

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUS 'A' #11 Test No. 1 Date 1/16/95
Company AFG ENERGY, INC. Zone LWR TOPEKA
Address BOX 458, HAYS, KS 67601 Elevation 2162
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 3339-3400 Drill Pipe Size 4.5" XH
Anchor Length 61 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3334 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3339 Mud Wt. 9.4 lb/Gal.
Total Depth 3400 Viscosity 48 Filtrate 10.4

Tool Open @ 6:55AM Initial Blow WEAK BUILDING TO 1 INCH.

Final Blow WEAK STEADY SURFACE BLOW.

Recovery - Total Feet 45 Flush Tool? NO

Rec. 45 Feet of DRILLING 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 6,000 ppm System

(A) Initial Hydrostatic Mud 1703.56 PSI AK1 Recorder No. 2342 ELEC Range _____

(B) First Initial Flow Pressure 20.39 PSI @ (depth) 3343 w / Clock No. _____

(C) First Final Flow Pressure 27.94 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 1017.53 PSI @ (depth) 3396 w / Clock No. 27501

(E) Second Initial Flow Pressure 25.34 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 37.84 PSI @ (depth) _____ w / Clock No. _____

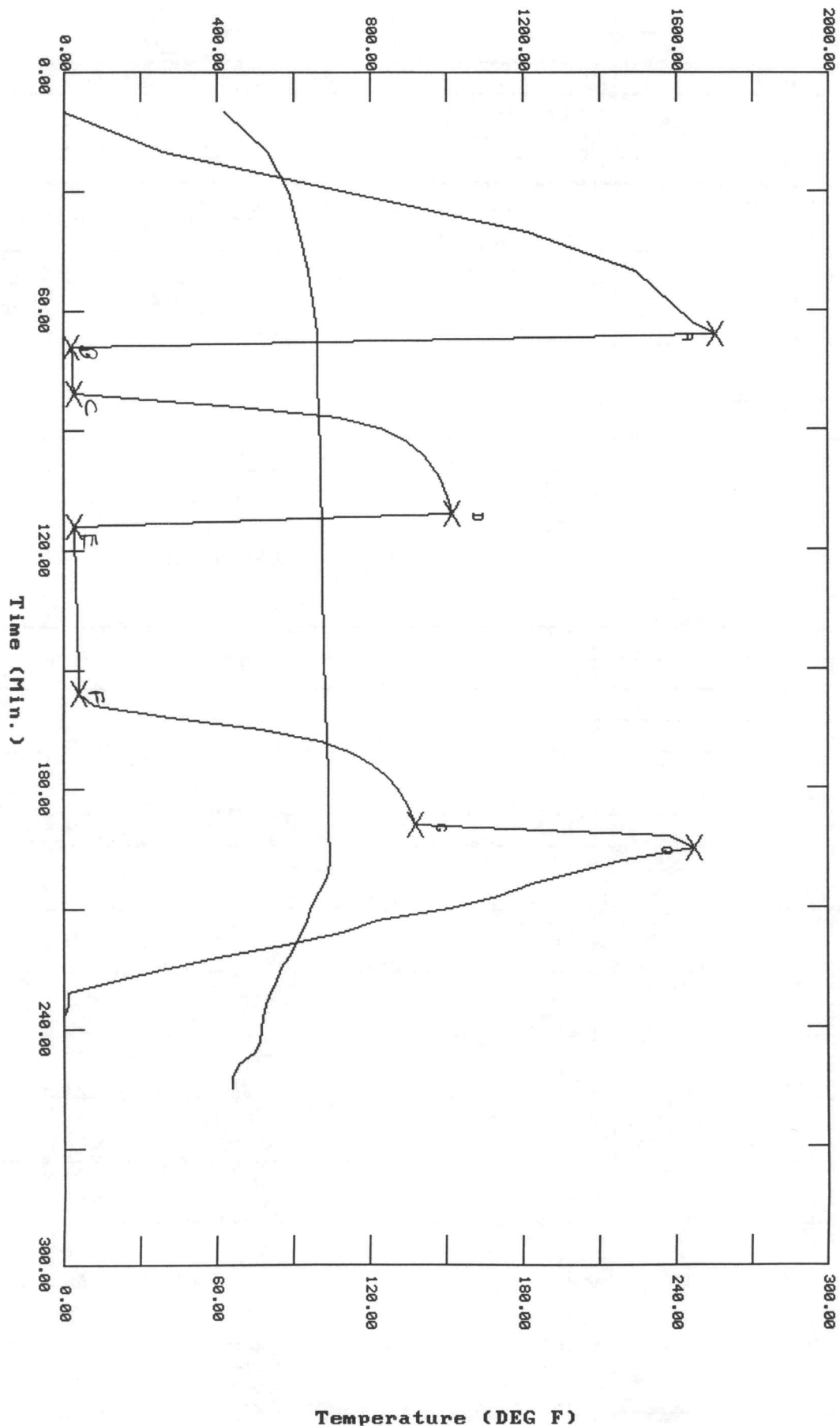
(G) Final Shut-in Pressure 920.93 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1648.25 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

