

Thomas J. Funk  
Petroleum Geologist

**Geologists Report**  
**Drilling Time and Sample Log**

**OPERATOR** Murfin Drilling Co., Inc  
**LEASE** Schertz  
**WELL NO** #1-28

**FIELD** Wildcat  
**LOCATION** 2077' FNL & 963' FWL  
**SEC.** 28  
**TWP.** 10S  
**RGE.** 34W  
**COUNTY** Thomas  
**STATE** Kansas

**ELEVATION**  
**KB** 3209  
**DF**  
**GL** 3196  
Measurements Are All From **KB**

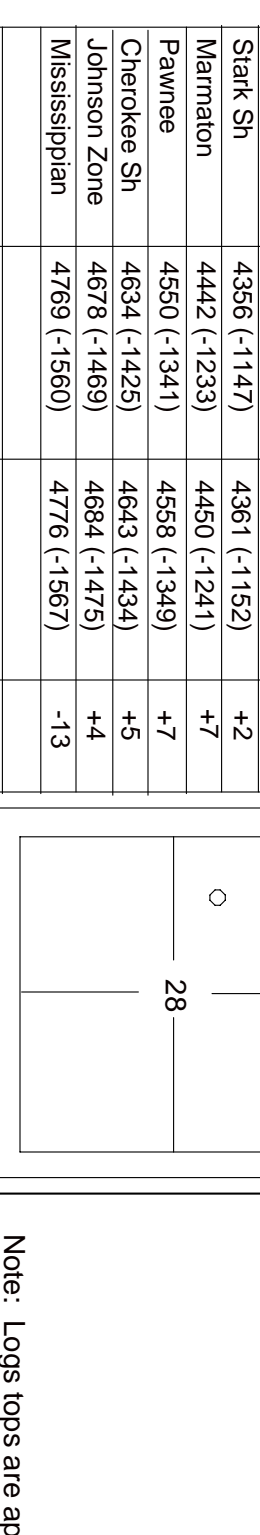
**CASING RECORD**  
**SURFACE**  
8 5/8" at 235' NB w/175x  
**PRODUCTION**

**CONTRACTOR** Murfin Dng Co  
**COMM** 2/25/2012  
**RTD** 4/9/12  
**SAMPLES SAVED FROM** 3800  
**DRILLING TIME KEPT FROM** 3900  
**SAMPLES EXAMINED FROM** 3900

**SECTIOAL SUPERVISION FROM** 3985 TO TD  
**WLD UP** 3500  
**TYPE MUD** Chemical

FORMATION	LOG TOP DATUM	SAMPLE TOP DATUM	STRUCT COMP
Anyndite	2709 (-450)	2717 (-442)	-7
B/Anyndite	2737 (-412)	2750 (-459)	-8
Topoka	3872 (-863)	3878 (-869)	-2
Healdene Sh	4088 (-879)	4096 (-887)	+5
Lansing	4131 (-922)	4136 (-927)	+2
Murde Creek	4271 (-1062)	4276 (-1067)	+1
Stark Sh	4356 (-1147)	4361 (-1152)	+2
Marmaton	4442 (-1233)	4450 (-1241)	+7
Pawnee	4550 (-1341)	4558 (-1349)	+7
Cherokee Sh	4634 (-1425)	4694 (-1473)	+5
Johnson Zone	4678 (-1469)	4684 (-1473)	+4
Mississippi	4769 (-1560)	4776 (-1567)	+3

**ELECTRICAL SURVEYS**  
Log-Tech  
DIL  
MEL  
CNL/CDL  
BHCS



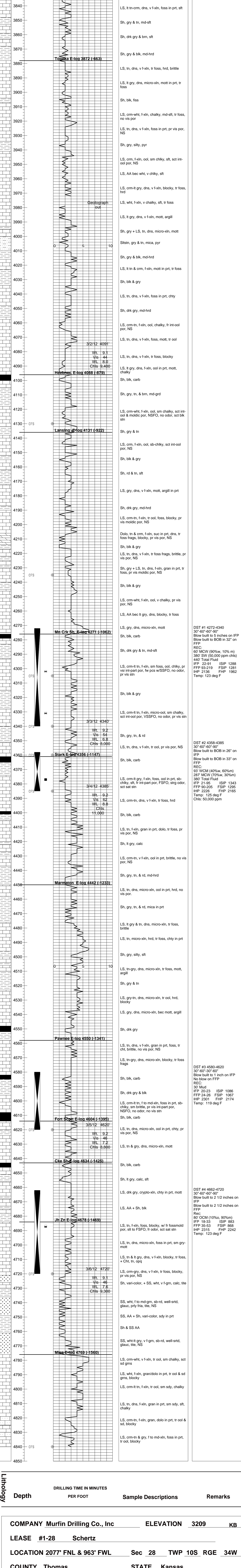
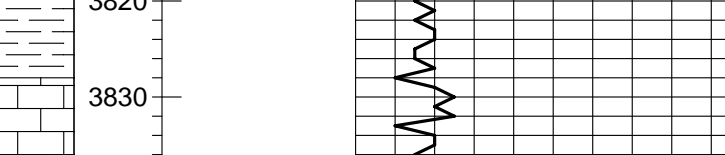
REFERENCE WELL FOR STRUCTURAL COMPARISON: Murfin Dng Co, #1-28 Urban  
7700 FSL & 2150' FEL sec. 28-10S-34W, Thomas Co, KS

Date	Depth	NO	Size	Make	Type	Depth Out	Feet	Hours
2/28/12	Stud	1	1 1/4"	GMS	RR	235	235	2 1/2
2/28/12	235' WOC							
2/27/12	1420	2	7 7/8"	Smith	MS1616	3626	3391	75 3/4
2/28/12	2718	3	7 7/8"	HTC	GX22s	4940	1214	58 1/2
2/29/12								
3/1/12								
3/2/12								
3/3/12								
3/4/12								
3/5/12								
3/6/12								

**Daily Progress**  
**Remarks And Recommendations:**  
Based upon log analysis, DST recovery, and sample examination, it was decided to run production casing in the #1-28 Schertz for further testing.

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**LEGEND**



<b>COMPANY</b> Murfin Drilling Co., Inc	<b>ELEVATION</b> 3209	<b>KB</b>
<b>LEASE</b> #1-28 Schertz		
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