

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LEGLEITER "B" #1 Test No. 1 Date 2/2/94
Company AFG ENERGY, INC. Zone WINFIELD
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2090
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay
Location: Sec. 26 Twp. 16S Rge. 18W Co. RUSH State KS

Interval Tested 2010-2116 Drill Pipe Size 4.5" XH
Anchor Length 106 Wt. Pipe I.D. - 2.7 Ft. Run
Top Packer Depth 2005 Drill Collar - 2.25 Ft. Run 120
Bottom Packer Depth 2010 Mud Wt. lb/Gal.
Total Depth 2116 Viscosity Filtrate

Tool Open @ 12:35 PM Initial Blow WEAK-BUILDING TO 8" FAIR BLOW
Final Blow WEAK-BUILDING TO 8" FAIR BLOW

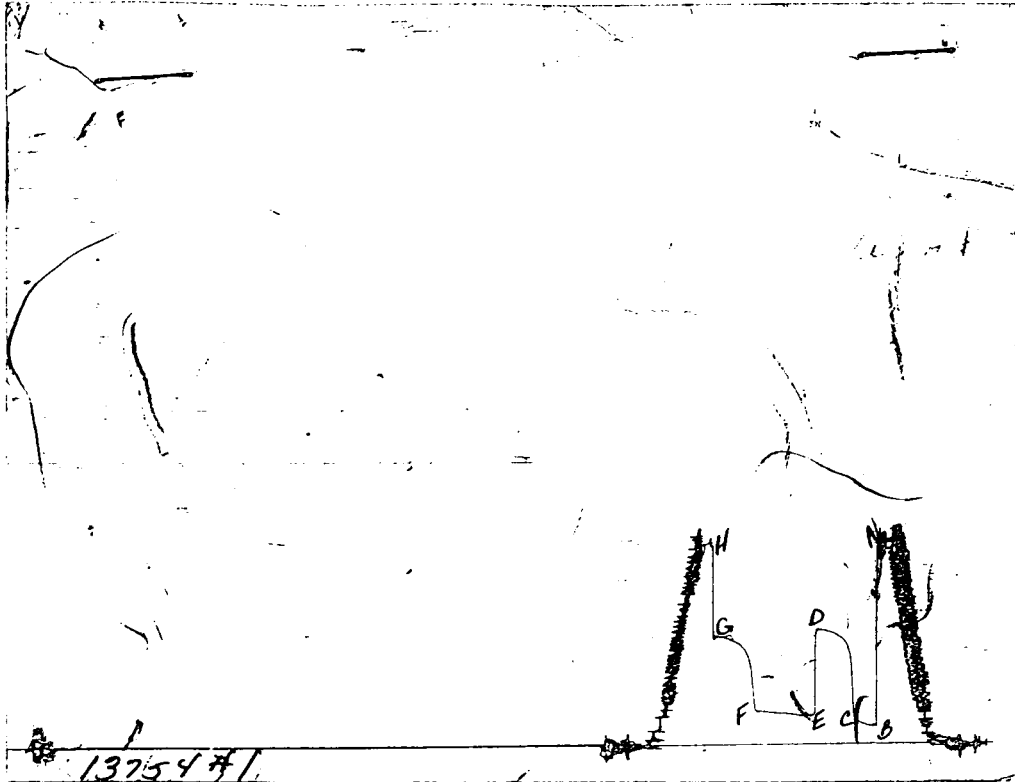
Recovery - Total Feet 220 Flush Tool? NO
Rec. 220 Feet of WATER CUT MUD- 25% WTR/ 75% MUD
Rec. Feet of
Rec. Feet of
Rec. Feet of
Rec. Feet of

BHT 58 °F Gravity 60 °API @ °F Corrected Gravity °API
RW 0.23 @ °F Chlorides 50000 ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 1055.0 PSI AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 88.5 PSI @ (depth) 2014 w / Clock No. 27501
(C) First Final Flow Pressure 122.1 PSI AK1 Recorder No. 7437 Range 4200
(D) Initial Shut-in Pressure 590.9 PSI @ (depth) 2112 w / Clock No. 27567
(E) Second Initial Flow Pressure 144.6 PSI AK1 Recorder No. Range
(F) Second Final Flow Pressure 169.2 PSI @ (depth) w / Clock No.
(G) Final Shut-in Pressure 561.2 PSI Initial Opening 15 Final Flow 45
(H) Final Hydrostatic Mud 1023.1 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1136	1055
(B) FIRST INITIAL FLOW PRESSURE	88	88.5
(C) FIRST FINAL FLOW PRESSURE	127	122.1
(D) INITIAL CLOSED-IN PRESSURE	590	590.9
(E) SECOND INITIAL FLOW PRESSURE	147	144.6
(F) SECOND FINAL FLOW PRESSURE	167	169.2
(G) FINAL CLOSED-IN PRESSURE	561	561.2
(H) FINAL HYDROSTATIC MUD	1056	1023.1

