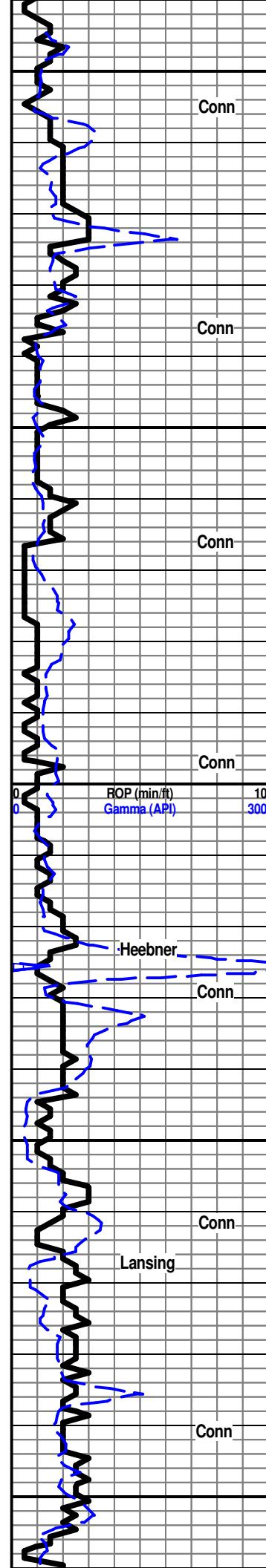


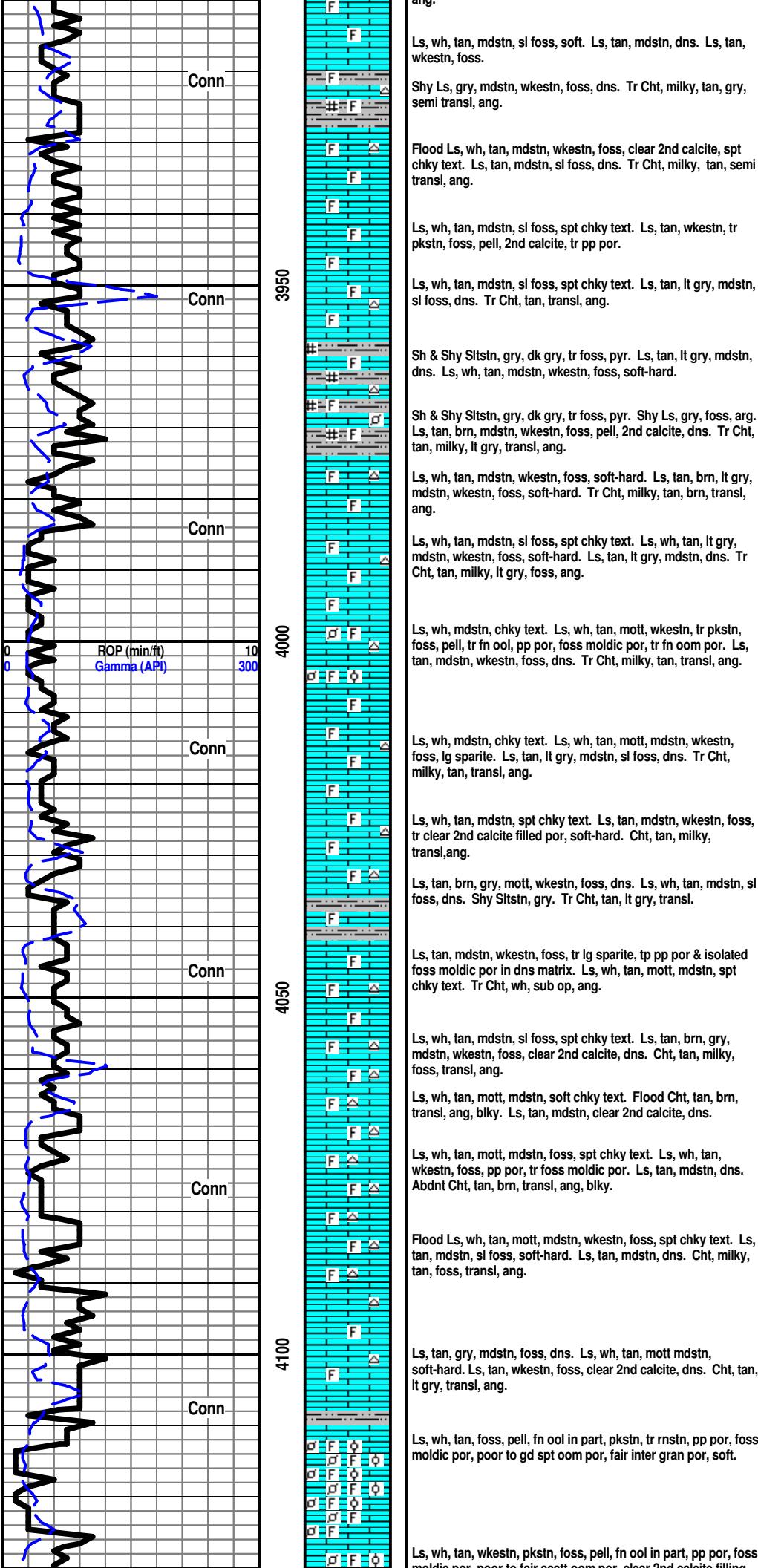
Start 10 ft Wet & Dry Samples

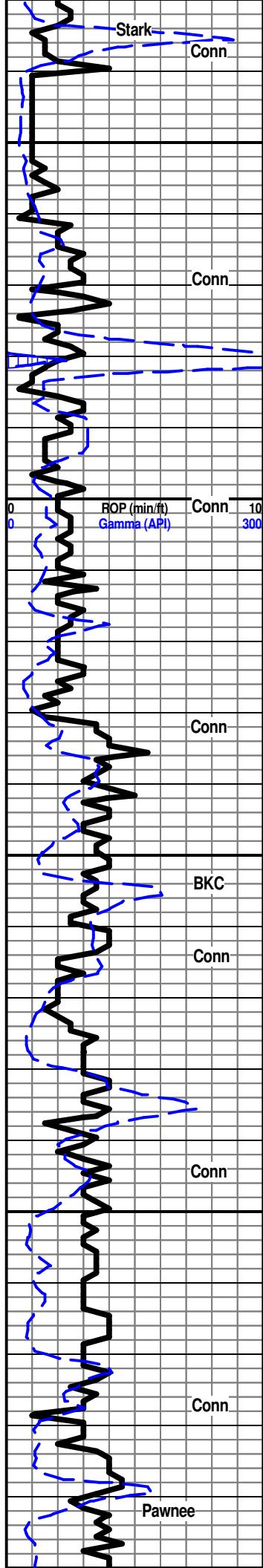


Tight Conn @ 3766
Work Drill Pipe 30 min.

Heebner 3823 (-1322)

Lansing 3867 (-1366)





moldic por, poor to fair scatt oom por, clear 2nd calcite filling some por. Ls, tan, pkstn, foss, pell, fn ool, 2nd calcite, dns.

Ls, wh, tan, mott, pkstn, tr grnstrn, foss, pell, fn ool in part, pp por, foss moldic por, poor to gd oom por, clear 2nd calcite filling some por.

Ls, wh, tan, mott, pkstn, tr grnstrn, foss, pell, fn ool in part, pp por, foss moldic por, poor to gd oom por, clear 2nd calcite filling some por.

Ls, wh, tan, mdstn, wkestn, foss, clear 2nd calcite, dns. Ls, tan, mdstn, dns.

Flood Ls, tan, mdstn, sl foss, dns. Ls, wh, tan, wkestn, pkstn, foss, pell, dns. Ls, brn, gry, wkestn, foss, dns. Shy Ls, gry, foss, arg, pyr.

