

Robert L. Milford

PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOGS

OPERATOR: **Murfin Drilling Company, Inc.**
LEASE: **Drake #1-22**
LOC. SPOT: **190 N. & 10 W. of NW NE SE**

LOC. FOOTAGE: **2,500' FSL 1,000' FEL**

SEC. **22** TWPSP **5S** RANG **33W**

COUNTY **Rawlins** STATE **Kansas**

API **15-153-20894-00-00**

CONTRACTOR: **Murfin Drilling Co., Inc.** RFD NO. **8**
DRILLING STARTED **2-2-2012** COMPLETED **2-13-2012**
MUD DISPLACED **2,203** MUD TYPE **Chemical**
DRILLING TIME KEPT FROM **3,100'** TO **RTD**
SAMPLES SAVED FROM **3,100'** TO **RTD**
SAMPLES EXAMINED FROM **3,100'** TO **RTD**
GEOLOGICAL SUPERVISION FROM **3,520'** TO **RTD**

MEASUREMENTS/FUNCTIONS
CASING RECORD
Casing
Surf. **8.5/6" @ 218**
w/ 200 scales cement
Production none

ELEVATIONS
KB **3,014'**
GL **3,009'**

FORMATION NAME LOGS TOP DATUM TOP DATUM SAMPLE DATE
Stone Corral 2,664' +350 2,665' +349
Base Stone Corral 3,710' -696 3,711' -697
Topeka 3,880' -866 3,880' -866
Heebner 3,928' -914 3,928' -914
Lansing 4,166' -1152 4,166' -1152
B/KC 4,290' -1276 4,289' -1275
Pawnee 4,366' -1352 4,365' -1351
Cherokee 4,514' -1500 4,514' -1500
Mississippi 4,615' -1602 4,615' -1601

Porosity Log
Microresistivity Log
Borehole Compensated
Sonic Log



| DATE | 7:00 AM DEPTH | REMARKS |
|---------|---------------|--|
| 2-2-12 | 0' | Spud @ 5:00 pm. Plug down @ 9:30 pm. Started drilling out plug @ 5:30 am on 2-3-12 |
| 2-3-12 | 320' | Cut 320' in last 24 hrs. Dev. 0.25' @ 1001' |
| 2-4-12 | 1,785' | Cut 1,465' in last 24 hrs; 22.25 hrs drlg. Dev. 0.25' @ 2012' |
| 2-5-12 | 2,800' | Cut 1,015' in last 24 hrs; 22.5 hrs drlg. |
| 2-6-12 | 3,375' | Cut 575' in last 24 hrs; 20.75 hrs drlg. |
| 2-7-12 | 3,850' | Cut 475' in last 24 hrs; 23 hrs drlg. DST #1 @ 3987' |
| 2-8-12 | 3,987' | Cut 137' in last 24 hrs; 7 hrs drlg. DST #2 @ 4037' |
| 2-9-12 | 4,037' | Cut 50' in last 24 hrs; 3 hrs drlg. DST #3 @ 4118' |
| 2-10-12 | 4,147' | Cut 110' in last 24 hrs; 6.75 hrs drlg. DST #4 @ 4345'. Rig repair 4.75 hrs |
| 2-11-12 | 4,345' | Cut 198' in last 24 hrs; 12.75 hrs drlg. Rig repair 5.75 hrs. Ran DST #4 |
| 2-12-12 | 4,345' | Cut 0' in last 24 hrs; 0 hrs drlg. DST #5 @ 4402' |
| 2-13-12 | 4,560' | Cut 215' in last 24 hrs; 10.25 hrs drlg. RTD 4615' @ 11:21 am |
| 2-14-12 | 4,615' | Cut 55' in last 24 hrs; 4.25 hrs drlg. P&A |

Remarks

The electric log measurements correlate from 1' higher to 1' lower to the drilling measurements.

Formation tops and lithology on this report have been corrected to the electric log.

