



TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUSE 'A' #10 Test No. 1 Date 9/22/94
Company AFG ENERGY, INC. Zone TOPEKA
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2199
Co. Rep./Geo. ED GLASSMAN Cont. DUKE #4 Est. Ft. of Pay _____
Location: Sec. 22 Twp. 14S Rge. 19W Co. ELLIS State KS

Interval Tested	<u>3219-3237</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>18</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>3214</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>3219</u>	Mud Wt.	<u>9.1</u> lb/Gal.
Total Depth	<u>3237</u>	Viscosity	<u>55</u>
		Filtrate	<u>9.6</u>

Tool Open @ 8:51 A.M. Initial Blow 1/2" BLOW BUILDING TO 6"

Final Blow WEAK SURFACE BLOW BUILDING TO 3"

Recovery - Total Feet 110 Flush Tool? NO

Rec. <u>110</u>	Feet of	<u>MUDDY WATER</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 104 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.137 @ 60 °F Chlorides 70000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1575.2 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 46.6 PSI @ (depth) 3224 w / Clock No. _____

(C) First Final Flow Pressure 51.8 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1002.9 PSI @ (depth) 3233 w / Clock No. _____

(E) Second Initial Flow Pressure 70.4 PSI AK1 Recorder No. _____ Range _____

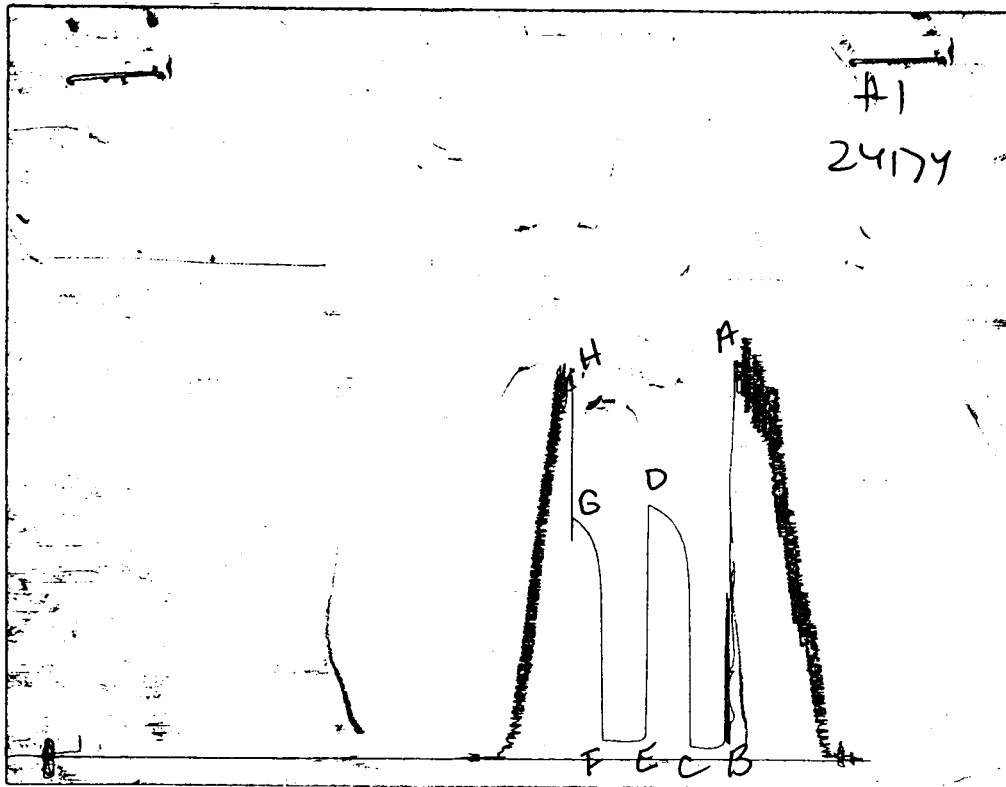
(F) Second Final Flow Pressure 74.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 953.0 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1510.8 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart 24174

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	1575	1575.2
(B) FIRST INITIAL FLOW PRESSURE	44	46.6
(C) FIRST FINAL FLOW PRESSURE	52	51.8
(D) INITIAL CLOSED-IN PRESSURE	1009	1002.9
(E) SECOND INITIAL FLOW PRESSURE	67	70.4
(F) SECOND FINAL FLOW PRESSURE	74	74.2
(G) FINAL CLOSED-IN PRESSURE	941	953
(H) FINAL HYDROSTATIC MUD	1545	1510.8