Test Ticket

No 6512

Well Name & No. Legleiter "B" #1 Test No. 1 Date 2-2-94
 Company AFG Energy, Inc. Zone Tested Winfield
 Address Box 458, Hays, KS 67601 Elevation _____
 Co. Rep./Geo. Ed Glassman Cont. Duke #4 Est. Ft. of Pay _____
 Location: Sec. 26 Twp. 16 Rge. 18 Co. Rush State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2010 - 2116 Drill Pipe Size 4 1/2 X 1 1/2
 Anchor Length 106 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 2005 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 2010 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2116 Drill Collar — 2.25 Ft. Run 120
 Mud Wt. _____ lb / gal. Viscosity _____ Filtrate _____

Tool Open @ 12:35 p.m. Initial Blow weak-building to 8" fair blow

Final Blow weak-building to 8" fair blow

Recovery — Total Feet 220 Feet of Gas in Pipe _____ Flush Tool? _____
 Rec. 220 Feet Of WTR C Mud %gas _____ %oil 25 %water 75 %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 58 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 123 @ 60 °F Chlorides 50,000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1136 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 88 PSI @ (depth) 2014 w/Clock No. 27501

(C) First Final Flow Pressure 127 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-In Pressure 590 PSI @ (depth) 2112 w/Clock No. 27567

(E) Second Initial Flow Pressure 147 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 167 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 561 PSI Initial Opening 15 Test 600.00

(H) Final Hydrostatic Mud 1056 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 45 Safety Joint _____

Final Shut-In 30 Straddle _____

Circ. Sub _____

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ _____

Approved By Ed Glassman

Our Representative Dan Banoffe

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LEGLEITER "B" #1 Test No. 2 Date 2/4/94
Company AFG ENERGY, INC. Zone TOPEKA
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2090
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay
Location: Sec. 26 Twp. 16S Rge. 18W Co. RUSH State KS

Interval Tested 3061-3160 Drill Pipe Size 4.5" XH
Anchor Length 99 Wt. Pipe I.D. - 2.7 Ft. Run
Top Packer Depth 3056 Drill Collar - 2.25 Ft. Run
Bottom Packer Depth 3061 Mud Wt. 8.9 lb/Gal.
Total Depth 3160 Viscosity 45 Filtrate 9

Tool Open @ 9:12 AM Initial Blow SLID TOOL 8' TO BOTTOM - STRONG BLOW
BOTTOM OF BUCKET IN 2.5 MINUTES

Final Blow STRONG-BOTTOM OF BUCKET IN 20 SECONDS

Recovery - Total Feet 165 Flush Tool? NO

Rec. 620 Feet of GAS IN PIPE
Rec. 165 Feet of GASSY MUD- 25% GAS/ 75% MUD
Rec. Feet of
Rec. Feet of
Rec. Feet of

BHT 104 °F Gravity °API @ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1430.5 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 69.4 PSI @ (depth) 3065 w / Clock No. 27501

(C) First Final Flow Pressure 92.5 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1000.1 PSI @ (depth) 3156 w / Clock No. 27567

(E) Second Initial Flow Pressure 99.1 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 121.1 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 974.8 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1401.1 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1466	1430.5
(B) FIRST INITIAL FLOW PRESSURE	88	69.4
(C) FIRST FINAL FLOW PRESSURE	108	92.5
(D) INITIAL CLOSED-IN PRESSURE	996	1000.1
(E) SECOND INITIAL FLOW PRESSURE	118	99.1
(F) SECOND FINAL FLOW PRESSURE	137	121.1
(G) FINAL CLOSED-IN PRESSURE	986	974.8
(H) FINAL HYDROSTATIC MUD	1426	1401.1

Test Ticket

No 6513

Well Name & No. <u>Legleiter "B" #1</u>	Test No. <u>2</u>	Date <u>2-4-94</u>
Company <u>APG Energy, Inc.</u>	Zone Tested <u>Topeka</u>	
Address _____	Elevation <u>2090 K.B.</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>26</u>	Twp. <u>16</u>	Rge. <u>18</u>
Co. <u>Rush</u>	State <u>Ks.</u>	
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3061-3160 Drill Pipe Size 4.5 XH
 Anchor Length 99 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 3056 Hole Size — 77/8" Rubber Size — 63/4"
 Bottom Packer Depth 3061 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3160 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 8.9 lb/gal. Viscosity 45 Filtrate 9
 Tool Open @ 9:12 a.m. Initial Blow Slid Tool 8' to bottom - Strong blow
B.O.B. in 2 1/2 min.
 Final Blow Strong - B.O.B. in 20 sec.

