

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER #1 Test No. 1 Date 5/10/93
Company AFG ENERGY, INC. Zone TOPEKA
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation _____
Co. Rep./Geo. ED GLASSMAN Cont. EMPHASIS #6 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 2951-2980 Drill Pipe Size 4.5" XH
Anchor Length 29 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 2946 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 2951 Mud Wt. 8.9 lb/Gal.
Total Depth 2980 Viscosity 44 Filtrate 9.2

Tool Open @ 4:56 PM Initial Blow WEAK 1/4" BLOW THROUGHOUT

Final Blow VERY WEAK SURFACE 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 91 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1394.1 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 39.2 PSI @ (depth) 2955 w / Clock No. 31154

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

(D) Initial Shut-in Pressure 64.5 PSI @ (depth) 2977 w / Clock No. 25814

(E) Second Initial Flow Pressure 39.2 PSI AK1 Recorder No. _____ Range _____

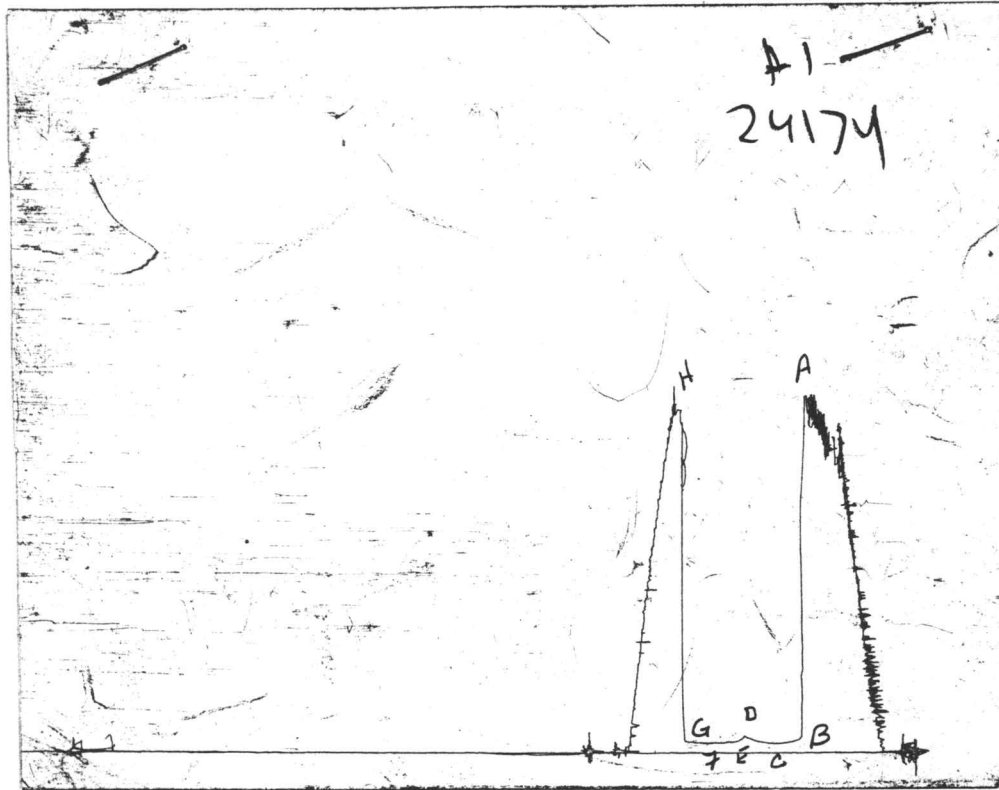
(F) Second Final Flow Pressure 39.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 41.8 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1337.1 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	1386	1394.1
(B) FIRST INITIAL FLOW PRESSURE	30	39.2
(C) FIRST FINAL FLOW PRESSURE	30	39.2
(D) INITIAL CLOSED-IN PRESSURE	59	64.5
(E) SECOND INITIAL FLOW PRESSURE	30	39.2
(F) SECOND FINAL FLOW PRESSURE	30	39.2
(G) FINAL CLOSED-IN PRESSURE	37	41.8
(H) FINAL HYDROSTATIC MUD	1333	1337.1

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5734

Well Name & No. <u>Kaiser #1</u>	Test No. <u>1</u>	Date <u>5-10-93</u>
Company <u>AFG Energy Inc</u>	Zone Tested <u>Tapeky</u>	
Address _____	Elevation _____	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Emphas #6</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>2951-2980</u>	Drill Pipe Size <u>4 1/2 x 1 1/2</u>
Anchor Length <u>29</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>2946</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>2951</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>2980</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>44</u> Filtrate <u>9.2</u>
Tool Open @ <u>4:56 PM</u>	Initial Blow <u>weak 'in' blow + through air</u>

Final Blow 1/2 weak surface blow

Recovery — Total Feet <u>5</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>5</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 91 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud <u>1386</u>	PSI Ak1 Recorder No. <u>22150</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>30</u>	PSI @ (depth) <u>2955</u>	w/Clock No. <u>31154</u>
(C) First Final Flow Pressure <u>30</u>	PSI AK1 Recorder No. <u>24174</u>	Range <u>3050</u>
(D) Initial Shut-In Pressure <u>59</u>	PSI @ (depth) <u>2977</u>	w/Clock No. <u>25814</u>
(E) Second Initial Flow Pressure <u>30</u>	PSI AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>30</u>	PSI @ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>37</u>	PSI Initial Opening <u>15</u>	Test <u>X</u> <u>600</u>
(H) Final Hydrostatic Mud <u>1333</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.

