

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ABELL #9 Test No. 1 Date 8/18/92
Company AMERICAN WARRIOR, INC. Zone SHAWNEE
Address P.O. BOX 399 GARDEN CITY KS 67845 Elevation 2031
Co. Rep./Geo. SCOTT CORSAIR Cont. EAGLE DRILLING Est. Ft. of Pay _____
Location: Sec. 35 Twp. 32S Rge. 23W Co. CLARK State KS

Interval Tested 4236-4399
Anchor Length 163
Top Packer Depth 4231
Bottom Packer Depth 4236
Total Depth 4399

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 397
Mud Wt. 9.1 lb/Gal.
Viscosity 47 Filtrate 10.8

Tool Open @ 4:15 AM Initial Blow 1" BLOW BUILDING TO 9.5"

Final Blow 1/4" BLOW BUILDING TO 4.5"

Recovery - Total Feet 250 Flush Tool? NO

Rec. 70 Feet of MUD
Rec. 180 Feet of MUDDY WATER WITH OIL SPECKS IN TOOL
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 105 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.4 @ 61.1 °F Chlorides 19500 ppm Recovery Chlorides 7500 ppm System

(A) Initial Hydrostatic Mud 2152.3 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 50.6 PSI @ (depth) 4238 w / Clock No. 27573

(C) First Final Flow Pressure 91.2 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1390.3 PSI @ (depth) 4398 w / Clock No. 27501

(E) Second Initial Flow Pressure 123.7 PSI AK1 Recorder No. _____ Range _____

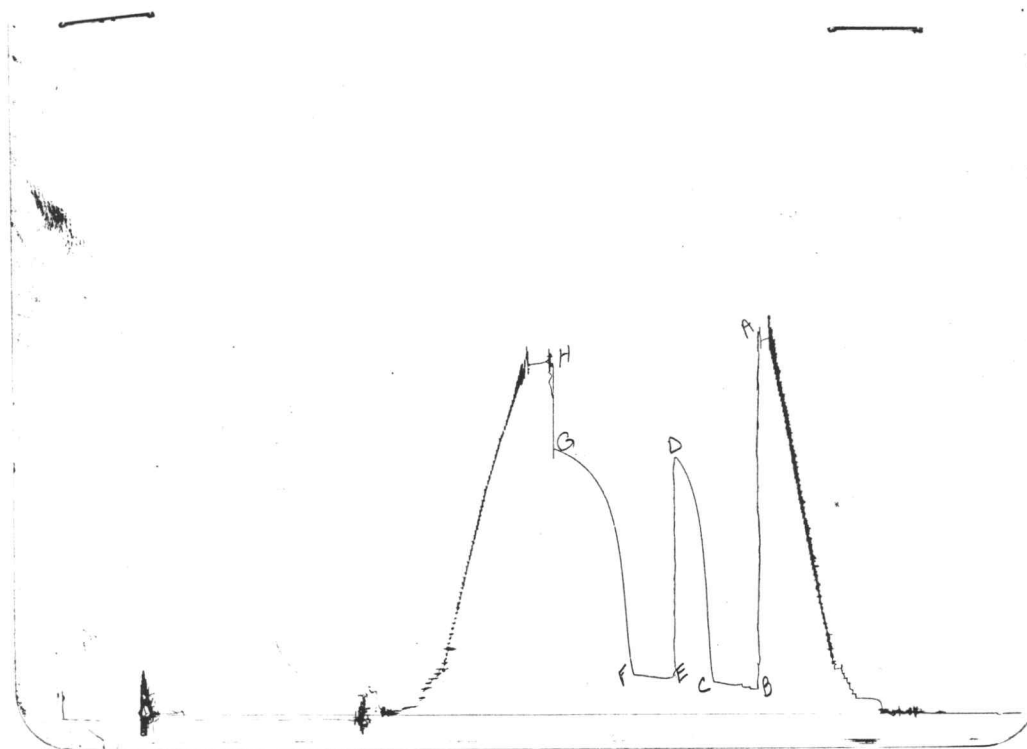
(F) Second Final Flow Pressure 145.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1450.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2104.7 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2150	2152.3
(B) FIRST INITIAL FLOW PRESSURE	48	50.6
(C) FIRST FINAL FLOW PRESSURE	86	91.2
(D) INITIAL CLOSED-IN PRESSURE	1391	1390.3
(E) SECOND INITIAL FLOW PRESSURE	124	123.7
(F) SECOND FINAL FLOW PRESSURE	144	145.8
(G) FINAL CLOSED-IN PRESSURE	1449	1450.6
(H) FINAL HYDROSTATIC MUD	2100	2104.7

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Test Ticket

№ 5206

Well Name & No. Abell #9 Test No. 1 Date 8-18-92
 Company American Warrior, Inc. Zone Tested Shawnee
 Address PO Box 399 Worden City KS 67845 Elevation 2031 KB
 Co. Rep./Geo. Scott Carson Cont. Eagle Dale Est. Ft. of Pay _____
 Location: Sec. 35 Twp. 32S Rge. 23W Co. Clark State KS
 No. of Copies 4 Distribution Sheet _____ Yes X No _____ Turnkey _____ Yes X No _____ Evaluation _____

Interval Tested 4236-4399 Drill Pipe Size 4 1/2 XH
 Anchor Length 163 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4231 Hole Size — 77/8" Rubber Size — 63/4"
 Bottom Packer Depth 4236 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4399 Drill Collar — 2.25 Ft. Run 397
 Mud Wt. 9.1 lb/gal. Viscosity 47 Filtrate 10.8
 Tool Open @ 4:15 AM Initial Blow 1" blow building to 9 1/2"

Final Blow 1 1/2" blow building to 4 1/2"

Recovery — Total Feet 250 Feet of Gas in Pipe _____ Flush Tool? _____

Rec.	Feet Of	% gas	% oil	% water	% mud
<u>70</u>	<u>Mud</u>				
<u>180</u>	<u>Muddy water</u>				
	<u>oil specks in tool</u>				

BHT 105 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .4 @ 6.1 °F Chlorides 19,500 ppm Recovery Chlorides 7500 ppm System

(A) Initial Hydrostatic Mud 2150 PSI AK1 Recorder No. 22150 Range 3925
 (B) First Initial Flow Pressure 48 PSI @ (depth) 4238 w/Clock No. 27573
 (C) First Final Flow Pressure 86 PSI AK1 Recorder No. 24174 Range 3050
 (D) Initial Shut-In Pressure 1391 PSI @ (depth) 4358 w/Clock No. 27501
 (E) Second Initial Flow Pressure 124 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 144 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1449 PSI Initial Opening 30 Test X
 (H) Final Hydrostatic Mud 2100 PSI Initial Shut-In 30 Jars X

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Final Flow 30 Safety Joint X
 Final Shut-In 60 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____

Approved By Scott Carson
 Our Representative Jon Simpson