

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name PETERSELIE #1-21 Test No. 1 Date 6/15/93  
Company ALLEN DRILLING COMPANY Zone CHEROKEE  
Address 6565 S DAYTON #3800 ENGLEWOOD CO 80111 Elevation 2248 KB  
Co. Rep./Geo. RICH O'DONNELL Cont. COMPANY TOOLS RIG #5 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 21 Twp. 20S Rge. 23W Co. NESS State KS

Interval Tested 4347-4381 Drill Pipe Size 4.5" XH  
Anchor Length 34 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4342 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4347 Mud Wt. 9.3 lb/Gal.  
Total Depth 4381 Viscosity 44 Filtrate 10.2

Tool Open @ 5:45 <sup>Initial</sup> AM WEAK BLOW DEAD IN 10 MINUTES

Final Blow NO BLOW -- FLUSHED TOOL & RECEIVED WEAK SURGE THEN DEAD

Recovery - Total Feet 10 Flush Tool? YES

Rec. 10 Feet of DRILLING MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 117 °F Gravity \_\_\_\_\_ °API <sup>⊙</sup> \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ <sup>⊙</sup> \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3800 ppm System

(A) Initial Hydrostatic Mud 2165.3 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 36.5 PSI <sup>⊙</sup> (depth) 4350 w / Clock No. 26191

(C) First Final Flow Pressure 36.5 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 49.5 PSI <sup>⊙</sup> (depth) 4378 w / Clock No. 27573

(E) Second Initial Flow Pressure 49.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

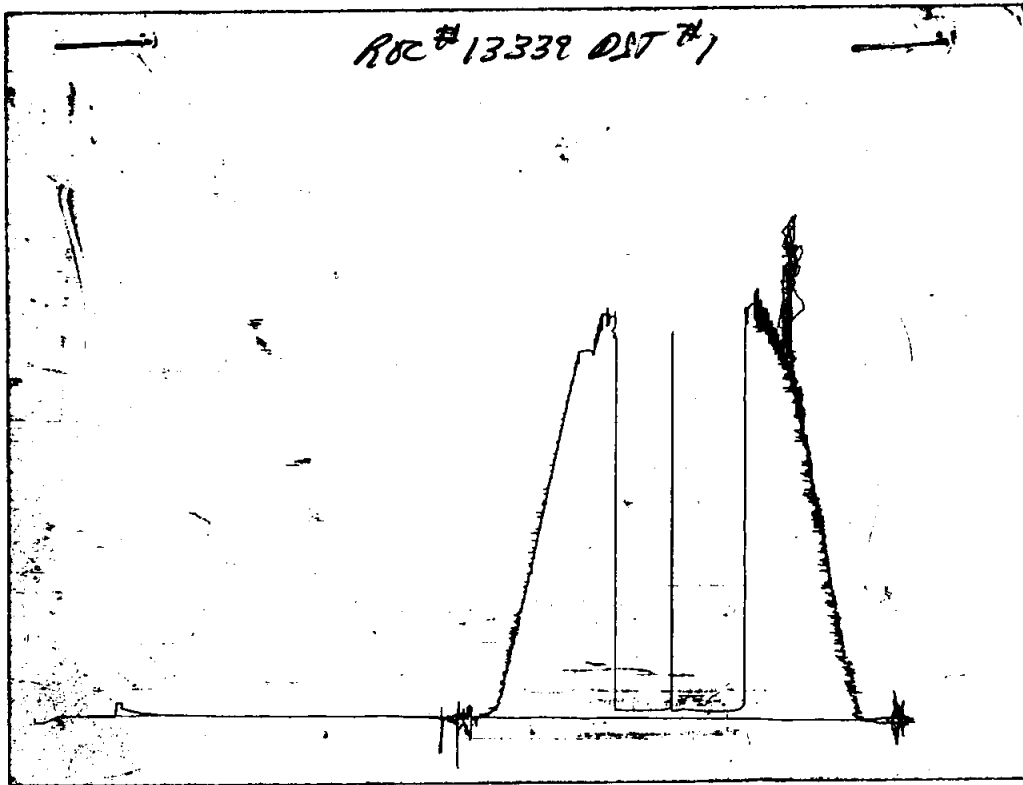
(F) Second Final Flow Pressure 49.5 PSI <sup>⊙</sup> (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 59.8 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 2139.5 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative JOHN RIEDL