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7420

Well Name & No. <u>Krause 'A' #10</u>	Test No. <u>1</u>	Date <u>9-22-94</u>
Company <u>AFG Energy, Inc</u>	Zone Tested <u>Topokg</u>	
Address <u>P.O. Box 458 Hays, KS 67601</u>	Elevation <u>2199 KB</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Duckett</u>	Est. Ft. of Pay _____
Location: Sec. <u>22</u> Twp. <u>14s</u> Rge. <u>19w</u>	Co. <u>E113</u>	State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3219-3237</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>18</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3214</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>3219</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3237</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>11</u> lb/gal.	Viscosity <u>55</u> Filtrate <u>9.6</u>
Tool Open @ <u>8:51 AM</u>	Initial Blow <u>1/2" below building 60"</u>
Final Blow <u>1/2 weak surface blow building to 3"</u>	

Recovery — Total Feet <u>110</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>110</u> Feet Of <u>Muddy water</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 <u>104</u> °F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW <u>137</u> @ <u>60</u>	°F Chlorides <u>70,000</u> ppm Recovery _____	Chlorides _____ ppm System _____	

(A) Initial Hydrostatic Mud <u>1575</u>	PSI Ak1 Recorder No. <u>22150</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>44</u>	PSI @ (depth) <u>3224</u>	W/Clock No. _____
(C) First Final Flow Pressure <u>52</u>	PSI Ak1 Recorder No. <u>24174</u>	Range <u>3050</u>
(D) Initial Shut-In Pressure <u>1009</u>	PSI @ (depth) <u>3233</u>	W/Clock No. _____
(E) Second Initial Flow Pressure <u>67</u>	PSI Ak1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>74</u>	PSI @ (depth) _____	W/Clock No. _____
(G) Final Shut-In Pressure <u>941</u>	PSI Initial Opening <u>30</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>1545</u>	PSI Initial Shut-In <u>30</u>	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 <u>30</u>	Safety Joint _____
Final Shut-In <u>30</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>600</u>

Approved By Ed Glassman
 Our Representative Paul Simpson

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUSE 'A' #10 Test No. 2 Date 9/23/94
Company AFG ENERGY, INC. Zone LKC
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation _____
Co. Rep./Geo. ED GLASSMAN Cont. DUKE #4
Location: Sec. 22 Twp. 14S Rge. 19W Co. ELLIS State KS Est. Ft. of Pay _____

Interval Tested 3473-3570
Anchor Length 97
Top Packer Depth 3468
Bottom Packer Depth 3473
Total Depth 3570

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run _____
Mud Wt. 9.4 lb/Gal.
Viscosity 59 Filtrate 9.6

Tool Open @ 9:36 A.M. Initial Blow WEAK 1/2" BLOW BUILDING TO 1"

Final Blow SURFACE BLOW THROUGHOUT (SLIGHT PLUGGING ON FINAL FLOW)
*PRESSURES MAY BE TOO HIGH

Recovery - Total Feet 30 Flush Tool? NO

Rec. 30 Feet of SLIGHT OIL CUT MUD 5%OIL/95%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 104 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1795.2 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 74.7 PSI @ (depth) 3561 w / Clock No. 30416

(C) First Final Flow Pressure 74.7 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 382.1 PSI @ (depth) 3564 w / Clock No. 23935