Approved By Ed Glassman

Our Representative Paul Simpson

Safety Joint _____
 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 600

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER #1 Test No. 2 Date 5/11/93
Company AFG ENERGY, INC. Zone TORONTO/'A-C
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1956
Co. Rep./Geo. ED GLASSMAN Cont. EMPHASIS #6 Est. Ft. of Pay 9
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested <u>3192-3290</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>98</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u> </u>
Top Packer Depth <u>3187</u>	Drill Collar - 2.25 Ft. Run <u> </u>
Bottom Packer Depth <u>3192</u>	Mud Wt. <u>8.9</u> lb/Gal.
Total Depth <u>3290</u>	Viscosity <u>44</u> Filtrate <u>12.2</u>

Tool Open @ 5:12 PM Initial Blow STRONG BLOW - OFF BOTTOM OF BUCKET IN 3 MINUTES
BLOW BACK BUILT TO 3/4"
Final Blow STRONG BLOW - BOTTOM OF BUCKET IN 2 MINUTES
BLOW BACK BUILT TO 4"

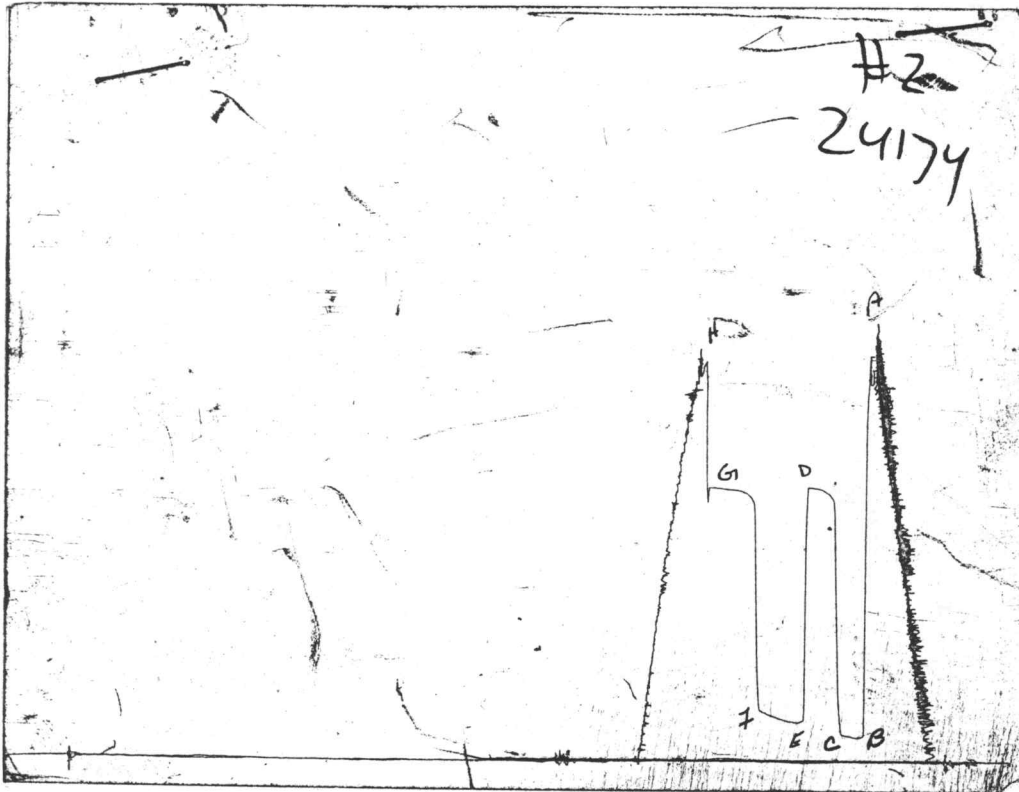
Recovery - Total Feet 390 Flush Tool? NO
830 GAS IN PIPE
Rec. 30 Feet of GASSY MUD 100%MUD
Rec. 60 Feet of SLIGHTLY OIL CUT MUD 10%OIL/90%MUD
Rec. 180 Feet of GASSY MUDDY OIL 30%GAS/50%OIL/20%MUD
Rec. 60 Feet of GASSY MUD & WATER CUT OIL 15%GAS/53%OIL/25%H2O/7%MUD
Rec. 60 Feet of SLIGHTLY OIL & MUD CUT WATER 15%OIL/85%H2O/5%MUD

BHT 102 °F Gravity °API @ °F Corrected Gravity 35 °API
RW 0.49 @ 66.5 °F Chlorides 14000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud <u>1589.6</u> PSI	AK1 Recorder No. <u>22150</u> Range <u>3925</u>
(B) First Initial Flow Pressure <u>100.4</u> PSI	@ (depth) <u>3197</u> w / Clock No. <u>31154</u>
(C) First Final Flow Pressure <u>104.9</u> PSI	AK1 Recorder No. <u>24174</u> Range <u>3050</u>
(D) Initial Shut-in Pressure <u>1074.8</u> PSI	@ (depth) <u>3287</u> w / Clock No. <u>8179</u>
(E) Second Initial Flow Pressure <u>156.7</u> PSI	AK1 Recorder No. <u> </u> Range <u> </u>
(F) Second Final Flow Pressure <u>198.2</u> PSI	@ (depth) <u> </u> w / Clock No. <u> </u>
(G) Final Shut-in Pressure <u>1071.8</u> PSI	Initial Opening <u>15</u> Final Flow <u>45</u>
(H) Final Hydrostatic Mud <u>1569.3</u> PSI	Initial Shut-in <u>30</u> Final Shut-in <u>30</u>

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1584	1589.6
(B) FIRST INITIAL FLOW PRESSURE	97	100.4
(C) FIRST FINAL FLOW PRESSURE	112	104.9
(D) INITIAL CLOSED-IN PRESSURE	1070	1074.8
(E) SECOND INITIAL FLOW PRESSURE	149	156.7
(F) SECOND FINAL FLOW PRESSURE	194	198.2
(G) FINAL CLOSED-IN PRESSURE	1062	1071.8
(H) FINAL HYDROSTATIC MUD	1560	1569.3

COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.
AFG ENERGY, INC.

