GEOLOGIST'S REPORT

MURFIN DRILLING COMPANY, INC. WICHITA, KANSAS

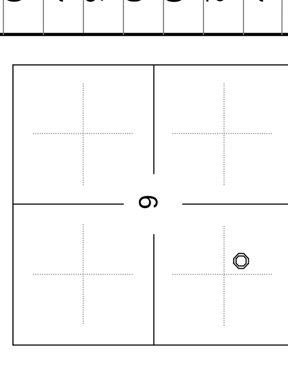
OPERATOR: MURFIN DRILLING COMPANY, INC.
LEASE: PETERSON 'A' # 1-6
LOCATION: 895 FNL & 1725 FEL
SEC. 6 TWSP 8S RGE 14W
COUNTY: OSBORNE STATE: KANSAS
FIELD: WILDCAT

ELEVATIONS
KB: 1831 Ft.
GL: 1826 Ft.
ALL MEASUREMENTS FROM K.B.

CONTRACTOR: Murfin Drilling Company RIG NO. 8
COMMENCED: 10 SEPT 2011 COMPLETED: 20 SEPT 2011
MUD DISPLACED: 2389 MUD TYPE: Chemical
DRILLING TIME KEPT FROM: 225 TO 3770
SAMPLES SAVED FROM: 250 TO 3770
SAMPLES EXAMINED FROM: 250 TO 3770
GEOLOGICAL SUPERVISION FROM: 564 TO 3770
GEOLOGIST ON WELL: Paul Gunzelman

CASING RECORD
Conductor: None
Surface: 8 5/8" @ 220'
Production: None

ELECTRICAL SURVEYS:
Log-Tech, Inc.
Comp. Neutron Density
Dual Induction
Micro-resistivity
Comp. Sonic



FORMATION NAME	LOG TOP	LOG DATUM	SAMPLE TOP	SAMPLE DATUM
Stone Corral	1112	+719	1113	+718
Base/Anhydrite	1146	+685	1147	+684
Topeka	2753	-922	2754	-923
Heebner Shale	2986	-1155	2988	-1157
Lansing	3032	-1201	3033	-1202
Base/Kansas City	3312	-1481	3311	-1480
Viola	3522	-1691	3520	-1689
Simpson	3667	-1836	3656	-1825
Arbuckle	3718	-1887	3708	-1877
Total Depth	3771	-1940	3770	-1939

REMARKS

API 15-141-20434-00-00
Drilling Fluids: Mud-Co/Service Mud, Inc. (Gary Schmidtberger, engineer)
Drill Stem Testing: Trilobite Testing, Inc. (Dustin Rash, tester)
Gas Trailer: Earth-Tech OGL, Inc. (unmanned)
Reserve Pit Chlorides: 37,000 PPM

DRILL TIME (MIN/FT)	DEPTH	LITHOLOGY	SHOWS	SAMPLE DESCRIPTIONS	REMARKS

Sh: V.dk gy, dk gy-brn, fis, cons carb mat & crm Ls inc, tr foss (Brach).

Sh: Dk gy & gy-brn, v.thn fis, cons crm Ls inc, tr crm & lt gy v.shly Ls, some Anhy.

Sh: Dk gy-brn, fis, much crm-gy, sdy shly Ls, some vvfn sd.

Sd: V.lt gy, vvfn-fn, sbang-rnd, fros, uncons.

Sd: Lt gy, vfn-fn, some med, tr pyr, sbang-rnd, uncons.

Sd: Lt gy & tn, slt-vfn, ang-sbrnd, uncons.

Sd: V.lt gy, vvfn-vfn, sbang-sbrnd, tr pyr, uncons.

Sd: Lt gy, vvfn-fn, uncons, sbang-sbrnd.

Sd: Crm yel v.lt gy tr or, sbang-rnd, uncons, some lt gy arg glauc sltst, intbd gy & dk gy fis sh.

Sd: Lt gy, slt-vfn, sbang-sbrnd, occ dk gy sh inc, fri clus-uncons.

Sd: Lt gy, vvfn-vfn, sbang-sbrnd, some arg-shly, occ lt gy sltst.

Sd: Lt gy, vvfn-vfn, some lt gy arg sltst, sli pyr, intbd lt gy fis slty sh, tr carb mat.