(E) Second Initial Flow Pressure 102.4 PSI AK1 Recorder No. _____ Range _____

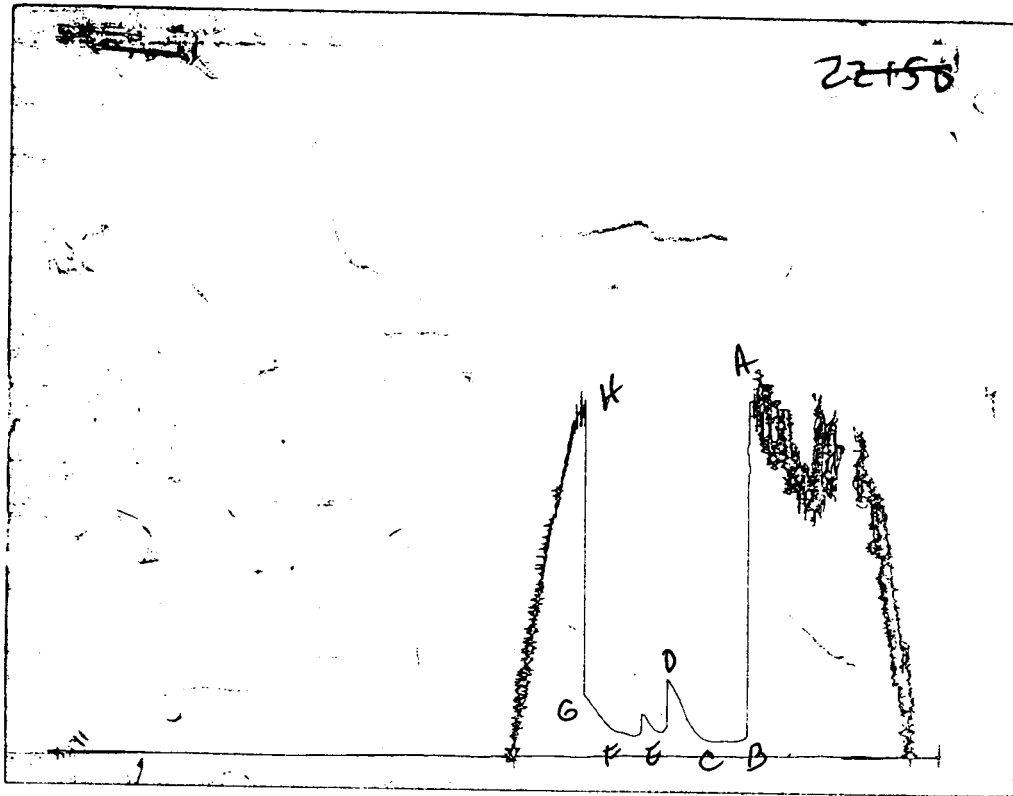
(F) Second Final Flow Pressure 102.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 307.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1755.8 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart 22150

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1781	1795.2
(B) FIRST INITIAL FLOW PRESSURE	67	74.7
(C) FIRST FINAL FLOW PRESSURE	67	74.7
(D) INITIAL CLOSED-IN PRESSURE	377	382.1
(E) SECOND INITIAL FLOW PRESSURE	104	102.4
(F) SECOND FINAL FLOW PRESSURE	104	102.4
(G) FINAL CLOSED-IN PRESSURE	293	307.4
(H) FINAL HYDROSTATIC MUD	1765	1755.8

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7421

Well Name & No. <u>Krause #10</u>	Test No. <u>2</u>	Date <u>9-23-94</u>
Company <u>AFG Energy Inc</u>	Zone Tested <u>LRL</u>	
Address _____	Elevation _____	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>22</u> Twp. <u>14s</u> Rge. <u>19w</u>	Co. <u>Ellr</u>	State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3473-3570 Drill Pipe Size 4 1/2 XA
 Anchor Length 97 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 3468 Hole Size — 77/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3473 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 3570 Drill Collar — 2.25 Ft. Run
 Mud Wt. 9.4 lb/gal. Viscosity 59 Filtrate 9.6
 Tool Open @ 9:36 AM Initial Blow weak 1/2" blow building 20"

Final Blow 5 surf air blow throughout
(slight plugging on final flow * - pressures maybe too high)

Recovery — Total Feet 30 Feet of Gas in Pipe _____ Flush Tool? _____
 Rec. 30 Feet Of 50 CM %gas 5 %Oil _____ %water 95 %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 104 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1781 PSI AK1 Recorder No. 22150 Range 3925
 (B) First Initial Flow Pressure 67 PSI @ (depth) 3561 w/Clock No. 30416
 (C) First Final Flow Pressure 67 PSI AK1 Recorder No. 24174 Range 3050
 (D) Initial Shut-In Pressure 377 PSI @ (depth) 3564 w/Clock No. 23935
 (E) Second Initial Flow Pressure 104 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 104 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 293 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 1765 PSI Initial Shut-In 36 Jars _____

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Final Flow 30 Safety Joint _____
 Final Shut-In 30 Straddle _____