KAISER #1

DST 2

28

16S

16W

RUSH KS

ELEVATION:	1956	KB	EST. PAY	9	FT
DATUM:	-1332		ZONE TESTED:	TORONTO/'A-C'	
TEST INTERVAL:	3192-3290		TIME INTERVALS:	15-30-45-30	
RECORDER DEPTH:	3287		VISCOSITY:	9.45	CP
BOTTOM HOLE TEMP:	102		HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	66			
TOTAL FEET OF RECOVERY:	390.00	CORRECTED PIPE FILLUP:	538.587	
TOTAL BARRELS OF RECOVERY:	5.55	CORR. BARRELS OF RECOVERY:	7.650	BBL
BARRELS IN DRILL PIPE:	5.55	API GRAVITY:	35	
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.368	
BARRELS IN DRILL COLLARS:	0.00			
GAS OIL RATIO:	11.95	CU.FT/BBL		
BUBBLE POINT PRESSURE:	99			
UNCORRECTED INITIAL PRODUCTION:			133.10	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			183.61	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			108.870	

INITIAL SLOPE	105.83	PSI/CYCL	FINAL SLOPE	51.95	PSI/CYCLE
INITIAL P*	1095.11	PSI	FINAL P*	1092.79	PSI

TRANSMISSIBILITY	574.71	(MD.-FT./CP.)
PERMEABILITY	603.47	(MD.)
INDICATED FLOW CAPACITY	5431.21	(MD.FT)
PRODUCTIVITY INDEX	0.65	(BARREL/DAY/PSI)
DAMAGE RATIO	3.15	
RADIUS OF INVESTIGATION	190.28	(FT,)
POTENTIOMETRIC SURFACE	1203.19	(FT.)
DRAWDOWN FACTOR	0.211	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	578.64	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	343.10	

INITIAL FLOW

RECORDER # 24174 DST # 2

TIME(MIN)	PRESSURE	<>PRESSURE
3	100.4	100.4
6	95.9	-4.5
9	94.4	-1.5
12	96.6	2.2
15	100.4	3.7
18	104.9	4.5

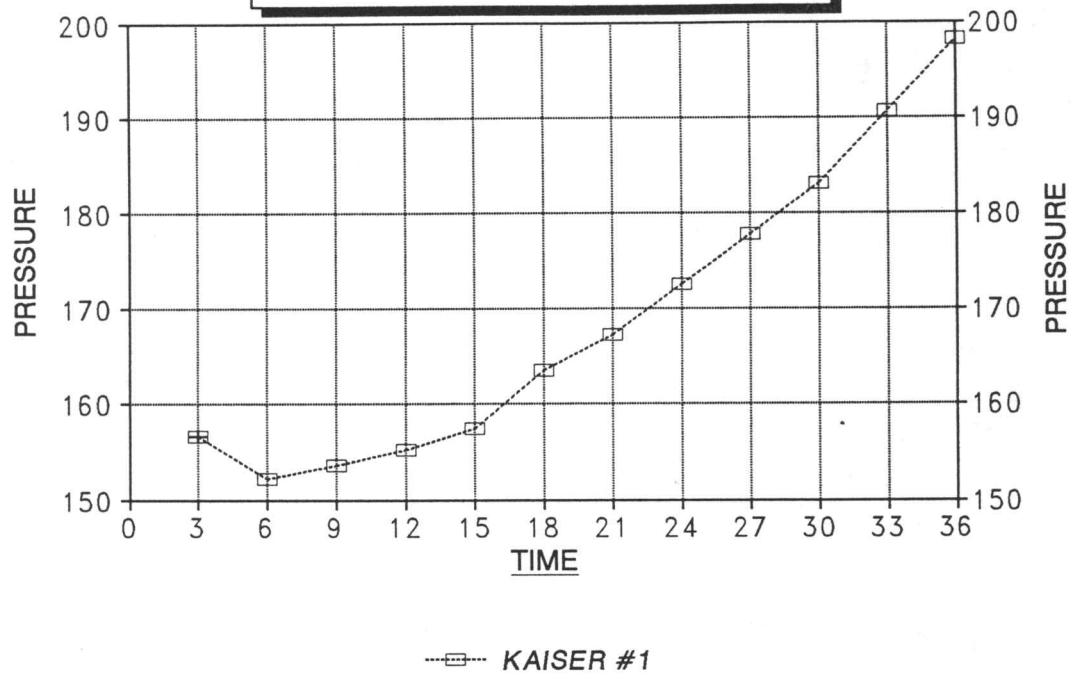
FINAL FLOW

RECORDER # 24174 DST # 2

	PRESSURE	<> PRESSURE
3	156.7	156.7164
6	152.2	-4.51657
9	153.7	1.50527
12	155.2	1.505525
15	157.5	2.258764
18	163.5	6.026173
21	167.3	3.768428
24	172.5	5.278472
27	177.8	5.281592
30	183.1	5.284712
33	190.7	7.555
36	198.2	7.561367

DELTA T DELTA P

FINAL FLOW / DST #2



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

108.870

KAISER #1
INITIAL

DST #2
SHUTIN
15 INITIAL FLOW TIME

SLOPE 105.8 PSI/CYCLE
P* 1095.11 PSI

Log <>

TIME(MIN) Pws (psi) Horn T PRESSURE Horn T

3 133.4 0.778 133.4 6
6 516.0 0.544 382.6 4
9 1033.2 0.426 517.3 3
12 1049.9 0.352 16.6 2
15 1061.2 0.301 11.3 2
X 18 1067.2 0.263 6.0 2
21 1071.0 0.234 3.8 2
24 1073.3 0.211 2.3 2
X 27 1074.8 0.192 1.5 2