Dev: 1 1/4 deg. @ 722'

Sd: Lt gy, vfn-fn, some med, sbrnd, fros, uncons.

Sltst: Rd-or, v.arg, some sdy, much lt gy vfn-fn sbrnd-rnd uncons fros sd.

Sh: Gy & lt gy, fis, tr slty & carb mat, cons rd-or v.arg sltst.

Sh: Gy & lt gy, fis, sli pyr, tr carb mat, cons rd-or v.arg-shly sltst.

Sh: Lt gy, fis, sli pyr, cons rd-or arg-shly sdy sltst.

Sh: Gy & lt gy, fis, thn fis, tr pyr, cons rd-or v.arg sltst.

Sh: Lt gn, fis,some slty, cons v.lt gy Gyp, tr carb mat.

Sh: Gy & lt gy, fis, some slty, cons rd-or arg sdy sltst & shly sd.

Anhy: Gy & lt gy, sli pyr, some gy fis sh.

STONE CORRAL
1112 (+719)

BASE/ANHYDRITE
1146 (+685)

Sh: Rd-brn brn rd-or & yel, blky, ea, occ v.slty.

Sh: Rd-brn brn tn yel & rd-or, some slty, occ v.lt gn sli arg sltst.

Sh: Rd-brn brn & rd-or, tr yel, ea, occ slty, some crm-lt gy sli arg calc sltst.

Dev: 1 deg @ 1226'

Sh: Gy dk gy & gn-gy, fis, some slty & mica, intbd v.lt gy sli arg sltst.

Mud-Co. mud check @ 1258'
Drilling w/ Water
Chlor: 8,200 ppm

Sh: Rd-brn, brn & rd-or, cons gy & lt gy fis sh, occ slty, intbd lt gy & gn-gy arg sltst.

Sltst: Lt gn-gy & lt gy, arg, sli pyr, some intbd gy sh.

Sh: Gy gn-gy & gy-brn, fis, sli pyr, much intbd lt gy & gn-gy arg sltst, occ sdy.

Sh: Gy gy-gn & lt gn, fis, slty, some pyr, intbd lt gy fn mica ang-sbang v.fri sd.

Sh: Rd-brn, some purp mar & lt yel, blky, occ slty.

SALT
1487 (+344)

Sa: Gy-dk gy, tr wh, some shly.

Sa: Gy-v.lt gy, trnsl, some arg.

Ls: Crm-gy, gran, slty, sli arg, sbchky,much gy lt gy & gn-gy fis sh, some lt gy-gn v.arg sltst.

Sh: Gy & lt gy, fis, slty, cons lt gy arg sli pyr sltst, tr tn fxln dns Ls.

Ls: Crm-lt gy, fxln, mott w/dk gy sh & tn-gy rexlzd ool, tr pyr, n/s.

Sh: Gy & gy-gn, fis, tr pyr.

HERRINGTON
1680 (+151)

Dol: Crm-tn, fnly suc, tr lmy, some arg, fr-gd intgran por, n/s.

Dev: 1/4 deg. @ 1734'

Dol: Crm-v.lt gy, fnly gran, arg, tr spr calc, much rd-brn blky slty sh.

WINFIELD
1732 (+99)

Dol: Crm, v.fnly gran, occ lmy, tr pyr, some sbchky, gd intgran por, n/s.

Sh: Rd-brn & gy, some rd-or & mar, blky, occ mott, pt slty.

Ls: Crm, gran, some dol, tr dk gy sh inc, occ sbchky, cons gy & gy-gn fis sh, some v.slty.

TOWANDA
1804 (+27)

Ls: Crm-gy, fxln-gran, sbchky, tr dk gy sh inc, pr-fr intgran por, n/s.

Ls: Wh-crm, fxln-gran, some dol, tr dk gy sh inc, fr intgran por.

Sh: Gy gn-gy & dk gy, fis, occ v.slty, some wh-v.lt gy fxln sli foss Ls, n.v.p.

Ls: Wh-crm, fxln, tr org rem, sbchky, some arg, n/s.

Ls: Crm, some lt gn & yel, fxln, tr org rem, occ sbchky, pt arg, n.v.p.

Ls: Crm-v.lt gy, fxln, sbchky, tr dk gy sh inc, cons rd-brn v.arg sltst, n/s.