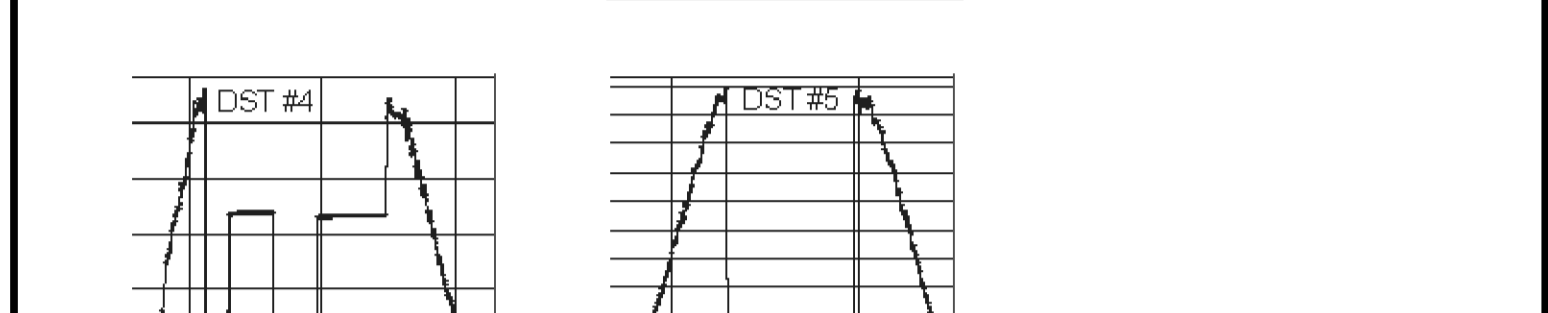
The drilling samples were deposited at the Kansas Geological Survey office in Wichita.

Respectfully submitted,

Robert L. Milford

Drill Stem Test Charts

Drill Stem Test by **Trilobite Testing, Inc.**



| LITH | DRILL TIME (MIN/FT) | DEPTH | SAMPLE DESCRIPTIONS | REMARKS |
|------|---------------------|-------|---------------------|--------------------------------|
| | | 2650 | | Stone Corral 2664' (+350) EL |
| | | 2700 | | B/Stone Corral 2698' (+316) EL |

