

## **OPERATING COMPANY**

(316) 265-3000 FAX: (316) 265-3455

1700 N. WATERFRONT PARKWAY BLOG. 600 WICHITA, KANSAS 67206-5514

### Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: C-E #1-8

Location: 352' FSL, 1414' FEL, 08-16s-33w, Scott County, Kansas

License Number: API: 15-171-20852 Region: Scott County Spud Date: 11/07/2011 Drilling Completed: 11/19/2011

Surface Coordinates: Lat: 38.6716612 Long: -100.9856725

**Bottom Hole Coordinates:** Vertical hole

> Ground Elevation (ft): 3071' K.B. Elevation (ft): 3082' Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4860'

Formation: Mississippian at RTD

Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

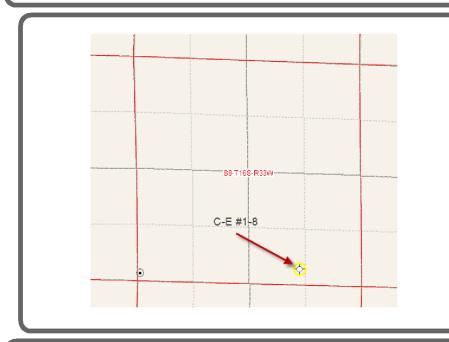
#### **GEOLOGIST**

Name: Kent R. Matson

Matson Geological Services, LLC Company: 33300 W. 15th Street S. Address:

Garden Plain, Kansas 67050

316-644-1975



# COMMENTS

Contractor: Murfin Drilling Company Rig #22

Pusher: Kelly Wilson

Surface Casing: 8 5/8" set at 227' (KB) w/165sx

Production Casing: Production casing was not installed and the hole was plugged and abandoned based on field

observations of drill cuttings and DST results.

Mud by: MudCo

DST's by: Diamond Testing Logs by: Weatherford (DIL, CN-CD, ML, Sonic)

LTD= 4853'

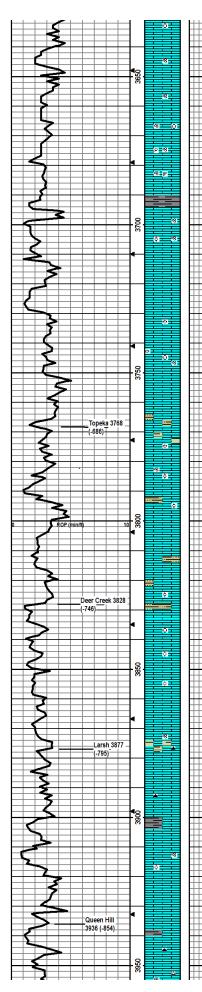
### **FORMATION TOPS**

**FORMATION** SAMPLE TOPS LOG TOPS Depth Datum Depth Datum

Queen Hill 3936' -854 3928' -846

Heebner Shale	3999'	-917	3998'	-916
Toronto	4029'	-942	4016'	-934
Lansing	4039'	-957	4032'	-950
Muncie Creek Shale	4221'	-1139	4214'	-1132
Stark Shale	4306'	-1224	4299'	-1217
Hushpuckney Shale	4349'	-1267	4339'	-1257
Marmaton	4418'	-1336	4410'	-1328
Upper Fort Scott	4528'	-1446	4520'	-1438
Little Osage Shale	4552'	-1470	4544'	-1462
Excello Shale	4569'	-1487	4561'	-1479
Johnson Zone	4644'	-1562	4636'	-1554
Morrow	4701'	-1619	4693'	-1611
Mississippian	4764'	-1682	4757'	-1675
RTD	4860'	-1778		
LTD			4853'	-1771

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rop ROP (m in/ft)	Depth	Lithology E	Oil Shows	Geological Descriptions	Remarks
D ROP (minth) 10	PE			Morning Report Depth/Activity  11/07/11 Spud 11/08, waiting on cement @ 228' 11/09, dril @ 230' 11/10, dril @ 3535' 11/11, stuck @ 3930' 11/12, stuck @ 3930' 11/13, dril @ 4040' 11/14, dril @ 4150' 11/15, DST#2 @ 4308' 11/16, dril @ 4408' 11/17, dril @ 4865' 11/19, dril @ 4865' 11/19, dril @ 4860' TD  Anhydrite: Top @ 2440', Botton @ 2460'  ROP Data begins @ 3514' on 11/10/2011  NOTE: Strapped at 4087 when coming out for DST#1. Strap was 7.98' (8.0') short. Entire log needs to be adjusted up 8'.  NOTE: At the drilling depth of 3930' the bit became stuck at approx 3905'. Sixty bibs of oil were added to the hole as a lubricant aid. Therefore, petroleum odor was maintained in all samples from 3930' to total depth of the hole.  Drill cutting samples at 10' intervals start at 3600'.  LS: crm and med gry, micro-fn xtal, vry silty w/fn grn ool, pyritic, it greenish gry and med gry, vry silty SH, no vis por, no odor, ns.	Mudco Check #1 @ 0'11 07 11  Mudco Check #2 @ 2538' 11 09 11 10:30am wt vis pH chl 9.5 29 7.0 55000  Filt LCM nic tr  Mudco Check #3 @ 3553' 11 10 11 8:30am wt vis pH chl 8.8 57 11.0 4700  Filt LCM 7.2 2
7	4	φ.		up in the content of	



LS: crm-lt brn, micro-fn xtal, foss frags/crin, min frac por, no odor, ns.