KAISER #1
FINAL

DST #2
SHUTIN
60 TOTAL FLOW TIME

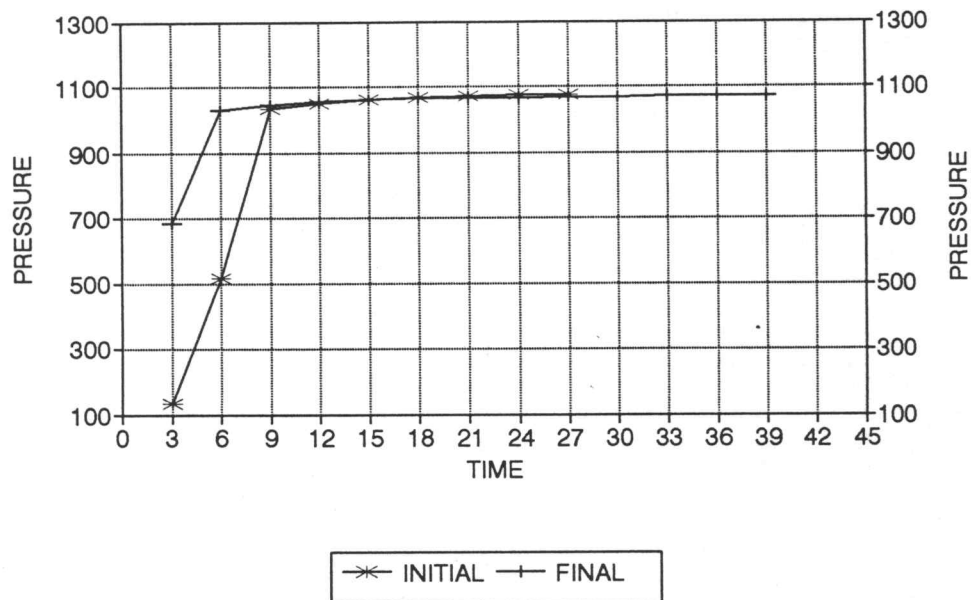
SLOPE 51.9 PSI/CYCLE
P* 1092.8 PSI

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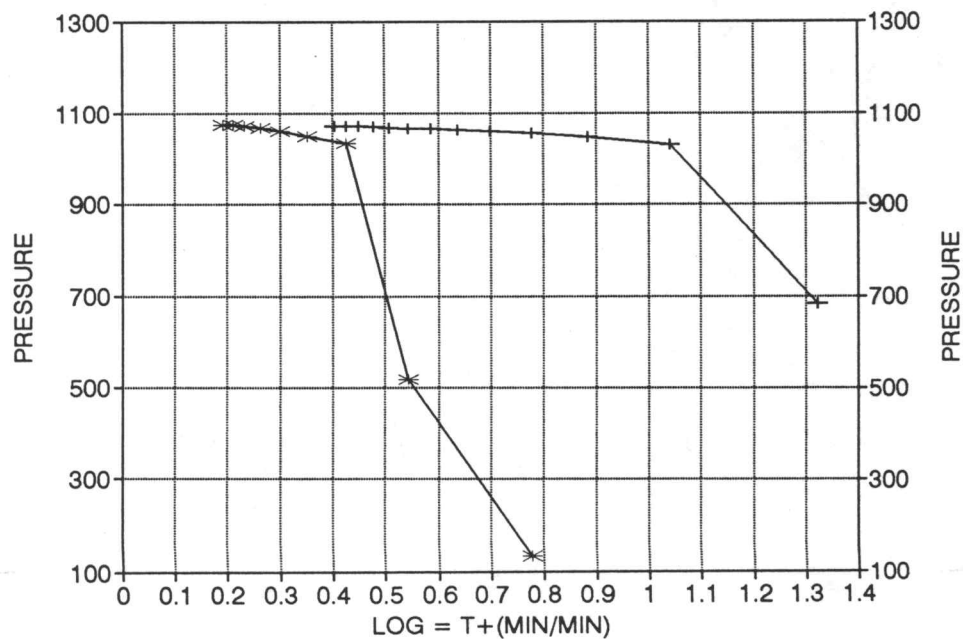
Pws (psi) Horn T PRESSURE Horn T

3 684.0 1.322 684.0 21
6 1031.0 1.041 347.0 11
X 9 1046.8 0.885 15.9 8
12 1055.2 0.778 8.3 6
15 1060.4 0.699 5.3 5
18 1063.5 0.637 3.0 4
21 1065.0 0.586 1.5 4
24 1065.0 0.544 0.0 4
27 1066.5 0.508 1.5 3
30 1068.8 0.477 2.3 3
33 1071.0 0.450 2.3 3
36 1071.8 0.426 0.8 3
X 39 1071.8 0.405 0.0 3

KAISER #1 / DST #2 DELTA T DELTA P

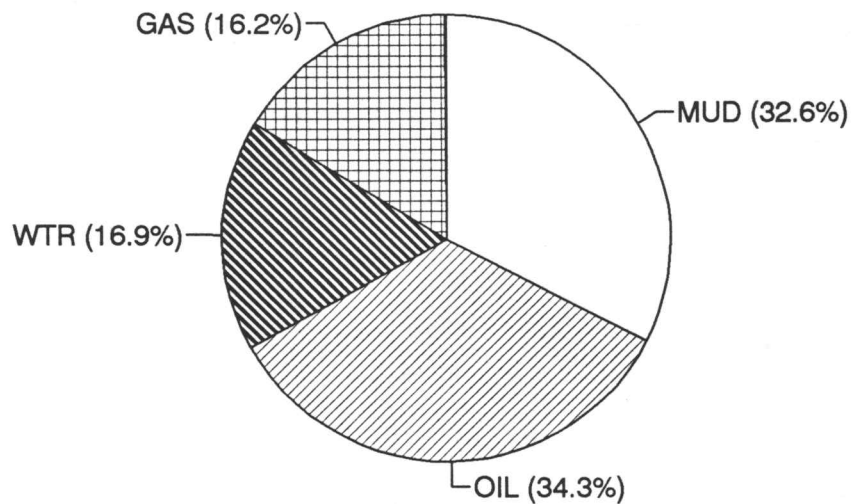


HORNER PLOT



DST #	CALCULATED RECOVERY ANALYSIS					DRILL	PIPE		
	2	TICKET					5735		
SAMPLE #	TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
1	30		0		0		0	100	30
2	60		0	10	6		0	90	54
3	180	30	54	50	90		0	20	36
4	60	15	9	53	31.8	25	15	7	4.2
5	60		0	10	6	85	51	5	3
TOTAL	390	16.153846	63	34.3	133.8	16.923077	66	32.6	127.2