| | | | | |
|--|--|------|--|---|
| | | 3600 | LS: crm-gry, fxl, sli fos, sub chk-prt dns, some chky, pr por, NS LS: crm-tan, fxl, fos in prt, sub chky-prty dns, pr por, NS Sh: red-brn, brn, gry, grn LS: crm-gry, fxl, sli fos, shly in prt, sub chky-prty dns, pr por, NS | Mud displaced @ 3273' Morgan Mud check @ 3375': 46 Vis, 8.6 Wt, 6.8 WL, 2,900 ppm Chl, 4# LCM |
| | | 3650 | LS: wh-lt gry, fxl, fos in prt, vry chky-prty dns, pr por, NS Sh: red-brn, some soft & gummy, w/ gry & grn Dol: crm, fxl, some sli suc, some fr-gd intrxl & tr small vug por, NS LS: wh-lt gry, fxl, fos in prt, vry chky-prty dns, pr por, NS Dol: crm, fxl, sub chky-prty dns, some small vug por, NS | |
| | | 3700 | LS: crm-lt gry, fxl, sli fos, sli shly in prt, sli chty, sub chky-prty dns, pr por, NS Sh: red-brn, gry-grn | Topeka 3710' (-696) EL |
| | | 3750 | LS: crm-lt gry, fxl, sli fos, sub chky-prty dns, pr por, NS LS: wh-crm, fxl, sli fos, sli chty, chky-prty dns w/ some vry chky, msty pr fos w/ tr small vug por, rare brn-blk dead spdt stn, NSFO, no odor Sd: crm-lt gry, fn-vry fn grain, calc, semi fri-brittle, pr vis por, NS Sh: gry & grn Dol: crm, fxl, sub chky-prty dns, some small vug por, NS, intermixed w/ LS: crm-lt gry, fxl, sli fos, sub chky-prty dns w/ some chk, pr por, NS LS: crm-lt gry, fxl, sli fos, sli chty, chky-prty dns, pr por, NS LS: crm-lt gry, fxl, sli fos, sub chky-prty dns, pr por, NS Sh: Blk Carb Sd: crm-lt gry, fn-vry fn grain, calc, semi fri-brittle, pr vis por, NS LS: crm-lt gry, fxl, fos-ool in prt, chky-prty dns, pr por, NS Sh: red-brn, grn, gry LS: crm-lt gry, fxl, fos in prt, sub chky-prty dns, pr por, NS Sh: red-brn & grn, some gry & brn LS: crm-lt gry, fxl, fos in prt, sub chky-prty dns, pr por, NS | |
| | | 3850 | LS: A.A. | Heebner 3880' (-866) EL |
| | | 3900 | LS: wh-crm, fxl, fos in prt, chky-prty dns, pr por, NS LS: A.A., sli chty (wh-org), tr pr-fr fos-vug por, rare blk tarry spdt stn, NSFO, no odor Sh: Black Carb LS: tan-brn, fxl, sli fos, msty dns, pr por, NS Sh: red-brn & grn, some gry & brn Sh: A.A. | Toronto 3913' (-899) EL |
| | | 3950 | LS: wh-crm, fxl, fos in prt, pr w/ tr fr fos-small vug por, scat blk w/ rare brn spdt-sub sat stn, tr semi live stn, NSFO, no odor & tr Sd: crm, fn-vry fn grain, calc, pr vis por, blk spdt stn, NSFO Sh: red-brn, grn, some sdy LS: wh-crm, fxl, fos-ool in prt, sli pyr, sub chky-prty dns, pr fr intrprt, & tr small vug por, scat drk brn-blk spdt-sub sat stn, S-FSFO (some thick-hvy beads), no odor Sd: LS-Calc Sd: crm-lt gry, fn-vry fn grain, msty brittle, pr vis por, scat blk dead spdt-sub sat stn, NSFO, no odor Sh: red-brn, some soft & gummy, some grn LS: wh-crm, fxl, fos in prt, chky-prty dns, pr intrprt por & tr small vug por, scat blk spdt-sub sat stn, SSFO (msty thick-hvy beads), no odor LS: wh-crm, fxl, fos in prt, sli chty, vry chky-prty dns, pr w/ some fr fos por, fr amnt blk w/ some brn spdt-sub sat stn, S-FSFO, no odor LS: A.A., rare stn, NSFO, no odor Sh: Black Carb LS: tan-brn, fxl, sli fos, msty dns, pr por, NS Sh: red-brn & grn, some gry & brn Sh: A.A. | Lansing 3928' (-914) EL DST #1 3917'-3987' Lans 'A'-D' zns IF: BOB in 17'; ISI: weak blow back for 5' FF: BOB in 21'; FSI: no blow back Rec: 585' TOTAL FLUID: 145' MCV (64% W, 36% M) 125' MCV (85% W, 15% M) 315' MCV (92% W, 8% M) Show of oil in tool Chl ppm: 25,000 DST: 5,100 Mud IFF: 26-151#/30" ISIP: 1276#/60" FFP: 150-282#/60" FSP: 1276#/90" Morgan Mud check @ 3956': 64 Vis, 9.2 Wt, 7.2 WL, 5,100 ppm Chl, 7# LCM Ran 25 stand short trip prior to DST #1 Pipe Strap @ 3987': Strap long 2.00' Straight Hole Survey @ 3987': Misrun Morgan Mud check @ 3987': 52 Vis, 9.2 Wt, 7.6 WL, 6,200 ppm Chl, 7# LCM |