Approved By Ed Glassman

Our Representative Paul Simpson

Sampler _____

Extra Packer _____

Other _____

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUSE 'A' #10 Test No. 3 Date 9/24/94
Company AFG ENERGY, INC. Zone LKC
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation _____
Co. Rep./Geo. ED GLASSMAN Cont. DUKE #4 Est. Ft. of Pay _____
Location: Sec. 22 Twp. 14S Rge. 19W Co. ELLIS State KS

Interval Tested 3613-3695 Drill Pipe Size 4.5" XH
Anchor Length 82 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3608 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3613 Mud Wt. 9.3 lb/Gal.
Total Depth 3695 Viscosity 49 Filtrate 8.4

Tool Open @ 2:51 A.M. Initial Blow 3/4" BLOW BUILDING TO BOTTOM OF BUCKET IN 9 MIN

Final Blow 2" BLOW BUILDING TO BOTTOM OF BUCKET IN 5 MIN

Recovery - Total Feet 80 Flush Tool? NO

Rec. 730 Feet of GAS IN PIPE
Rec. 20 Feet of HEAVY OIL CUT MUD 30%OIL/70%MUD
Rec. 60 Feet of GASSY HEAVY OIL CUT MUD 30%GAS/30%OIL/40%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 107 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1844.1 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 71.9 PSI @ (depth) 3481 w / Clock No. 23935

(C) First Final Flow Pressure 77.2 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 537.3 PSI @ (depth) 3491 w / Clock No. 30416

(E) Second Initial Flow Pressure 86.1 PSI AK1 Recorder No. _____ Range _____

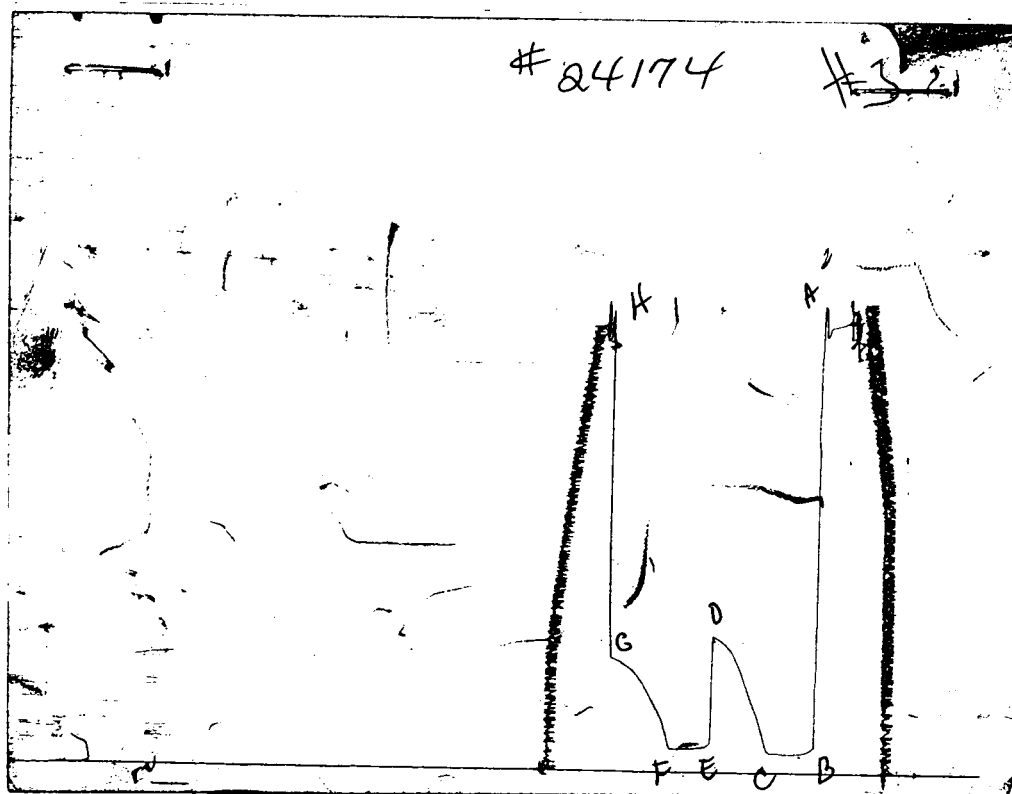
(F) Second Final Flow Pressure 91.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 447.1 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1828.0 PSI Initial Shut-in 45 Final Shut-in 95

