

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEARE OIL CO.** ELEVATIONS
 LEASE **BEAMS 1-8** KG 3338'
 FIELD **Wildcat** DF _____
 LOCATION **796 FNL, 1693 FEL** GL 3529'
 SEC **8 T15P 6S** R0E 38W
 COUNTY **Sherman** STATE **Kansas** Measurements Are All From **KB**

CONTRACTOR **Duke Drilling Rig #4**
 SPUD **11-10-15** COMP **11-21-15**
 RTD **5170'** LTD **5172'** CASING
 MUD UP **3800'** TYPE MUD **Chemical** CONDUCTION **N/A**
 SAMPLES SAVED FROM **4000'** to RTD SURFACE **8-5/8" @ 91'**
 DRILLING TIME KEPT FROM **4000'** to RTD PRODUCTION **None**

SAMPLES EXAMINED FROM **4000'** to RTD
 GEOLOGICAL SUPERVISION FROM **4000'** to RTD
 GEOLOGIST ON WELL **Tim Priest**

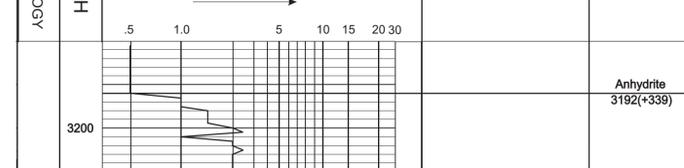
FORMATION TOPS ELECTRIC LOG SAMPLE
 Anhydrite 3192 (+346) 3199 (+346)
 Heebner Shale 4304 (-766) 4305 (-767)
 Austing 4362 (-824) 4362 (-824)
 Sisk 4572 (-1034) 4572 (-1034)
 BRC 4641 (-1103) 4640 (-1102)
 Fort Scott 4826 (-1288) 4824 (-1286)
 Cherokee Shale 4837 (-1319) 4834 (-1316)
 Morrow Shale 5008 (-1470) 5005 (-1467)
 Mississippian 5068 (-1530) 5064 (-1526)

ELECTRICAL SURVEYS
 CND/DSP/P.E.
 Micro Sonic
 By: Weatherford

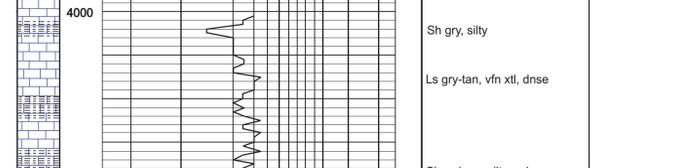
REMARKS Due to the results of DSTs and lack of shows, it was decided to plug and abandon the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-181-20601-00-00