Ls: Wh-crm, fxln, sbchky, tr org rem, cons rd-brn blky occ slty sh.

Sh: Gy & gn-gy fis, occ slty, much rd-brn blky ea sh, lt gy lt gy-gn & crm sli pyr sltst.

NEVA
2154 (-323)

Ls: Gy, some crm-gy, fran, cons rexlzd ool, gd v.sml oom por, n/s.

Ls: Crm, tr tn, fxln, ool,sbchky, cons spr calc, pr intool por, n/s.

Sh: Gy-gn, fis, some v.slty, intbd crm lt gy gran sli dol smwt arg Ls, n/s.

Sh: Gy-gn gn & rd-brn some mott, much slty.

FORAKER
2276 (-445)

Ls: Tn, fn-vfxln, some dk gy sh inc, n.v.p.

Ls: Crm-tn, fxln, some tn-gy & arg, n.v.p.

Sh: Lt gn & gy-gn, fis, some calc-lmy, intbd wh-crm fxln sbchky Ls.

Sh: Gy gn-gy & lt gy, fis, some slty & mica, tr pyr & carb mat, wh & lt yel sbchky Ls, n.v.p.

Sh: Gy-gn & med gy, fis, much slty, some lt gy fn-vfxln arg dns Ls, n.v.p.

Sh: Gy-dk gy, fis, some v.slty, sli pyr, dk gy & tn mott vfxln arg Ls, n.v.p.

Ls: Crm, fxln, tr org rem, some sbchky, bcm crm-gy fn-vfxln, arg-shly dns, n/s.

Ls: Tn, fxln, dns, intbd gn & gy-gn fis slty sh, tr org rem.

Sd: Crm-gy & v.lt gn-gy, vvfn, some slt, ang-sbang, glauc, tr pyr, arg, fr-gd intgran por, n/s.

Ls: Tn-brn, mott w/dk gy sh, tr org rem, dns

Sltst: V.lt gy, some crm-lt gy arg, sli calc, tr mica, pts sdy, n/s.

Sh: Gy & lt gy, fis, mica, slty, tr carb mat.

Sltst: V.lt gy, lt gn-gy, vvfn, mica, slty, fri, smwt arg, n/s.

Ls: Tn-brn, fxln, foss, pyr, occ arg-shly, dns, n/s.

Ls: Crm, fxln, foss, tr ool, chky-sbchky, intbd lt gy & lt gn-gy gum sh.

Ls: Crm, fxln, foss, sli ool, sbchky, sli arg, n.v.p, n/s.

Sltst: Gy, tr tn-gy, sli pyr, arg, some vvfn sd, fr intgran por, n/s.

Ls: Tn, fxln, sli foss, bcm tn-gy & arg, intbd gy fis sh, n.v.p, n/s.

Ls: Brn & gy-brn, vfxln, foss, smwt arg, dns, bcm crm fxln sli foss, some sbchky, n/s.

Sh: Dk gy, fis, sli pyr, some slty.

Ls: Crm, fxln, tr org rem, some dk gy sh inc, tr amor calc, arg in pt, n.v.p.

Sh: Gy-dk gy, thn fis, sli pyr, occ slty.

Ls: Tn-gy, fxln, much mott w/dk gy sh inc, some org rem, tr spr calc, bcm v.arg, n.v.p.

Sh: Dk gy, fis, slty, sli pyr, some lt gn calc-lmy sh.

Ls: Crm, fxln, v.foss (Fus) tr sbchky, cons spr calc, some arg, n/s.

Sh: Gy-lt gy, fis, slty, tr carb mat, some gum.

Sltst: Gy-dk gy, sli pyr, tr mica & glauc, arg, some sdy, n/s.

Sh: Dk gy & gy-brn, fis, some calc.

Ls: Tn, fxln, dk tn rexlzd org rem, tr sbchky & sli arg in pt, n.v.p.

Sh: Gy, gy-brn, fis, tr slty, intbd lt gy & v.lt gy-gn sli mica v.fri sltst, n/s.

Ls: Crm, gran-frag, cons yel ool, sli arg-slty, n/s.

Ls: Crm, fxln, foss (Fus) glauc, tr sbchky, n.v.p.

Ls: Crm-lt gy, fn-vfxln, foss (Brach) sbchky, occ v.arg, n.v.p.