Recovery — Total Feet <u>165</u>	Feet of Gas in Pipe <u>620</u>	Flush Tool? _____
Rec. <u>165</u> Feet Of <u>Gsy Mud</u>	<u>25</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 104 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud 1466 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 88 PSI @ (depth) 3065 w/Clock No. 27501

(C) First Final Flow Pressure 108 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-In Pressure 996 PSI @ (depth) 3156 w/Clock No. 27567

(E) Second Initial Flow Pressure 118 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 137 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 986 PSI Initial Opening 30 Test 600.00

(H) Final Hydrostatic Mud 1426 PSI Initial Shut-In 45 Jars _____

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Final Flow 30 Safety Joint _____

Final Shut-In 45 Straddle _____

Circ. Sub _____

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 600.00

Approved By Ed Glassman

Our Representative Dan Bonafe

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LEGLEITER "B" #1 Test No. 3 Date 2/5/94
Company AFG ENERGY, INC. Zone LWR TOPEKA
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2090
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 26 Twp. 16S Rge. 18W Co. RUSH State KS

Interval Tested 3195-3280 Drill Pipe Size 4.5" XH
Anchor Length 85 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3190 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3195 Mud Wt. 9.2 lb/Gal.
Total Depth 3280 Viscosity 45 Filtrate 8.8

Tool Open @ 1:00 AM Initial Blow WEAK-BUILDING TO 1.25"

Final Blow WEAK-BUILDING TO 1/2"

Recovery - Total Feet 30 Flush Tool? NO

Rec. 30 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 103 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1557.1 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 58.4 PSI @ (depth) 3199 w / Clock No. 27501

(C) First Final Flow Pressure 58.4 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1043.2 PSI @ (depth) 3276 w / Clock No. 27567

(E) Second Initial Flow Pressure 61.7 PSI AK1 Recorder No. _____ Range _____

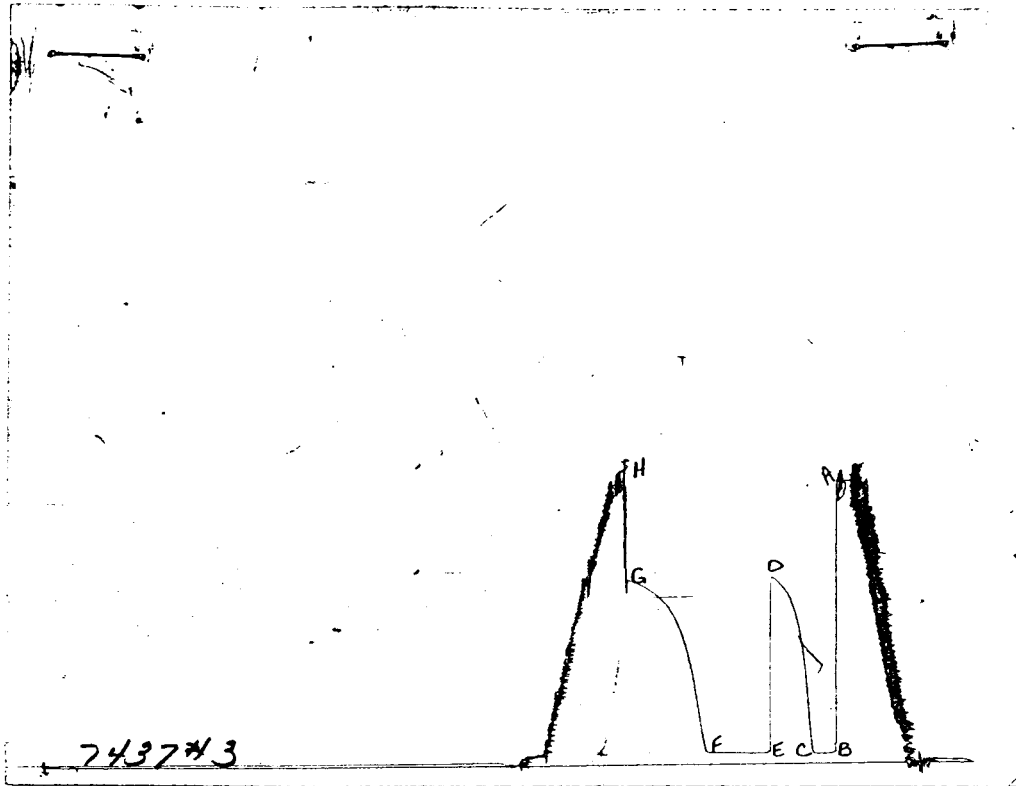
(F) Second Final Flow Pressure 69.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1031.6 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1524.3 PSI Initial Shut-in 30 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	1586	1557.1
(B) FIRST INITIAL FLOW PRESSURE	49	58.4
(C) FIRST FINAL FLOW PRESSURE	49	58.4
(D) INITIAL CLOSED-IN PRESSURE	1036	1043.2
(E) SECOND INITIAL FLOW PRESSURE	59	61.7
(F) SECOND FINAL FLOW PRESSURE	59	69.4
(G) FINAL CLOSED-IN PRESSURE	1016	1031.6
(H) FINAL HYDROSTATIC MUD	1566	1524.3

Test Ticket

No 6514

Well Name & No. <u>Legleiter 'B' #1</u>	Test No. <u>3</u>	Date <u>2-5-94</u>
Company <u>AFG Energy Inc.</u>	Zone Tested <u>Lower Topeka</u>	
Address _____	Elevation <u>2090 K.B.</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>26</u> Twp. <u>16</u> Rge. <u>18</u>	Co. <u>Rush</u>	State <u>Ks.</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3195-3280</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>85</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3190</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3195</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3280</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>45</u> Filtrate <u>8.8</u>
Tool Open @ <u>1:00 a.m.</u> Initial Blow <u>Weak- building to 1 1/4"</u>	

