgran occ dnse, no show

Sh, blk

3970 — Ls, gy, dk gy, vf-gr,p intgran Pcs; dnse

Ls, crm, tn, gy, fos, dnse, NVF, hd

Ls, wh, v chlky soft

Sh, gy, dk gy

4000 — Sh, gy, dk gy

Sh, lt gy, lead, brn

Marmaton 4114 (-1922)

Ls, brn, fos, dnse, p intgran Por, fst, no show

Ls, gy, dnse. Sh, gy, dk gy, fis

Sh gy, Ls, gy, pred dnse, sme chky

4030 — Ls, wh, gy, chlky, sme chorty, occ cm wl gy, ang. fr Cht,

Ls, gy, vf-vf gr, dnse, p-fr pcs; fst, tr Pyr, no odr

Ls, tn, gy, vf-gr, dnse, wx-fd, sme dolic, p intgran Pcr, hd, no odr

Inc, Sh., gy, dk gy Ls, aa

Pawnee 4188 (-1996)

4060 — Ls, tn, gy, dnse, sli dolic - Suc Pr,p-fr intgran Pcr, sme chlky, fst, tr Oil, pyrah, fresh

Ls, gy, dnse, firm, no show

DST #1

4306-4366'
30-30-60-60"
IF: 6.5"
FF: 6.5"

Rec: 10' CO.
(5%O, 95%M)

IFP: 28-89#
FFP: 97-150#
SIP: 1367-1364#

4090 — Ls, wh, gy, dv-vf gr, p-fr intgran Pcs; no odr

Ls, gy, tn, vf gr, fos, sli chlky,p ss Pcs; no show

Sh, gy, dk gy

4120 — Sh, blk

Ls, gy, fr,p intgran Por, fos, firm, silter-Ls etc, NSFO, no odr

Ft. Scott 4258 (-2066)

4150 — Cht, wh, gy, fresh, spk, sharp, NSFO

Ls, crm, vf gr, fos, p intgran Por, firm, occ chky sli stn, fr odor NSFO

Cherokee Sh. 4284 (-2092)

4180 — Sh, blk, sli gas bubble

Ls, tn, brn, vf gr, dnse, Ch, gy, opq, spic

Ls, tn, gy, fos, vf gr, v hd, NVF

4210 — Ls, tn, vf-vf gr, dnse, chly ff/ fine, no show

Sh, varic - yel, grn, lead, brn, gy

Cht, wh, yel, fos, p Ovds, SSFO, fr odr?

Sh, varic - maroon, lead, brn, gy, grn

4240 — Sh, varic, dod fresh Ch, sli stn, no show, no odr

Mississippi 4358 (-2166)

4270 — Ovd, gy, tn, f-ch, vug, occ-sec, mod brn-blk Cuts, Pkd w/ fluor

Cht, wh, weath- fresh, tr frly, vug, dolic, fri, FSFO - fr brn, gd odr

4300 — Ch, ss w/ lmc, occ dol, vf-sh, pred firm, sme fri, wt tr brn-brn stn, tr fr brn Ch lam, fluor

Sh., gy, dy gy, blk, gassy odr

4330 — Ls, gy, dk gy, bk, gassy odr

4360 — Ls, gy, dk gy, bk, gassy odr

4390 — Ls, gy, dk gy, bk, gassy odr

4400 — Ls, gy, dk gy, bk, gassy odr

Bottom of Hole

Bourrup to Surface Casing

Oil Trip @ KDF

RTD: 4373'
LTD: 4377'

Triple Crown Operating, LLC.
Koerner #1-29
29 -20S-22W
Ness Co., KS

KB: 2192'