TEST HISTORY

AFG Energy, Inc. Kraus "A" #11 DST #1



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

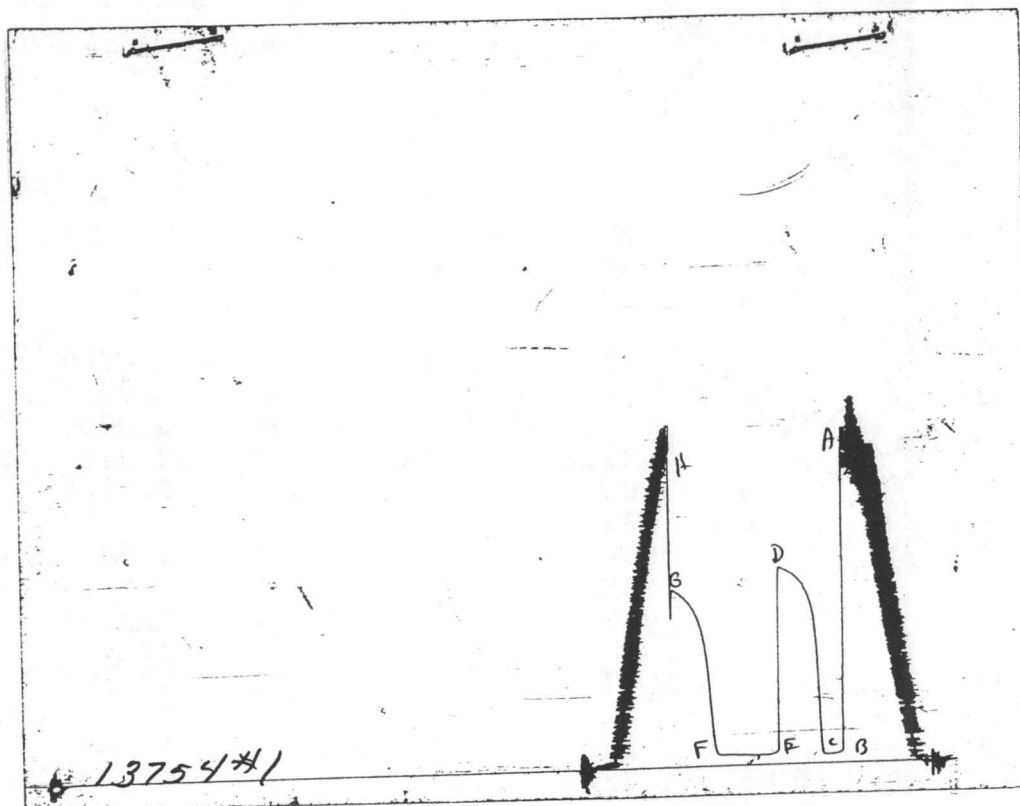
TEST: AFG Energy, Inc. Kraus "A" #11 DST #1