Sh & Shy Sltstn. gry, dk brn, blk, pyr. Tr Sh, blk, carb, pyr.

Ls, tan, dk brn, gry, mdstn, wkestn, foss, dns. Shy Ls, gry, dk gry, foss, arg, tr pyr.

Sh & Shy Sltstn, gry, dk gry, foss, tr pyr. Shy Ls, gry, dk gry, foss, tr micro pyr.

Ls, wh, tan, mdstn, wkestn, foss, clear 2nd calcite, tr pyr, soft-hard. Ls, tan, wkestn, foss, pell, tr clear 2nd calcite filled por, dns. Tr Cht, tan, brn, transl, ang.

Ls, tan, brn, mdstn, wkestn, foss, tr pyr, dns. Ls, tan, gry, mott, wkestn, dk gry, foss, arg, in part. Shy Sltstn, gry, dk gry, sl foss, pyr.

Ls, wh, tan, wkestn, pkstn, foss, pell, pp por, spt foss moldic por, fair inter gran por.

Ls, tan, brn, lt gry, wkestn, tr pkstn, foss, pell, 2nd calcite, dns. Ls, tan, brn, mdstn, wkestn, foss, dns. Shy Ls, tan, gry, dk brn, wkestn, foss, arg, tr pyr.

Ls, tan, brn, mdstn, wkestn, foss, dns. Ls, tan, wkestn, foss, tr micro pyr, soft-hard. Tr Shy Ls, gry, wkestn, foss, arg, tr pyr.