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2153	2165.3
(B) FIRST INITIAL FLOW PRESSURE	31	36.5
(C) FIRST FINAL FLOW PRESSURE	31	36.5
(D) INITIAL CLOSED-IN PRESSURE	34	49.5
(E) SECOND INITIAL FLOW PRESSURE	34	49.5
(F) SECOND FINAL FLOW PRESSURE	34	49.5
(G) FINAL CLOSED-IN PRESSURE	36	59.8
(H) FINAL HYDROSTATIC MUD	2126	2139.5

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## Test Ticket

No 5938

Well Name & No. PETERSELIE #1-21 Test No. 1 Date 6/15/93  
Company ALLEN DRILL CO. Zone Tested CHEROKEE  
Address 6565 S DAYTON SUITE 3200 ENGLEWOOD CO 80111 Elevation 2248 K.B.  
O. Rep./Geo. RICH O'DONNELL cont. COMPANY TOOLS RIG Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. R1 Twp. 20S Rge. 23W Co. NESS State KS  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes  Turnkey  Yes  No  Evaluation \_\_\_\_\_

Interval Tested 4347-4381 Drill Pipe Size 4 1/2 XH  
Chor Length ~~4347~~ 34 FT Top Choke — 1" Bottom Choke — 1/4"  
Packer Depth 4342 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
Bottom Packer Depth 4347 Wt. Pipe I.D. — 2.7 Ft. Run 0  
Total Depth 4381 Drill Collar — 2.25 Ft. Run 0  
Fluid Wt. 9.3 lb/gal. Viscosity 44 Filtrate 10.2  
Well Open @ 5:45 AM Initial Blow WEAK BLOW DEAD IN 10 MINUTES

Final Blow NO BLOW - FLUSHED TOOL # RECEIVED ~~START~~ SURFACE THEN DEAD

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?	% gas	% oil	% water	% mud
<u>10</u>	<u>DRILLING MUD</u>	<u>YES</u>				
_____	_____	_____				
_____	_____	_____				
_____	_____	_____				
_____	_____	_____				

T 117 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
\_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3800 ppm System

Initial Hydrostatic Mud 2153 PSI Ak1 Recorder No. 13309 Range 4700  
First Initial Flow Pressure 31 PSI @ (depth) 4350 w/Clock No. 26191  
First Final Flow Pressure 31 PSI AK1 Recorder No. 13339 ACAD Range 4025  
Initial Shut-in Pressure 34 PSI @ (depth) 4378 w/Clock No. 27573  
Second Initial Flow Pressure 34 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
Second Final Flow Pressure 34 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
Final Shut-in Pressure 36 PSI Initial Opening 30 15 Test ✓ 400  
Final Hydrostatic Mud 2126 PSI Initial Shut-in 30 Jars ✓ 200

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 15 Safety Joint ✓ 50  
Final Shut-in 30 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_

Approved By Rich O'Donnell  
Representative John Reed

057

# TRILOBITE TESTING, L.L.C.

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## Drill-Stem Test Data

Well Name PETERSELIE #1-21 Test No. 2 Date 6/15/93  
Company ALLEN DRILLING COMPANY Zone CHEROKEE  
Address 6565 S DAYTON #3800 ENGLEWOOD CO 80111 Elevation 2248 KB  
Co. Rep./Geo. RICH O'DONNELL Cont. COMPANY TOOLS RIG #5 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 21 Twp. 20S Rge. 23W Co. NESS State KS

