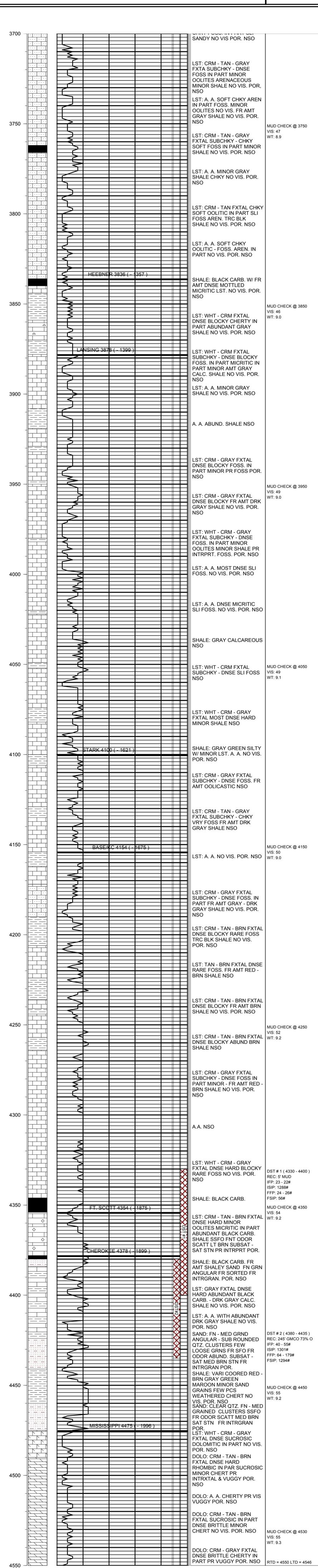


**KEVIN L. KESSLER**  
**CONSULTING PETROLEUM GEOLOGIST**  
**( 316 ) 522-7338**

<b>OPERATOR : MULL DRILLING COMPANY, INC.</b>		<b>ELEVATION</b>
<b>LEASE : SCHWARTZKOPF UNIT WELL # : 1 - 33</b>		<b>KB : 2479'</b>
<b>LOCATION : 1985' FSL &amp; 71' FWL</b>		<b>GL : 2468'</b>
<b>SEC: 33</b>	<b>TWP : 15 S</b>	<b>RGE : 23 W</b>
<b>COUNTY : TREGO</b>		<b>STATE : KANSAS</b>
<b>CONTRACTOR : DUKE DRILLING RIG # 10</b>		<b>CASING RECORD</b>
<b>COMM : 08 / 14 / 2013</b>	<b>COMP : 08 / 25 / 2013</b>	<b>SURFACE :</b>
<b>RTD : 4550</b>	<b>LOG TD : 4546</b>	<b>8 5/8" @ 219'</b>
<b>SAMPLES SAVED FROM : 3700</b>	<b>TO : RTD</b>	<b>PRODUCTION :</b>
<b>GEOLOGICAL SUPERVISION FROM : 3700</b>	<b>TO : RTD</b>	<b>5 1/2" @ 4550'</b>
<b>MUD UP : 3600</b>	<b>TYPE MUD : CHEMICAL</b>	<b>ELECTRICAL SURVEYS :</b>

FORMATION	TOP	LOG	DATUM	TOP	SAMPLE	DATUM	STRUCT. COMP.
HEEBNER	3836		- 1357	3836		- 1357	+ 07
LANSING	3878		- 1399	3878		- 1399	+ 03
STARK	4100		- 1621	4100		- 1621	+ 04
BASE/ KC	4154		- 1675	4154		- 1675	+ 03
FORT SCOTT	4354		- 1875	4354		- 1875	+ 04
CHEROKEE	4378		- 1899	4378		- 1899	+ 05
MISSISSIPPI	4475		- 1996	4475		- 1996	+ 04

REFERENCE WELL FOR STRUCTURAL COMPARISON :  
**RITCHIE EXPLORATION # 1 - 33 SCHWARTZKOPF SEC 33 - T 15 S - R 23 W TREGO COUNTY KANSAS**



**COMMENTS:**

5 1/2" PRODUCTION CASING WAS SET  
 TO FURTHER EVALUATE  
 THE PRODUCTIVITY OF THIS WELL

**KEVIN L. KESSLER**