

WICHITA, KANSAS 67206-5514

170' FWL, Sec 14-T13S-R31W,  
22141

Long: -100.7374392

|                          |                      |                                 |
|--------------------------|----------------------|---------------------------------|
| Bottom Hole Coordinates: | Vertical hole        |                                 |
| Ground Elevation (ft):   | 2881'                | K.B. Elevation (ft): 2892'      |
| Logged Interval (ft):    | 3800'                | To: RTD Total Depth (ft): 4680' |
| Formation:               | Mississippian at RTD |                                 |
| Type of Drilling Fluid:  | Chemical             |                                 |

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**GEOLOGIST**

|          |                                                                       |
|----------|-----------------------------------------------------------------------|
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| Address: | 33300 W. 15th Street S.<br>Garden Plain, Kansas 67050<br>316-644-1975 |

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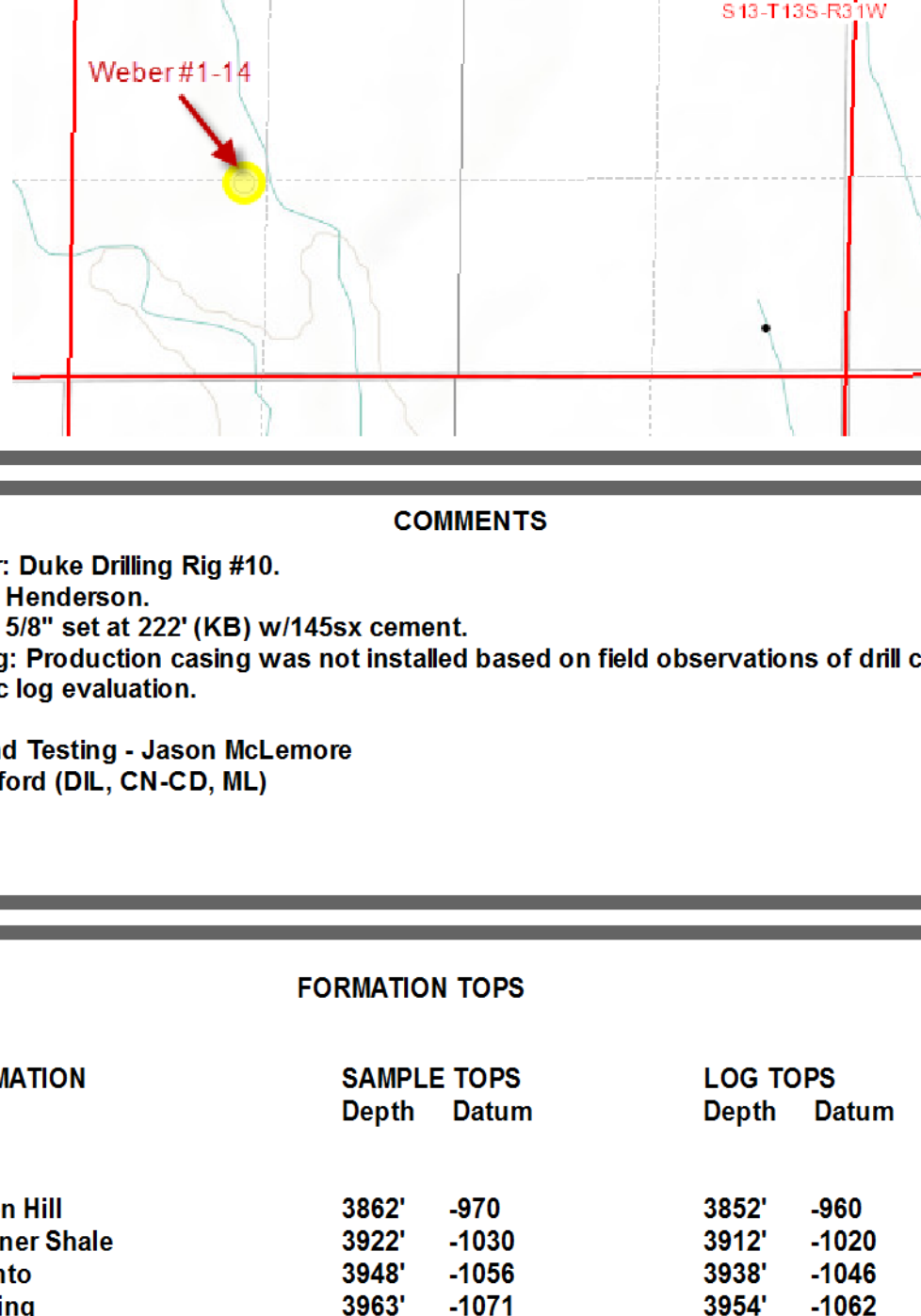












38' -1346  
35' 1402

**Marmaton**  
**Upper Fort Scott**

Upper Fort Scott  
Little Osage Shal

|               |       |     |
|---------------|-------|-----|
| Excello Shale | 4453' | -2' |
| Johnson Zone  | 4520' | -2' |

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| Johnson Zone | 4530' | -1638 | 4522' | -1630 |
| Morrow       | 4556' | -1664 | 4547' | -1655 |

Mis

|               |   |
|---------------|---|
| Mississippian | 4 |
| RTD           | 4 |

**Note: Log Tops are higher than Sample Tops due to the E-log TD being 11' shallower than the drilling log.**

