

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER A-2 Test No. 1 Date 1/23/94
Company AFG ENERGY, INC. Zone LWR TOPEKA
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1965
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3171-3226 Drill Pipe Size 4.5" XH
Anchor Length 55 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3166 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3171 Mud Wt. _____ 9 lb/Gal.
Total Depth 3226 Viscosity 42 Filtrate 10.8

Tool Open @ 10:45 PM Initial Blow WEAK 1/4" BLOW BUILDING TO 1/2"

Final Blow NO BLOW

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 98 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1557.0 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 51.1 PSI @ (depth) 3177 w / Clock No. 22336

(C) First Final Flow Pressure 39.2 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1027.1 PSI @ (depth) 3222 w / Clock No. 14074

(E) Second Initial Flow Pressure 60.1 PSI AK1 Recorder No. _____ Range _____

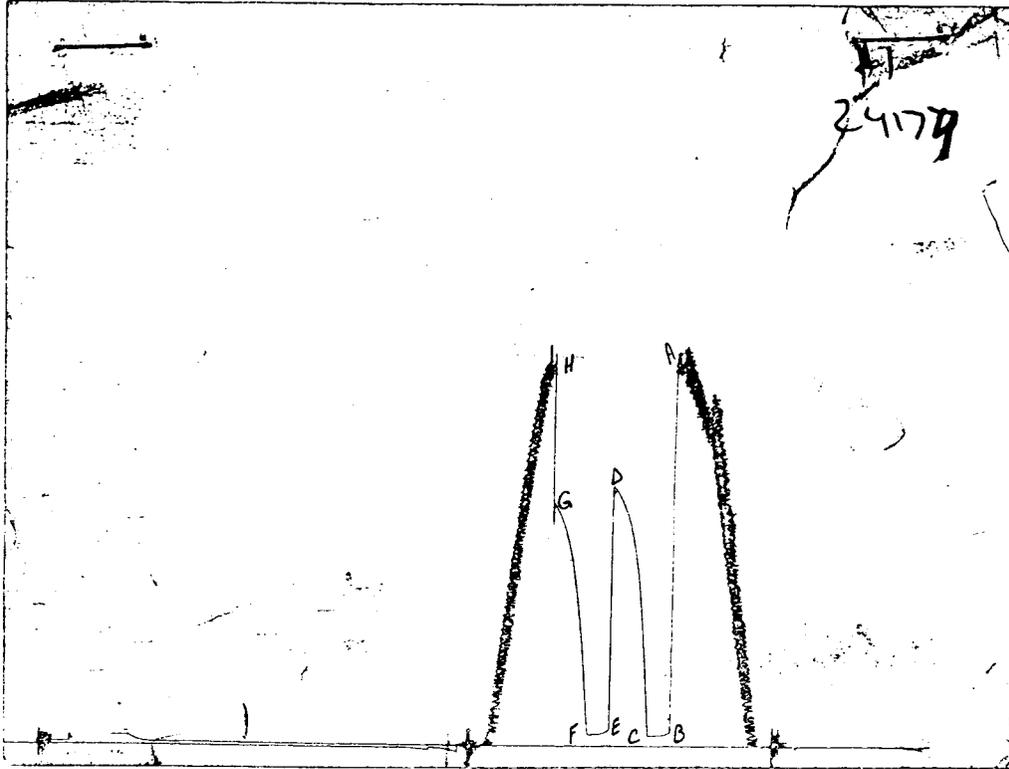
(F) Second Final Flow Pressure 44.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 961.3 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1539.6 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1568	1557
(B) FIRST INITIAL FLOW PRESSURE	30	51.1
(C) FIRST FINAL FLOW PRESSURE	37	39.2
(D) INITIAL CLOSED-IN PRESSURE	1024	1027.1
(E) SECOND INITIAL FLOW PRESSURE	37	60.1
(F) SECOND FINAL FLOW PRESSURE	37	44.4
(G) FINAL CLOSED-IN PRESSURE	949	961.3
(H) FINAL HYDROSTATIC MUD	1552	1539.6

TRILOBITE TESTING L.L.C.