DEPTH	DRILLING TIME IN MINUTES PER FOOT	SAMPLE DESCRIPTION	REMARKS
3200		Anhydrite	3192(+339)
3200		Base/ Anhydrite	3229(+309)
4000		Sh gry, silty	
4000		Ls gry-tan, vfn xtl, dnse	
4000		Sh red-gry, silty, calc	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm, fn xtl, p int xtl-pp por, sptd blk dead stn, no FO	
4000		Ls crm-lt gry, fn xtl, sil fos, p int xtl por, NS	
4000		Sh red-gry, silty, calc	
4000		Ls lt gry-tan, fn xtl, sil fos, p int xtl-pp por, sptd blk dead stn (mostly dead), VSSFO, no odor or fluor	
4000		Ls crm-gry, vfn xtl, dnse	
4000		Ls lt gry-tan, fn xtl, sil fos, p-f int xtl-pp por, sptd blk dead stn (dead), VSSFO, no odor, no fluor	
4000		Sh red-gry, silty, calc	
4000		Ls crm-tan, fn xtl, sil fos, p-f int xtl-pp por, sptd blk dead stn, NFO	
4000		Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Sh red	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Sh blk, carb	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, sptd blk dead stn, NSFO	
4000		Sh red-grm-gry	
4000		Ls crm-lt gry vfn xtl, dnse	
4000		Sh blk	
4000		Ls crm-lt gry, fn xtl, p-f int xtl-pp por, sptd blk dead stn, NFO	
4000		Ls crm-lt gry, fn xtl, p-f int xtl-pp por, sptd blk dead stn, NFO	
4000		Sh blk, carb	
4000		Sh gry-blk	
4000		Ls crm-tan, fn xtl, chky, p-f int xtl-pp por, NS	
4000		Sh grn-red-brn, silty	
4000		Sh grn-red-brn, silty	
4000		Ls crm, fn xtl, chky, p int xtl-pp por, sptd blk dead stn, NFO	
4000		Sh grn-red	
4000		Ls crm, fn xtl, chky, p int xtl-pp por, sptd blk dead stn, NFO	
4000		Sh grn-red	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, chky, p-f int xtl-pp por, sptd-sli sat blk-dk brn stn (mostly dead), SSFO (heavy), v sil odor, no fluor	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, chky, p-f int xtl-pp por, sptd-sli sat blk-dk brn stn (mostly dead), SSFO (heavy), v sil odor, no fluor	
4000		Sh maroon, calc	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, chky, p int xtl-pp por, NS	
4000		Sh maroon, calc	
4000		Ls crm-lt gry, fn xtl, ool, p-f int ool-ool por, NS	
4000		Ls crm-lt gry, fn xtl, v chky, p-f int xtl-pp por, NS	
4000		Sh blk, carb	
4000		Ls tan-gry, vfn xtl, dnse	
4000		Sh gry-dk gry	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, ool, p-f int frag & pp por, sptd-sli sat brn stn, SFO, f odor, no fluor	
4000		Sh red-maroon, silty, calc	
4000		Ls lt gry-gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, p int xtl-pp por, NS	
4000		Ls lt gry, vfn xtl, sil chty, dnse	