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart 24174

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	1842	1844.1
(B) FIRST INITIAL FLOW PRESSURE	67	71.9
(C) FIRST FINAL FLOW PRESSURE	74	77.2
(D) INITIAL CLOSED-IN PRESSURE	537	537.3
(E) SECOND INITIAL FLOW PRESSURE	83	86.1
(F) SECOND FINAL FLOW PRESSURE	89	91.3
(G) FINAL CLOSED-IN PRESSURE	438	447.1
(H) FINAL HYDROSTATIC MUD	1826	1828

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7422

Well Name & No. <u>Krasse A #10</u>	Test No. <u>3</u>	Date <u>9-24-94</u>
Company <u>AFG Energy Inc</u>	Zone Tested <u>LKC</u>	
Address _____	Elevation _____	
Co. Rep./Geo. <u>Ed Hassman</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>22</u> Twp. <u>14s</u>	Rge. <u>19w</u> Co. <u>Ells</u>	State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____
Turnkey _____	Yes _____ No _____	Evaluation _____

Interval Tested 363-3695 Drill Pipe Size 4 1/2 X 1 1/4
 Anchor Length 82 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 3608 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3613 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 3695 Drill Collar — 2.25 Ft. Run

Mud Wt. 9.3 lb/gal. Viscosity 49 Filtrate 8.4
 Tool open @ 2:51 AM Initial Blow 3/4" blow building to bottom of bucket in 9 minutes
 Final Blow 2" blow building to bottom of bucket in 5 minutes

Recovery — Total Feet 80 Feet of Gas in Pipe 230 Flush Tool? _____
 Rec. 20 Feet Of HOCM %gas 30 %oil _____ %water 70 %mud _____
 Rec. 60 Feet Of very HOCM %gas 30 %oil _____ %water 40 %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 _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1842 PSI AK1 Recorder No. 22150 Range 3925
 (B) First Initial Flow Pressure 67 PSI @ (depth) 3481 w/Clock No. 23935
 (C) First Final Flow Pressure 74 PSI AK1 Recorder No. 24174 Range 3050
 (D) Initial Shut-In Pressure 537 PSI @ (depth) 3491 w/Clock No. 30416
 (E) Second Initial Flow Pressure 83 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 89 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 438 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 1826 PSI Initial Shut-In 45 Jars _____

Final Flow 30 Safety Joint _____
 Final Shut-In 45 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

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Approved By Ed Hassman
 Our Representative Paul Simpson

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUSE 'A' #10 Test No. 4 Date 9/24/94
Company AFG ENERGY, INC. Zone CONGLOMERATE
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation _____
Co. Rep./Geo. ED GLASSMAN Cont. DUKE #4
Location: Sec. 22 Twp. 14S Rge. 19W Co. ELLIS State KS Est. Ft. of Pay _____

Interval Tested 3766-3815 Drill Pipe Size 4.5" XH
Anchor Length 49 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3761 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3766 Mud Wt. 9.4 lb/Gal.
Total Depth 3815 Viscosity 49 Filtrate 9

Tool Open @ 11:53 P.M. Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 6 MIN (BLOW BA BUILT TO 1")
Final Blow 2" BLOW BUILDING TO BOTTOM OF BUCKET IN 6 MIN

Recovery - Total Feet 630 Flush Tool? NO

Rec. 170 Feet of GAS IN PIPE
Rec. 450 Feet of CLEAN GASSY OIL 10%GAS/90%OIL
Rec. 180 Feet of MUD CUT OIL 5%GAS/45%OIL/50%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 110 °F Gravity 31 °API @ 80 °F Corrected Gravity 29 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1931.7 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 90.6 PSI @ (depth) 3799 w / Clock No. 30416

(C) First Final Flow Pressure 146.1 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1184.9 PSI @ (depth) 3809 w / Clock No. 23935