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Test Ticket

No 6545

Well Name & No. <u>Kaiser A-2</u>		Test No. <u>1</u>	Date <u>1-23-94</u>
Company <u>ASG Energy, Inc</u>		Zone Tested <u>Low Packer + Torpedo</u>	
Address <u>PO Box 458 Hays KS 67601</u>		Elevation <u>1965 KB</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____	
Location: Sec. <u>28</u>	Twp. <u>16s</u>	Rge. <u>16w</u>	Co. <u>Rush</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____	Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3171-3226</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>55</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3166</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3171</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3226</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.0</u> lb / gal.	Viscosity <u>42</u> Filtrate <u>10.8</u>
Tool Open @ <u>10:45 PM</u>	Initial Blow <u>Weak 1/2" blow Building to 1/2"</u>

Final Blow no blow

Recovery — Total Feet <u>10</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>10</u> Feet Of <u>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 98 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

- (A) Initial Hydrostatic Mud 1568 PSI Ak1 Recorder No. 22150 Range 3925
- (B) First Initial Flow Pressure 30 PSI @ (depth) 3177 w/Clock No. 22336
- (C) First Final Flow Pressure 37 PSI Ak1 Recorder No. 24174 Range 3050
- (D) Initial Shut-In Pressure 1024 PSI @ (depth) 3222 w/Clock No. 14074
- (E) Second Initial Flow Pressure 37 PSI Ak1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 37 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 949 PSI Initial Opening 15 Test 600.00
- (H) Final Hydrostatic Mud 1552 PSI Initial Shut-In 30 Jars _____

Final Flow 15 Safety Joint _____
 Final Shut-In 30 Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By Ed Glassman
 Our Representative Paul Simpson
 Extra Packer _____
 Other _____

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.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER A-2 Test No. 2 Date 1/24/94
Company AFG ENERGY, INC. Zone LKC
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1965
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3225-3285 Drill Pipe Size 4.5" XH
Anchor Length 60 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3220 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3225 Mud Wt. 9.2 lb/Gal.
Total Depth 3285 Viscosity 46 Filtrate 10.6

Tool Open @ 9:49 Initial Blow 1/4" BLOW THROUGHOUT

Final Blow NO BLOW

Recovery - Total Feet 5 Flush Tool? NO

Rec. 5 Feet of MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 97 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1616.1 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 74.2 PSI @ (depth) 3267 w / Clock No. 25110

(C) First Final Flow Pressure 54.8 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 802.7 PSI @ (depth) 3282 w / Clock No. 14074

(E) Second Initial Flow Pressure 71.2 PSI AK1 Recorder No. _____ Range _____

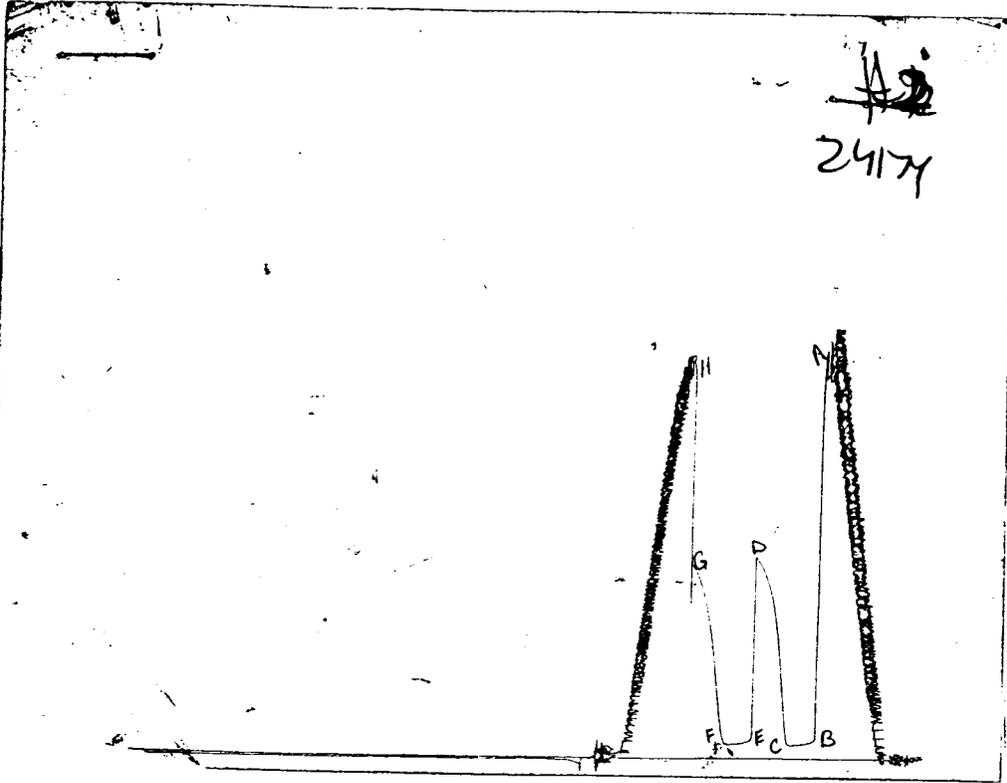
(F) Second Final Flow Pressure 57.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 767.7 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1604.7 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1628	1616.1
(B) FIRST INITIAL FLOW PRESSURE	37	74.2
(C) FIRST FINAL FLOW PRESSURE	44	54.8
(D) INITIAL CLOSED-IN PRESSURE	797	802.7
(E) SECOND INITIAL FLOW PRESSURE	44	71.2
(F) SECOND FINAL FLOW PRESSURE	44	57.8
(G) FINAL CLOSED-IN PRESSURE	774	767.7
(H) FINAL HYDROSTATIC MUD	1605	1604.7

