

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name METCALF #2 Test No. 1 Date 5-25-93  
Company ADECO INC & L. CHAMBERS Zone OREAD  
Address 310 E ASH OBERLIN KS 67749 Elevation 2586  
Co. Rep./Geo. CASEY GALLOWAY Cont. EMPHASIS OIL OPERATION #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 3 Twp. 2 S Rge. 27 W Co. DECATUR State KS

Interval Tested 3295-3390 Drill Pipe Size 4.5" XH  
Anchor Length 95 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3290 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3295 Mud Wt. 9.1 lb/Gal.  
Total Depth 3390 Viscosity 36 Filtrate 10.4

Tool Open @ 3:18 AM Initial Blow FAIR TO STRONG BLOW (BOTTOM OF BUCKET IN 15 MINUTES)

Final Blow FAIR TO STONG BLOW (BOTTOM OF BUCKET IN 50 MINUTES)

Recovery - Total Feet 310 Flush Tool? NO

Rec. 124 Feet of HEAVY MUD  
Rec. 62 Feet of DRILLING MUD  
Rec. 124 Feet of MUDDY WATER 50%WATER/50%MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 104 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.14 @ 71 °F Chlorides 74,000 ppm Recovery Chlorides 1,200 ppm System

(A) Initial Hydrostatic Mud 1653.2 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 70.2 PSI @ (depth) 3387 w / Clock No. 22993

(C) First Final Flow Pressure 133.5 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 615.9 PSI @ (depth) 3382 w / Clock No. 30410

(E) Second Initial Flow Pressure 168.4 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

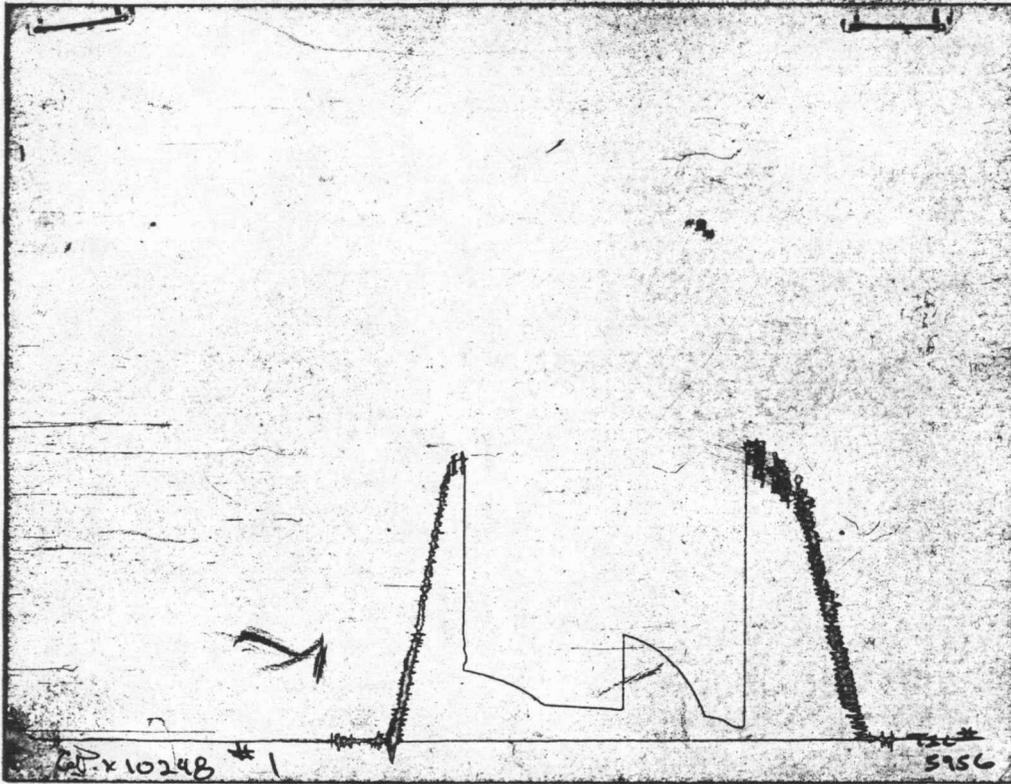
(F) Second Final Flow Pressure 196.8 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 400.3 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1610.9 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative GARY PEVOTEAUX

# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1655	1653.2
(B) FIRST INITIAL FLOW PRESSURE	73	70.2
(C) FIRST FINAL FLOW PRESSURE	137	133.5
(D) INITIAL CLOSED-IN PRESSURE	617	615.9
(E) SECOND INITIAL FLOW PRESSURE	164	168.4
(F) SECOND FINAL FLOW PRESSURE	198	196.8
(G) FINAL CLOSED-IN PRESSURE	395	400.3
(H) FINAL HYDROSTATIC MUD	1613	1610.9

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 5956

Well Name & No. <u>METCALF # 2</u>	Test No. <u>1</u>	Date <u>5-25-93</u>
Company <u>ADECO INC. E. L. CHAMBERS</u>	Zone Tested <u>OREAD</u>	
Address <u>310 E. ASH OBERLIN KS. 67749</u>	Elevation <u>2586 K.B.</u>	
Co. Rep./Geo. <u>CASEY GALLOWAY</u> Cont. <u>EMPHASIS OIL OPER.</u>	Est. Ft. of Pay <u>18</u>	
Location: Sec. <u>3</u> Twp. <u>2<sup>S</sup></u> Rge. <u>27<sup>W</sup></u>	Co. <u>DECATUR</u> State <u>KS.</u>	
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3295 - 3390'</u>	Drill Pipe Size <u>4 1/2" X.H.</u>
Anchor Length <u>95'</u>	Top Choke - 1" <input checked="" type="checkbox"/> Bottom Choke - 1/4" <input checked="" type="checkbox"/>
Top Packer Depth <u>3290'</u>	Hole Size - 7 7/8" <input checked="" type="checkbox"/> Rubber Size - 6 3/4" <input checked="" type="checkbox"/>
Bottom Packer Depth <u>3295'</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>NONE</u>
Total Depth <u>3390'</u>	Drill Collar - 2.25 Ft. Run <u>NONE</u>
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>36</u> Filtrate <u>10.4cc.</u>
Tool Open @ <u>3:18 A.M.</u>	Initial Blow <u>Fair to strong below. (letm. of bucket in 15 mins.)</u>
Final Blow <u>Fair to strong below (letm. of bucket in 50 mins.)</u>	

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>310'</u>	<u>NONE</u>	<u>No</u>
Rec. <u>124</u> Feet Of <u>Heavy Mud.</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>62</u> Feet Of <u>Dark Mud</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>124</u> Feet Of <u>M.W.</u>	%gas _____ %oil <u>50</u> %water <u>50</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 104 °F Gravity N.A. °API @ \_\_\_\_\_ °F Corrected Gravity N.A. °API

RW 0.14 @ 71 °F Chlorides 74,000 ppm Recovery Chlorides 1,200 ppm System

(A) Initial Hydrostatic Mud	<u>1655</u> PSI	AK1 Recorder No. <u>13278</u>	Range <u>4400</u>
(B) First Initial Flow Pressure	<u>73</u> PSI	@ (depth) <u>3387'</u>	w/Clock No. <u>22993</u>
(C) First Final Flow Pressure	<u>137</u> PSI	AK1 Recorder No. <u>10248</u>	Range <u>4400</u>
(D) Initial Shut-In Pressure	<u>617</u> PSI	@ (depth) <u>3389'</u>	w/Clock No. <u>30410</u>
(E) Second Initial Flow Pressure	<u>164</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure	<u>198</u> PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure	<u>395</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/>
(H) Final Hydrostatic Mud	<u>1613</u> PSI	Initial Shut-In <u>60</u>	Jars _____

TRILOBIT 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 60 Safety Joint \_\_\_\_\_