4000		w/red-gry Sh	
4000		Sh red-gm	
4000		Ls crm-lt gry, mic xtl, sil chky, dnse	
4000		Sh blk, carb	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, sil fos, sil chky, p int xtl-pp por, NS	
4000		Ls crm-lt gry, fn xtl, sil fos, sil chky, p int xtl-pp por, NS	
4000		Ls crm-lt gry, fn xtl, sil fos, sil chky, p int xtl-pp por, NS	
4000		Ls crm-lt gry, fn xtl, sil fos, sil chky, p int xtl-pp por, NS	
4000		Ls lt gry, vfn xtl, w/gry Sh	
4000		Ls crm, fn xtl, sli dolo, chky	
4000		Ls crm-lt gry, fn xtl, fos, dnse	
4000		Ls crm-pale yell, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, sil chky, p-f int xtl-pp por w/few vugs, sptd-sli sat blk-dk brn stn (mostly dead), SSFO, v sil odor, no fluor	
4000		Ls crm, fn xtl, fos, v chky, p-f int xtl-pp por, VSSFO, maybe from above	
4000		Ls crm, vfn xtl, ool, dnse	
4000		Ls crm-lt gry, fn xtl, chky, dnse	
4000		Sh blk carb	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Ls crm-lt gry, vfn xtl, cky, dnse	
4000		Sh blk, carb	
4000		Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Ls crm-lt gry, vfn xtl, sil chty, dnse	
4000		Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Sh blk, carb	
4000		Ls tan-gry moltd, vfn xtl, dnse	
4000		Ls crm-tan, fn xtl, ool, int ool por in prt, NS	
4000		Sh grn-gry, calc	
4000		Ls crm-lt gry, fn xtl, fos, sil chty no vis por	
4000		Sh blk, carb	
4000		Ls blk, carb	
4000		Ls crm-lt gry, fn xtl, dnse	
4000		Ls crm-lt gry, mic xtl, dnse	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		SS clear, med-crse gm w/qrtz crystals, sli glauc, p int grn por, NS	
4000		Ls crm-lt gry, mic xtl, dnse	
4000		SS clear, med-crse gm w/qrtz crystals, sli glauc, p-f int grn por, NS, w/lt gm Sh	
4000		Ls crm-lt gry, mic xtl, dnse	
4000		Sh grn-gry	
4000		Ls crm-lt gry, fn xtl, chky, dnse	
4000		Sh var col, sli sandy	
4000		Ls tan-gry, mic xtl, dnse	
4000		Sh var col	
4000		Ls tan-gry, mic xtl, dnse	
4000		Sh dk gry-blk, carb	
4000		Ls tan, mic xtl, chty, dnse	
4000		Sh var col	
4000		Sh dk gry-blk, silty	
4000		Sh var col, w/lt grn, fn grn, SS, NS	
4000		Ls crm-tan, vfn xtl, dnse	
4000		Ls/Dol crm-tan, fn xtl, ool, v chky, p int xtl por, NS	
4000		Dol crm-tan, fn-med xtl, chky, dnse	
4000		Dol tan, med xtl, p-f int xtl por, NS	
4000		Dol crm-tan, fn xtl, dnse	
4000		Dol tan, med xtl, p-f int xtl por, NS	
4000		Dol wh-gry moltd, fn xtl, v chty, p-f int xtl por, NS	
4000		Ls crm-lt gry, fn xtl, chty, dnse	
4000		Total Depth	5170' (-1632)



