

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name #1 G. HERRMAN Test No. 1 Date 9/13/92  
Company DAMAR RESOURCES, INC. Zone TOPEKA  
Address 234 W. 11th P.O. BOX 70 HAYS KS 67601 Elevation 2126  
Co. Rep./Geo. CURTIS LONGPINE Cont. \_\_\_\_\_ Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 3 Twp. 11S Rge. 19W Co. ELLIS State KS

Interval Tested 3092-3108 Drill Pipe Size 4.5" XH  
Anchor Length 16 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3087 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3092 Mud Wt. 8.7 lb/Gal.  
Total Depth 3108 Viscosity 44 Filtrate 9.2

Tool Open @ 5:50 PM Initial Blow WEAK STEADY SURFACE BLOW

Final Blow WEAK STEADY SURFACE BLOW

Recovery - Total Feet 30 Flush Tool? \_\_\_\_\_

Rec. 30 Feet of MUDDY WATER WITH SHOW OF OIL IN TOOL  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 104 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.231 @ 81 °F Chlorides 31000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1502.9 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 32.4 PSI @ (depth) 3096 w / Clock No. 27567

(C) First Final Flow Pressure 32.4 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 857.2 PSI @ (depth) 3104 w / Clock No. 25828

(E) Second Initial Flow Pressure 41.9 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

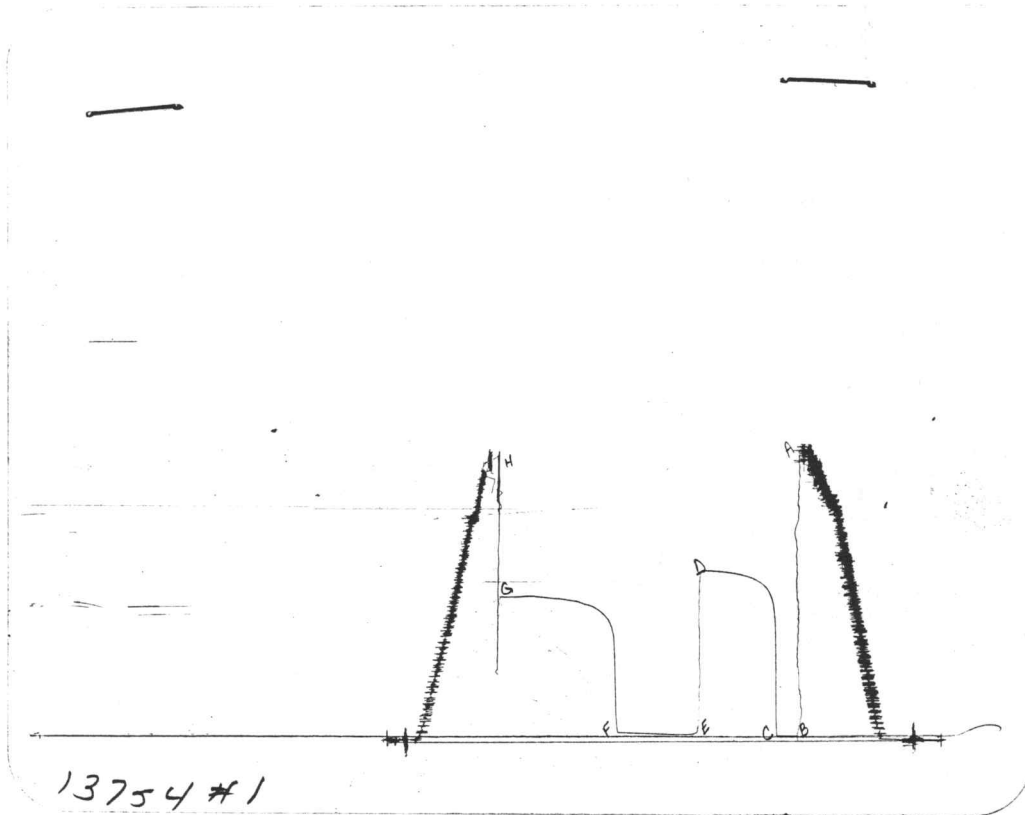
(F) Second Final Flow Pressure 41.9 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 735.8 PSI Initial Opening 15 Final Flow 60

(H) Final Hydrostatic Mud 1470.9 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1504	1502.9
(B) FIRST INITIAL FLOW PRESSURE	33	32.4
(C) FIRST FINAL FLOW PRESSURE	33	32.4
(D) INITIAL CLOSED-IN PRESSURE	852	857.2
(E) SECOND INITIAL FLOW PRESSURE	44	41.9
(F) SECOND FINAL FLOW PRESSURE	44	41.9
(G) FINAL CLOSED-IN PRESSURE	736	735.8
(H) FINAL HYDROSTATIC MUD	1472	1470.9