Final Shut-In 60 Straddle \_\_\_\_\_

Circ. Sub \_\_\_\_\_

Sampler \_\_\_\_\_

Extra Packer \_\_\_\_\_

Other ✓ 1,000.00

Approved By \_\_\_\_\_

Our Representative [Signature]

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name METCALF #2 Test No. 2 Date 5-25-93  
Company ADECO INC & L. CHAMBERS Zone LANS "A"  
Address 310 E ASH OBERLIN KS 67749 Elevation 2586  
Co. Rep./Geo. CASEY GALLOWAY Cont. EMPHASIS OIL OPERATION #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 3 Twp. 2 S Rge. 27 W Co. DECATUR State KS

Interval Tested 3367-3436 Drill Pipe Size 4.5" XH  
Anchor Length 60 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3371 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3376 Mud Wt. 8.9 lb/Gal.  
Total Depth 3436 Viscosity 47 Filtrate 11.2

Tool Open @ 5:42 PM Initial Blow FAIR BLOW (6-7") HAD 20-25' OF SOLID FILL ON BOTTOM  
SLOWLY SLIDING TOOL THROUGHOUT FIRST OPEN  
Final Blow WEAK BLOW (SLOW INCREASE TO 2 1/2)

Recovery - Total Feet 140 Flush Tool? NO

Rec. 78 Feet of WATERY MUD  
Rec. 62 Feet of WATERY MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 105 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.24 @ 74 °F Chlorides 31,000 ppm Recovery Chlorides 1,200 ppm System

(A) Initial Hydrostatic Mud 1550.2 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 50.6 PSI @ (depth) 3433 w / Clock No. 22993

(C) First Final Flow Pressure 78.5 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1004.6 PSI @ (depth) 3428 w / Clock No. 30410

(E) Second Initial Flow Pressure 80.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

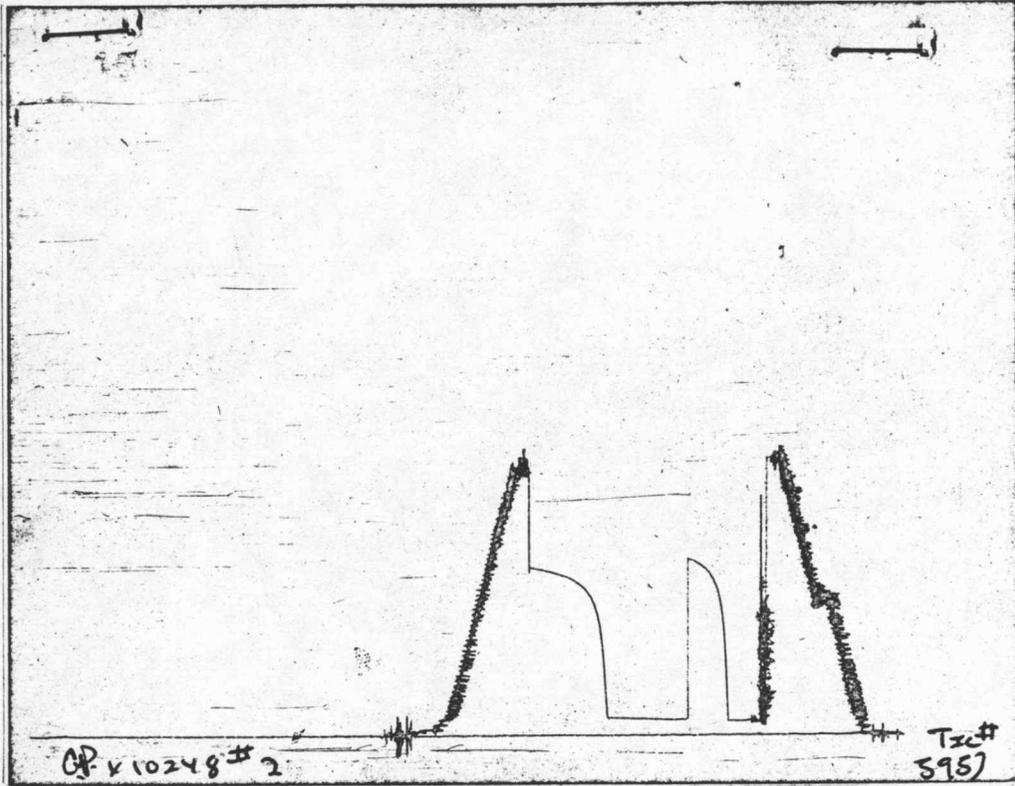
(F) Second Final Flow Pressure 92.6 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 980.1 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1500.6 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative GARY PEVOTEAUX

# CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1562	1550.2
(B) FIRST INITIAL FLOW PRESSURE	57	50.6
(C) FIRST FINAL FLOW PRESSURE	62	78.5
(D) INITIAL CLOSED-IN PRESSURE	1004	1004.6
(E) SECOND INITIAL FLOW PRESSURE	73	80.5
(F) SECOND FINAL FLOW PRESSURE	87	92.6
(G) FINAL CLOSED-IN PRESSURE	960	980.1
(H) FINAL HYDROSTATIC MUD	1510	1500.6

# TRILOBITE TESTING L.L.C.

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## Test Ticket

No 5957

Well Name & No. METCALF #2 Test No. 2 Date 5-25-93  
Company ADECO INC. E. L. CHAMBERS Zone Tested LAWS "A"  
Address 310 E. ASH OBERLIN KS. 67749 Elevation 2586 K.B.  
Co. Rep./Geo. CASEY GALLOWAY cont. EMPHASIS OIL OPER. #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 3 Twp. 2S Rge. 27W Co. DECATUR State KS.  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 3376 - 3436' Drill Pipe Size 4 1/2" X.H.  
Anchor Length 60' Top Choke - 1"  Bottom Choke - 3/4"   
Top Packer Depth 3371' Hole Size - 77/8"  Rubber Size - 6 3/4"   
Bottom Packer Depth 3376' Wt. Pipe I.D. - 2.7 Ft. Run NONE  
Total Depth 3436' Drill Collar - 2.25 Ft. Run NONE  
Mud Wt. 8.9 lb/gal. Viscosity 47 Filtrate 11.2 cc.  
Tool Open @ 5:42 P.M. Initial Blow Fair blow (6-7") Had 20-25' of solid fill on bitm. slowly sliding tool throughout 1st open.  
Final Blow Weak blow - (slow increase to 2 1/2")

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>140'</u>	<u>NONE.</u>	<u>No</u>
Rec. <u>78</u> Feet Of <u>W.M.</u>	%gas	%oil <u>35</u> %water <u>65</u> %mud
Rec. <u>62</u> Feet Of <u>W.M.</u>	%gas	%oil <u>25</u> %water <u>75</u> %mud
Rec. _____ Feet Of _____	%gas	%oil _____ %water _____ %mud
Rec. _____ Feet Of _____	%gas	%oil _____ %water _____ %mud
Rec. _____ Feet Of _____	%gas	%oil _____ %water _____ %mud

BHT 105 °F Gravity N.A. °API @ \_\_\_\_\_ °F Corrected Gravity N.A. °API  
RW 0.24 @ 74 °F Chlorides 31,000 ppm Recovery Chlorides 1,200 ppm System  
(A) Initial Hydrostatic Mud 1562 PSI Ak1 Recorder No. 13278 Range 4400  
(B) First Initial Flow Pressure 57 PSI @ (depth) 3433' w/Clock No. 22993  
(C) First Final Flow Pressure 62 PSI Ak1 Recorder No. 10248 Range 4400  
(D) Initial Shut-In Pressure 1004 PSI @ (depth) 3428' w/Clock No. 30410  
(E) Second Initial Flow Pressure 73 PSI Ak1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 87 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-In Pressure 960 PSI Initial Opening 30 Test   
(H) Final Hydrostatic Mud 1510 PSI Initial Shut-In 30 Jars \_\_\_\_\_