Interval Tested 4347-4391 Drill Pipe Size 4.5" XH  
Anchor Length 44 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4342 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4347 Mud Wt. 9.4 lb/Gal.  
Total Depth 4391 Viscosity 48 Filtrate 10.6

Tool Open @ 7:00 PM <sup>initial</sup> Blow WEAK BLOW DEAD IN 10 MINUTES  
Final Blow NO BLOW

Recovery - Total Feet 8 Flush Tool? NO

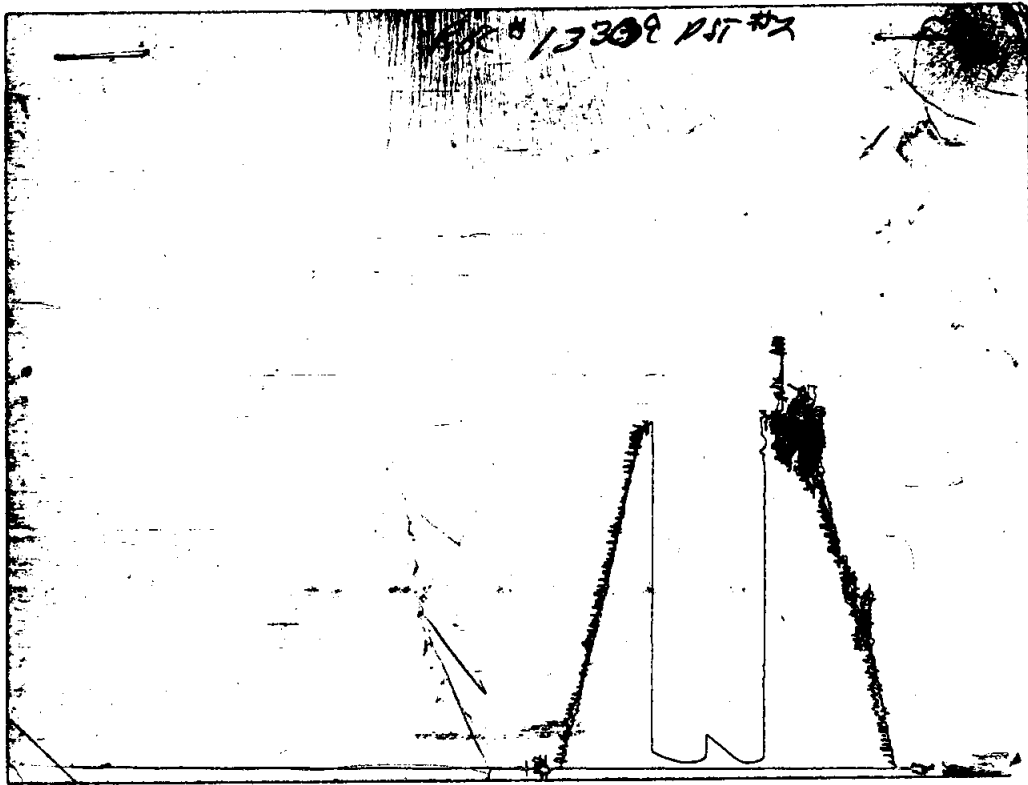
Rec. 8 Feet of DRILLING MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 118 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2169.5 PSI AK1 Recorder No. 13309 Range 4700  
(B) First Initial Flow Pressure 49.5 PSI @ (depth) 4352 w / Clock No. 26191  
(C) First Final Flow Pressure 52.1 PSI AK1 Recorder No. 13339 Range 4025  
(D) Initial Shut-in Pressure 216.4 PSI @ (depth) 4388 w / Clock No. 27573  
(E) Second Initial Flow Pressure 62.4 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 62.4 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 63.4 PSI Initial Opening 15 Final Flow 15  
(H) Final Hydrostatic Mud 2149.5 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative JOHN RIEDL

