Perf-Tech Wireline Services

Company	AMERICAN WARRIOR, INC.
Well	FILZER No.1-13
Field	BERNICE
County	NESS
State	KANSAS

Company: AMERICAN WARRIOR, INC.
Well: FILZER No.1-13
Field: BERNICE
County: NESS
State: KANSAS

Section: 13
Township: 16 S.
Range: 19 W.

Other Services: DIPLOG

Permanent Datum: GL
Elevation: 2247 ft.
Log Measured From: KB 10 ft. Above Perm. Datum
Drilling Measured From: KB

Date: 12-Mar-2015
Run Number: ONE
Depth Driller: 3800 ft.
Depth Logger: 3798 ft.
Bottom Log Interval: 3796 ft.
Top Log Interval: 2800 ft.
Casing Driller Size: 8 5/8 @ 2800 ft.
Casing Logger Size: 8 5/8 @ 2798 ft.
Bit Size: 7 7/8 in.
Type Fluid in Hole: GEL CHEM
Density: 9.2 lb/gal
Viscosity: 52 s
Fluid Loss: 6.4 cc
Source of Sample: FLOWLINE
Rm @ Meas Temp: 1.1 @ 80 °F
Rmf @ Meas Temp: .85 @ 80 °F
Rmc @ Meas Temp: 1.4 @ 80 °F
Source: Rmf: RMC Rmc: RMC
Rm @ BHT: .61 @ 120 °F
Time Since Circulation: 9 hrs.
Time Since Cement Job: 24 hrs.
Max Rec Temp: 120 °F
Equipment Location: HAYS
Recorded By: J. WEIGEL
Witnessed By: MR. DAVE SCOTT

BOREHOLE RECORD			
Bit Size	From	To	Hours
7 7/8	0	3800	15

CASING RECORD			
Size	Wgt	From	To
8 5/8	23	0	2798

DUAL RECEIVER CEMENT BOND LOG

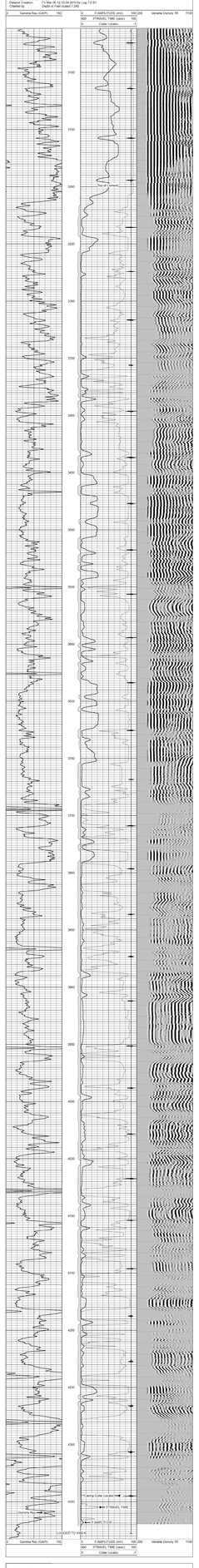
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

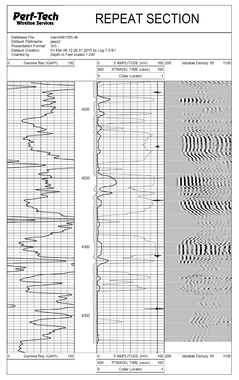
THANK YOU FOR USING
PERF-TECH WIRELINE SERVICES, INC.
(785) 623-3669

ALEXANDER K5
11 SOUTH TO W RD
2 WEST, 12 NORTH, WEST INTO.

MAIN PASS

Database File: nesn0261765.db
Dataset Pathname: pass1
Presentation Format: bcl
Dataset Creation: Fri Mar 06 12:15:44 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

Database File: nesn0261765.db
Dataset Pathname: pass2
Presentation Format: bcl
Dataset Creation: Fri Mar 06 12:26:01 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240