(E) Second Initial Flow Pressure 195.1 PSI AK1 Recorder No. _____ Range _____

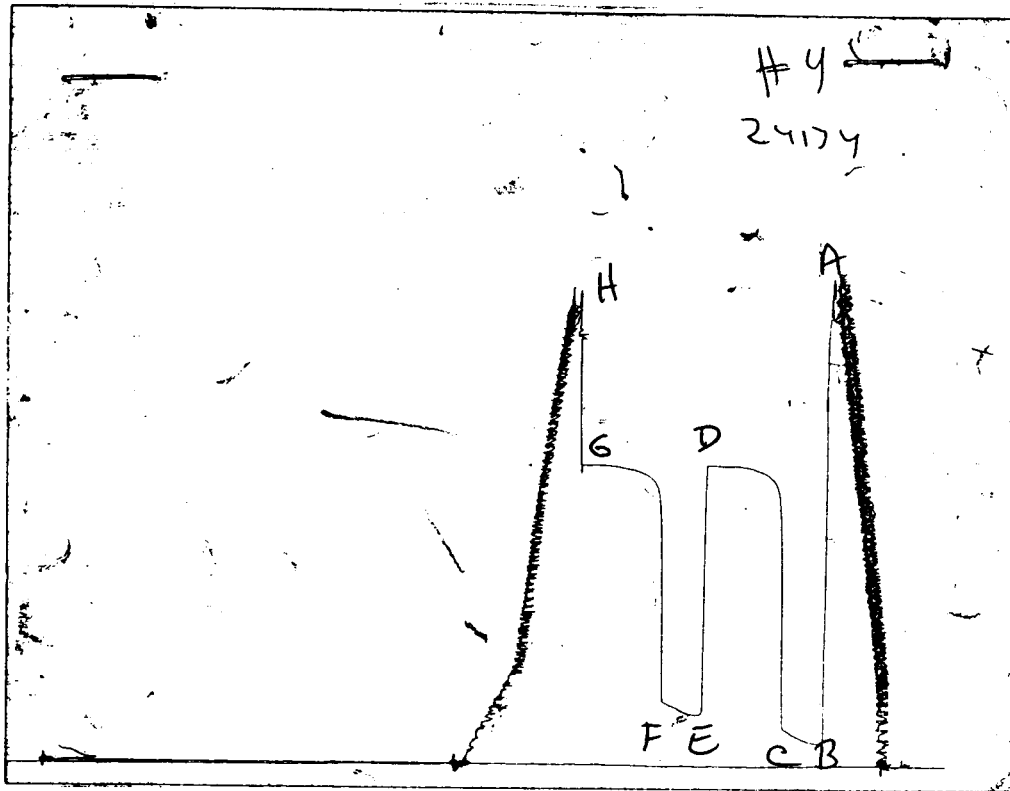
(F) Second Final Flow Pressure 250.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1181.2 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1872.5 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart 24174

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	1926	1931.7
(B) FIRST INITIAL FLOW PRESSURE	82	90.6
(C) FIRST FINAL FLOW PRESSURE	142	146.1
(D) INITIAL CLOSED-IN PRESSURE	1183	1184.9
(E) SECOND INITIAL FLOW PRESSURE	194	195.1
(F) SECOND FINAL FLOW PRESSURE	255	250.5
(G) FINAL CLOSED-IN PRESSURE	1175	1181.2
(H) FINAL HYDROSTATIC MUD	1865	1872.5

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7423

Well Name & No. <u>Krause A 10</u>	Test No. <u>4</u>	Date <u>9-24-94</u>
Company <u>A & G Energy Inc</u>	Zone Tested <u>Conglomerate Sand</u>	
Address _____	Elevation _____	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>22</u> Twp. <u>14S</u> Rge. <u>19W</u>	Co. <u>Ellis</u>	State <u>10</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3766-3815</u>	Drill Pipe Size <u>4 1/2 X 1 1/4</u>
Anchor Length <u>49</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3761</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3766</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3815</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.4</u> lb/gal.	Viscosity <u>49</u> Filtrate <u>9</u>
Tool Open @ <u>11:53 PM</u> Initial Blow <u>1" blow building to bottom of bucket in 6 minutes (blowback built tool)</u>	
Final Blow <u>2" blow building to bottom of bucket in 6 minutes</u>	

Recovery — Total Feet <u>630</u>	Feet of Gas In Pipe <u>170</u>	Flush Tool? _____
Rec. <u>450</u> Feet Of <u>clgassy oil</u>	10 %gas 90 %oil	%water _____ %mud _____
Rec. <u>180</u> Feet Of <u>MCO</u>	5 %gas 45 %oil	%water <u>50</u> %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>110</u> °F Gravity <u>31</u>	°API @ <u>80</u>	°F Corrected Gravity <u>29</u> °API _____

