

Thomas J. Funk
Petroleum Geologist

Geologists Report
Drilling Time and Sample Log

OPERATOR **Murfin Drilling Co., Inc**
LEASE **Kruto**
WELL NO **#2-29**

FIELD **Field Extension API**
LOCATION **2593' FSL & 1138' FWL**
SEC. **29** TWP. **10S** RGE. **34W**

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

ELEVATION **KB 3250'**

DF **GL 3239'**
Measurements Are All From **KB**

CONTRACTOR **Murfin Drilling Co** Rig #20
COMM **11/16/2012** COMP **11/16/2012**
RTD **4870** LOG TD **4875**
SAMPLES SAVED FROM **3810** TO TD
DRILLING TIME KEPT FROM **3810** TO TD
SAMPLES EXAMINED FROM **3810** TO TD

GEOLOGICAL SUPERVISION FROM **3920** TO TD
MUD UP **3400** TYPE MUD **Chemical**

ELECTRICAL SURVEYS
Pioneer Energy Services
DIL
MEL
CNL/CDL BHCS

FORMATION	LOG TOP DATUM	SAMPLE TOP DATUM	STRUCT COMP
Anyndite	2726 (-454)	2741 (-459)	Frlt
B/Anyndite	2773 (-478)	2771 (-479)	Frlt
Topoka	3909 (-659)	3925 (-667)	-1
Heebner Sh	4126 (-876)	4143 (-885)	-2
Lansing	4168 (-918)	4184 (-926)	-3
Murder Creek	4314 (-1064)	4323 (-1065)	-8
Stark Sh	4393 (-1143)	4407 (-1149)	-3
Marmaton	4484 (-1234)	4497 (-1239)	-6
Pawnee	4591 (-1341)	4604 (-1346)	-7
Cherokee Sh	4677 (-1427)	4685 (-1427)	-7
Johnson Zone	4721 (-1471)	4729 (-1471)	-8
Mississippi	4814 (-1564)	4809 (-1551)	-22

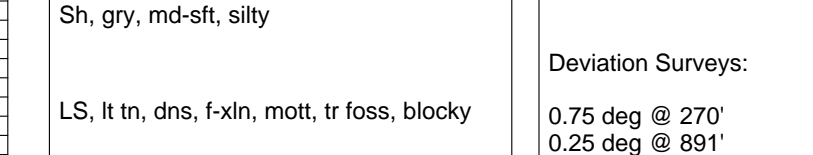


REFERENCE WELL FOR STRUCTURAL COMPARISON: Murfin Drilling Co. #1-29 Kruto
950' FSL & 1800' FWL sec. 29-10S-34W, Thomas Co. KS

Date	Depth	NO	Size	Make	Type	Depth Out	Feet	Hours
11/8/12	Stud	1	1 1/4"	GMS	RR	270	270	4
11/8/12	380'	2	7-7/8"	HTC	DP606F	3731	3461	60
11/7/12	2000'	3	7-7/8"	HTC	GX22S	4870	1139	74
11/8/12	3235'							
11/9/12	3825'							
11/10/12	4245'							
11/11/12	4300'							
11/12/12	4395'							
11/13/12	4515'							
11/14/12	4643'							
11/15/12	4740'							
11/16/12	4870' TD							

Remarks And Recommendations:
Based upon log analysis, DST recovery, and sample examination, it was recommended that casing be run in the #2-29 Kruto for further testing.
Thomas Funk
Petroleum Geologist

LEGEND

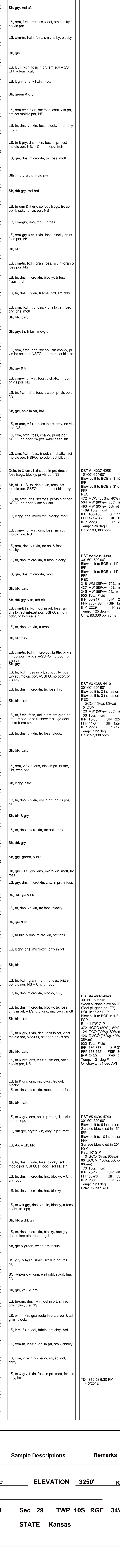


Lithology

DRILLING TIME IN MINUTES PER FOOT

Sample Descriptions

Remarks



Lithology

DRILLING TIME IN MINUTES PER FOOT

Sample Descriptions

Remarks

COMPANY Murfin Drilling Co., Inc	ELEVATION 3250'	KB
LEASE #2-29 Kruto		
LOCATION 2593' FSL & 1138' FWL	Sec 29	TWP 10S RGE 34W
COUNTY Thomas	STATE Kansas	