Final Blow Weak- building to 1/2"

Recovery — Total Feet <u>30</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>30</u> Feet Of <u>D.M.</u>	%gas _____ %oil _____ %water <u>100</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 103 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud <u>1586</u> PSI	AK1 Recorder No. <u>13754</u>	Range <u>4000</u>
(B) First Initial Flow Pressure <u>49</u> PSI	@ (depth) <u>3199</u>	w/Clock No. <u>27501</u>
(C) First Final Flow Pressure <u>49</u> PSI	AK1 Recorder No. <u>7437</u>	Range <u>4200</u>
(D) Initial Shut-In Pressure <u>1036</u> PSI	@ (depth) <u>3276</u>	w/Clock No. <u>27567</u>
(E) Second Initial Flow Pressure <u>59</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>59</u> PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>1616</u> PSI	Initial Opening <u>15</u>	Test <u>60000</u>
(H) Final Hydrostatic Mud <u>1566</u> PSI	Initial Shut-In <u>30</u>	Jars _____

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Approved By E. Glassman

Our Representative Dan Baner

Final Flow 45 Safety Joint _____

Final Shut-In 60 Straddle _____

Circ. Sub _____

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 1000.00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LEGLEITER "B" #1 Test No. 4 Date 2/5/94
Company AFG ENERGY, INC. Zone TORONTO-ABC
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2090
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay 4
Location: Sec. 26 Twp. 16S Rge. 18W Co. RUSH State KS

Interval Tested 3293-3385 Drill Pipe Size 4.5" XH
Anchor Length 92 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3288 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3293 Mud Wt. 9.1 lb/Gal.
Total Depth 3385 Viscosity 43 Filtrate 9.2

Tool Open @ 4:20 PM Initial Blow STRONG-BOTTOM OF BUCKET IN 20 SECONDS
GAS TO SURFACE / GAUGED
Final Blow STRONG-BOTTOM OF BUCKET IN 10 SECONDS

Recovery - Total Feet 712 Flush Tool? NO

Rec. 120 Feet of GASSY MUDDY WATER- 20% GAS/ 55% WTR/ 25% MUD
Rec. 592 Feet of WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.23 @ _____ °F Chlorides 65000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1663.5 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 359.0 PSI @ (depth) 3297 w / Clock No. 27501

(C) First Final Flow Pressure 398.6 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 915.1 PSI @ (depth) 3381 w / Clock No. 27567

(E) Second Initial Flow Pressure 419.5 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 401.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 859.5 PSI Initial Opening 60 Final Flow 60

(H) Final Hydrostatic Mud 1647.7 PSI Initial Shut-in 60 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	1826	1663.5
(B) FIRST INITIAL FLOW PRESSURE	334	359
(C) FIRST FINAL FLOW PRESSURE	374	398.6
(D) INITIAL CLOSED-IN PRESSURE	887	915.1
(E) SECOND INITIAL FLOW PRESSURE	403	419.5
(F) SECOND FINAL FLOW PRESSURE	393	401.9
(G) FINAL CLOSED-IN PRESSURE	837	859.5
(H) FINAL HYDROSTATIC MUD	1586	1647.7

COMPUTER GAS EVALUATION BY TRILOBITE TESTING, L.L.C.

AFG ENERGY, INC.

LEGLEITER "B" #1

DST 4

26 16S 18W

RUSH

KS

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*****
ELEVATION:                2090 KB          EST. PAY:                4 FT.
DATUM:                    -1292 ,          ZONE TESTED:            TORONTO-"A,B,C"
TEST INTERVAL:            3293-3385        TIME INTERVALS:        60-60-60-60
RECORDER DEPTH:           3381             VISCOSITY:              0.01276 CP
BOTTOM HOLE TEMP:         109              HOLE SIZE:              7.875 IN
COMPRESSIBILITY:          0.9985           GAS GRAVITY:            7390
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*****
TEMPERATURE RANKINE:                569.00 &
TRANSMISSIBILITY:                   7012.69 Kh/%
THEORITICAL FLOW CAPICITY:           89.45 Kh
AVERAGE EFFECTIVE PERMEABILITY:      22.36 K(md.)
RADIUS OF INVESTIGATION:             51.80 FT.
DAMAGE RATIO:                        0.70
ABSOLUTE OPEN FLOW(MAX)              1064.53 MCFD
ABSOLUTE OPEN FLOW(MIN)              958.48 MCFD
THEORITICAL OPEN FLOW(MAX)           748.69 MCFD
THEORITICAL OPEN FLOW(MIN)           674.11 MCFD
POTENTIOMETRIC SURFACE               264130.41 (FT.)
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INITIAL SHUT-IN VALUES:
SLOPE                               83441.97
THEORETICAL STATIC PRESSURE         960
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FINAL SHUT-IN VALUES:
SLOPE                               114455.11
THEORETICAL STATIC PRESSURE         924
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DRAWDOWN FACTOR:                    3.74 (%)
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LEGLEITER "B" #1 DST #4
INITIAL SHUTIN