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System _____
(A) Initial Hydrostatic Mud <u>1926</u> PSI AK1 Recorder No. <u>22150</u> Range <u>3925</u>
(B) First Initial Flow Pressure <u>82</u> PSI @ (depth) <u>3799</u> w/Clock No. <u>30416</u>
(C) First Final Flow Pressure <u>142</u> PSI AK1 Recorder No. <u>24174</u> Range <u>3050</u>
(D) Initial Shut-In Pressure <u>1183</u> PSI @ (depth) <u>3869</u> w/Clock No. <u>23935</u>
(E) Second Initial Flow Pressure <u>194</u> PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>255</u> PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure <u>1175</u> PSI Initial Opening <u>30</u> Test _____
(H) Final Hydrostatic Mud <u>1865</u> PSI Initial Shut-In <u>60</u> 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 <u>30</u>	Safety Joint _____
	Final Shut-In <u>60</u>	Straddle _____
Approved By <u>Ed Glassman</u>		Circ. Sub _____
Our Representative <u>Paul Simpson</u>		Sampler _____
		Extra Packer _____
		Other _____
Printcraft Printers - Hays, KS		TOTAL PRICE \$ _____

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUSE 'A' #10 Test No. 5 Date 9/25/94
Company AFG ENERGY, INC. Zone ARBUCKLE
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation _____
Co. Rep./Geo. ED GLASSMAN Cont. DUKE #4 Est. Ft. of Pay _____
Location: Sec. 22 Twp. 14S Rge. 19W Co. ELLIS State KS

Interval Tested 3817-3824 Drill Pipe Size 4.5" XH
Anchor Length 7 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3810 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3817 Mud Wt. 9.2 lb/Gal.
Total Depth 3824 Viscosity 58 Filtrate 9.6

Tool Open @ 1:37 P.M. Initial Blow STRONG BLOW-BOTTOM OF BUCKET IN 90 SEC (SURFACE BLOW ON SHUT-IN)
Final Blow STRONG BOTTOM OF BUCKET IN 1 MIN

Recovery - Total Feet 1350 Flush Tool? NO

Rec. 10 Feet of CLEAN OIL
Rec. 140 Feet of SLIGHT OIL & MUD CUT WATER 5%OIL/85%WATER/10%MUD
Rec. 1200 Feet of SLIGHT OIL STAINED WATER 1%OIL/99a%WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.18 @ 97 °F Chlorides 26000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1931.7 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 155.2 PSI @ (depth) 3803 w / Clock No. 30416

(C) First Final Flow Pressure 323.6 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1166.8 PSI @ (depth) 3818 w / Clock No. 23839

(E) Second Initial Flow Pressure 440.2 PSI AK1 Recorder No. _____ Range _____

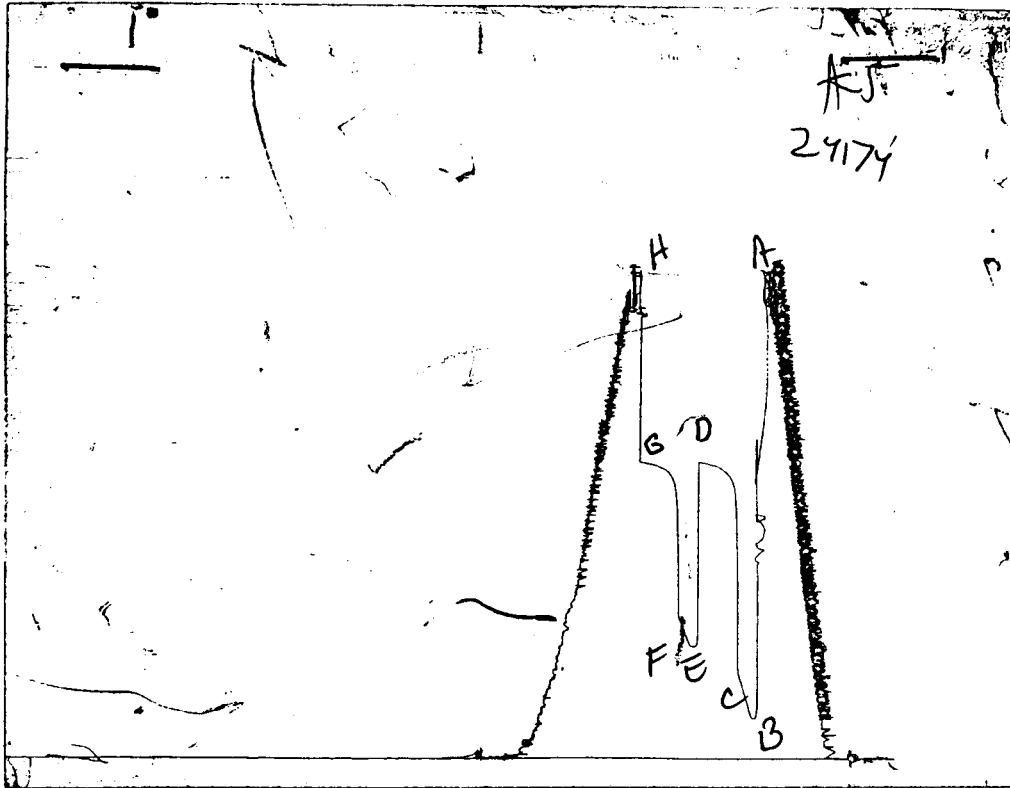
(F) Second Final Flow Pressure 559.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1168.3 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1927.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart 24174