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## Test Ticket

№ 5410

Well Name & No. <u>#1 G. Herrman</u>	Test No. <u>1</u>	Date <u>9-13-92</u>
Company <u>Damar Res. Inc.</u>	Zone Tested <u>Topeka</u>	
Address <u>234 W. 11<sup>th</sup> P.O. Box 70, Hays, Ks 67601</u>	Elevation <u>2126 K.B.</u>	
Co. Rep./Geo. <u>Curtis Longpine</u> Cont.	Est. Ft. of Pay _____	
Location: Sec. <u>3</u> Twp. <u>11</u> Rge. <u>19</u> Co. <u>Ellis</u> State <u>Ks.</u>		
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3092-3108</u>	Drill Pipe Size <u>4.5 X H</u>
Anchor Length <u>16</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3087</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>3092</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3108</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>8.7</u> lb/gal.	Viscosity <u>44</u> Filtrate <u>9.2</u>
Tool Open @ <u>5:50 p.m.</u>	Initial Blow <u>Weak steady surface blow</u>

Final Blow Weak steady surface blow.

Recovery — Total Feet <u>30</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>30</u> Feet Of <u>mdy w/Tr w/show</u>	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of <u>oil in Tool</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 _____

BHT 104 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW 1231 @ 81 °F Chlorides 3,000 ppm Recovery Chlorides 5,000 ppm System

- (A) Initial Hydrostatic Mud 1504 PSI Ak1 Recorder No. 13754 Range 4000
- (B) First Initial Flow Pressure 33 PSI @ (depth) 3096 w/Clock No. 27567
- (C) First Final Flow Pressure 33 PSI AK1 Recorder No. 7437 Range 4200
- (D) Initial Shut-In Pressure 852 PSI @ (depth) 3104 w/Clock No. 25828
- (E) Second Initial Flow Pressure 44 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_
- (F) Second Final Flow Pressure 44 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_
- (G) Final Shut-In Pressure 736 PSI Initial Opening 15 Test \_\_\_\_\_
- (H) Final Hydrostatic Mud 1472 PSI Initial Shut-In 60 Jars \_\_\_\_\_

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 60 Safety Joint \_\_\_\_\_  
Final Shut-In 90 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_

Approved By \_\_\_\_\_  
Our Representative Dan Bangle

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

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name #1 G. HERRMAN Test No. 2 Date 9/14/92  
Company DAMAR RESOURCES, INC. Zone LKC-90'  
Address 234 W. 11th P.O. BOX 70 HAYS KS 67601 Elevation 2126  
Co. Rep./Geo. CURTIS LONGPINE Cont. \_\_\_\_\_ Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 3 Twp. 11S Rge. 19W Co. ELLIS State KS

Interval Tested 3343-3412 Drill Pipe Size 4.5" XH  
Anchor Length 69 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3338 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3343 Mud Wt. 9 lb/Gal.  
Total Depth 3412 Viscosity 44 Filtrate 10.4

Tool Open @ 8:48 PM Initial Blow WEAK-BUILDING TO 3"

Final Blow WEAK-BUILDING TO 1/2"

Recovery - Total Feet 140 Flush Tool? \_\_\_\_\_

Rec. 140 Feet of DRILLING MUD WITH FEW OIL SPECKS IN TOOL  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 109 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 1666.7 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 32.4 PSI @ (depth) 3347 w / Clock No. 27567

(C) First Final Flow Pressure 41.9 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 791.2 PSI @ (depth) 3408 w / Clock No. 25828

(E) Second Initial Flow Pressure 60.4 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

