Perf-Tech Wireline Services

Company	AMERICAN WARRIOR, INC.
Field	EL DORADO, V-32
Field	DEWALD NORTH
County	NESS
State	KANSAS

DUAL RECEIVER CEMENT BOND LOG

Company: AMERICAN WARRIOR, INC.
Field: EL DORADO, V-32
Field: DEWALD NORTH
County: NESS
State: KANSAS

Location: SEC. 32 TWP. 17S RGE. 25W
Elevation: 2247 KB 2242 DF 2237 GL
Permanent Datum: GL
Log Measured From: KB 5 Ft. Above Perm. Datum
Drilling Measured From: KB
Date: 7-7-11
Run Number: ONE
Depth Driller: 4300
Depth Logger: 4298
Bottom Log Interval: 4298
Top Log Interval: 200
Casing Driller: 8 5/8 @ 0 Ft.
Casing Logger: 8 5/8 @ 0 Ft.
Bit Size: 7 7/8
Type Fluid: LSND
Density: 9.2 lb/gal
Viscosity: 48 s
Fluid Loss: 6.0 cc
Source of Sample: FLOWLINE
Rm @ Meas. Temp.: 0.62 @ 80 °F
Rmf @ Meas. Temp.: 0.46 @ 80 °F
Rmc @ Meas. Temp.: 0.85 @ 80 °F
Source: Rmf Rmc: MEASURED
Rm @ BHT: 0.32 @ 120 °F
Time Since Circulation: 5 HRS
Time Since Cement: 24 HRS
Max. Rec. Temp.: 120 °F
Equipment: 10-14
Location: CHASE
Recorded By: J. ROSS
Witnessed By: K. ELL

Casing Record	Size	Wgt.	From	To
Surface String	8 5/8	23#	0	221
Production				
Liner				
Liner				

Bottom Hole Assembly		
Item	Length	Depth
Collar Locator	1.00	4298
Cement Bond Log	15.00	4283
Cross Coupling	1.00	4268
Receiver Sub	1.00	4267
Receiver Sub	1.00	4266
Receiver Sub	1.00	4265
Receiver Sub	1.00	4264
Receiver Sub	1.00