DEPTH	DRILLING TIME IN MINUTES PER FOOT	SAMPLE DESCRIPTION	REMARKS
3200		Anhydrite	3192(+339)
3200		Base/ Anhydrite	3229(+309)
4000		Sh gry, silty	
4000		Ls gry-tan, vfn xtl, dnse	
4000		Sh red-gry, silty, calc	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm, fn xtl, p int xtl-pp por, sptd blk dead stn, no FO	
4000		Ls crm-lt gry, fn xtl, sil fos, p int xtl por, NS	
4000		Sh red-gry, silty, calc	
4000		Ls lt gry-tan, fn xtl, sil fos, p int xtl-pp por, sptd blk dead stn (mostly dead), VSSFO, no odor or fluor	
4000		Ls crm-gry, vfn xtl, dnse	
4000		Ls lt gry-tan, fn xtl, sil fos, p-f int xtl-pp por, sptd blk dead stn (dead), VSSFO, no odor, no fluor	
4000		Sh red-gry, silty, calc	
4000		Ls crm-tan, fn xtl, sil fos, p-f int xtl-pp por, sptd blk dead stn, NFO	
4000		Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Sh red	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Sh blk, carb	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, sptd blk dead stn, NSFO	
4000		Sh red-grm-gry	
4000		Ls crm-lt gry vfn xtl, dnse	
4000		Sh blk	
4000		Ls crm-lt gry, fn xtl, p-f int xtl-pp por, sptd blk dead stn, NFO	
4000		Ls crm-lt gry, fn xtl, p-f int xtl-pp por, sptd blk dead stn, NFO	
4000		Sh blk, carb	
4000		Sh gry-blk	
4000		Ls crm-tan, fn xtl, chky, p-f int xtl-pp por, NS	
4000		Sh grn-red-brn, silty	
4000		Sh grn-red-brn, silty	
4000		Ls crm, fn xtl, chky, p int xtl-pp por, sptd blk dead stn, NFO	
4000		Sh grn-red	
4000		Ls crm, fn xtl, chky, p int xtl-pp por, sptd blk dead stn, NFO	
4000		Sh grn-red	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, chky, p-f int xtl-pp por, sptd-sli sat blk-dk brn stn (mostly dead), SSFO (heavy), v sil odor, no fluor	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, chky, p-f int xtl-pp por, sptd-sli sat blk-dk brn stn (mostly dead), SSFO (heavy), v sil odor, no fluor	
4000		Sh maroon, calc	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, chky, p int xtl-pp por, NS	
4000		Sh maroon, calc	
4000		Ls crm-lt gry, fn xtl, ool, p-f int ool-ool por, NS	
4000		Ls crm-lt gry, fn xtl, v chky, p-f int xtl-pp por, NS	
4000		Sh blk, carb	
4000		Ls tan-gry, vfn xtl, dnse	
4000		Sh gry-dk gry	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, ool, p-f int frag & pp por, sptd-sli sat brn stn, SFO, f odor, no fluor	
4000		Sh red-maroon, silty, calc	
4000		Ls lt gry-gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, p int xtl-pp por, NS	
4000		Ls lt gry, vfn xtl, sil chty, dnse	
4000		w/red-gry Sh	
4000		Sh red-gm	
4000		Ls crm-lt gry, mic xtl, sil chky, dnse	
4000		Sh blk, carb	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, sil fos, sil chky, p int xtl-pp por, NS	
4000		Ls crm-lt gry, fn xtl, sil fos, sil chky, p int xtl-pp por, NS	
4000		Ls crm-lt gry, fn xtl, sil fos, sil chky, p int xtl-pp por, NS	
4000		Ls crm-lt gry, fn xtl, sil fos, sil chky, p int xtl-pp por, NS	
4000		Ls lt gry, vfn xtl, w/gry Sh	
4000		Ls crm, fn xtl, sli dolo, chky	
4000		Ls crm-lt gry, fn xtl, fos, dnse	
4000		Ls crm-pale yell, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, sil chky, p-f int xtl-pp por w/few vugs, sptd-sli sat blk-dk brn stn (mostly dead), SSFO, v sil odor, no fluor	
4000		Ls crm, fn xtl, fos, v chky, p-f int xtl-pp por, VSSFO, maybe from above	
4000		Ls crm, vfn xtl, ool, dnse	
4000		Ls crm-lt gry, fn xtl, chky, dnse	
4000		Sh blk carb	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Ls crm-lt gry, vfn xtl, cky, dnse	
4000		Sh blk, carb	
4000		Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Ls crm-lt gry, vfn xtl, sil chty, dnse	
4000		Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000		Sh blk, carb	
4000		Ls tan-gry moltd, vfn xtl, dnse	
4000		Ls crm-tan, fn xtl, ool, int ool por in prt, NS	
4000		Sh grn-gry, calc	
4000		Ls crm-lt gry, fn xtl, fos, sil chty no vis por	
4000		Sh blk, carb	
4000		Ls blk, carb	
4000		Ls crm-lt gry, fn xtl, dnse	
4000		Ls crm-lt gry, mic xtl, dnse	
4000		Ls crm-lt gry, vfn xtl, dnse	
4000		SS clear, med-crse gm w/qrtz crystals, sli glauc, p int grn por, NS	
4000		Ls crm-lt gry, mic xtl, dnse	
4000		SS clear, med-crse gm w/qrtz crystals, sli glauc, p-f int grn por, NS, w/lt gm Sh	
4000		Ls crm-lt gry, mic xtl, dnse	
4000		Sh grn-gry	
4000		Ls crm-lt gry, fn xtl, chky, dnse	
4000		Sh var col, sli sandy	
4000		Ls tan-gry, mic xtl, dnse	
4000		Sh var col	
4000		Ls tan-gry, mic xtl, dnse	
4000		Sh dk gry-blk, carb	
4000		Ls tan, mic xtl, chty, dnse	
4000		Sh var col	
4000		Sh dk gry-blk, silty	
4000		Sh var col, w/lt grn, fn grn, SS, NS	
4000		Ls crm-tan, vfn xtl, dnse	
4000		Ls/Dol crm-tan, fn xtl, ool, v chky, p int xtl por, NS	
4000		Dol crm-tan, fn-med xtl, chky, dnse	
4000		Dol tan, med xtl, p-f int xtl por, NS	
4000		Dol crm-tan, fn xtl, dnse	
4000		Dol tan, med xtl, p-f int xtl por, NS	
4			