

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY N-10 Exploration, LLC
 LEASE Medicine River Ranch 'D' #7
 FIELD Landis
 LOCATION 330' FSL & 2120' FEL
 SEC 10 TWP 34S RGE 11W
 COUNTY Barber STATE Kansas
 CONTRACTOR Hardt Drilling Rig #1
 SPUD 5-03-2013 COMP 5-11-2013
 RTD 4950 LTD 4950
 MUD UP 3120 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 4030' to RTD
 GEOLOGIST ON WELL Tim Pierce

ELEVATIONS

KB 1366'
 DF _____
 GL 1356'
 Measurements Are All
 From Kelly Bushing

CASING

CONDUCTOR _____
 SURFACE 8-5/8" at 266'
 PRODUCTION 5-1/2" at 4938'

ELECTRICAL SURVEYS

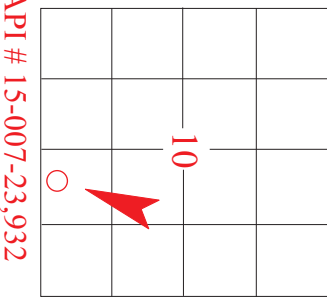
DIL / CN-CD
Pioneer Energy Svcs

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Heebner Sh.	3631 (-2265)	NA
Stark Sh.	4314 (-2948)	4315 (-2949)
Cherokee Sh.	4532 (-3166)	4532 (-3166)
Mississippi	4582 (-3216)	4578 (-3212)
Kinderhook Sh.	4773 (-3407)	4774 (-3408)
Chattanooga Sh.	4856 (-3490)	4861 (-3495)
Viola	4911 (-3545)	4910 (-3544)


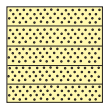
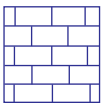
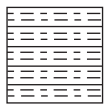

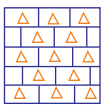




API # 15-007-23,932

REMARKS Samples and electric logs indicate a productive zone in the Mississippi from 4582'- 4626'.
A sample show was observed in the Meisner sand which was drill stem tested with negative results.
Other sample shows were observed in the Chattanooga Sh., lower Miss chert, Cherokee sandy lime, and KC Swope zone.
Electric logs show inconclusive evidence as far as the Chattanooga Sh is concerned but logs indicate poor porosity development in any of the other three zones that carried shows.
There were no other zones of interest indicated by logs or samples.

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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 	DEPTI	LITHOLC	GAS SCALE	SAMPLE DESCRIPTION	REMARKS
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