60 INITIAL FLOW TIME Slope 83441.97 psi/cycle
P * 960 psi

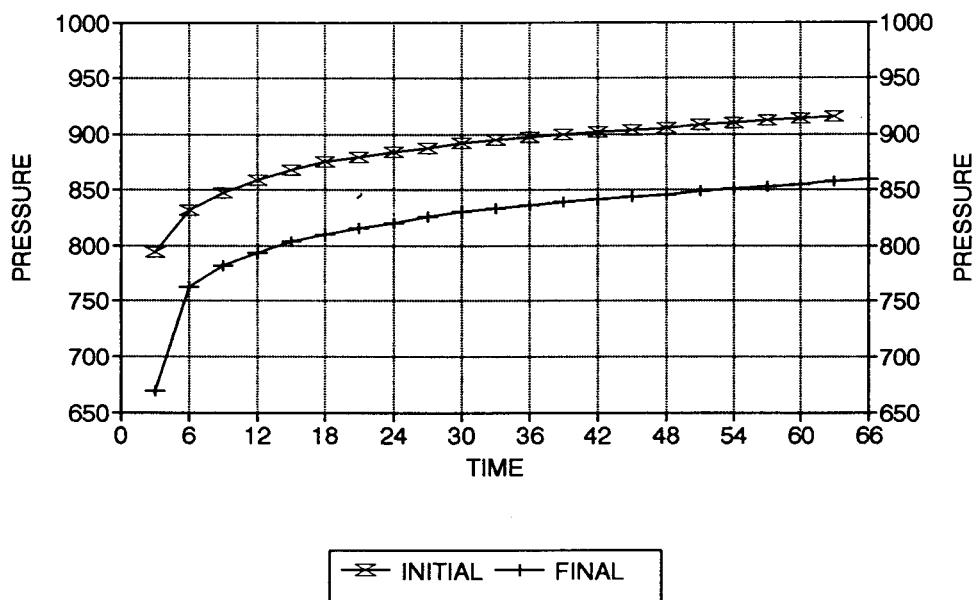
	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	794.6	1.322	794.6	21
	6	831.3	1.041	36.7	11
	9	847.0	0.885	15.7	8
	12	858.5	0.778	11.5	6
	15	867.9	0.699	9.4	5
	18	875.3	0.637	7.4	4
	21	879.5	0.586	4.2	4
	24	883.7	0.544	4.2	4
	27	887.9	0.508	4.2	3
	30	892.1	0.477	4.2	3
	33	895.2	0.450	3.1	3
	36	897.3	0.426	2.1	3
	39	899.4	0.405	2.1	3
	42	901.5	0.385	2.1	2
	45	903.6	0.368	2.1	2
	48	905.7	0.352	2.1	2
	51	907.8	0.338	2.1	2
X	54	909.9	0.325	2.1	2
	57	912.0	0.312	2.1	2
	60	914.1	0.301	2.1	2
X	63	915.1	0.291	1.0	2

LEGLEITER "B" #1 DST #4
FINAL SHUTIN

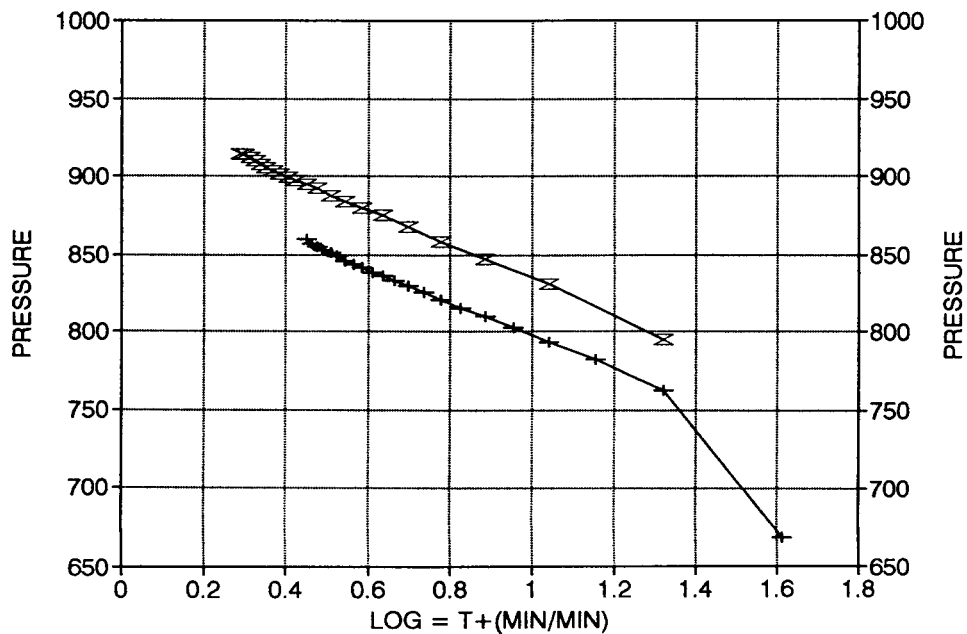
120 TOTAL FLOW TIME Slope 114455.11 psi/cycle
P * 924 psi

