

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HAAG #1 Test No. 1 Date 10/22/92
Company A.L. ABERCROMBIE, INC. Zone KS CITY "L"
Address 150 N MAIN SWT #801 WICHITA KS 67202-1383 Elevation 2750
Co. Rep./Geo. STEVE FRANKAMP Cont. ABERCROMBIE RIG #5 Est. Ft. of Pay _____
Location: Sec. 24 Twp. 14S Rge. 29W Co. LANE State KS

Interval Tested <u>4315-4332</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>17</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>471</u>
Top Packer Depth <u>4310</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>4315</u>	Mud Wt. <u>9</u> lb/Gal.
Total Depth <u>4332</u>	Viscosity <u>48</u> Filtrate <u>8.8</u>

Tool Open @ 10:22 AM ^{Initial} Blow WEAK BLOW BUILT TO 1"
ISI:1" BLOW DIED IN 13 MINUTES
Final Blow WEAK SURFACE BLOW IN 5 MINUTES BUILT TO 1"
FSI:1" BLOW DIED IN 12 MINUTES

Recovery - Total Feet 160 Flush Tool? NO

Rec. <u>160</u>	Feet of <u>SULFUR WATER</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

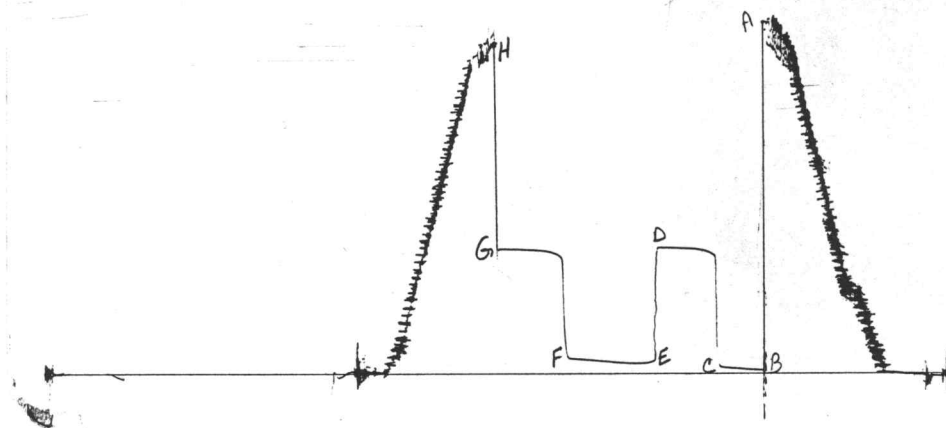
BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.4 @ 80 °F Chlorides 15000 ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud <u>2135.7</u> PSI	AK1 Recorder No. <u>13309</u> Range <u>4700</u>
(B) First Initial Flow Pressure <u>11.3</u> PSI	@ (depth) <u>4322</u> w / Clock No. <u>17640</u>
(C) First Final Flow Pressure <u>33.4</u> PSI	AK1 Recorder No. <u>13339</u> Range <u>4025</u>
(D) Initial Shut-in Pressure <u>755.6</u> PSI	@ (depth) <u>4327</u> w / Clock No. <u>27566</u>
(E) Second Initial Flow Pressure <u>65.8</u> PSI	AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>84.2</u> PSI	@ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure <u>754.5</u> PSI	Initial Opening <u>30</u> Final Flow <u>60</u>
(H) Final Hydrostatic Mud <u>2094.7</u> PSI	Initial Shut-in <u>45</u> Final Shut-in <u>45</u>

Our Representative ROD STEINBRINK

CHART PAGE

DST #1
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2133	2135.7
(B) FIRST INITIAL FLOW PRESSURE	10	11.3
(C) FIRST FINAL FLOW PRESSURE	31	33.4
(D) INITIAL CLOSED-IN PRESSURE	759	755.6
(E) SECOND INITIAL FLOW PRESSURE	62	65.8
(F) SECOND FINAL FLOW PRESSURE	83	84.2
(G) FINAL CLOSED-IN PRESSURE	759	754.5
(H) FINAL HYDROSTATIC MUD	2093	2094.7

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Test Ticket

No 5269

Well Name & No. <u>Haag #1</u>	Test No. <u>1</u>	Date <u>10-22-92</u>
Company <u>Abercrombie Drilling, Inc.</u>	Zone Tested <u>K.C. 'L'</u>	
Address <u>150 N. Main Suite 801 Wichita, KS. 67202</u>	Elevation <u>2750 (KB)</u>	
Co. Rep./Geo. <u>Steve Frankamp</u>	cont. <u>Abercrombie #5</u>	Est. Ft. of Pay _____
Location: Sec. <u>24</u>	Twp. <u>14 S</u>	Rge. <u>29 W</u> Co. <u>Lane</u> State <u>KS.</u>
No. of Copies <u>Normal</u>	Distribution Sheet _____	Yes <u>X</u> No <u>Turnkey</u> Yes <u>X</u> No _____ Evaluation _____

Interval Tested <u>4315 - 4332</u>	Drill Pipe Size <u>4 1/2" XH</u>
Anchor Length <u>17'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>4310</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>4315</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>471'</u>
Total Depth <u>4332</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>48</u> Filtrate <u>8.8</u>
Tool Open @ <u>10:22 am</u> Initial Blow <u>Weak blow built to 1".</u>	
<u>ISI: 1" blow died in 13 mins.</u>	
Final Blow <u>Weak surface blow in 5 mins. built to 1".</u>	
<u>FSI: 1" blow died in 12 mins.</u>	

Recovery — Total Feet <u>160'</u>	Feet of Gas in Pipe _____	Flush Tool? <u>No</u>
Rec. _____ Feet Of _____	%gas %oil %water %mud	
Rec. _____ Feet Of _____	%gas %oil %water %mud	
Rec. <u>160'</u> Feet Of <u>Sulfur Water</u>	%gas %oil %water %mud	
Rec. _____ Feet Of _____	%gas %oil %water %mud	
Rec. _____ Feet Of _____	%gas %oil %water %mud	

BHT <u>120°</u> °F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API
RW <u>-40</u> @ <u>80°</u> °F	Chlorides <u>15,000</u> ppm	Recovery Chlorides <u>2,500</u> ppm	System
(A) Initial Hydrostatic Mud <u>2133</u>	PSI Ak1 Recorder No. <u>13309</u>	Range <u>4700</u>	
(B) First Initial Flow Pressure <u>10</u>	PSI @ (depth) <u>4322</u>	w/Clock No. <u>17640</u>	
(C) First Final Flow Pressure <u>31</u>	PSI AK1 Recorder No. <u>13339</u>	Range <u>4025</u>	
(D) Initial Shut-In Pressure <u>759</u>	PSI @ (depth) <u>4327</u>	w/Clock No. <u>27566</u>	
(E) Second Initial Flow Pressure <u>62</u>	PSI AK1 Recorder No. _____	Range _____	
(F) Second Final Flow Pressure <u>83</u>	PSI @ (depth) _____	w/Clock No. _____	
(G) Final Shut-In Pressure <u>759</u>	PSI Initial Opening <u>30</u>	Test _____	
(H) Final Hydrostatic Mud <u>2093</u>	PSI Initial Shut-In <u>45</u>	Jars _____	

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Approved By Steve Frankamp

Our Representative Rod Steinbrink

Final Flow 60 Safety Joint _____

Final Shut-In 45 Straddle _____

Circ. Sub X N/C

Sampler _____

Extra Packer _____

Other _____