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1926	1931.7
(B) FIRST INITIAL FLOW PRESSURE	149	155.2
(C) FIRST FINAL FLOW PRESSURE	323	323.6
(D) INITIAL CLOSED-IN PRESSURE	1168	1166.8
(E) SECOND INITIAL FLOW PRESSURE	438	440.2
(F) SECOND FINAL FLOW PRESSURE	553	559.5
(G) FINAL CLOSED-IN PRESSURE	1168	1168.3
(H) FINAL HYDROSTATIC MUD	1918	1927.9

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7424

Well Name & No. <u>Kranse A #10</u>	Test No. <u>5</u>	Date <u>9-25-94</u>
Company <u>AFG Energy, Inc</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation _____	
Co. Rep./Geo. <u>Ed Nassman</u>	cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>22</u> Twp. <u>14S</u>	Rge. <u>19W</u>	co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3817-3824</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>7</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3810</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3817</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth _____	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>58</u> Filtrate <u>9.6</u>
Tool Open @ <u>1:37 PM</u>	Initial Blow <u>strong blow - bottom of bucket in 90 seconds</u>
	(surface blow on shut in)
Final Blow <u>strong</u>	<u>- bottom of bucket in 1 minute</u>

Recovery — Total Feet <u>1350</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>10</u> Feet Of <u>clean oil</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>140</u> Feet Of <u>SO+MCW</u>	%gas <u>5</u> %oil <u>85</u> %water _____ %mud <u>10</u>	
Rec. <u>1200</u> Feet Of <u>slos w</u>	%gas <u>fr</u> %oil <u>99</u> %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT <u>111</u> °F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW <u>.18</u> @ <u>97</u> °F	Chlorides <u>26,000</u> ppm	Recovery Chlorides <u>6000</u> ppm	System _____
(A) Initial Hydrostatic Mud <u>1926</u>	PSI AK1 Recorder No. <u>22150</u>	Range <u>30416</u> <u>3925</u>	
(B) First Initial Flow Pressure <u>149</u>	PSI @ (depth) <u>3803</u>	w/Clock No. <u>30416</u>	
(C) First Final Flow Pressure <u>323</u>	PSI AK1 Recorder No. <u>24179</u>	Range <u>3050</u>	
(D) Initial Shut-In Pressure <u>1168</u>	PSI @ (depth) <u>3818</u>	w/Clock No. <u>23839</u>	
(E) Second Initial Flow Pressure <u>438</u>	PSI AK1 Recorder No. _____	Range _____	
(F) Second Final Flow Pressure <u>553</u>	PSI @ (depth) _____	w/Clock No. _____	
(G) Final Shut-In Pressure <u>1168</u>	PSI Initial Opening <u>15</u>	Test <u>600</u>	
(H) Final Hydrostatic Mud <u>1918</u>	PSI Initial Shut-In <u>30</u>	Jars _____	

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Approved By [Signature]

Our Representative [Signature]

Final Flow <u>15</u>	Safety Joint _____
Final Shut-In <u>30</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer <u>X</u> <u>100</u>
	Other _____
	TOTAL PRICE \$ _____