Ls: Crm, vfxln, wthd-sbchky, sli foss (Brach) intbd gy-dk gy fis sh, n.v.p

Ls: Tn-gy, gran, dol, arg, some spr calc, pr pp & intgran por, gd odor, fr shw FO, med brn even sat stn.

Ls: Crm, fxln, tr org rem, intbd dk gy fis slty sh, n.v.p.

Ls: Crm-tn, mott w/dk gy sh & org rem, fxln, intbd dk gy sli pyr sh, n/s.

Ls: Gy, tr tn-gy, fxln-vfxln, sbchky, tr org rem, some arg, n.v.p.

Ls: Crm-tn, fn-vfxln, tr sbchky, occ dk gy sh inc, cons spr calc, tr org rem, n/s.

Ls: Crm, fn-vfxln, foss (Brach, Crin) some arg, tr sbchky, n/s.

Ls: Crm, occ crm-gy, fxln-gran, sbchky, foss, some gy & dk gy op mott cht, pts arg, n/s.

Ls: Tn-gy, fn-vfxln, mott w/dk gy sh, chky, tr foss, gen dns, n/s.

Sh: Blk, thn fis, carb, bcm gy dk gy & gy-brn fis-blky, sli pyr, slty, some brn & gy-brn mott vfxln dns Ls.

Ls: Wh-crm, vfxln, sbchky, dns, tr frac, n/s.

Ls: Wh-v.lt gy, vfxln, sbchky, some arg, tr amor calc, n.v.p.

Ls: Wh-lt gy, fn-vfxln, dns, tr org rem, some arg-shly, n.v.p.

Sh: Gy & gy-brn, fis, some vgt, slty.

Ls: Tn-gy, fxln, mott w/dk gy sh, some gy op vit cht, sli foss & pyr, n.v.p.

Sh: Blk & v.dk gy-brn thn fis, carb.

Ls: Crm, fn-vfxln, v.chky, foss (Fus, Crin) intbd lt gn calc sli pyr occ gum sh, n/s.

Ls: Crm, occ tn & lt gy, fxln, chky-sbchky, foss (Fus) some dk gy sh inc, tr wh-brn mott op cht, n/s.

Ls: Crm-wh, fxln, sbchky, tr pyr, some amor calc, occ crm-lt gy & arg, fr pp por, n/s.

Ls: Crm-gy, fxln, chky, cons dk gy sh inc, sli foss (Fus) some intbd gy fis sh, n.v.p, n/s.

Ls: Crm-gy, fxln, chky, sli foss (Fus) tn & gy op vit cht, some arg, n.v.p.

Sh: Blk, thn fis, carb, sli shw G, bcm gy gy-brn & gy-gn fis occ slty sli calc sh, intbd gy vfxln dns Ls & olv gn sli calc v.arg sltst.

Ls: Crm & lt gy, fxln, chky, sli pyr, tr amor calc, tn & gy mott op cht, pr pp por, no odor, v.sli shw lt brn FO, r. sptd stn.

Ls: Wh-crm, fxln-gran, v.chky, some spr calc, fr intgran por, n/s.

Sh: Gy-gn, fis, some calc, bcm rd-brn ea.

Ls: Crm, fxln, foss (Brach) n.v.p.

Sh: Gy-gn & lt gn, fis-blky, calc, pyr, tr org rem, bcm rd-brn ea occ gum.

Ls: Tn-gy, gran, tr spr calc, sli arg, pr intgran por, gd odor, v.sli shw FO, lt spty stn-sat.

Ls: Crm-lt gy, fxln, sbchky, occ arg, tn & gy-brn op-trnsl vit cht, some spr calc, n.v.p, n/s.

Sh: Gy & gy-gn, fis, sli pyr, occ calc.

Ls: Wh-v.lt gy, fxln, sbchky, sli ool, tr pyr & amor calc, pr intxln por, tr frac por, fr odor, no FO, lt spty stn.

Ls: Crm-lt gy, fxln, sli foss (Brach) tr sbchky, wh & tn op-trnsl vit cht, n.v.p.

Sh: Dk gy, fis, sli pyr, cons carb mat.

Ls: Wh-crm, fxln, foss (Fus) cons spr calc, some sbchky, pr-fr pp por, sli odor, v.sli shw FO, v.spty lt stn.