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Final Flow 60 Safety Joint \_\_\_\_\_  
Final Shut-In 60 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_

Approved By \_\_\_\_\_  
Our Representative [Signature]

Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_  
TOTAL PRICE \$ 600.00

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name METCALF #2 Test No. 3 Date 5-26-93  
Company ADECO INC & L. CHAMBERS Zone LANS "B"  
Address 310 E ASH OBERLIN KS 67749 Elevation 2586  
Co. Rep./Geo. CASEY GALLOWAY Cont. EMPHASIS OIL OPERATION #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 3 Twp. 2 S Rge. 27 W Co. DECATUR State KS

Interval Tested 3436-3476 Drill Pipe Size 4.5" XH  
Anchor Length 40 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3431 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3136 Mud Wt. 8.9 lb/Gal.  
Total Depth 3476 Viscosity 44 Filtrate 8.4

Tool Open @ 8:35 AM Initial Blow WEAK BLOW (1/2") SLID TOOL 7-8' TO BOTTOM

Final Blow WEAK BLOW (1/4") FLUSH TOOL 10 MINUTES INTO SECOND OPEN  
1-2" BLOW RETURNED AND DECREASED

Recovery - Total Feet 55 Flush Tool? YES

Rec. 55 Feet of SLIGHTLY OIL CUT MUD 5%OIL/95%MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 107 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 1,000 ppm Recovery Chlorides 700 ppm System

(A) Initial Hydrostatic Mud 1620.1 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 48.9 PSI @ (depth) 3473 w / Clock No. 22993

(C) First Final Flow Pressure 45.8 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 314.2 PSI @ (depth) 3468 w / Clock No. 30410

(E) Second Initial Flow Pressure 50.6 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

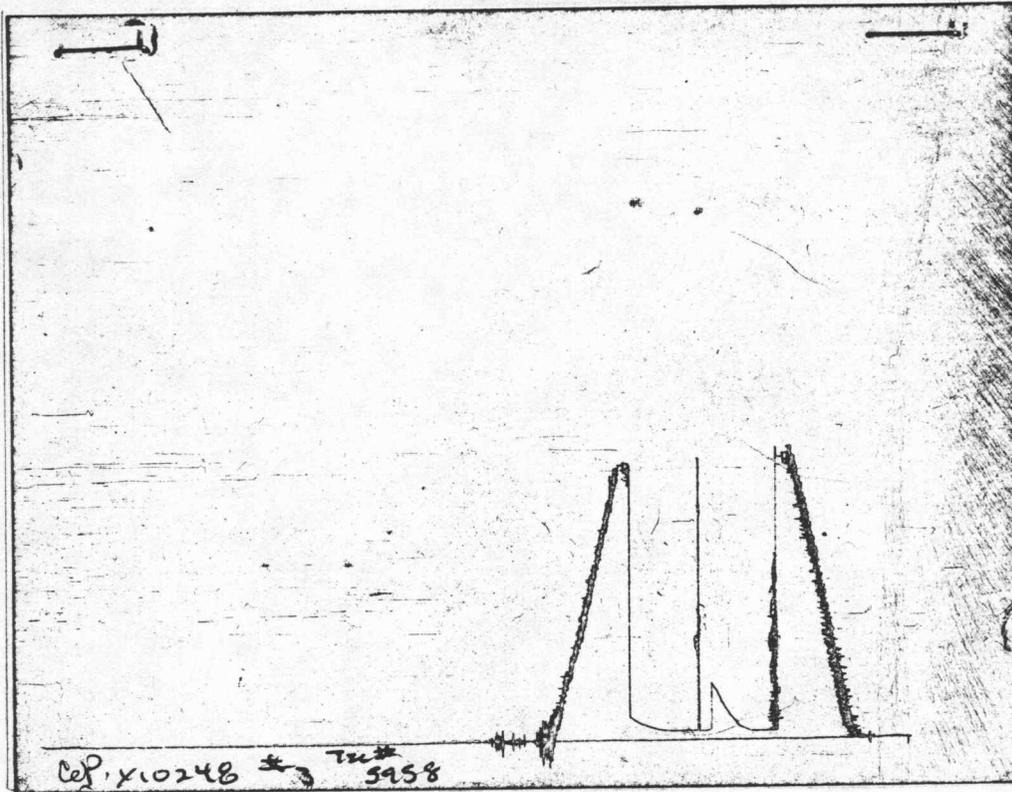
(F) Second Final Flow Pressure 57.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 130.2 PSI Initial Opening 15 Final Flow 30

