



Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-163-24,292-00-00

Company **AMERICAN WARRIOR, INC.**
 Well **HARPER #1-10**
 Field **WILDCAT**
 County **ROOKS** State **KANSAS**

Location 1,882' FSL & 335' FEL
 Sec: 10 Twp: 10S Rge: 19W

Other Services
 DIL
 MEL

Permanent Datum **GROUND LEVEL** Elevation 2129
 Log Measured From **KELLY BUSHING** 8 Ft. Above Perm. Datum
 Drilling Measured From **KELLY BUSHING**

K.B. 2137
 D.F.
 G.L. 2129

Date 5/14/2015

Run Number ONE

Type Log CNL / CDL

Depth Driller 3748

Depth Logger 3747

Bottom Logged Interval 3726

Top Logged Interval 3000

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL 4200

Density 9.3

Level Full

Max. Rec. Temp. F 113

Operating Rig Time 3 Hours

Equipment -- Location 108 Hays

Recorded By J. LONG

Witnessed By MARC DOWNING

Borehole Record

Run No	Bit	From	To	Size	Wgt. 24#	From	To
1	12.25	00	214	8.625	24#	00	214
2	7.875	214	3748				

Casing Record

Run No	Bit	From	To	Size	Wgt. 24#	From	To
1	12.25	00	214	8.625	24#	00	214
2	7.875	214	3748				

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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.

Comments

Thank you for using Pioneer Energy Services
www.pioneeres.com
 785 625 3858

HAYS, NORTH TO COUNTY LINE, NORTH TO AA ROAD, 6 WEST, NORTH INTO

Database File amwar_harper #1-10\amwarrior_harper_1-10hd.db
 Dataset Pathname DIL/awstck
 Presentation Format cdl
 Dataset Creation Fri May 15 02:05:46 2015
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (in)	16

30	Compensated Density	-10
2	Bulk Density	3
15000	Line Tension	0

-0.25	Correction	0.25
LSPD		











