Perf-Tech
Wireline Services, Inc.

Company	AMERICAN WARRIOR, INC.
Well	CAH UNIT NO. 1
Field	BOXELKAMP
County	NESS
State	KANSAS

DUAL RECEIVER CEMENT BOND LOG

COMPANY AMERICAN WARRIOR, INC.
WELL CAH UNIT NO. 1
Field BOXELKAMP
County NESS State KANSAS
API # 15-135-24977-0000 Other Services
Location 200' FNL & 100' FEL
SE - NE - NE - NE
Sec 34 Twp 17 S Rng 21 W
Permanent Datum GL Elevation 2214
Log Measured From KB 12 Above Perm. Datum
Drilling Measured From KB
Date 12-Jan-2017
Run Number ONE
Depth Driller 4390
Depth Logger 4388
Bottom Logged Interval 4386
Top Log Interval SURFACE
Casing Driller 8 5/8 @ 251
Casing Logger
Bit Size 7 7/8
Type Fluid WATER
Density / Viscosity 9.2 / 50
PH / Fluid Loss
Source of Sample
Rm @ Meas Temp
Rmf @ Meas Temp
Rmc @ Meas Temp
Source: Rmf / Rmc
Rm @ BHT
Time Since Circulation
Time Logger on Bottom 12:00
Equipment Number 3-1-1
Location HAYS
Recorded By J. BUSSO
Witnessed By

Bow Spring Number	Decentralizer Type	Depth
1	BOW SPRING	4380
2	BOW SPRING	4340
3	BOW SPRING	4300
4	BOW SPRING	4260
5	BOW SPRING	4220
6	BOW SPRING	4180
7	BOW SPRING	4140
8	BOW SPRING	4100
9	BOW SPRING	4060
10	BOW SPRING	4020
11	BOW SPRING	3980
12	BOW SPRING	3940
13	BOW SPRING	3900
14	BOW SPRING	3860
15	BOW SPRING	3820
16	BOW SPRING	3780
17	BOW SPRING	3740
18	BOW SPRING	3700
19	BOW SPRING	3660
20	BOW SPRING	3620
21	BOW SPRING	3580
22	BOW SPRING	3540
23	BOW SPRING	3500
24	BOW SPRING	3460
25	BOW SPRING	3420
26	BOW SPRING	3380
27	BOW SPRING	3340
28	BOW SPRING	3300
29	BOW SPRING	3260
30	BOW SPRING	3220
31	BOW SPRING	3180
32	BOW SPRING	3140
33	BOW SPRING	3100
34	BOW SPRING	3060
35	BOW SPRING	3020
36	BOW SPRING	2980
37	BOW SPRING	2940
38	BOW SPRING	2900
39	BOW SPRING	2860
40	BOW SPRING	2820
41	BOW SPRING	2780
42	BOW SPRING	2740
43	BOW SPRING	2700
44	BOW SPRING	2660
45	BOW SPRING	2620
46	BOW SPRING	2580
47	BOW SPRING	2540
48	BOW SPRING	2500
49	BOW SPRING	2460
50	BOW SPRING	2420
51	BOW SPRING	2380
52	BOW SPRING	2340
53	BOW SPRING	2300
54	BOW SPRING	2260
55	BOW SPRING	2220
56	BOW SPRING	2180
57	BOW SPRING	2140
58	BOW SPRING	2100
59	BOW SPRING	2060
60	BOW SPRING	2020
61	BOW SPRING	1980
62	BOW SPRING	1940
63	BOW SPRING	1900
64	BOW SPRING	1860
65	BOW SPRING	1820
66	BOW SPRING	1780
67	BOW SPRING	1740
68	BOW SPRING	1700
69	BOW SPRING	1660
70	BOW SPRING	1620
71	BOW SPRING	1580
72	BOW SPRING	1540
73	BOW SPRING	1500
74	BOW SPRING	1460
75	BOW SPRING	1420
76	BOW SPRING	1380
77	BOW SPRING	1340
78	BOW SPRING	1300
79	BOW SPRING	1260
80	BOW SPRING	1220
81	BOW SPRING	1180
82	BOW SPRING	1140
83	BOW SPRING	1100
84	BOW SPRING	1060
85	BOW SPRING	1020
86	BOW SPRING	980
87	BOW SPRING	940
88	BOW SPRING	900
89	BOW SPRING	860
90	BOW SPRING	820
91	BOW SPRING	780
92	BOW SPRING	740
93	BOW SPRING	700
94	BOW SPRING	660
95	BOW SPRING	620
96	BOW SPRING	580
97	BOW SPRING	540
98	BOW SPRING	500
99	BOW SPRING	460
100	BOW SPRING	420
101	BOW SPRING	380
102	BOW SPRING	340
103	BOW SPRING	300
104	BOW SPRING	260
105	BOW SPRING	220
106	BOW SPRING	180
107	BOW SPRING	140
108	BOW SPRING	100
109	BOW SPRING	60
110	BOW SPRING	20

Top Log Interval

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 wilful 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

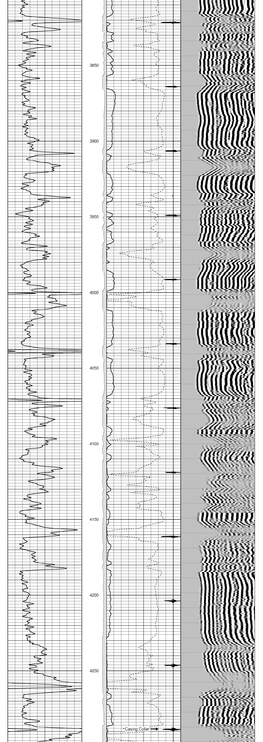
THANK YOU FOR USING
PERF-TECH WIRELINE SERVICES, INC.
785-628-3969

DIRECTIONS: BAZINE, KS.
10 SOUTH to 30 Rd.
1 WEST, 1/2 SOUTH,
WEST into

Perf-Tech
Wireline Services, Inc.

MAIN PASS

Database File: dec171706.db
Dataset Pathname: pass3
Presentation Format: 3x2
Dataset Creation: Wed Dec 13 08:15:56 2017 by Log SOH 111116
Charted by: Depth in Feet scaled 1:240



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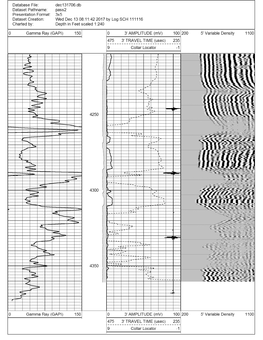
REPEAT SECTION

Database File: dec171706.db
Dataset Pathname: pass3
Presentation Format: 3x2
Dataset Creation: Wed Dec 13 08:11:42 2017 by Log SOH 111116
Charted by: Depth in Feet scaled 1:240