DATE: 01/16/95

TIME: 05:54:26

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	66.00	1703.6	0.0	99.50		
***** Start Flow 1	0.00	20.4	0.0	99.50		
	3.00	21.8	1.4	99.50		
	6.00	23.2	2.9	99.68		
	9.00	24.4	4.0	99.68		
***** End Flow 1	12.00	27.9	7.6	99.68		
***** Start Shutin 1	0.00	27.9	0.0	99.68	0.0000	0.001
	3.00	415.3	387.3	99.86	5.0000	0.172
	6.00	717.4	689.5	100.04	3.0000	0.515
	9.00	839.6	811.7	100.04	2.3333	0.705
	12.00	901.5	873.6	100.40	2.0000	0.813
	15.00	939.3	911.4	100.40	1.8000	0.882
	18.00	964.9	937.0	100.58	1.6667	0.931
	21.00	983.4	955.4	100.76	1.5714	0.967
	24.00	997.6	969.7	100.94	1.5000	0.995
	27.00	1008.6	980.7	100.94	1.4444	1.017
***** End Shut-in 1	30.00	1017.5	989.6	101.12	1.4000	1.035
***** Start Flow 2	0.00	25.3	0.0	101.12		
	3.00	25.3	-0.1	101.12		
	6.00	26.3	1.0	101.12		
	9.00	28.8	3.4	101.30		
	12.00	29.7	4.4	101.30		
	15.00	31.0	5.7	101.30		
	18.00	32.1	6.8	101.48		
	21.00	33.4	8.1	101.48		
	24.00	34.4	9.1	101.66		
	27.00	35.2	9.9	101.66		
	30.00	36.0	10.7	101.84		
	33.00	36.8	11.4	102.02		
	36.00	37.4	12.1	102.02		
	39.00	37.9	12.6	102.20		
***** End Flow 2	42.00	37.8	12.5	102.38		
***** Start Shutin 2	0.00	37.8	0.0	102.38	0.0000	0.001
	3.00	80.4	42.6	102.38	19.0000	0.006
	6.00	277.2	239.4	102.74	10.0000	0.077
	9.00	515.6	477.7	102.92	7.0000	0.266
	12.00	670.2	632.4	103.10	5.5000	0.449
	15.00	756.9	719.1	103.28	4.6000	0.573
	18.00	809.5	771.6	103.46	4.0000	0.655
	21.00	845.1	807.3	103.46	3.5714	0.714
	24.00	871.2	833.4	103.64	3.2500	0.759
	27.00	891.4	853.5	103.64	3.0000	0.795
	30.00	907.7	869.8	103.64	2.8000	0.824
***** End Shut-in 2	33.00	920.9	883.1	103.82	2.6364	0.848
***** Start Flow 3	0.00	1648.2	0.0	104.00		
***** End Flow 3	3.00	1465.8	-182.5	104.00		
***** End Shut-in 3	3.00	1465.8	0.0	104.00	19.0000	2.149
***** Final Hydro.	198.00	1465.8	0.0	104.00		

CHART PAGE



This is an actual photograph of an AK1 recorder chart
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		1703.56
(B) FIRST INITIAL FLOW PRESSURE		20.39
(C) FIRST FINAL FLOW PRESSURE		27.94
(D) INITIAL CLOSED-IN PRESSURE		1017.53
(E) SECOND INITIAL FLOW PRESSURE		25.34
(F) SECOND FINAL FLOW PRESSURE		37.84
(G) FINAL CLOSED-IN PRESSURE		920.93
(H) FINAL HYDROSTATIC MUD		1648.25

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUS 'A' #11 Test No. 2 Date 1/16/95
Company AFG ENERGY, INC. Zone LWR KC
Address BOX 458, HAYS, KS 67601 Elevation 2162
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 3445-3488 Drill Pipe Size 4.5" XH
Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3440 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3445 Mud Wt. 9.4 lb/Gal.
Total Depth 3488 Viscosity 50 Filtrate 8.8

Tool Open @ 8:55PM Initial Blow WEAK BUILDING TO 1 INCH.