| | | 4000 | Sh: red-brn, some gry & grn LS: wh-tan, fxl, fos in prt, sub chky-prty dns w/ some chk, pr w/ tr fr fos por, scat lt brn-blk spdt-sub sat stn, SSFO, no odor Sh: red-brn & gry-grn LS: wh-crm, fxl, fos in prt, chky-prty dns, pr fos por, scat brn spdt-sub sat w/ tr sat stn, NSFO, no odor LS: wh-lt gry, fxl, fos, chty (wh-tan), chky-prty dns, pr por, tr brn-blk spdt-sub sat stn, NSFO, no odor LS: crm-lt gry, fxl, prty dns, pr por, NS LS: brn, fxl, sli fos, msty dns, pr por, NS Sh: red-brn, some gry & grn LS: wh-crm, fxl, sli fos, chty, chky-prty dns, pr por, rare brn-blk spdt-sub sat stn, NSFO, no odor Sd: LS-Calc Sd: crm-lt gry, fxl, some fos, fn-vry fn grain sd, chky matrix, msty brittle, fr intrgran por, vry scat lt-med brn spdt-sub sat stn, SSFO, no odor Sh: red-brn, some gry Sh: A.A. | DST #2 3985'-4037' Lans 'E'-G' zns IF: blow built to 4.5'; ISI: 1/8" blow back FF: blow built to 8.5'; FSI: no blow back Recovery: 225' TOTAL FLUID 38' Mud (100% M) 125' WCM (15% W, 82% M) 62' MCV (95% W, 45% M) IFF: 15-60#/30" ISIP: 1313#/60" FFP: 66-118#/60" FSP: 1313#/90" NOTE: minor plugging during IFF Straight Hole Survey @ 4037': Misrun Poor Samples from 4037' to 4118': samples are carrying a high amount of shale |
| | | 4050 | LS: wh-lt gry, fxl, fos in prt, sub chky-prty dns, pr w/ tr fr fos-small vug por, vry scat lt brn-blk spdt-sub sat stn, SSFO, no odor Sh: Black Carb (trace amnt) Sh: red-brn & grn, some gry Sh: red-brn, some gry & grn | DST #3 4062'-4118' Lans lwr 'H'-J' zns IF: BOB in 3.25'; ISI: no blow back FF: BOB in 20.5'; FSI: 0.5' blow back Rec: 1,450' TOTAL FLUID: 190' WM w/ trace oil (43% W, 57% M) 315' MCV w/ trace oil (70% W, 30% M) 945' Water (96% W, 4% M) Chl ppm: 33,000 DST: 6,900 Mud IFF: 142-444#/30" ISIP: 1308#/60" FFP: 419-677#/30" FSP: 1301#/90" |
| | | 4100 | LS: wh-lt gry, fxl, fos in prt, sub chky-prty dns, pr w/ tr fr fos-small vug por, vry scat lt brn-blk spdt-sub sat stn, SSFO, no odor Sh: Black Carb Sh: red-brn & grn, some gry Sh: red-brn, some gry & grn | Stark 4115' (-1101) EL Straight Hole Survey @ 4118': 0.25' Dev. Morgan Mud check @ 4118': 53 Vis, 9.3 Wt, 8.0 WL, 6,900 ppm Chl, 7# LCM |
| | | 4150 | LS: wh-crm, fxl, fos in prt, tr cht (wh-tan), chky-prty dns w/ some vry chky, pr w/ tr fr intrprt por, rare brn-blk spdt stn, NSFO, no odor Sh: red-brn & gry, some grn LS: crm-lt gry, fxl, fos in prt, sub chky-dns, pr por, NS Sh: red-brn, gry, some grn | B/KC 4166' (-1152) EL drilled w/ partially plugged bit to 4345' |
| | | 4200 | LS: crm-tan, fxl, sub chky-dns, pr por, NS Calc Sh: lt gry, w/ some Sh: red-brn, gry & grn Sh: red-brn, some gry & grn LS: crm-brn, fxl, sli fos, sub chk-dns, pr por, NS Calc Sh: gry, & Sh: red-brn Calc Sh: med gry, & Sh: red-brn, some gry & grn LS: crm-gry, fxl, fos in prt, sub chky-dns, pr fos por, tr dead brn spdt stn, NSFO, no odor Calc Sh: med gry, & Sh: red-brn, some gry & grn Calc Sh: med gry, intermixed with Sh: red-brn, some sli calc LS: wh-tan, fxl, sli fos, tr pyr, some calcite, sub chky-dns w/ some chk-vry chky, pr por, tr msty dead lt-med brn spdt stn, some stn in frac, NSFO, no odor LS: A.A., incrs chky-vry chky, tr stn A.A., NSFO, no odor Sh: Black Carb LS: crm-tan, fxl, fos in prt, chky-prty dns, pr por, vry scat brn-blk spdt-sub sat stn, cpl pcs w/ VSSFO, no odor Sh: red-brn & gry LS: crm-tan, fxl, fos in prt, sub chky-dns, some fr-gd fos & small vug por, scat lt-med brn sub sat-sub stn, F-6SFO, sli odor LS: w/ stn, SO & odor A.A., sli chty (wh-tan) | |