TRILOBITE TESTING L.L.C.

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Test Ticket

No 6546

Well Name & No. <u>Kaiser A-2</u>	Test No. <u>2</u>	Date <u>1-24-94</u>
Company <u>AFG Energy, Inc</u>	Zone Tested <u>LKC</u>	
Address _____	Elevation <u>1965 KB</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>28</u>	Twp. <u>16s</u>	Rge. <u>16w</u>
	Co. <u>Rush</u>	State <u>KS</u>
No. of Copes _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____
		Yes _____ No _____ Evaluation _____

Interval Tested <u>3225-3285</u>	Drill Pipe Size <u>4 1/2" H</u>
Anchor Length <u>60</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3220</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3225</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3285</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>106</u>
Tool Open @ <u>9:49</u>	Initial Blow <u>1/2" blow + through out</u>

Final Blow NO blow

Recovery — Total Feet <u>5</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. _____ Feet Of <u>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 97 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

- (A) Initial Hydrostatic Mud 1628 PSI AK1 Recorder No. 22150 Range 3925
- (B) First Initial Flow Pressure 37 PSI @ (depth) 3267 w/Clock No. 25110
- (C) First Final Flow Pressure 44 PSI AK1 Recorder No. 24174 Range 3050
- (D) Initial Shut-In Pressure 797 PSI @ (depth) 3282 w/Clock No. 14074
- (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 774 PSI Initial Opening 15 Test _____
- (H) Final Hydrostatic Mud 1605 PSI Initial Shut-In 30 Jars _____

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Final Flow 15 Safety Joint _____
Final Shut-In 30 Straddle _____
Circ. Sub _____
Sampler _____
Extra Packer _____
Other _____
TOTAL DEVICES _____

Approved By E Glassman
Our Representative Paul Simpson

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER A-2 Test No. 3 Date 1/25/94
Company AFG ENERGY, INC. Zone LKC-"H"
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1965
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3290-3385 Drill Pipe Size 4.5" XH
Anchor Length 95 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3285 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3290 Mud Wt. 9.1 lb/Gal.
Total Depth 3385 Viscosity 43 Filtrate 11.8

Tool Open @ 12:59 AM Initial Blow WEAK 1/4" BLOW BUILDING TO 1"

Final Blow VERY WEAK SURFACE BLOW

Recovery - Total Feet 34 Flush Tool? NO

Rec. 34 Feet of MUD WITH FEW OIL SPOTS
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 101 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1665.4 PSI AK1 Recorder No. 24174 Range 3050