		HRS	BBL/DAY
BBL OIL=	1.902636	*	1 45.663
BBL WATER=	0.93852	*	22.524
BBL MUD=	1.808784		
BBL GAS	0.89586		



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5735

Well Name & No. <u>Kaiser A1</u>	Test No. <u>2</u>	Date <u>5-11-93</u>
Company <u>A & G Energy Inc</u>	Zone Tested <u>LLC Tor - LLC A-C</u>	
Address _____	Elevation <u>1956 KB</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Emphasis #6</u>	Est. Ft. of Pay <u>9</u>
Location: Sec. <u>28</u> Twp. <u>16S</u>	Rge. <u>16W</u>	Co. <u>Rush</u> State <u>K</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No <u>X</u> Evaluation

Interval Tested 3192-3290 Drill Pipe Size 4 1/2 x 11
 Anchor Length 98 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 3187 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3192 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 3290 Drill Collar — 2.25 Ft. Run
 Mud Wt. 8.9 lb/gal. Viscosity 44 Filtrate 12.2

Tool Open @ 5:12 PM Initial Blow Strong blow - off bottom of bucket
in 3 minutes (blow back built to 3")
 Final Blow Strong blow - bottom of bucket in 2 minutes
(blowback built to 4")

Recovery — Total Feet 390 Feet of Gas in Pipe 830 Flush Tool? _____
 Rec. 30 Feet Of gassy mud %gas _____ %oil _____ %water _____ %mud _____
 Rec. 60 Feet Of SOCM %gas 10 %oil _____ %water 90 %mud _____
 Rec. 180 Feet Of usy MD 30 %gas 50 %oil _____ %water 20 %mud _____
 Rec. 60 Feet Of usy M & W CO 15 %gas 53 %oil 25 %water 7 %mud _____
 Rec. 60 Feet Of SO & MCW %gas 10 %oil 85 %water 5 %mud _____

BHT 102 °F Gravity _____ °API @ _____ °F Corrected Gravity 35? °API
 RW 49 @ 66.5 °F Chlorides 14000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1584 PSI Ak1 Recorder No. 22150 Range 3925
 (B) First Initial Flow Pressure 97 PSI @ (depth) 3197 w/Clock No. 31154
 (C) First Final Flow Pressure 112 PSI AK1 Recorder No. 24174 Range 3050
 (D) Initial Shut-In Pressure 1070 PSI @ (depth) 3287 w/Clock No. 8179
 (E) Second Initial Flow Pressure 149 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 194 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1062 PSI Initial Opening 15 Test 600
 (H) Final Hydrostatic Mud 1560 PSI Initial Shut-In 30 Jars _____

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Final Flow 45 34 Safety Joint _____
 Final Shut-In 30 34 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other 50
 TOTAL PRICE \$ 650

Approved By Ed Glassman
 Our Representative Ron Simpson
 Printcraft Printers - Hays, KS

WELL NAME _____ DST # 2 RECORDER # 24174

INIT. HYD. MUD. _____

FINAL HYD. MUD _____

INITIAL FLOW
MINUTES 15
INTERVAL _____

INITIAL SHUTIN
MINUTES 30
INTERVAL _____

FINAL FLOW
MINUTES 45
INTERVAL _____

FINAL SHUTIN
MINUTES 30
INTERVAL _____

<u>.135</u>	<u>—</u>	1 ✓ <u>.210</u>	<u>—</u>
<u>.129</u>	<u>.779</u>	2 ✓ <u>.204</u>	<u>.902</u>
<u>.127</u>	<u>1.082</u>	3 ✓ <u>.206</u>	✓ <u>1.359</u>
<u>.130</u>	<u>1.362</u>	4 ✓ <u>.208</u>	✓ <u>1.380</u>
<u>.135</u>	<u>1.384</u>	5 ✓ <u>.211</u>	✓ <u>1.391</u>
<u>.141</u>	<u>1.399</u>	6 ✓ <u>.219</u>	✓ <u>1.398</u>
	<u>1.407</u>	7 ✓ <u>.224</u>	✓ <u>1.402</u>
	<u>1.412</u>	8 ✓ <u>.231</u>	✓ <u>1.404</u>
	<u>1.415</u>	9 ✓ <u>.238</u>	✓ <u>1.404</u>
	<u>1.417</u>	10 ✓ <u>.245</u>	✓ <u>1.406</u>
		11 ✓ <u>.255</u>	✓ <u>1.409</u>
		12 ✓ <u>.265</u>	✓ <u>1.412</u>
		13	✓ <u>1.413</u>
		14	✓ <u>1.413</u>
		15	
		16	
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		21	
		22	
		23	
		24	
		25	
		26	
		27	

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER #1 Test No. 3 Date 5/12/93
Company AFG ENERGY, INC. Zone LKC
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1956
Co. Rep./Geo. ED GLASSMAN Cont. EMPHASIS #6 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested	<u>3305-3345</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>40</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>3300</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>3305</u>	Mud Wt.	<u>8.8</u> lb/Gal.
Total Depth	<u>3345</u>	Viscosity	<u>46</u> Filtrate _____