	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	668.8	1.613	668.8
	6	762.1	1.322	93.3
	9	782.1	1.156	20.0
	12	793.6	1.041	11.5
	15	803.1	0.954	9.5
	18	810.4	0.885	7.3
	21	815.6	0.827	5.2
	24	820.8	0.778	5.2
	27	826.1	0.736	5.3
	30	830.3	0.699	4.2
	33	833.4	0.666	3.1
	36	836.5	0.637	3.1
	39	838.6	0.610	2.1
	42	841.8	0.586	3.2
	45	843.9	0.564	2.1
	48	845.9	0.544	2.0
	51	849.1	0.525	3.2
X	54	851.2	0.508	2.1
	57	853.3	0.492	2.1
	60	855.3	0.477	2.0
	63	857.4	0.463	2.1

LEGLEITER "B" #1 / DST #4 DELTA T DELTA P



HORNER PLOT



GAS VOLUME REPORT

AFG ENERGY, INC.

LEGLEITER "B" #1

DST # 4

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
0		1.5		0		1.5	
10	8	1.5	1123	10	9	1.5	1198
20	9	1.5	1198	20	9	1.5	1198
30	8	1.5	1123	30	7	1.5	1036
40	7	1.5	1036	40	5	1.5	863
50	6	1.5	953	50	5	1.5	863
60	5	1.5	863	60	5	1.5	863

Remarks: GAS TO SURFACE IN 4 MINUTES ON INITIAL FLOW/SAMPLE TAKEN

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number:	940066	Analyzed:	02/08/94
Sample From:	Legleiter "B" #1 DST 4	Pressure:	
Producer:	AFG Energy	Temperature:	
Date:		Location:	26-16-18
Time:		County:	Rush
Sampler:		State:	Kansas
Source:		Formation:	Toronto ABC

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	33.379
Carbon Dioxide	CO2:	0.126
Methane	C1:	61.961
Ethane	C2:	2.344
Propane	C3:	0.986
Iso Butane	iC4:	0.290
Normal Butane	nC4:	0.358
Iso Pentane	iC5:	0.160
Normal Pentane	nC5:	0.098
Hexanes Plus	C6+:	0.298

TOTAL: 100.000 1.330
Z Fact: 0.9985
SP.GR.: 0.7390
BTU (SAT): 728.7 @ 14.73 psia
BTU (DRY): 741.6 @ 14.73 psia

COMMENTS: Sample entered under vacuum
Not enough sample for Helium analysis

GAS VOLUME REPORT

AFC Energy, Inc.

Leigleir "B" #1
WELL NAME AND NO.

4
DST NO

[illegible]

Remarks: GTS in 4 min on IF Sample Taken

Test Ticket

No 6515

Well Name & No. <u>Legleiter 'B' #1</u>	Test No. <u>4</u>	Date <u>2-5-94</u>
Company <u>AFG Energy Inc.</u>	Zone Tested <u>Toronto ABC</u>	
Address _____	Elevation <u>2090 K.B</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay <u>4</u>
Location: Sec. <u>26</u>	Twp. <u>16</u>	Rge. <u>18</u>
Co. <u>Rush</u>	State <u>Ks.</u>	
No. of Copies <u>2</u>	Distribution Sheet _____	Yes _____ No _____ Turnkey _____
		Yes _____ No <u>yes</u> Evaluation _____

Interval Tested <u>3293 - 3385</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>92</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3288</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>3293</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3385</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>43</u> Filtrate <u>9.2</u>
Tool Open @ <u>4:00 p.m.</u>	Initial Blow <u>Strong - B.O.B. 20 sec. GTS</u>
<u>Gauged</u>	
Final Blow <u>Strong - B.O.B. in 10 sec.</u>	

Recovery — Total Feet <u>712</u>	Feet of Gas In Pipe <u>GTS</u>	Flush Tool? _____
Rec. <u>120</u> Feet Of <u>Gsy mdy wtr.</u>	20% gas	% oil <u>55</u> % water <u>25</u> % mud
Rec. <u>592</u> Feet Of <u>WTA.</u>	% gas	% oil <u>100</u> % 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>109</u> °F	Gravity _____	°API @ _____	°F Corrected Gravity _____	°API
RW <u>.23</u> @ <u>78</u> °F	Chlorides <u>65,000</u> ppm	Recovery _____	Chlorides <u>5000</u> ppm	System

(A) Initial Hydrostatic Mud <u>1826</u>	PSI	AK1 Recorder No. <u>13754</u>	Range <u>4000</u>
(B) First Initial Flow Pressure <u>334</u>	PSI	@ (depth) <u>3297</u>	w/Clock No. <u>27501</u>
(C) First Final Flow Pressure <u>374</u>	PSI	AK1 Recorder No. <u>7437</u>	Range <u>4200</u>
(D) Initial Shut-In Pressure <u>887</u>	PSI	@ (depth) <u>3381</u>	w/Clock No. <u>27567</u>
(E) Second Initial Flow Pressure <u>403</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>393</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>837</u>	PSI	Initial Opening <u>60</u>	Test _____
(H) Final Hydrostatic Mud <u>1586</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>60</u>	Safety Joint _____
Final Shut-In <u>60</u>	Straddle _____
	Circ. Sub _____
	Sampler _____