(B) First Initial Flow Pressure 83.9 PSI @ (depth) 3382 w / Clock No. 22336

(C) First Final Flow Pressure 69.0 PSI AK1 Recorder No. 22150 Range 3925

(D) Initial Shut-in Pressure 1099.7 PSI @ (depth) 3359 w / Clock No. 25110

(E) Second Initial Flow Pressure 91.3 PSI AK1 Recorder No. _____ Range _____

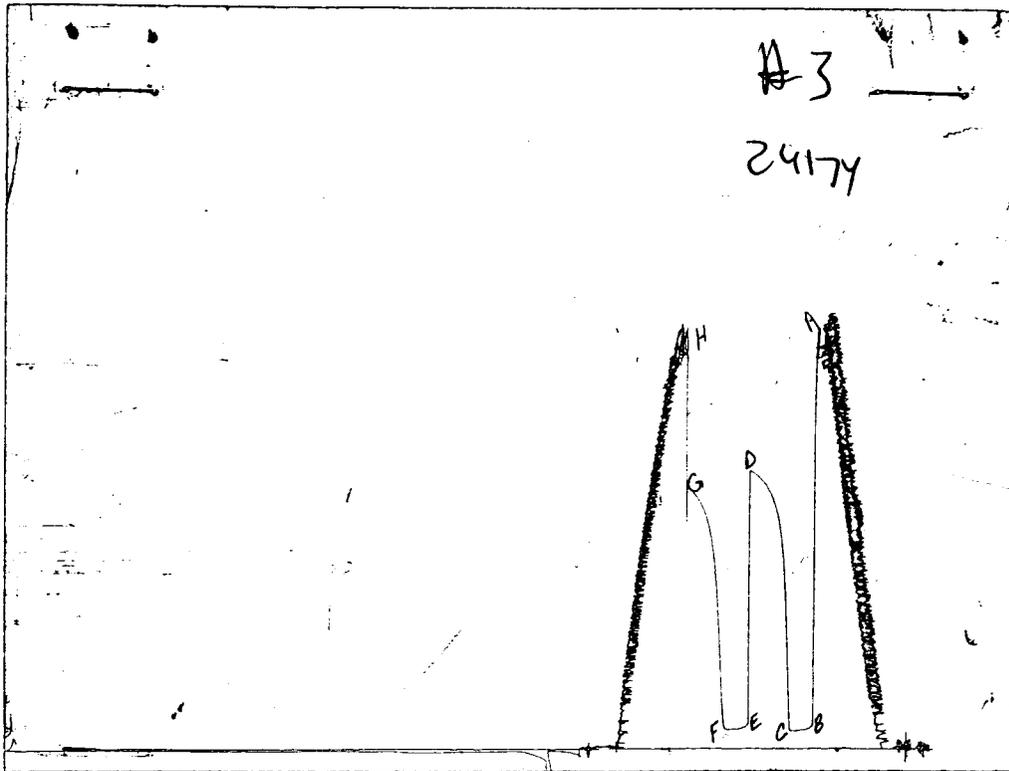
(F) Second Final Flow Pressure 71.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1034.7 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1636.6 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1666	1665.4
(B) FIRST INITIAL FLOW PRESSURE	52	83.9
(C) FIRST FINAL FLOW PRESSURE	52	69
(D) INITIAL CLOSED-IN PRESSURE	1093	1099.7
(E) SECOND INITIAL FLOW PRESSURE	59	91.3
(F) SECOND FINAL FLOW PRESSURE	67	71.9
(G) FINAL CLOSED-IN PRESSURE	1032	1034.7
(H) FINAL HYDROSTATIC MUD	1658	1636.6

TRILOBITE TESTING L.L.C.

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Test Ticket

No 6547

Well Name & No. <u>Kaiser A-2</u>		Test No. <u>3</u>	Date <u>1-25-94</u>
Company <u>AFR Energy</u>		Zone Tested <u>2KC H</u>	
Address _____		Elevation <u>1965 KB</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	cont. <u>Duke H</u>	Est. Ft. of Pay _____	
Location: Sec. <u>28</u>	Twp. <u>16S</u>	Rge. <u>16W</u>	Co. <u>Rush</u> State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____	Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3290-3385</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>95</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3285</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3290</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3385</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.11</u> lb/gal.	Viscosity <u>43</u> Filtrate <u>11.8</u>
Tool Open @ <u>12:59 AM</u>	Initial Blow <u>weak 1/4" blow build mg to 1"</u>

Final Blow 0 | weak surface blow

Recovery — Total Feet <u>34</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>34</u> Feet Of <u>mud w/ few oil spots</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 101 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud <u>1666</u> PSI	AK1 Recorder No. <u>24174</u>	Range <u>3050</u>
(B) First Initial Flow Pressure <u>52</u> PSI	@ (depth) <u>3382</u>	w/Clock No. <u>22336</u>
(C) First Final Flow Pressure <u>52</u> PSI	AK1 Recorder No. <u>22150</u>	Range <u>3925</u>
(D) Initial Shut-In Pressure <u>1093</u> PSI	@ (depth) <u>3359</u>	w/Clock No. <u>25110</u>
(E) Second Initial Flow Pressure <u>59</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>67</u> PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>1032</u> PSI	Initial Opening <u>15</u>	Test _____
(H) Final Hydrostatic Mud <u>1658</u> PSI	Initial Shut-In <u>30</u>	Jars _____

Final Flow 15 Safety Joint _____
 Final Shut-In 30 Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By Ed Glassman
 Our Representative Paul Simpson
 Extra Packer _____
 Other _____

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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER A-2 Test No. 4 Date 1/25/94
Company AFG ENERGY, INC. Zone LKC
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1965
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3385-3485 Drill Pipe Size 4.5" XH
Anchor Length 100 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3380 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3385 Mud Wt. _____ 9 lb/Gal.
Total Depth 3485 Viscosity 47 Filtrate 10.4