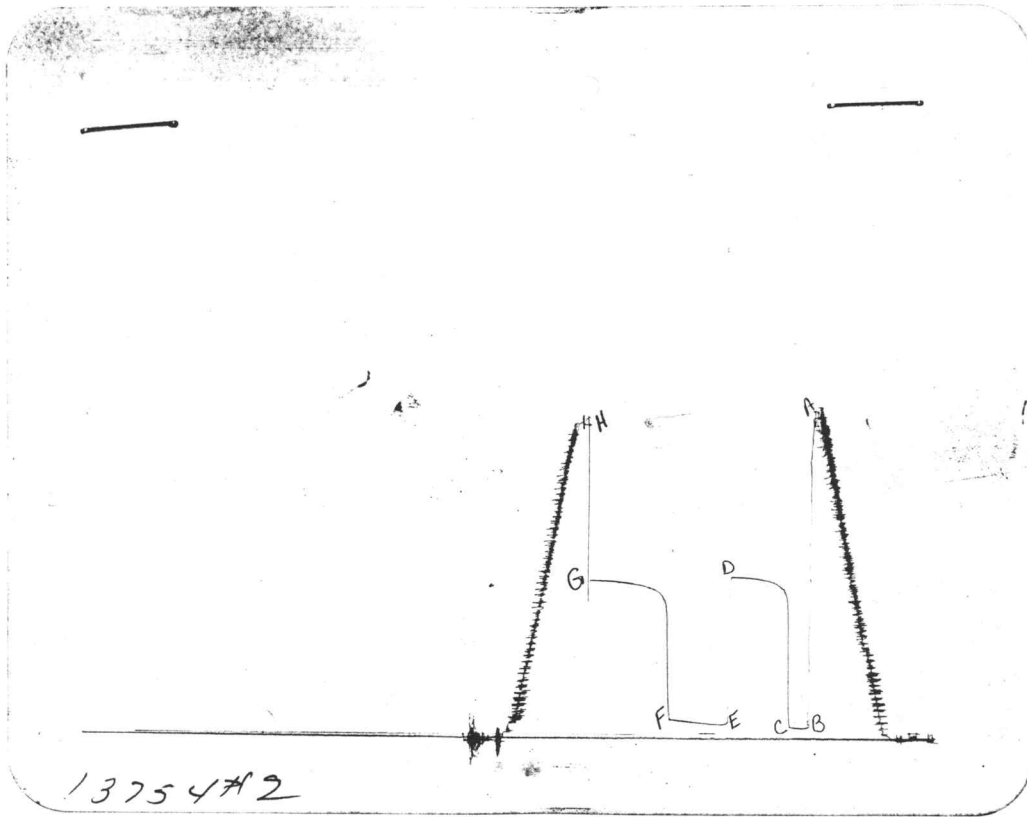
(F) Second Final Flow Pressure 87.3 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 779.6 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1619.7 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1662	1666.7
(B) FIRST INITIAL FLOW PRESSURE	33	32.4
(C) FIRST FINAL FLOW PRESSURE	44	41.9
(D) INITIAL CLOSED-IN PRESSURE	789	791.2
(E) SECOND INITIAL FLOW PRESSURE	55	60.4
(F) SECOND FINAL FLOW PRESSURE	88	87.3
(G) FINAL CLOSED-IN PRESSURE	778	779.6
(H) FINAL HYDROSTATIC MUD	1620	1619.7

Test Ticket

No 5411

Well Name & No. #1 G. Herrman Test No. 2 Date 9-14-92  
 Company Damar Res. Inc. Zone Tested 90' L.K.C.  
 Address \_\_\_\_\_ Elevation 2126 K.B.  
 Co. Rep./Geo. Curtis Longpine cont. Murfin #8 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 3 Twp. 11 Rge. 19 Co. Ellis State Ks.  
 No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 3343 - 3412 Drill Pipe Size 4.5 X 11  
 Anchor Length 69 Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
 Top Packer Depth 3338 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 3343 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 3412 Drill Collar — 2.25 Ft. Run \_\_\_\_\_  
 Mud Wt. 9 lb/gal. Viscosity 44 Filtrate 10.4  
 Tool Open @ 8:48 p.m. Initial Blow Weak-building to 3"

Final Blow Weak-building to 1/2"

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>140</u> Feet Of <u>D.M w/ few oil</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of <u>specks in tool</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 _____	

BHT 109 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 1662 PSI AK1 Recorder No. 13754 Range 4000  
 (B) First Initial Flow Pressure 33 PSI @ (depth) 3347 w/Clock No. 27567  
 (C) First Final Flow Pressure 44 PSI AK1 Recorder No. 7437 Range 4200  
 (D) Initial Shut-In Pressure 789 PSI @ (depth) 3408 w/Clock No. 25828  
 (E) Second Initial Flow Pressure 55 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 88 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 778 PSI Initial Opening 15 Test \_\_\_\_\_  
 (H) Final Hydrostatic Mud 1620 PSI Initial Shut-In 45 Jars \_\_\_\_\_

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Final Flow 45 Safety Joint \_\_\_\_\_  
 Final Shut-In 60 Straddle \_\_\_\_\_  
 Circ. Sub \_\_\_\_\_  
 Sampler \_\_\_\_\_

Approved By \_\_\_\_\_  
 Our Representative Dan Banoff

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