Tool Open @ 6:02 AM Initial Blow 1/4" BLOW BUILDING TO 1 1/2"

Final Blow SURFACE BLOW BUILDING TO 1"

Recovery - Total Feet 30 Flush Tool? NO

Rec. <u>30</u>	Feet of	<u>WATERY MUD</u>
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 1649.1 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 46.2 PSI @ (depth) 3309 w / Clock No. 8179

(C) First Final Flow Pressure 51.3 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1067.1 PSI @ (depth) 3341 w / Clock No. 31154

(E) Second Initial Flow Pressure 51.3 PSI AK1 Recorder No. _____ Range _____

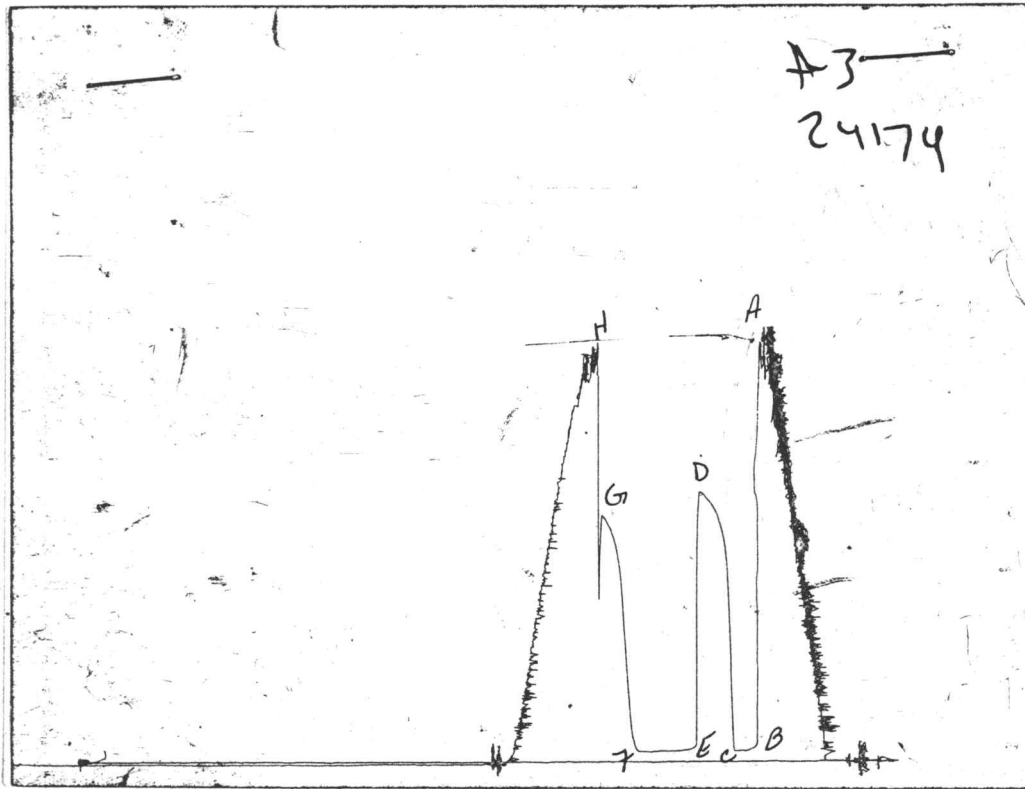
(F) Second Final Flow Pressure 51.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 971.2 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1639.7 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	1643	1649.1
(B) FIRST INITIAL FLOW PRESSURE	37	46.2
(C) FIRST FINAL FLOW PRESSURE	44	51.3
(D) INITIAL CLOSED-IN PRESSURE	1062	1067.1
(E) SECOND INITIAL FLOW PRESSURE	44	51.3
(F) SECOND FINAL FLOW PRESSURE	44	51.3
(G) FINAL CLOSED-IN PRESSURE	964	971.2
(H) FINAL HYDROSTATIC MUD	1634	1639.7

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5736

Well Name & No.	Kaiser A1	Test No.	3	Date	5-12-93
Company	A F G Energy, Inc.	Zone Tested	2 KC		
Address		Elevation	1956 KB		
Co. Rep./Geo.	Ed Glassman	Cont.	Emphasis #6	Est. Ft. of Pay	
Location: Sec.	28	Twp.	16s	Rge.	16w
				Co.	Ruh
				State	Ks
No. of Copies		Distribution Sheet	Yes	No	Turnkey
			Yes	No	Evaluation

Interval Tested	3305 - 3345	Drill Pipe Size	4 1/2 x 1 1/2
Anchor Length	40	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	3300	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	3305	Wt. Pipe I.D. — 2.7 Ft. Run	
Total Depth	3345	Drill Collar — 2.25 Ft. Run	
Mud Wt.	8.8	lb/gal.	Viscosity
Tool Open @	6:02 AM	Initial Blow	1 1/2" blow building to 1 1/2"
Final Blow	Surface blow building to 1"		

Recovery — Total Feet	30	Feet of Gas in Pipe		Flush Tool?	
Rec.	30	Feet Of	water, mud	%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	1643	PSI	AK1 Recorder No.	22150	Range	3925
(B) First Initial Flow Pressure	37	PSI	@ (depth)	3309	w/Clock No.	8179
(C) First Final Flow Pressure	44	PSI	AK1 Recorder No.	24174	Range	3050
(D) Initial Shut-In Pressure	1062	PSI	@ (depth)	3341	w/Clock No.	31154
(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	964	PSI	Initial Opening	15	Test	600
(H) Final Hydrostatic Mud	1634	PSI	Initial Shut-In	30	Jars	

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Approved By Ed Glassman
Our Representative Paul Simpson