Tool Open @ 2:45 PM Initial Blow 1/4" BLOW THROUGHOUT

Final Blow NO BLOW

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 101 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1738.5 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 98.1 PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure 79.4 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 175.5 PSI @ (depth) 3482 w / Clock No. 14074

(E) Second Initial Flow Pressure 95.1 PSI AK1 Recorder No. _____ Range _____

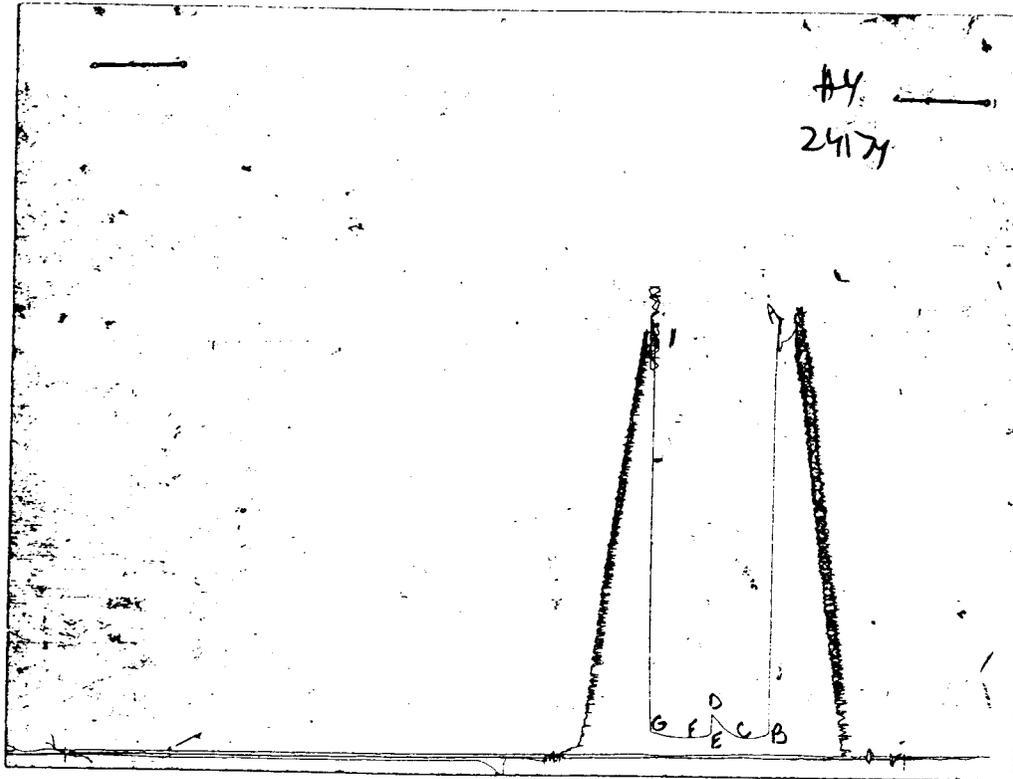
(F) Second Final Flow Pressure 82.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 104.1 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1727.1 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1742	1738.5
(B) FIRST INITIAL FLOW PRESSURE	59	98.1
(C) FIRST FINAL FLOW PRESSURE	67	79.4
(D) INITIAL CLOSED-IN PRESSURE	172	175.5
(E) SECOND INITIAL FLOW PRESSURE	67	95.1
(F) SECOND FINAL FLOW PRESSURE	67	82.4
(G) FINAL CLOSED-IN PRESSURE	97	104.1
(H) FINAL HYDROSTATIC MUD	1719	1727.1

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6548

Well Name & No. <u>Kaiser A-2</u>		Test No. <u>4</u>	Date <u>1-25-94</u>
Company <u>AFC Energy, Inc</u>		Zone Tested <u>LKC</u>	
Address _____		Elevation <u>1965 RB</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____	
Location: Sec. <u>28</u>	Twp. <u>16s</u>	Rge. <u>16W</u>	Co. <u>Rush</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____	Turnkey _____ Yes _____ No _____
Evaluation _____			

Interval Tested <u>3385-3485</u>	Drill Pipe Size <u>4 1/2 XI</u>
Anchor Length <u>100</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3380</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3385</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3485</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>47</u> Filtrate <u>10.4</u>
Tool Open @ <u>2:45 PM</u>	Initial Blow <u>1/4" blow - throughout</u>

Final Blow no blow

Recovery — Total Feet <u>10</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>10</u> Feet Of <u>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 101 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