Ls: Wh-crm, fn-vfxln, occ sbchky, some sec calc, n.v.p.

Sh: Blk, thn fis, carb, some wh-crm fxln Ls & gy dk gy & gy-gn fis sh, pr pp por, sli odor, no FO, tr lt spty stn.

Ls: Crm, fxln-gran, tr ool, occ amor calc, pr intgran por, n/s.

Sh: Lt gn gy-gn & olv gn, fis-blky, sli pyr, some slty & calc.

Ls: Crm, fxln, ool, cons sec calc, sbchky, some dk gy sh inc, pr intool por, n/s.

Ls: V.lt gy, fn-vfxln, some spr-dru calc, cons chk, fr vug por, fr odor, v.sli shw v.lt FO, lt spty stn.

Ls: Wh, tr wh-crm, fxln, sli ool, sbchky, n.v.p.

Ls: Crm, vfxln, sbchky, dns, tr frac & spr calc, n/s.

Sh: Blk, thn fis, carb, bcm dk gy & gn-gy thn bdd fis v.slty.

Ls: Crm, fxln, chky-sbchky, tr ool & pyr, some amor calc, n/s.

Ls: Tn, fn-vfxln, silic, tr lt gy & tn trnsl frs cht, n.v.p.

Ls: Crm, fxln, sbchky, tr spr calc, n.v.p, n/s.

Sh: Dk gy & dk olv gn, fis, sli pyr, some blk carb.

Ls: Wh-crm, fxln, tr org rem, cons spr calc, tr sbchky, some crm & lt gy mott trnsl cht, pr pp por, no odor, v.sli shw FO, r. v.lt stn.

Sh: Gy-gn, lt gn & olv gn, tr dk gy, fis, sli pyr, some slty.

Ls: Crm, fxln, sli foss (Fus) tr sbchky, some spr calc, n.v.p, n/s.

Ls: Crm-v.lt gy, fxln-gran, sbchky, cons spr calc, pr intgran por, n/s.

Sh: Blk, thn fis, carb, bcm gy-gn & dk olv gn fis sli calc, some intbd gy-brn slty sh.

Ls: Crm, fxln, tr crm-v.lt gy, sbchky, tr ool & spr calc, n.v.p, n/s.

Ls: Tn-gy, fxln, sli pyr, tr sbchky, some dk gy sh inc, n.v.p, n/s.

Sh: Blk, thn fis, carb, bcm lt gn-gy & lt gn fis-blky pyr, occ calc-lmy, some slty.

Ls: Crm-tn, fxln, sli ool, tr dk gy sh inc, some sbchky, n.v.p.

Ls: Lt gy-tn, fxln, cons org rem, sli pyr, dk gy sh inc, occ chky, n.v.p.

Ls: Lt gy, fxln, chky-sbchky, pyr, occ arg, n/s.

Sh: Blk, fis, carb, bcm dk gy & gy-gn fis, smwt calc, occ slty.

Ls: V.lt gy, occ wh-v.lt gy, fxln-gran, v.chky, sli pyr, some arg, fr intgran por, n/s.

Ls: Tn, vfxln, sli foss, dns, intbd lt gn sh.

Ls: Tn, fn-vfxln, dns, some silic, intbd gy fis sli pyr sh, tr carb mat & org rem, n.v.p.

Sh: Gy, gn-gy & olv gn,fis, pyr, occ calc, foss (Brach)

Ls: Crm, tr v.lt gy, fxln, chky-sbchky, tr spr calc, n/s.

Sh: V.lt gy-gn, thn fis-blky, sli pyr, slty.

Ls: Lt gy, fxln, wthd-sbchky, occ spr calc, tr frac, n.v.p.

Ls: Crm-lt gy, fn-medxln, sbchky, tr v.lt gy op frs cht, slty in pt, intbd gn-gy thk fis calc pyr sh.

Ls: Lt gy, fxln-gran, some dk gy org rem, sli pyr, sbchky in pt, n/s.

Sh: Gy-gn & olv gn, fis-blky, occ v.slty, sli pyr, some calc, intbd blk & dk gy-brn carb sh.

Ls: Crm, fxln-gran, tr org rem, sbchky, occ arg-shly.

Ls: Crm-v.lt gy fxln-gran, sbchky, sli pyr, tr org rem & spr calc, gd intgran por, n/s.