Approved By _____
 Our Representative Dan Banaf

Extra Packer _____
 Other gas evaluation
 TOTAL PRICE \$ _____

416

WELL NAME Leggett B DST # 4 RECORDER # 7437

INIT. HYD. MUD. 1.561 16635 FINAL HYD. MUD 1.546 16477

INITIAL FLOW		INITIAL SHUTIN		FINAL FLOW		FINAL SHUTIN	
MINUTES	INTERVAL	MINUTES	INTERVAL	MINUTES	INTERVAL	MINUTES	INTERVAL
<u>60</u>		<u>60</u>		<u>60</u>		<u>60</u>	
<u>.326</u>	<u>359.0</u>	<u>—</u>	<u>—</u>	<u>1</u>	<u>.381</u> <u>419.5</u>		
		<u>.735</u>		<u>2</u>		<u>.615</u>	
		<u>.770</u>		<u>3</u>		<u>.704</u>	
		<u>.785</u>		<u>4</u>		<u>.723</u>	
		<u>.796</u>		<u>5</u>		<u>.734</u>	
		<u>.805</u>		<u>6</u>		<u>.743</u>	
		<u>.812</u>		<u>7</u>		<u>.750</u>	
		<u>.816</u>		<u>8</u>		<u>.755</u>	
		<u>.820</u>		<u>9</u>		<u>.760</u>	
		<u>.824</u>		<u>10</u>		<u>.765</u>	
		<u>.828</u>		<u>11</u>		<u>.769</u>	
		<u>.831</u>		<u>12</u>		<u>.773</u>	
		<u>.832</u>		<u>13</u>		<u>.775</u>	
		<u>.834</u>		<u>14</u>		<u>.777</u>	
		<u>.837</u>		<u>15</u>		<u>.780</u>	
		<u>.839</u>		<u>16</u>		<u>.782</u>	
		<u>.841</u>		<u>17</u>		<u>.784</u>	
		<u>.843</u>		<u>18</u>		<u>.787</u>	
		<u>.845</u>		<u>19</u>		<u>.789</u>	
		<u>.847</u>		<u>20</u>		<u>.791</u>	
<u>.362</u>	<u>398.6</u>	<u>.849</u>		<u>21</u>	<u>.365</u> <u>401.9</u>	<u>.793</u>	
		<u>.850</u>	<u>915.1</u>	<u>22</u>		<u>.795</u>	
				<u>23</u>		<u>.797</u>	<u>859.5</u>
				<u>24</u>			
				<u>25</u>			
				<u>26</u>			
				<u>27</u>			

1	0.735	794.6787
2	0.77	831.3511
3	0.785	847.0353
4	0.796	858.5247
5	0.805	867.956
6	0.812	875.3116
7	0.816	879.5134
8	0.82	883.714
9	0.824	887.9136
10	0.828	892.112
11	0.831	895.2602
12	0.833	897.3586
13	0.835	899.4568
14	0.837	901.5547
15	0.839	903.6523
16	0.841	905.7496
17	0.843	907.8467
18	0.845	909.9435
19	0.847	912.0401
20	0.849	914.1363
21	0.85	915.1844

1	0.615	668.8066
2	0.704	762.1087
3	0.723	782.0808
4	0.734	793.6294
5	0.743	803.0704
6	0.75	810.4085
7	0.755	815.6474
8	0.76	820.8841
9	0.765	826.1187
10	0.769	830.3048
11	0.772	833.4435
12	0.775	836.5814
13	0.777	838.6728
14	0.78	841.8094
15	0.782	843.9
16	0.784	845.9903
17	0.787	849.1251
18	0.789	851.2145
19	0.791	853.3035
20	0.793	855.3922
21	0.795	857.4806
22	0.797	859.5686

J- 960.0
 F- 924.0
 C- 22
 A25- A46
 D1- D43

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LEGLEITER "B" #1 Test No. 5 Date 2/6/94
Company AFG ENERGY, INC. Zone LKC-"D-E-F"
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2090
Co. Rep./Geo. ED GLASSMAN Cont. DUKE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 26 Twp. 16S Rge. 18W Co. RUSH State KS

Interval Tested 3388-3426 Drill Pipe Size 4.5" XH
Anchor Length 38 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3383 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3388 Mud Wt. 9 lb/Gal.
Total Depth 3426 Viscosity 44 Filtrate 10.4

Tool Open @ 7:25 AM Initial Blow WEAK-BUILDING TO 1/2"

Final Blow WEAK STEADY SURFACE BLOW

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 1746.8 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 28.6 PSI @ (depth) 3392 w / Clock No. 27501

(C) First Final Flow Pressure 28.6 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1011.7 PSI @ (depth) 3422 w / Clock No. 27567