- (A) Initial Hydrostatic Mud 1742 PSI AK1 Recorder No. 22150 Range 3925
- (B) First Initial Flow Pressure 59 PSI @ (depth) _____ w/Clock No. _____
- (C) First Final Flow Pressure 67 PSI AK1 Recorder No. 24174 Range 3050
- (D) Initial Shut-In Pressure 172 PSI @ (depth) 3482 w/Clock No. 14074
- (E) Second Initial Flow Pressure 67 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 67 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 93 PSI Initial Opening 15 Test _____
- (H) Final Hydrostatic Mud 1719 PSI Initial Shut-In 30 Jars _____

Final Flow 15 Safety Joint _____

Final Shut-In 30 Straddle _____

Circ. Sub _____

Sampler _____

Approved By _____

Our Representative Paul Sipes

Extra Packer _____

Other _____

TOTAL PRICE \$ _____

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER A-2 Test No. 5 Date 1/26/94
Company AFG ENERGY, INC. Zone CONG
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1965
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3481-3513 Drill Pipe Size 4.5" XH
Anchor Length 32 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3476 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3481 Mud Wt. 9 lb/Gal.
Total Depth 3513 Viscosity 47 Filtrate 12

Tool Open @ 1:52 AM Initial Blow WEAK 1/2" BLOW BUILDING TO 1"

Final Blow WEAK 1/4" BLOW

Recovery - Total Feet 20 Flush Tool? NO

Rec. 2 Feet of OIL
Rec. 18 Feet of SLTLY OIL CUT MUD-5%OIL/ 95% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 102 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1743.1 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 46.6 PSI @ (depth) 3486 w / Clock No. 14074

(C) First Final Flow Pressure 34.7 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 74.9 PSI @ (depth) 3510 w / Clock No. 25110

(E) Second Initial Flow Pressure 47.4 PSI AK1 Recorder No. _____ Range _____

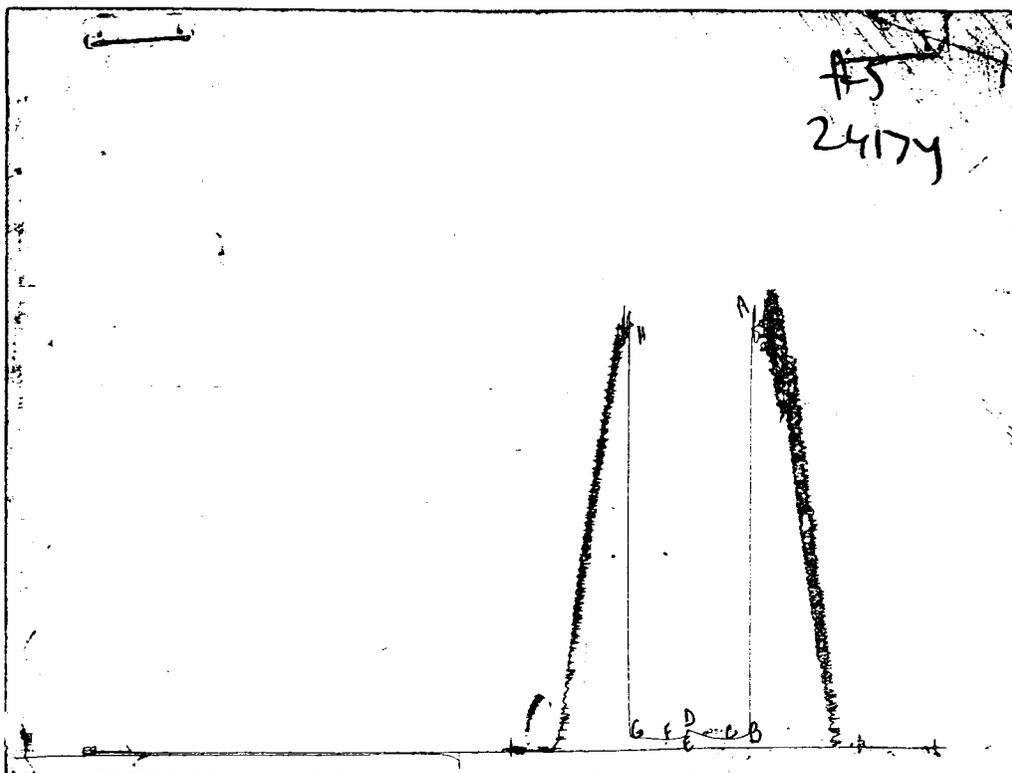
(F) Second Final Flow Pressure 37.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 49.6 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1727.1 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	1757	1743.1
(B) FIRST INITIAL FLOW PRESSURE	23	46.6
(C) FIRST FINAL FLOW PRESSURE	30	34.7
(D) INITIAL CLOSED-IN PRESSURE	67	74.9
(E) SECOND INITIAL FLOW PRESSURE	30	47.4
(F) SECOND FINAL FLOW PRESSURE	30	37.7
(G) FINAL CLOSED-IN PRESSURE	37	49.6
(H) FINAL HYDROSTATIC MUD	1734	1727.1