| | | 4250 | Sh: Black Carb LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, NS LS: A.A., rare brn spdt stn, NSFO, no odor Sh: red-brn, gry, some grn, & rare Blk Carb LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, rare brn spdt stn, NSFO, no odor Sh: red-brn, some sdy, w/ gry & some grn LS: crm-tan, fxl, fos in prt, sub chky-prty dns w/ some chk, pr vis por, tr lt-drk brn spdt stn, some stn in frac, msty dead stn in wet w/ some live stn, NSFO, no odor LS: A.A., less chky, tr cht, pr por, rare lt-drk brn spdt stn, NSFO, no odor Sh: gry-grn & red-brn Sh: gry, some sli calc, & red-brn, some grn LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, shly in prt, semi fri-brittle, pr fr por, NS Sh: gry & red-brn, some grn, w/ some Sd: A.A., NS & small amnt of LS: crm-tan, fxl, sli fos, sub chky-prty dns, pr por, tr brn spdt stn, NSFO, no odor Sh: red-brn, gry, grn, intermixed w/ some LS: crm-tan, fxl, fos in prt, sli chty (wh-tan), sub chky-prty dns, pr por, NS, & small amnt Sd: crm-lt gry, med grain, sub rnd, sli calc, some shly, semi fri-brittle, pr vis por, NS | |
| | | 4300 | LS: wh-crm, fxl, fos in prt, sub chky-dns, pr por, NS Calc Sh: med gry, & Sh: red-brn, some gry & grn LS: crm-brn, fxl, sli fos, sub chk-dns, pr por, NS Calc Sh: gry, & Sh: red-brn Calc Sh: med gry, & Sh: red-brn, some gry & grn LS: crm-gry, fxl, fos in prt, sub chky-dns, pr fos por, tr dead brn spdt stn, NSFO, no odor Calc Sh: med gry, intermixed with Sh: red-brn, some sli calc LS: wh-tan, fxl, sli fos, tr pyr, some calcite, sub chky-dns w/ some chk-vry chky, pr por, tr msty dead lt-med brn spdt stn, some stn in frac, NSFO, no odor LS: A.A., incrs chky-vry chky, tr stn A.A., NSFO, no odor Sh: Black Carb LS: crm-tan, fxl, fos in prt, chky-prty dns, pr por, vry scat brn-blk spdt-sub sat stn, cpl pcs w/ VSSFO, no odor Sh: red-brn & gry LS: crm-tan, fxl, fos in prt, sub chky-dns, some fr-gd fos & small vug por, scat lt-med brn sub sat-sub stn, F-6SFO, sli odor LS: w/ stn, SO & odor A.A., sli chty (wh-tan) | Morgan Mud check @ 4290': 72 Vis, 9.3 Wt, 7.2 WL, 6,200 ppm Chl, 7# LCM Ran 15 stand short trip prior to DST. Rig broke down for 10.5 hrs when TOH for D.B. |
| | | 4350 | Sh: Black Carb LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, NS LS: A.A., rare brn spdt stn, NSFO, no odor Sh: red-brn, gry, some grn, & rare Blk Carb LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, rare brn spdt stn, NSFO, no odor Sh: red-brn, some sdy, w/ gry & some grn LS: crm-tan, fxl, fos in prt, sub chky-prty dns w/ some chk, pr vis por, tr lt-drk brn spdt stn, some stn in frac, msty dead stn in wet w/ some live stn, NSFO, no odor LS: A.A., less chky, tr cht, pr por, rare lt-drk brn spdt stn, NSFO, no odor Sh: gry-grn & red-brn Sh: gry, some sli calc, & red-brn, some grn LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, shly in prt, semi fri-brittle, pr vis por, NS, & small amnt of LS: A.A., NS Sh: red-brn & gry, some grn, intermixed w/ some LS: crm-tan, fxl, fos in prt, sli chty (wh-tan), sub chky-prty dns, pr por, NS, & small amnt Sd: crm-lt gry, med grain, sub rnd, sli calc, some shly, semi fri-brittle, pr vis por, NS | DST #4 4308'-4345' Lower Pawnee IF: BOB 16.5'; ISI: 1" blow back FF: BOB in 20.5'; FSI: 0.5' blow back Rec: 30' GIP & 535' TOTAL FLUID 95' SOMCW (2% G, 7% O, 35% W, 56% M) 125' SOMCW (2% G, 86% W, 12% M) 315' SOMCW (1% O, 94% W, 5% M) Chl ppm: 36,000 DST: 6,900 Mud IFF: 21-137#/30" ISIP: 1193#/60" FFP: 141-257#/60" FSP: 1169#/90" |