(H) Final Hydrostatic Mud 571.0 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative GARY PEVOTEAUX

# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1624	1620.1
(B) FIRST INITIAL FLOW PRESSURE	37	48.9
(C) FIRST FINAL FLOW PRESSURE	37	45.8
(D) INITIAL CLOSED-IN PRESSURE	323	314.2
(E) SECOND INITIAL FLOW PRESSURE	41	50.6
(F) SECOND FINAL FLOW PRESSURE	46	57.2
(G) FINAL CLOSED-IN PRESSURE	139	130.2
(H) FINAL HYDROSTATIC MUD	1580	571

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 5958

Well Name & No. <u>METCALFE #2</u>	Test No. <u>3</u>	Date <u>5-26-93</u>
Company <u>ADECO INC. &amp; L. CHAMBERS</u>	Zone Tested <u>LAND. B</u>	
Address <u>310 E. ASH OBERLIN KS. 67749</u>	Elevation <u>2586 K.B.</u>	
Co. Rep./Geo. <u>CASEY GALLOWAY</u>	Cont. <u>EMPHASIS ON OPER. #8</u>	Est. Ft. of Pay _____
Location: Sec. <u>3</u> Twp. <u>25</u> Rge. <u>27W</u>	Co. <u>DECATUR</u> State <u>KS.</u>	
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3436-3476'</u>	Drill Pipe Size <u>4 1/2" x H.</u>
Anchor Length <u>40'</u>	Top Choke - 1" <input checked="" type="checkbox"/> Bottom Choke - 3/4" <input checked="" type="checkbox"/>
Top Packer Depth <u>3431'</u>	Hole Size - 7 7/8" <input checked="" type="checkbox"/> Rubber Size - 6 3/4" <input checked="" type="checkbox"/>
Bottom Packer Depth <u>3436'</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>None</u>
Total Depth <u>3476'</u>	Drill Collar - 2.25 Ft. Run <u>None</u>
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>44</u> Filtrate <u>8.4cc.</u>

Tool Open @ 8:35 A.M. Initial Blow Weak blow (1/2") Did tool 7-8' to  
btm.

Final Blow Weak blow (1/4") Flushed tool 10 mins in to 2<sup>nd</sup> open.  
1-2" below returned, and decreased.

Recovery - Total Feet <u>55'</u>	Feet of Gas in Pipe <u>Trace</u>	Flush Tool? <u>yes</u>
Rec. <u>55</u> Feet Of <u>S.O.C.M.</u>	%gas <u>5</u> %oil _____	%water <u>95</u> %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 107 °F Gravity N.A. °API @ \_\_\_\_\_ °F Corrected Gravity N.A. °API

RW N.A. @ 2 °F Chlorides 4,000 ppm Recovery Chlorides 700 ppm System

- (A) Initial Hydrostatic Mud 1624 PSI Ak1 Recorder No. 13278 Range 4400
- (B) First Initial Flow Pressure 37 PSI @ (depth) 3473' w/Clock No. 22993
- (C) First Final Flow Pressure 37 PSI AK1 Recorder No. 10248 Range 4400
- (D) Initial Shut-In Pressure 323 PSI @ (depth) 3468' w/Clock No. 30410
- (E) Second Initial Flow Pressure 41 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_
- (F) Second Final Flow Pressure 46 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_
- (G) Final Shut-In Pressure 139 PSI Initial Opening 15 Test
- (H) Final Hydrostatic Mud 1580 PSI Initial Shut-In 30 Jars \_\_\_\_\_