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6549

Well Name & No. <u>Kaiser A-2</u>	Test No. <u>5</u>	Date <u>1-26-94</u>
Company <u>AFG Energy, Inc</u>	Zone Tested <u>Coag</u>	
Address _____	Elevation <u>1968 KB</u>	
Co. Rep./Geo. <u>Ed Glasman</u>	cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>28</u>	Twp. <u>16s</u>	Rge. <u>16w</u>
	Co. <u>Rush</u>	State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____
		Yes _____ No _____ Evaluation _____

Interval Tested <u>3481-3513</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>32</u>	Top Choke — 1" _____ Bottom Choke — 1/4" _____
Top Packer Depth <u>3476</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3481</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3513</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>47</u> Filtrate <u>12</u>
Tool Open @ <u>1:52 AM</u>	Initial Blow <u>weak 1/2" blow building to 1"</u>
Final Blow <u>weak 1/4" blow</u>	

Recovery — Total Feet <u>20</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>2</u> Feet Of <u>oil</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>18</u> Feet Of <u>SOCM</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 _____	

BHT 102 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

- (A) Initial Hydrostatic Mud 1257 PSI AK1 Recorder No. 22150 Range 3925
- (B) First Initial Flow Pressure 23 PSI @ (depth) 3486 w/Clock No. 14074
- (C) First Final Flow Pressure 30 PSI AK1 Recorder No. 24174 Range 3050
- (D) Initial Shut-in Pressure 67 PSI @ (depth) 3510 w/Clock No. 25110
- (E) Second Initial Flow Pressure 30 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 30 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-in Pressure 37 PSI Initial Opening 15 Test _____
- (H) Final Hydrostatic Mud 1734 PSI Initial Shut-in 30 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 15 Safety Joint _____
Final Shut-in 30 Straddle _____
Circ. Sub _____
Sampler _____

Approved By Ed Glasman
Our Representative Paul Simpson

Extra Packer _____
Other _____

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER A-2 Test No. 6 Date 1/26/94
Company AFG ENERGY, INC. Zone ARBUCKLE
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1965
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3559-3580 Drill Pipe Size 4.5" XH
Anchor Length 21 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3552 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3559 Mud Wt. _____ lb/Gal.
Total Depth 3580 Viscosity _____ Filtrate _____

Tool Open @ 10:13 PM Initial Blow STRONG BLOW - OFF BOTTOM OF BUCKET IN 45 SECONDS
(1/4" BLOW BACK ON SHUTIN)

Final Blow STRONG BLOW-BOTTOM OF BUCKET IN 30 SECONDS/DIED TO 2"
BLOW AT END OF FINAL FLOW

Recovery - Total Feet 2460 Flush Tool? NO

Rec. 2460 Feet of SALT WATER- REVERSED OUT
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 112 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.27 @ 71 °F Chlorides 25000 ppm Recovery Chlorides 8500 ppm System

(A) Initial Hydrostatic Mud 1841.8 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 493.0 PSI @ (depth) _____ w / Clock No. 25109

(C) First Final Flow Pressure 825.5 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1152.5 PSI @ (depth) _____ w / Clock No. 25110