Printcraft Printers - Hays, KS

Final Flow 45 Safety Joint _____
Final Shut-In 30 Straddle _____
Circ. Sub _____
Sampler _____
Extra Packer _____
Other _____
TOTAL PRICE \$ 600

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER #1 Test No. 4 Date 5/12/93
Company AFG ENERGY, INC. Zone LKC
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1956
Co. Rep./Geo. ED GLASSMAN Cont. EMPHASIS #6 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3358-3406 Drill Pipe Size 4.5" XH
Anchor Length 48 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3353 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3358 Mud Wt. 9.0 lb/Gal.
Total Depth 3406 Viscosity 46 Filtrate _____

Tool Open @ 6:42 PM Initial Blow WEAK 1/4" BLOW DIED IN 15 MINUTES

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 1671.5 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 49.1 PSI @ (depth) 3363 w / Clock No. 8179

(C) First Final Flow Pressure 49.1 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 256.3 PSI @ (depth) 3403 w / Clock No. 31154

(E) Second Initial Flow Pressure 49.1 PSI AK1 Recorder No. _____ Range _____

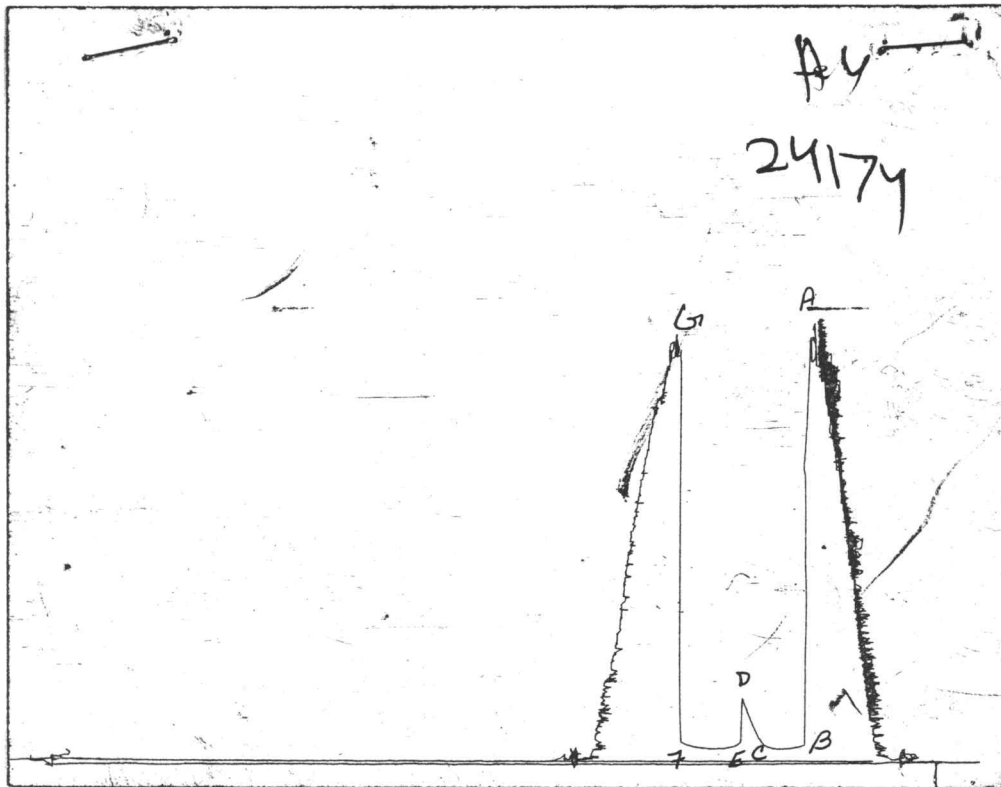
(F) Second Final Flow Pressure 49.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 72.3 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1632.4 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	1671.5
(B) FIRST INITIAL FLOW PRESSURE	44	49.1
(C) FIRST FINAL FLOW PRESSURE	44	49.1
(D) INITIAL CLOSED-IN PRESSURE	248	256.3
(E) SECOND INITIAL FLOW PRESSURE	44	49.1
(F) SECOND FINAL FLOW PRESSURE	44	49.1
(G) FINAL CLOSED-IN PRESSURE	67	72.3
(H) FINAL HYDROSTATIC MUD	1628	1632.4

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5737

Well Name & No. <u>Kaiser #1</u>	Test No. <u>4</u>	Date <u>5-12-93</u>
Company <u>AFG Energy, Inc</u>	Zone Tested <u>LKC</u>	
Address _____	Elevation <u>1956 KB</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Emphasis #6</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>3358-3406</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>48</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3353</u>	Hole Size — 77/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3358</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3406</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>?</u>
Tool Open @ <u>6:42 PM</u>	Initial Blow <u>weak 1/2" blow died in 15 minutes</u>

Final Blow no blow

Recovery — Total Feet <u>5</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>5</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 09 °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>22150</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>44</u>	PSI @ (depth) <u>3363</u>	w/Clock No. <u>8179</u>
(C) First Final Flow Pressure <u>44</u>	PSI Ak1 Recorder No. <u>24174</u>	Range <u>3050</u>
(D) Initial Shut-In Pressure <u>248</u>	PSI @ (depth) <u>3403</u>	w/Clock No. <u>31154</u>
(E) Second Initial Flow Pressure <u>44</u>	PSI Ak1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>44</u>	PSI @ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>67</u>	PSI Initial Opening <u>15</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>1628</u>	PSI Initial Shut-In <u>30</u>	Jars _____

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Final Flow <u>15</u>	Safety Joint _____
Final Shut-In <u>30</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>600</u>

Approved By [Signature]

Our Representative [Signature]