Sh: Blk, fis, carb.

Sh: Gy-gn rd-brn mar & lt gn, blky mott, some slty.

Ls: Crm-tn, fn-vfxln, tr tn & lt gy op-trnsl cht, some arg, n.v.p.

Ls: V.lt gy, tr crm-lt gy fxln, tr gran, v.lt gy & tn op-trnsl cht, some sbchky, n/s.

Sh: Gy gy-gn rd-brn blu-gn tr mar, fis, mott occ slty, intbd lt gy & crm calc sltst mott w/rd-brn sh, wl cmt, n/s.

Ls: Wh, fxln-gran, sbchky, slty in pt, n/s.

NO SAMPLE

Sh: Gy & gy-gn tr yel, occ brn & rd-brn, fis, some mott, tr wh vvfn lmy sd & v.lt gy fxln Ls, pr pp por, v.sli odor, sli shw FO, lt spty stn.

Sh: Gy-gn gn rd-brn tr yel, fis, some lt gy & lt purp arg sltst, cons wh-crm fxln sbchky Ls, n/s.

Ls: Crm-v.lt gy fxln, tr gran, sbchky, occ slty, some spr calc, n.v.p.

Ls: Wh-crm, fxln, tr gran sli ool, some sbchky, tr slty, occ spr calc, n.v.p.

Ls: Crm, v.lt gy tr yel, fn-vfxln, wthd, occ arg, n.v.p.

Ls: Wh crm & lt gy, occ yel & pnk, fxln, sbchky, tr org rem, arg in pt, n.v.p.

Ls: Crm & lt yel, fxln, sbchky, occ arg, n.v.p.

Ls: Wh-crm, some yel & pnk, fn-vfxln, smwt arg, n.v.p.

Ls: Wh & crm occ mott w/yel, fxln-gran, some sbchky, tr dol, pts arg, n.v.p.

Ls: Wh, fxln, sbchky & crm gran-suc dol, tr arg, n.v.p.

Ls: Crm & wh, fxln, sbchkyt, tr org rem, tr wh-gy trnsl cht, n.v.p.

Ls: Wh, fxln, sbchky, some crm gran-suc dol, n.v.p.

Sh: Gy-gn & lt gn, fis-blky, occ slty, sli pyr, some tn & lt gy vfn-fn wl cmt arg sd.

Ls: Wh, fxln-gran, sbchky, occ sdy, much intbd gy-gn & lt gn sli pyr sh.

Sh: Gy gy-gn, tr lt gn, fis, sli calc, some crm fxln-gran sdy Ls,n.v.p, n/s.

Sh: Gy & dk gy, fis, some carb mat, intbd lt blu-gn sbwxy sli pyr sh.

Sh: Blu-gn & gy-gn,fis,sli pyr, tr sbwxy, tr fn-med sbrnd fros uncons sd, n/s.

Dol: Crm-tn, suc, sli chky, tr pyr, fr intgran por, n/s.

Dol: Crm tr tn, suc, sli chky, some arg, tr pyr, fr intgran por, n/s.

Dol: Crm, fxln-suc, some sec xtal, fr-gd intgran & vug por, n/s.

Dol: Lt gy & tn, tr pnk, fxln, tr medxln, chky, tr wh op-trnsl ool cht, fr-gd intxln & vug por, n/s.

Dol: Crm & v.lt gy, fxln, tr medxln, sli chky, some tn & wh op-trnsl cht, gd intxln por, n/s.

1:29 PM, 14 SEP 2011
Start: 1 Ft. Drilling Time
10 Ft. Samples

STOTLER
2549 (-718)

TARKIO
2598 (-767)

Mud-Co mud check @ 2782'
Vis: 51, Wt: 8.9, WL: 5.4
Chlor: 1,400 ppm, LCM: 3#

TOPEKA
2754 (-923)

DST # 1 2766 - 2782
30"-60"-30"-60"
IF: Weak intermittent surf. blow
FF: Few bubbles
RECOVERY:
1 Ft. Very Sli.Oil Cut Watery Mud
(2%Oil,48%Wtr,50%Mud)
9 Ft. Muddy Water
(Chlor: 7,500 ppm)
5 Ft. Mud

IHP: 1361 psi.	FHP: 1313 psi.
IFP: 13-19 psi.	ISIP: 1041 psi.
FFP: 20-25 psi.	FSIP: 1010 psi.
BHT: 92 deg. F.	