Final Blow WEAK STEADY SURFACE BLOW.

Recovery - Total Feet 40 Flush Tool? NO

~~40~~ Rec. _____ 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 4,000 ppm System

(A) Initial Hydrostatic Mud 1762.06 PSI AK1 Recorder No. 2342 ELEC Range 4995

(B) First Initial Flow Pressure 21.64 PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure 75.02 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 504.06 PSI @ (depth) 3484 w / Clock No. 27501

(E) Second Initial Flow Pressure 30.96 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 71.33 PSI @ (depth) _____ w / Clock No. _____

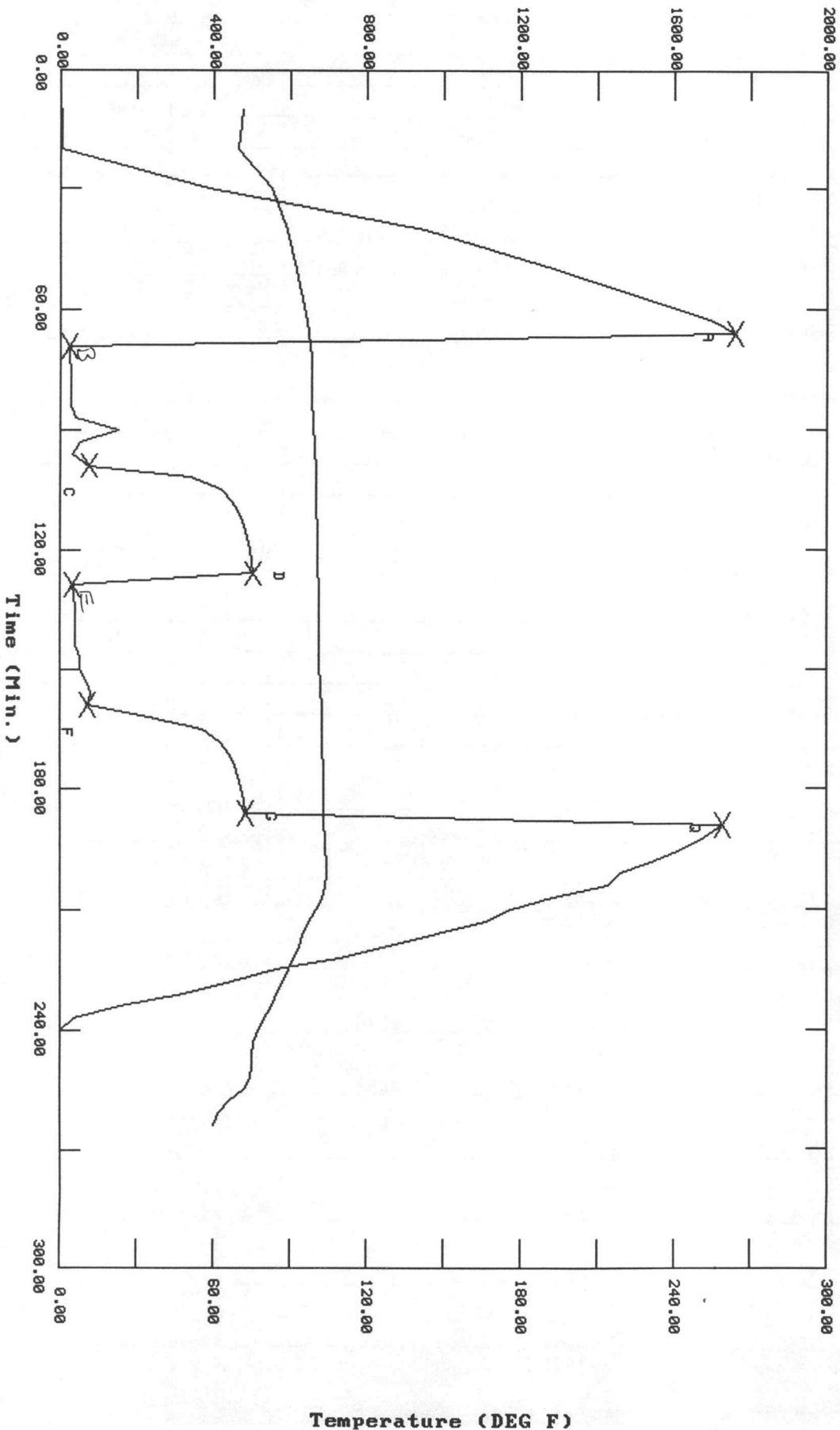
(G) Final Shut-in Pressure 484.51 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1730.16 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

