

**Thomas J. Funk  
Petroleum Geologist**  
785-542-3359

**Geologists Report  
Drilling Time and Sample Log**

OPERATOR **Murfin Drilling Co., Inc**  
LEASE **Soucie-Seele Unit WELL NO #1-14**

FIELD **Wildcat** API **15-193-20814**  
LOCATION **2550' FNL & 1990' FEL**  
SEC. **14** TWP. **10S** RGE. **34W**  
COUNTY **Thomas** STATE **Kansas**

CONTRACTOR **Murfin Dring Co** Reg #2  
COMM **9/27/2011** COMP **10/9/2011**  
RTD **4890** LOG TD **4892**  
SAMPLES SAVED FROM **3750** TO **TD**  
DRILLING TIME KEPT FROM **3750** TO **TD**  
SAMPLES EXAMINED FROM **3750** TO **TD**

GEOLOGICAL SUPERVISION FROM **3825** TO **TD**  
MUD UP **3200** TYPE MUD **Chemical**

FORMATION LOG SAMPLE STRUCT DIL  
TOP DATUM TOP DATUM COOMP  
Anythrite 2727 (4480) 2229 (4489) -6  
B/Anythrite 2735 (4461) 2738 (4489) -7  
Topenka 3889 (672) 3832 (675) -3  
Hebber Sh 4104 (889) 4104 (887) Flat  
Lansing 4142 (-925) 4144 (927) -2  
Winroe Creek 4288 (-1071) 4286 (-1069) -8  
Stark Sh 4373 (-1156) 4389 (-1152) -8  
Marmaton 4454 (-1237) 4457 (-1240) Flat  
Pawnee 4567 (-1350) 4568 (-1351) -2  
Charlotte Sh 4649 (-1432) 4650 (-1433) +2  
Johnson Zone 4776 (-1559) 4692 (-1475) +23  
Mississippian 4776 (-1559) 4778 (-1561) +23

ELECTRICAL SURVEYS  
Log-Tech  
DIL  
CNL/CDL  
BHCS  
MEL

14 O

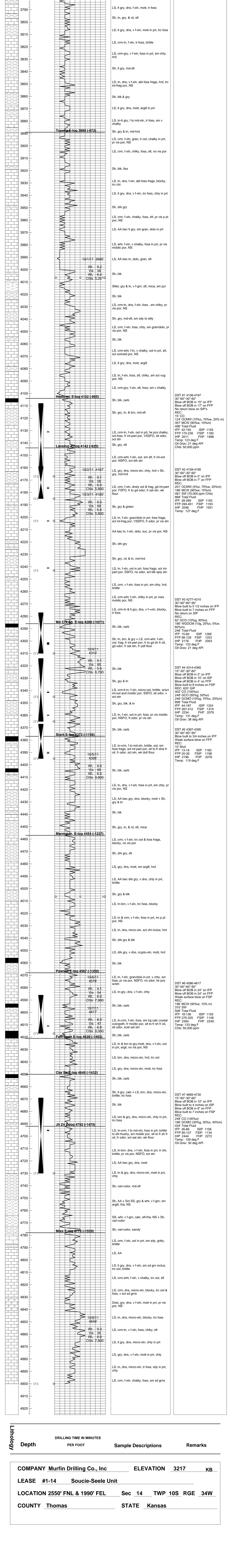
REFERENCE WELL FOR STRUCTURAL COMPARISON: **Murfin Dring Co. #1-22 James**  
1100' FNL & 750' FEL sec. 22-10S-34W, Thomas Co. KS

Daily Progress	NOI Size	Make	Type	Depth Out	Feet	Hours
9/27/11	Spud	1 1/2 14"	HTC	MKL	289	1 3/4
9/28/11	330	2 7/8"	HTC	502s	3750	3281
9/29/11	2095	3 7/8"	HTC	G22s	4890	4712
9/30/11	3440				1350	68 1/4
10/1/11	3917					
10/2/11	4167					
10/3/11	4185					
10/4/11	4310					
10/5/11	4365					
10/6/11	4512					
10/7/11	4617					

**Remarks And Recommendations:**  
Based upon log analysis, DST recovery, and sample examination, it was recommended that casing be set for further testing of the #1-14 Soucie-Seele Unit.

**LEGEND**

Anhydrite, Salt, Sandstone, Shale, Carb Shale, Limestone, Ool Limestone, Chert, Dolomite



**COMPANY** **Murfin Drilling Co., Inc** **ELEVATION** **3217** **KB**

**LEASE** **#1-14** **Soucie-Seele Unit**

**LOCATION** **2550' FNL & 1990' FEL** **Sec 14** **TWP 10S** **RGE 34W**

**COUNTY** **Thomas** **STATE** **Kansas**