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KAISER #1 Test No. 5 Date 5/13/93
Company AFG ENERGY, INC. Zone CONGLOMERATE
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 1956
Co. Rep./Geo. ED GLASSMAN Cont. EMPHASIS #6 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested <u>3483-3531</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>48</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>3478</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>3483</u>	Mud Wt. <u>9.3</u> lb/Gal.
Total Depth <u>3531</u>	Viscosity <u>50</u> Filtrate <u>10.8</u>

Tool Open @ 10:01 AM Initial Blow SURFACE BLOW BUILDING TO 1"

Final Blow NO BLOW

Recovery - Total Feet 10 Flush Tool? NO

Rec. <u>10</u>	Feet of <u>MUD</u>
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 1769.3 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 51.2 PSI @ (depth) 3517 w / Clock No. 25814

(C) First Final Flow Pressure 51.2 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 82.3 PSI @ (depth) 3527 w / Clock No. 31154

(E) Second Initial Flow Pressure 51.2 PSI AK1 Recorder No. _____ Range _____

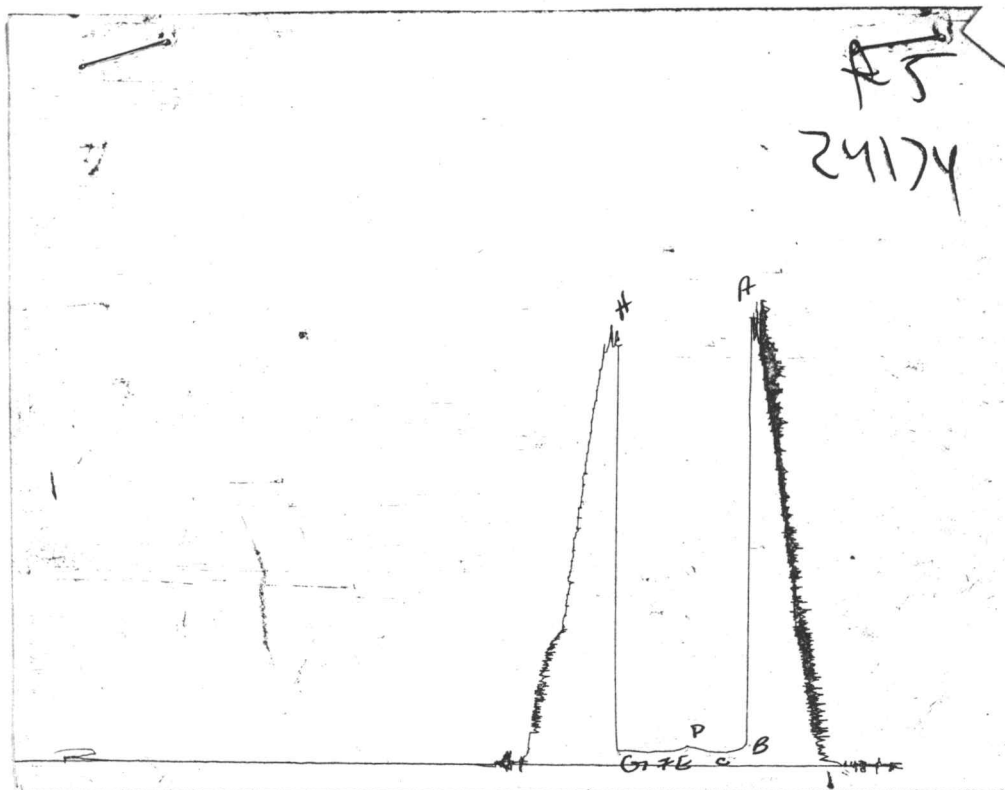
(F) Second Final Flow Pressure 51.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 56.9 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1716.3 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	1765	1769.3
(B) FIRST INITIAL FLOW PRESSURE	44	51.2
(C) FIRST FINAL FLOW PRESSURE	44	51.2
(D) INITIAL CLOSED-IN PRESSURE	74	82.3
(E) SECOND INITIAL FLOW PRESSURE	44	51.2
(F) SECOND FINAL FLOW PRESSURE	44	51.2
(G) FINAL CLOSED-IN PRESSURE	52	56.9
(H) FINAL HYDROSTATIC MUD	1712	1716.3

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5738

Well Name & No. <u>Kaiser #1</u>	Test No. <u>5</u>	Date <u>5-13</u>
Company <u>AFG Energy Inc</u>	Zone Tested <u>CONG</u>	
Address _____	Elevation <u>1956 KB</u>	
Co. Rep./Geo. <u>Ed Glasman</u>	Cont. <u>Emphasis #6</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>3483-3531</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>48</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3478</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3483</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3531</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>50</u> Filtrate <u>108</u>
Tool Open @ <u>10:01 AM</u>	Initial Blow <u>surface blow building to 1"</u>
Final Blow <u>NO blow</u>	

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 <u>101</u> °F Gravity _____	°API @ _____ °F Corrected Gravity _____	°API _____

RW _____ @ _____ °F Chlorides _____	ppm Recovery _____ Chlorides _____	ppm System _____
(A) Initial Hydrostatic Mud <u>1765</u>	PSI Ak1 Recorder No. <u>22150</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>44</u>	PSI @ (depth) <u>3517</u>	w/Clock No. <u>25814</u>
(C) First Final Flow Pressure <u>44</u>	PSI AK1 Recorder No. <u>24174</u>	Range <u>3050</u>
(D) Initial Shut-In Pressure <u>24</u>	PSI @ (depth) <u>3527</u>	w/Clock No. <u>31154</u>
(E) Second Initial Flow Pressure <u>44</u>	PSI AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>44</u>	PSI @ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>52</u>	PSI Initial Opening <u>15</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>1712</u>	PSI Initial Shut-In <u>30</u>	Jars _____

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Final Flow <u>15</u>	Safety Joint _____
Final Shut-In <u>30</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>6000</u>

Approved By Ed Glasman

Our Representative Paul Simpson