

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY N-10 Exploration, LLC
 LEASE Medicine River Ranch 'B' #11
 FIELD Landis
 LOCATION 2980' FSL & 2210' FEL
 SEC 15 TWP 34S RGE 11W
 COUNTY Barber STATE Kansas
 CONTRACTOR Hardt Drilling Rig #1
 SPUD 10-04-2012 COMP 10-12-2012
 RTD 5040 LTD 5041
 MUD UP 3159 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 4000 TO RTD
 GEOLOGIST ON WELL Tim Pierce

ELEVATIONS

KB 1364'
 DF _____
 GL 1354'
 Measurements Are All
 From Kelly Bushing

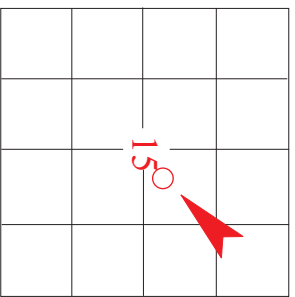
CASING

CONDUCTOR _____
 SURFACE 8-5/8" at 268'
 PRODUCTION 5-1/2" at 5028'

ELECTRICAL SURVEYS

DIL / CN-CD
Pioneer Energy Svcs


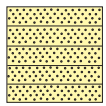
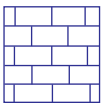
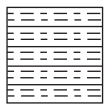

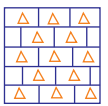

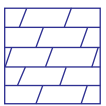
FORMATION TOPS	ELECTRIC LOG	SAMPLE
Heebner Sh.	3642 (-2278)	NA
Latan LS.	4075 (-2711)	4073 (-2709)
Stark Sh.	4323 (-2959)	4320 (-2956)
Cherokee Sh.	4546 (-3182)	4545 (-3181)
Mississippi	4598 (-3234)	4593 (-3229)
Chattanooga Sh.	4872 (-3508)	4868 (-3504)
Viola	4930 (-3566)	4928 (-3564)
Simpson	5020 (-3656)	5019 (-3655)




REMARKS Sample shows and electric logs indicate probable production from the interval 4600-4680 in the Mississippi..
Samples indicated a show of oil and gas in the Chattanooga Shale from 4893-4902.
Minor shows were noted in the KC Swope and Hertha, these zones will be covered w/ cement for possible further testing.
No other sample shows were encountered and electric logs indicated no other zones of interest.

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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 	DEPTH	LITHOLOG	GAS SCALE	SAMPLE DESCRIPTION	REMARKS
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