

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY	N-10 Exploration, LLC		ELEVATIONS
LEASE	Medicine River Ranch 'D' #2		KB 1350'
FIELD	Landis		DF
LOCATION	2340' FSL & 1650' FWL		GL 1340'
SEC	10	TWSP 34S RGE 11W	
COUNTY	Barber	STATE Kansas	
CONTRACTOR	Hardt Drilling Rig #1		Measurements Are All From Kelly Bushing
SPUD	6-22-2011	COMP 6-28-2011	
RTD	5022	LTD 5019	
MUD UP	3333	TYPE MUD Chemical	
SAMPLES SAVED FROM	4000	TO RTD	
DRILLING TIME KEPT FROM	4000	TO RTD	
SAMPLES EXAMINED FROM	4000	TO RTD	
GEOLOGICAL SUPERVISION FROM	4150	TO RTD	
GEOLOGIST ON WELL	Tim Pierce		

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Heebner Sh.	3592 (-2242)	NA
Stark Sh.	4277 (-2927)	4281 (-2931)
Cherokee Sh.	4495 (-3145)	4499 (-3149)
Mississippi	4540 (-3190)	4538 (-3188)
Kinderhook Sh.	4737 (-3387)	4740 (-3390)
Chattanooga Sh.	4822 (-3472)	4825 (-3475)
Viola	4866 (-3516)	4884 (-3534)
Simpson Sh.	4960 (-3610)	4963 (-3613)

CONDUCTOR

SURFACE 8-5/8" at 278'

PRODUCTION 5-1/2" at 5018'

CASING

ELECTRICAL
SURVEYS
DIL / CN-CD
Log-Tech

API # 15-007-23,713

REMARKS Samples and electric logs indicate probable production from the Mississippi

Other possible productive zones include the Chattanooga shale from 4822-4850, the Cherokee sand from 4523-4529, and the

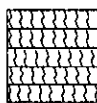
Pawnee LS from 4450-4454.

The gas detector showed slight increases through the Tarkio sand and Indian Cave sand sections, these zones should be

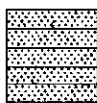
evaluated if more wells are drilled in this area.

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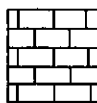
LEGEND



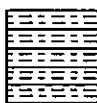
Anhydrite



Sandstone



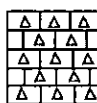
Limestone



Shale



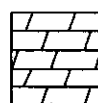
Carb Sh



Cherty LS



Chert



Dolomite

DRILLING TIME IN
MINUTES PER FOOT

Rate of Penetration Decreases



DEPT

LITHOLOGY

GAS SCALE

SAMPLE DESCRIPTION

REMARKS