(E) Second Initial Flow Pressure 28.6 PSI AK1 Recorder No. _____ Range _____

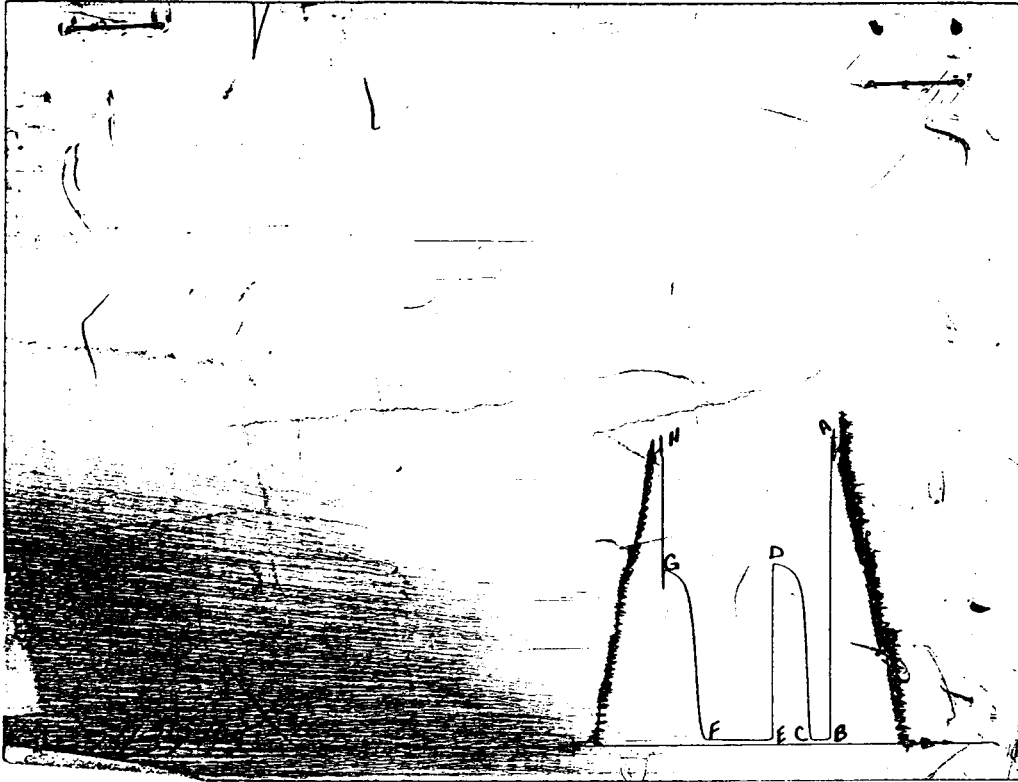
(F) Second Final Flow Pressure 28.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 980.1 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1715.1 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	1876	1746.8
(B) FIRST INITIAL FLOW PRESSURE	29	28.6
(C) FIRST FINAL FLOW PRESSURE	29	28.6
(D) INITIAL CLOSED-IN PRESSURE	1006	1011.7
(E) SECOND INITIAL FLOW PRESSURE	29	28.6
(F) SECOND FINAL FLOW PRESSURE	39	28.6
(G) FINAL CLOSED-IN PRESSURE	976	980.1
(H) FINAL HYDROSTATIC MUD	1726	1715.1

Test Ticket

No 6516

Well Name & No. <u>hegleiter "B" #1</u>	Test No. <u>5</u>	Date <u>2-6-94</u>
Company <u>AFG Energy Inc.</u>	Zone Tested <u>D-F-F</u>	<u>L.K.C.</u>
Address _____	Elevation <u>2090 K.B.</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>26</u>	Twp. <u>16</u>	Rge. <u>18</u>
Co. <u>Rush</u>	State <u>Ks.</u>	
No. of Copies <u>2</u>	Distribution Sheet _____	Yes _____ No _____ Turnkey _____
	Yes _____ No _____	Evaluation _____

Interval Tested 3388 - 3426 Drill Pipe Size 4.5 XH
 Anchor Length 38 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 3383 Hole Size — 77/8" Rubber Size — 63/4"
 Bottom Packer Depth 3388 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 3426 Drill Collar — 2.25 Ft. Run
 Mud Wt. 9 lb/gal. Viscosity 44 Filtrate 10.4
 Tool Open @ 7:25 a.m. Initial Blow weak - building to 1/2"

Final Blow weak steady surface blow.

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
Rec. <u>20</u> Feet Of <u>D.M.</u>	%gas _____ %oil _____ %water <u>100</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7,060 ppm System

(A) Initial Hydrostatic Mud 1876 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 29 PSI @ (depth) 3392 w/Clock No. 27501

(C) First Final Flow Pressure 29 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-In Pressure 1006 PSI @ (depth) 3422 w/Clock No. 27567

(E) Second Initial Flow Pressure 29 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 39 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 976 PSI Initial Opening 15 Test 600.00

(H) Final Hydrostatic Mud 1726 PSI Initial Shut-In 30 Jars _____

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Final Flow 75 Safety Joint _____

Final Shut-In 30 Straddle _____

Circ. Sub _____

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 600.00

Approved By Ed Glassman

Our Representative Dan Banagile