Ls, wh, tan, mdstn, foss, soft-hard. Ls, tan, brn, mdstn, wkestn, foss, 2nd calcite, dns.

Ls, tan, brn, mdstn, wkestn, foss, 2nd calcite, soft-hard. Ls, tan, brn, mdstn, foss, dns. Sh & Shy Sltstn, gry, soft.

Flood Sh & Shy Sltstn, gry, dk gry, blk, tr foss, pyr. Shy Ls, tan, brn, gry, wkestn, foss, arg, tr pyr. Ls, tan, brn, wkestn, foss, 2nd calcite, dns.

Sh & Sltstn, gry, dk gry, blk, pyr. Shy Ls, gry, wkestn, foss, soft, Ls, brn, dk brn, wkestn, foss, 2nd calcite filled por, dns.

Ls, wh, tan, mott, mdstn, wkestn, foss, soft-hard. Ls, tan, brn, mdstn, sl foss, dns. Tr Cht, clear, tan, transl, ang.

Flood Ls, wh, tan, mdstn, foss, spt chky text. Ls, wh, tan, mott, mdstn, wkestn, foss, clear 2nd calcite filled por, dns. Tr Cht, clear, tan, brn, yell, transl, ang.

Ls, tan, mdstn, crypto xln, clear 2nd xln filled por, & frac, dns. Ls, tan, mdstn, wkestn, foss, clear 2nd xln filled por. Tr Cht, clear, tan, brn, yell, transl, ang. Tr clear geodal qtz w/xln faces.

Ls, wh, tan, mdstn, spt chky text. Ls, tan, mdstn, wkestn, foss, 2nd clear calcite filled por, dns.

Sh & Shy Sltstn, gry, dk gry, blk, tr foss, micro pyr. Shy Sltstn, lt gry, micro pyr, soft.

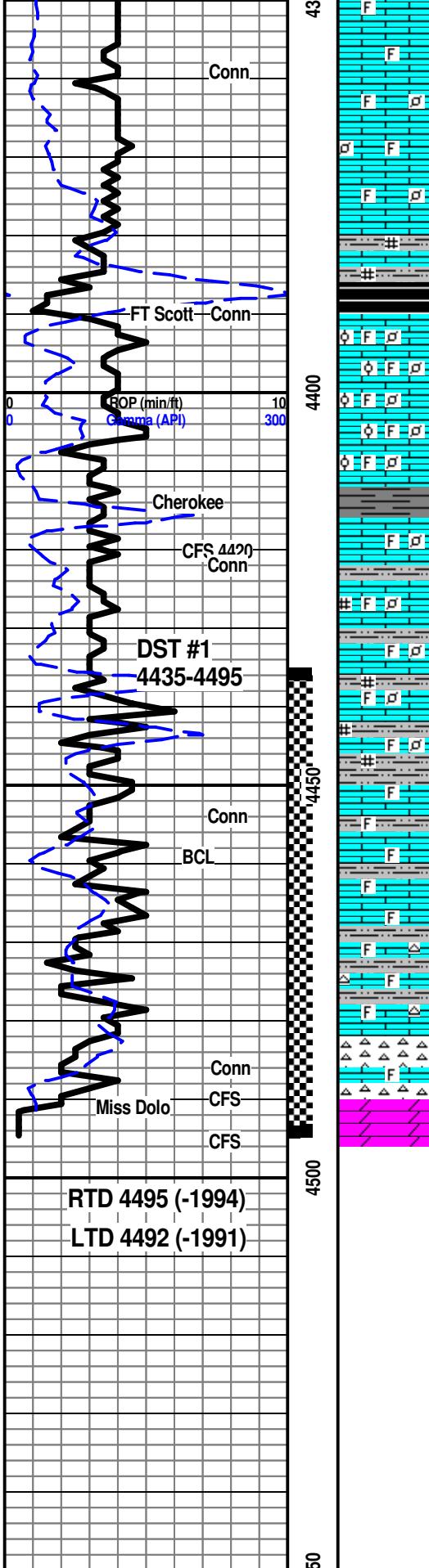
Ls, tan, mdstn, cryptoxln, dns. Ls, wh, tan, mott, mdstn, sl foss, dns. Ls, tan, mdstn, wkestn, foss, tr micro pyr, dns.

Stark 4134 (-1633)

Mud-CO/Service Mud
01/20/2013 11:20 am
Drilling @ 4179'
Vis 44, Wt 9.2, WL 6.2
Ph 10.5, LCM 2#, Chl 3,400

BKC 4254 (-1753)

Pawnee 4342 (-1841)



Ls, tan, brn, mdstn, crypto xln, clear 2nd cacite filled por, dns.