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Final Flow 30 Safety Joint \_\_\_\_\_  
Final Shut-In 30 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_

Approved By \_\_\_\_\_  
Our Representative [Signature]

Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_  
TOTAL PRICE  600.00

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name METCALF #2 Test No. 4 Date 5-26-93  
Company ADECO INC & L. CHAMBERS Zone LANS "C"  
Address 310 E ASH OBERLIN KS 67749 Elevation 2586  
Co. Rep./Geo. CASEY GALLOWAY Cont. EMPHASIS OIL OPERATION #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 3 Twp. 2 S Rge. 27 W Co. DECATUR State KS

Interval Tested 3468-3514 Drill Pipe Size 4.5" XH  
Anchor Length 46 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3463 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3468 Mud Wt. 9 lb/Gal.  
Total Depth 3514 Viscosity 39 Filtrate 11.2

Tool Open @ 9:36 PM Initial Blow WEAK BLOW (1-2") SLID TOOL 12-15' TO BOTTOM

Final Blow WEAK TO FAIR BLOW (SLOW INCREASE 5")

Recovery - Total Feet 82 Flush Tool? NO

Rec. 40 Feet of GAS IN PIPE  
Rec. 27 Feet of CLEAN OIL  
Rec. 55 Feet of SLIGHTLY OIL CUT MUD 6%OIL/94%MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 107 °F Gravity 37 °API @ 71 °F Corrected Gravity 36 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 1,000 ppm Recovery Chlorides 750 ppm System

(A) Initial Hydrostatic Mud 1645.3 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 29.6 PSI @ (depth) 3511 w / Clock No. 22993

(C) First Final Flow Pressure 54.2 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 324.8 PSI @ (depth) 3506 w / Clock No. 30410

(E) Second Initial Flow Pressure 35.2 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

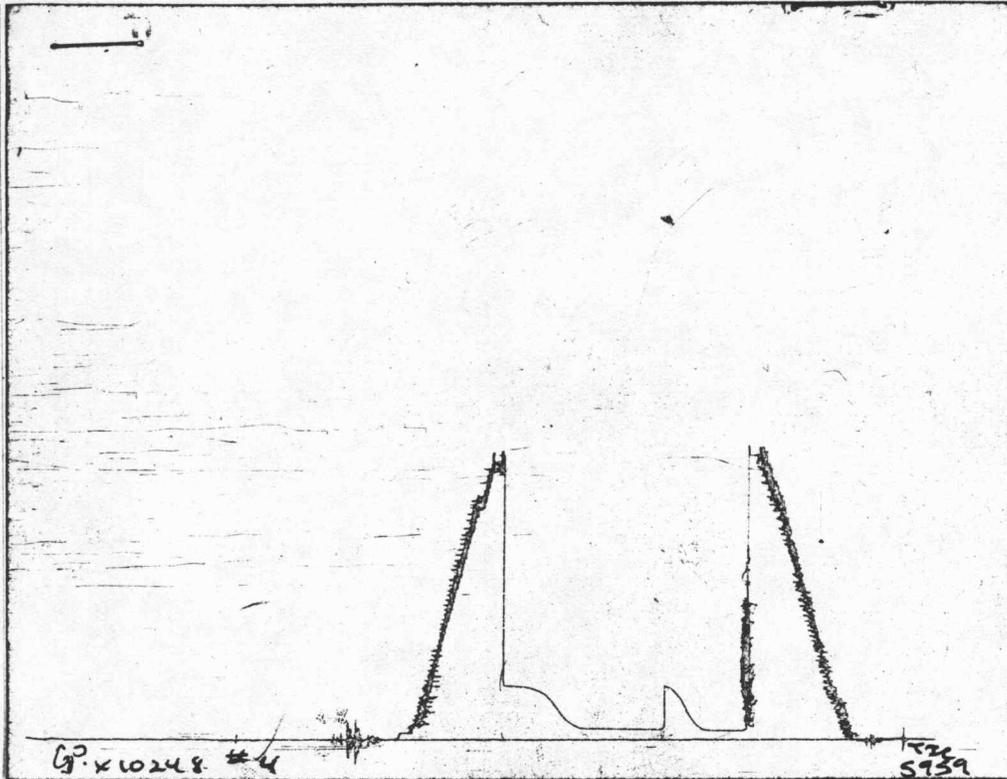
(F) Second Final Flow Pressure 49.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 319.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1600.5 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative GARY PEVOTEAUX

# CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1631	1645.3
(B) FIRST INITIAL FLOW PRESSURE	39	29.6
(C) FIRST FINAL FLOW PRESSURE	48	54.2
(D) INITIAL CLOSED-IN PRESSURE	306	324.8
(E) SECOND INITIAL FLOW PRESSURE	48	35.2
(F) SECOND FINAL FLOW PRESSURE	57	49.2
(G) FINAL CLOSED-IN PRESSURE	310	319.2
(H) FINAL HYDROSTATIC MUD	1591	1600.5

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 5959

Well Name & No. METCALFE # 2 Test No. 4 Date 5-26-93  
Company ADECO INC. & L. CHAMBERS Zone Tested LANS. "C"  
Address 310 E. ASH OBERLIN KS. 67749 Elevation 2586 K.B.  
Co. Rep./Geo. CASEY GALLOWAY cont. EMPHASIS OIL OPER<sup>TH</sup> Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 3 Twp. 2<sup>S</sup> Rge. 27<sup>W</sup> Co. DECATUR State KS.  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 3468 - 3514' Drill Pipe Size 4 1/2" x .14  
Anchor Length 46' Top Choke — 1"  Bottom Choke — 3/4"   
Top Packer Depth 3463' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
Bottom Packer Depth 3468' Wt. Pipe I.D. — 2.7 Ft. Run NONE  
Total Depth 3514' Drill Collar — 2.25 Ft. Run NONE  
Mud Wt. 9.0 lb/gal. Viscosity 39 Filtrate 11.2 cc.  
Tool Open @ 9:36 P.M. Initial Blow Weak below (1-2") did tool  
12-15' to bottom.  
Final Blow Weak to fair below (slow increase to 5")

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>82'</u>	<u>40</u>	<u>No</u>
Rec. <u>27</u> Feet Of <u>Clean Oil</u>	%gas <u>100</u> %oil <u>0</u> %water <u>0</u> %mud <u>0</u>	
Rec. <u>55</u> Feet Of <u>S.O.C.M.</u>	%gas <u>6</u> %oil <u>0</u> %water <u>94</u> %mud <u>0</u>	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 107 °F Gravity 37 °API @ 71 °F Corrected Gravity 36 °API  
RW N.A. @ \_\_\_\_\_ °F Chlorides 1000 ppm Recovery Chlorides 750 ppm System  
(A) Initial Hydrostatic Mud 1631 PSI Ak1 Recorder No. 13278 Range 4400  
(B) First Initial Flow Pressure 39 PSI @ (depth) 3511' w/Clock No. 22993  
(C) First Final Flow Pressure 48 PSI Ak1 Recorder No. 10248 Range 4400  
(D) Initial Shut-In Pressure 306 PSI @ (depth) 3506' w/Clock No. 30410  
(E) Second Initial Flow Pressure 48 PSI Ak1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 57 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-In Pressure 310 PSI Initial Opening 30 Test   
(H) Final Hydrostatic Mud 1591 PSI Initial Shut-In 30 Jars \_\_\_\_\_

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Final Flow 60 Safety Joint \_\_\_\_\_  
Final Shut-In 40 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_  
TOTAL PRICE \$ 600<sup>00</sup>

Approved By [Signature]  
Our Representative [Signature]  
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