LS: crm/lt gry/lt brn, micro-med xtal, foss frags/fusIn, no vis por, no odor, ns.

LS: crm-lt gry, some wht chalky pcs w/dk gry inclusions, micro-fn xtal, foss frags/fusin, no vis por, no odor, ns.

LS: crm/lt gry/med-dk brn, micro-med xtal, some pyritic pcs, foss frags/fusln/crin, min frac por, no odor, ns.

LS: crm-lt gry, micro-fn xtal, some pyritic pcs, foss frags/fusln, min frac por, no odor, ns.

Same as above w/some dk gry LS pcs.

SH: med greenish gry-dk gry, vry silty, soft-hard and brittle.

LS: crm-lt brn, micro-fn xtal, foss frags/fusIn, no vis por, no odor, ns.

LS: crm-lt gryish brn, micro-fn xtal, foss frags/min fusin, vry silty/ool, some wht chalky pcs, min in-xtal por, no odor, ns.

LS: crm/lt gry/lt brn, micro-fn xtal, foss frags, no vis por, no odor, ns.

LS: crm/lt gry brn/dk brn, micro-med xtal, some vry silty pcs, foss frags, no vis por, no odor, ns.

LS: med-dk gry, micro-fn xtal, min foss frags/brac, no vis por, no

LS: crm/lt-dk gry, micro-med xtal, foss frags/brac/fusln/crin, no vis por, no odor, ns.

LS: crm-lt brn/lt-dk gry, micro-fn xtal, some vry silty pcs, foss frags, no vis por, no odor, ns.

LS same as above w/med-dk gry SH, silty, brittle.

LS: crm-lt brn/med gry, micro-fn xal, some med-dk gry soft SH, min foss frags/brac, no vis por, no odor, ns.

LS: crm-lt gry brn/lt-dk gry, micro-fn xtal, foss frags/fusin, fn grnd ool/silt, min frac por, no odor, ns.

LS: crm-lt brn/med-dk gry, micro-med xtal, some med gry silty SH, foss frags, fn grnd ool/silty, min frac por, no odor, ns.

LS: It-dk gry, micro-med xtal, min foss frags, vry silty, no vis por, no

LS: crm/lt gry, micro-fn xtal, vry silty, greenish gry-med gry and red brn soft SH, min in-xtal por, no odor, ns.

LS: med brn, micro-med xtal, foss frags, vry ool/silty, increase in SH content as above, min in-xtal por, no odor, ns.

LS: crm-lt brn/med gry, micro-med xtal, foss frags/crin, vry silty/ool, min in-xtal por, no odor, ns.

LS: crm/lt gry, micro-med xtal, foss frags/min ool, vry silty, min in-xtal por, no odor, ns.

LS: It brn, micro-fn xtal, vry silty/ool, no vis por, no odor, ns.

LS: It gry/It brn, micro-fn xtal, min foss frags, min ppt por, no odor,

LS: It brn, micro-med xtal, foss frags/fusln, min dk gry-blk chert, abund It-dk gry/red brn SH, no vis por, no odor, ns.

LS: crm, micro-fn xtal, min foss frags, some 2ndary xtallization, min

LS: crm/lt gry, micro-fn xtal, silty, min blk chert, min frac por, no odor,

LS: crm-lt brnish gry, micro-fn xtal, min foss frags, vry silty, red brn/med to dk gry SH, min frac por, no odor, ns.

LS; crm-lt brn, micro-med xtal, foss frags/fusln/ool, silty, min in-xtal por, no odor, ns.

LS: crm/med-dk gry, micro-fn xtal, min foss frags, vry silty, min in-xtal por, sit odor poss from oil added at stuck point, ns.

LS: crm-lt brn, micro-med xtal, foss frags, vry silty, med-dk gry firm fissile SH, min in-xtal por, slt odor poss from oil added at stuck point,

LS: crm/lt-med brn/dk gry, micro-fn xtal, min dk gry chert, foss frags, min frac por, slt odor poss from oil added at stuck poin, ns.

LS: crm, micro-med xtal, wht-lt gry chert, foss frags/fusln/silty-ool,

Mudco Check #4 @ 3930' 11/11/11 06:50am wt vis pH chl 9.0 56 11.0 4000 Filt LCM 6.4 2

6.4 2 Mudco Check #5 @ 3930' 11/12/11 8:00am wt vis pH chl 8.9 64 10 4200 Filt LCM 7.2 2

At TD of 3930', bit stuck at approx 3905' from approx 03:00am Nov 11 thru 12:30am Nov 13. Added 60 bbls of oil as lubricant aid. Used Peak Mireline to log hole for free point. Stuck point was at bit. Used Weatherford to supply jars; process worked for freeing bit.