TEST HISTORY

AFG Energy, Inc. Kraus "A" #11 DST#2



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

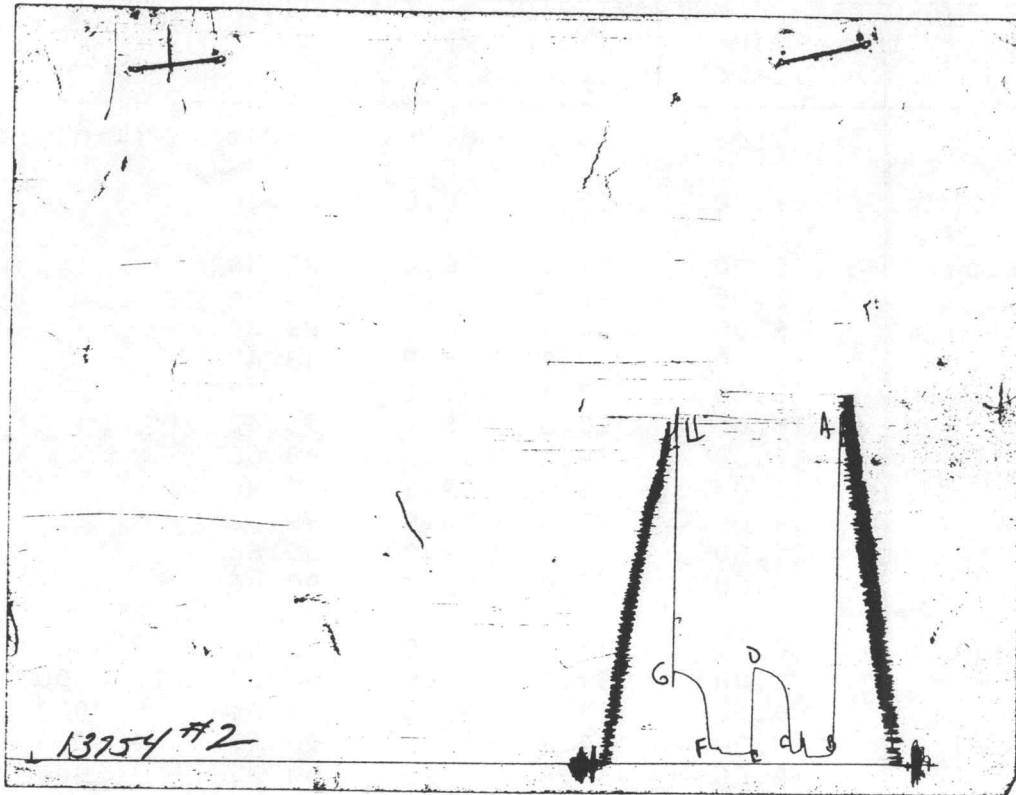
TEST: AFG Energy, Inc. Kraus "A" #11 DST#2