Mud-Co mud check @ 3097'
Vis: 48, Wt: 9.3, WL: 6.4
Chlor: 2,500 ppm, LCM: 2#

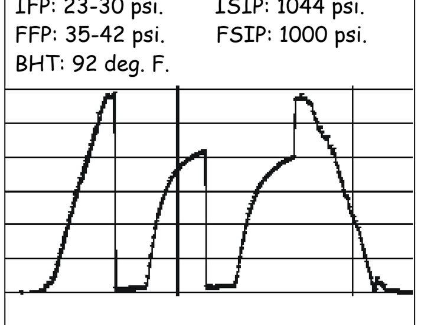
HEEBNER SHALE
2988 (-1157)

TORONTO
3007 (-1176)

LANSING
3033 (-1202)

DST # 2 2980 - 3097
30"-60"-30"-60"
IF: V. weak surface blow.
FF: V. weak surging surface blow
RECOVERY:
12 Ft. Mud, w/slight Oil sheen

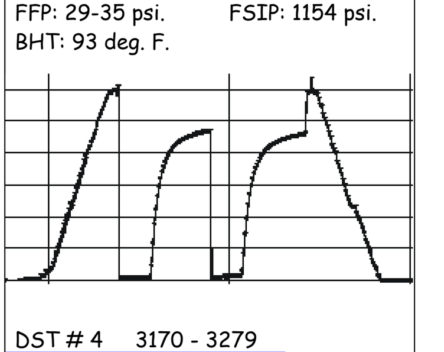
IHP: 1469 psi.	FHP: 1451 psi.
IFP: 23-30 psi.	ISIP: 1044 psi.
FFP: 35-42 psi.	FSIP: 1000 psi.
BHT: 92 deg. F.	



Mud-Co mud check @ 3172'
Vis: 46, Wt: 9.3, WL: 6.8
Chlor: 3,000 ppm, LCM: 2#

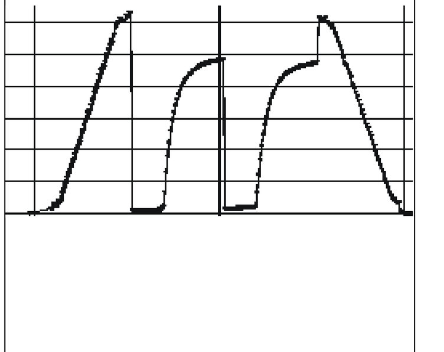
DST # 3 3108 - 3172
30"-60"-30"-60"
IF: Very weak 1 1/4 inch blow
FF: Very weak 1/2 inch blow
RECOVERY:
20 Ft. Mud

IHP: 1530 psi.	FHP: 1501 psi.
IFP: 19-27 psi.	ISIP: 1177 psi.
FFP: 29-35 psi.	FSIP: 1154 psi.
BHT: 93 deg. F.	



DST # 4 3170 - 3279
30"-60"-30"-60"
IF: V. weak blow, incr. to 1 1/4 inches
FF: V. weak blow after 23 min.
RECOVERY:
30 Ft. Mud

IHP: 1581 psi.	FHP: 1539 psi.
IFP: 22-33 psi.	ISIP: 1212 psi.
FFP: 35-50 psi.	FSIP: 1190 psi.
BHT: 93 deg. F.	



STARK SHALE
3251 (-1420)

Mud-Co mud check @ 3279'
Vis: 47, Wt: 9.3, WL: 10.0
Chlor: 4,000 ppm, LCM: 2#

BASE/KANSAS CITY
3311 (-1480)

VIOLA
3521 (-1690)

SIMPSON
3667 (-1836)

Mud-Co mud check @ 3702'
Vis: 53, Wt: 9.6, WL: 10.0
Chlor: 3,200 ppm, LCM: 3#

ARBUCKLE
3717 (-1886)

TOTAL DEPTH
3770 (-1939)

Operator: MURFIN DRILLING COMPANY, INC.
Lease: PETERSON 'A' # 1-6
Location: 895 FNL & 1725 FEL SEC. 6 TWSP 8S RGE 14W
County: OSBORNE State: KANSAS