(E) Second Initial Flow Pressure 941.6 PSI AK1 Recorder No. _____ Range _____

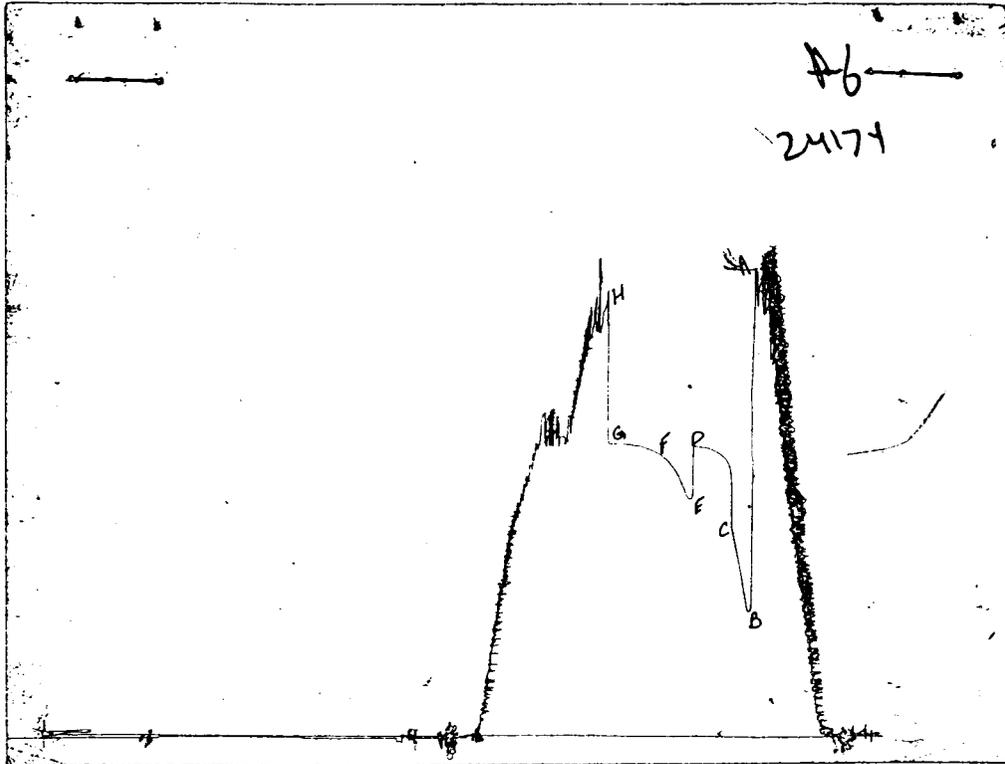
(F) Second Final Flow Pressure 1134.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1157.8 PSI Initial Opening 15 Final Flow 30

(H) Final Hydrostatic Mud 1759.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1849	1841.8
(B) FIRST INITIAL FLOW PRESSURE	484	493
(C) FIRST FINAL FLOW PRESSURE	827	825.5
(D) INITIAL CLOSED-IN PRESSURE	1145	1152.5
(E) SECOND INITIAL FLOW PRESSURE	933	941.6
(F) SECOND FINAL FLOW PRESSURE	1130	1134.4
(G) FINAL CLOSED-IN PRESSURE	1153	1157.8
(H) FINAL HYDROSTATIC MUD	1765	1759.9

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6550

Well Name & No. <u>Kaiser #A2</u>	Test No. <u>6</u>	Date <u>1-26-99</u>
Company <u>ARG Energy</u>	Zone Tested <u>A/Bucket</u>	
Address _____	Elevation <u>1968</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	cont. <u>Duke By</u>	Est. Ft. of Pay _____
Location: Sec. <u>28</u>	Twp. <u>16S</u>	Rge. <u>16W</u>
	co. <u>Rush</u>	State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____
Turnkey _____	Yes _____	No _____ Evaluation _____

Interval Tested <u>3559-3580</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>21</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3552</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3559</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3580</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. _____ lb/gal.	Viscosity _____ Filtrate _____

Tool Open @ 10:13 PM Initial Blow strong blow off bottom of bucket in 45 seconds
(1/2" blow back on shut-in)

Final Blow strong blow - bottom of bucket in 30 sec - died to 2"
blow at end of FF

Recovery — Total Feet <u>2460</u>	Feet of Gas In Pipe _____	Flush Tool? _____
Rec. <u>2460</u> Feet Of <u>Saltdwater</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of <u>(reversed)</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 112 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 2.7 @ 71 °F Chlorides 25,000 ppm Recovery Chlorides 8500 ppm System

- (A) Initial Hydrostatic Mud 1849 PSI AK1 Recorder No. 22150 Range 3925
- (B) First Initial Flow Pressure 489 PSI @ (depth) _____ w/Clock No. 25109
- (C) First Final Flow Pressure 827 PSI AK1 Recorder No. 24174 Range 3050
- (D) Initial Shut-In Pressure 1145 PSI @ (depth) _____ w/Clock No. 25110
- (E) Second Initial Flow Pressure 933 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 1130 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 1153 PSI Initial Opening 15 Test 600
- (H) Final Hydrostatic Mud 1765 PSI Initial Shut-In 30 Jars _____

Final Flow <u>30</u>	Safety Joint _____
Final Shut-In <u>30</u>	Straddle _____
	Circ. Sub <input checked="" type="checkbox"/> <u>35</u>

Approved By Paul Simpson

Our Representative Paul Simpson

Sampler Shake

Extra Packer 735 cc

Other 735 cc