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2163	2169.5
(B) FIRST INITIAL FLOW PRESSURE	46	49.5
(C) FIRST FINAL FLOW PRESSURE	48	52.1
(D) INITIAL CLOSED-IN PRESSURE	207	216.4
(E) SECOND INITIAL FLOW PRESSURE	52	62.4
(F) SECOND FINAL FLOW PRESSURE	52	62.4
(G) FINAL CLOSED-IN PRESSURE	72	63.4
(H) FINAL HYDROSTATIC MUD	2140	2149.5

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## Test Ticket

No 5939

Well Name & No.	<u>PETERSON #1-21</u>	Test No.	<u>2</u>	Date	<u>6/15/83</u>
Company	<u>ALLEN DRILL CO.</u>	Zone Tested	<u>CHEROKEE</u>		
Address	<u>6565 S. HAYDEN SUITE 3800 BENTLEYWOOD CO. MO.</u>		Elevation	<u>2248 R.B.</u>	
Co. Rep./Geo.	<u>RICH O DONNELL</u>	Cont.	<u>CO TOOLS R16 5</u>	Est. Ft. of Pay	
Location: Sec.	<u>21</u>	Twp.	<u>20S</u>	Rge.	<u>23W</u>
		Co.	<u>MISS</u>	State	<u>KS</u>
No. of Copies		Distribution Sheet		Yes	<input type="checkbox"/>
				No	<input type="checkbox"/>
		Turnkey		Yes	<input type="checkbox"/>
				No	<input checked="" type="checkbox"/>
				Evaluation	<u>NO</u>

Interval Tested	<u>4347-4391</u>	Drill Pipe Size	<u>4 1/2 XH</u>
Anchor Length	<u>44 FT</u>	Top Choke — 1"	<u>Bottom Choke — 1/4"</u>
Top Packer Depth	<u>4342</u>	Hole Size — 7 7/8"	<u>Rubber Size — 6 3/4"</u>
Bottom Packer Depth	<u>4347</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u>8</u>
Total Depth	<u>4391</u>	Drill Collar — 2.25 Ft. Run	<u>8</u>
Mud Wt.	<u>9.4</u>	lb/gal.	Viscosity <u>48</u>
			Filtrate <u>10.6</u>
Tool Open @	<u>7:00 PM</u>	Initial Blow	<u>WEAK BLOW DEAD IN 10 MINUTES</u>

Final Blow NO BLOW

Recovery — Total Feet	<u>8</u>	Feet of Gas In Pipe	<u>—</u>	Flush Tool?	<u>NO</u>		
Rec.	<u>8</u>	Feet Of	<u>DRILLING MUD</u>	%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud

BHT 118 °F Gravity — °API @ — °F Corrected Gravity — °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud	<u>2163</u>	PSI	AK1 Recorder No.	<u>13309</u>	Range	<u>4700</u>
(B) First Initial Flow Pressure	<u>46</u>	PSI	@ (depth)	<u>4352</u>	w/Clock No.	<u>26191</u>
(C) First Final Flow Pressure	<u>48</u>	PSI	AK1 Recorder No.	<u>13339</u>	Range	<u>4025</u>
(D) Initial Shut-in Pressure	<u>207</u>	PSI	@ (depth)	<u>4388</u>	w/Clock No.	<u>22573</u>
(E) Second Initial Flow Pressure	<u>52</u>	PSI	AK1 Recorder No.	<u>—</u>	Range	<u>—</u>
(F) Second Final Flow Pressure	<u>52</u>	PSI	@ (depth)	<u>—</u>	w/Clock No.	<u>—</u>
(G) Final Shut-in Pressure	<u>72</u>	PSI	Initial Opening	<u>15</u>	Test	<u>✓ 600</u>
(H) Final Hydrostatic Mud	<u>2140</u>	PSI	Initial Shut-in	<u>30</u>	Jars	<u>✓ 200</u>

Final Flow 15 Safety Joint ✓ 50  
Final Shut-in 30 Straddle —  
Circ. Sub —  
Sampler —  
Extra Packer —  
Other —

Approved By Rich O'Donnell  
Our Representative John Small