Ls, wh, tan, mdstn, wkestn, foss, pell, dns.

Ls, tan, brn, mdstn, crypto xln, dns. Ls, tan, mdstn, wkestn, foss, pell, tr micro pyr, dns.

Sh & Shy Sltstn, dk gry-blk, micro pyr. Shy Ls, gry, mdstn, arg, micro pyr. Flood Sh, blk, carb, pyr, soft.

Ls, lt gry, tan, wkestn, foss, pell, soft. Ls, tan, wkestn, tr pkstn, foss, pell, ool, soft-hard. Ls, tan, brn, wkestn, pkstn, foss, pell, ool, clear 2nd calcite filled inter gran por, dns.

Flood Ls, tan, brn, wkestn, pkstn, foss, pell, ool, inter gran por filled w 2nd calcite, dns. Ls, lt gry, mott tan, wkestn, pkstn, foss, pell, ool, tr micro pyr, soft-hard.

Shy Sltstn, gry, dk gry, blk, micro pyr.

Flood Ls, wh, tan, mott, mdstn, wkestn, foss, pell, soft-hard. Ls, lt gry, mdstn, wkestn, foss, micro pyr.

Ls, wh, tan, mott, mdstn, wkestn, foss, pell, soft-hard. Sh & Shy Sltstn, gry, dk gry, pyr.

Ls, wh, tan, mott, mdstn, wkestn, foss, pell, tr micro pyr, soft-hard. Ls, tan, brn, mdstn, dns. Sh & Shy Sltstn, gry, grn, dk gry, tr foss, micro pyr.

Sh & Shy Sltstn, gry, grn, dk gry, blk, tr foss, pyr. Ls, wh, tan, mott, mdstn, wkestn, foss, tr pell, soft-hard. Ls, tan, brn, mdstn, dns. Ls, brn, gry, mdstn, micro pyr.

Sh & Shy Sltstn, AA. Ls, tan, brn, mdstn, tr foss, clear 2nd calcite, tr pyr, dns. Ls, crm, tan, mdstn, wkestn, foss, tr pell, clear 2nd calcite, soft-hard. Sh & Shy Sltstn, gry, grn, dk gry, tr foss, pyr.

Sh & Shy Sltstn, AA. Shy Ls, gry, wkestn, tan to dk gry foss, arg in part tr pyr. Ls, wh, tan, mdstn, wkestn, foss, 2nd calcite, few frag w/ trace blk spt dead oil stn.

4468-4482 Sh & Shy Sltstn, AA. Shy Ls, gry, dk gry, mdstn, arg, tr pyr. Ls, tan, brn, gry, wkestn, tan-gry foss, arg in part, tr pyr. Ls, crm, tan, brn, mdstn, dns. Ls, crm, tan, wkestn, foss, pell, 2nd calcite, pp por, 1% frag w/spt blk oil stn in isolated vug por & pp por. Tr Cht, milky tan, transl, ang.

CFS@4490: 4482-4490 Sh & Sltstn, AA. Flood Cht, clear, milky, tan, yell, org, transl, SS spt blk oil stn, tr tarry oil. Few frag trip Cht with blk stn. Ls, tan, brn, gry, mdstn, wkestn, foss, tr pyr, tr pp blk stn, in por.

CFS @ 4495: 4490-4495 Slight odor. Dolo tan, brn, vfn-fn xln, poor to fair suc por, vug & foss moldic por, SS tan brn FO on break w/yell flor, tr gas bubbles.

Fort Scott 4390 (-1889)

Cherokee 4414 (-1913)

Short Trip @ 4420'. Stuck in Hole 5 stands off bottom @ 4137'. Was able to work pipe free and complete 15 stand short trip. Did not hit anything going back to bottom.

BCL 4461 (-1960)

Mud-C0/Service Mud

01/21/2013 11:35 am

CFS @ 4490'

Vis 51, Wt 9.4, WL 5.6

Ph 11.0, LCM 1#, Chl 3,000

Miss Dolomite 4491 (-1990)

DST #1 (Miss) 4435-4495/30-60-60-90

1st Op: 1/4 inch blow built to 8 inches.

2nd Op: BOB/40 min.

Recover: 298' Total Fluid.

112' OCM (2% Oil, 98% Mud).

62' M w/show of Oil (100% Mud).

124' MCW (70% Wtr, 30% Mud).

IH 2235#, IFP 24-70#, ISIP1304#,

FFP 73-154#, FSIP 1303#, FH 2158#,

BHT 123 F

API .51 @ 42 F. Chl 23,000.