| | | 4400 | LS: wh-crm, fxl, fos in prt, sub chky-dns, pr por, NS LS: A.A., rare brn spdt stn, NSFO, no odor Sh: red-brn, gry, some grn, & rare Blk Carb LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, rare brn spdt stn, NSFO, no odor Sh: red-brn, some sdy, w/ gry & some grn LS: crm-tan, fxl, fos in prt, sub chky-prty dns w/ some chk, pr vis por, tr lt-drk brn spdt stn, some stn in frac, msty dead stn in wet w/ some live stn, NSFO, no odor LS: A.A., less chky, tr cht, pr por, rare lt-drk brn spdt stn, NSFO, no odor Sh: gry-grn & red-brn Sh: gry, some sli calc, & red-brn, some grn LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, shly in prt, semi fri-brittle, pr vis por, NS, & small amnt of LS: A.A., NS Sh: red-brn & gry, some grn, intermixed w/ some LS: crm-tan, fxl, fos in prt, sli chty (wh-tan), sub chky-prty dns, pr por, NS, & small amnt Sd: crm-lt gry, med grain, sub rnd, sli calc, some shly, semi fri-brittle, pr vis por, NS | Morgan Mud check @ 4402': 45 Vis, 9.2 Wt, 8.8 WL, 5,400 ppm Chl, 6# LCM |
| | | 4450 | LS: wh-crm, fxl, fos in prt, sub chky-dns, pr por, NS LS: A.A., rare brn spdt stn, NSFO, no odor Sh: red-brn, gry, some grn, & rare Blk Carb LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, rare brn spdt stn, NSFO, no odor Sh: red-brn, some sdy, w/ gry & some grn LS: crm-tan, fxl, fos in prt, sub chky-prty dns w/ some chk, pr vis por, tr lt-drk brn spdt stn, some stn in frac, msty dead stn in wet w/ some live stn, NSFO, no odor LS: A.A., less chky, tr cht, pr por, rare lt-drk brn spdt stn, NSFO, no odor Sh: gry-grn & red-brn Sh: gry, some sli calc, & red-brn, some grn LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, shly in prt, semi fri-brittle, pr vis por, NS, & small amnt of LS: A.A., NS Sh: red-brn & gry, some grn, intermixed w/ some LS: crm-tan, fxl, fos in prt, sli chty (wh-tan), sub chky-prty dns, pr por, NS, & small amnt Sd: crm-lt gry, med grain, sub rnd, sli calc, some shly, semi fri-brittle, pr vis por, NS | DST #5 4342'-4402' Ft Scott-Celia lm Note: Tool slied about 2' to bottom IFF: bled off after slide; blow built to 1/8" FF: intermittent surface blow died in 18" Rec: 58' Mud w/ trace of oil in tool IFF: 34-38#/30" ISIP: 62#/30" FFP: 39-40#/30" FSP: 63#/30" |
| | | 4500 | LS: wh-crm, fxl, fos in prt, sub chky-dns, pr por, NS LS: A.A., rare brn spdt stn, NSFO, no odor Sh: red-brn, gry, some grn, & rare Blk Carb LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, rare brn spdt stn, NSFO, no odor Sh: red-brn, some sdy, w/ gry & some grn LS: crm-tan, fxl, fos in prt, sub chky-prty dns w/ some chk, pr vis por, tr lt-drk brn spdt stn, some stn in frac, msty dead stn in wet w/ some live stn, NSFO, no odor LS: A.A., less chky, tr cht, pr por, rare lt-drk brn spdt stn, NSFO, no odor Sh: gry-grn & red-brn Sh: gry, some sli calc, & red-brn, some grn LS: crm-tan, fxl, fos in prt, sub chky-dns, pr por, shly in prt, semi fri-brittle, pr vis por, NS, & small amnt of LS: A.A., NS Sh: red-brn & gry, some grn, intermixed w/ some LS: crm-tan, fxl, fos in prt, sli chty (wh-tan), sub chky-prty dns, pr por, NS, & small amnt Sd: crm-lt gry, med grain, sub rnd, sli calc, some shly, semi fri-brittle, pr vis por, NS | Morgan Mud check @ 4400': 64 Vis, 9.4 Wt, 8.0 WL, 6,000 ppm Chl, 6# LCM Ran 12 stand short trip @ TD, prior to CFS |
| | | 4550 | Chert: wh-crm, msty fresh, some sli weathered, pr vis por, NS, & small amnt of Dol: crm, fxl, sub chky-prty dns, pr por, NS Chert: A.A., pr vis por, NS, w/ incrs amnt of Dol: crm-lt gry, fxl, tr pyr, sub chky, pr por, NS Chert: wh-crm, fresh & weathered, some semi-transl, pr vis por, NS, intermixed w/ Dol: A.A., sli pyr, pr vis por, NS Chert: A.A. w/ incrs semi transl, w/ incrs amnt of Dol: crm-lt gry, fxl, sub chky, sli pyr, pr vis por, NS LS: crm-tan, fxl, fos (vry small) in prt, chty (wh-tan), sub chky-dns, pr por, NS LS: A.A., Chert is msty wh, fresh | Morgan Mud check @ 4345': 80 Vis, 9.4 Wt, 7.6 WL, 6,900 ppm Chl, 8# LCM |
| | | 4600 | LS: A.A. w/ dcns amnt of Chert | Miss 4514' (-1500) EL Straight Hole Survey @ 4615': 1° Dev. |