DATE: 01/16/95

TIME: 19:52:24

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	66.00	1762.1	0.0	97.16		
***** Start Flow 1	0.00	21.6	0.0	97.88		
	3.00	23.2	1.5	98.06		
	6.00	24.7	3.0	98.24		
	9.00	27.5	5.9	98.42		
	12.00	27.1	5.5	98.42		
	15.00	27.3	5.6	98.42		
	18.00	39.2	17.5	98.60		
	21.00	151.0	129.3	98.96		
	24.00	51.6	30.0	99.32		
	27.00	31.3	9.7	99.68		
***** End Flow 1	30.00	75.0	53.4	99.86		
***** Start Shutin 1	0.00	75.0	0.0	99.86	0.0000	0.006
	3.00	337.0	262.0	100.04	11.0000	0.114
	6.00	417.3	342.3	100.04	6.0000	0.174
	9.00	447.7	372.7	100.22	4.3333	0.200
	12.00	465.8	390.8	100.22	3.5000	0.217
	15.00	478.0	403.0	100.40	3.0000	0.229
	18.00	487.1	412.1	100.40	2.6667	0.237
	21.00	494.0	419.0	100.58	2.4286	0.244
	24.00	499.6	424.6	100.76	2.2500	0.250
***** End Shut-in 1	27.00	504.1	429.0	100.94	2.1111	0.254
***** Start Flow 2	0.00	31.0	0.0	101.12		
	3.00	34.7	3.8	101.12		
	6.00	37.2	6.2	101.12		
	9.00	38.8	7.9	101.12		
	12.00	38.3	7.4	101.12		
	15.00	39.4	8.5	101.12		
	18.00	51.8	20.8	101.30		
	21.00	48.8	17.9	101.48		
	24.00	67.7	36.8	101.84		
	27.00	78.5	47.6	102.02		
***** End Flow 2	30.00	71.3	40.4	102.20		
***** Start Shutin 2	0.00	71.3	0.0	102.20	0.0000	0.005
	3.00	229.1	157.8	102.38	21.0000	0.052
	6.00	369.4	298.1	102.56	11.0000	0.136
	9.00	414.4	343.1	102.56	7.6667	0.172
	12.00	437.9	366.6	102.74	6.0000	0.192
	15.00	453.2	381.9	102.92	5.0000	0.205
	18.00	464.0	392.7	102.92	4.3333	0.215
	21.00	472.4	401.1	103.10	3.8571	0.223
	24.00	479.1	407.7	103.10	3.5000	0.229
***** End Shut-in 2	27.00	484.5	413.2	103.10	3.2222	0.235
***** Final Hydro.	189.00	1730.2	0.0	103.28		

CHART PAGE



This is an actual photograph of an AK1 recorder chart
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		1762.06
(B) FIRST INITIAL FLOW PRESSURE		21.64
(C) FIRST FINAL FLOW PRESSURE		75.02
(D) INITIAL CLOSED-IN PRESSURE		504.06
(E) SECOND INITIAL FLOW PRESSURE		30.96
(F) SECOND FINAL FLOW PRESSURE		71.33
(G) FINAL CLOSED-IN PRESSURE		484.51
(H) FINAL HYDROSTATIC MUD		1730.16

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUS 'A' #11 Test No. 3 Date 1/17/95
Company AFG ENERGY, INC. Zone LWR KC
Address BOX 458, HAYS, KS 67601 Elevation 2162
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 3622-3638 Drill Pipe Size 4.5" XH
Anchor Length 16 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3617 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3622 Mud Wt. 9.4 lb/Gal.
Total Depth 3638 Viscosity 53 Filtrate 8.8

Tool Open @ 2:36PM Initial Blow WEAK, STEADY SUFACE BLOW.

Final Blow NO BLOW.

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 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 6,000 ppm System

(A) Initial Hydrostatic Mud 1820.97 PSI AK1 Recorder No. 2342 FLEC Range 4995

(B) First Initial Flow Pressure 17.11 PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure 19.04 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 651.77 PSI @ (depth) 3634 w / Clock No. 27501

(E) Second Initial Flow Pressure 19.55 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 19.97 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 591.43 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1789.25 PSI Initial Shut-in 30 Final Shut-in 30

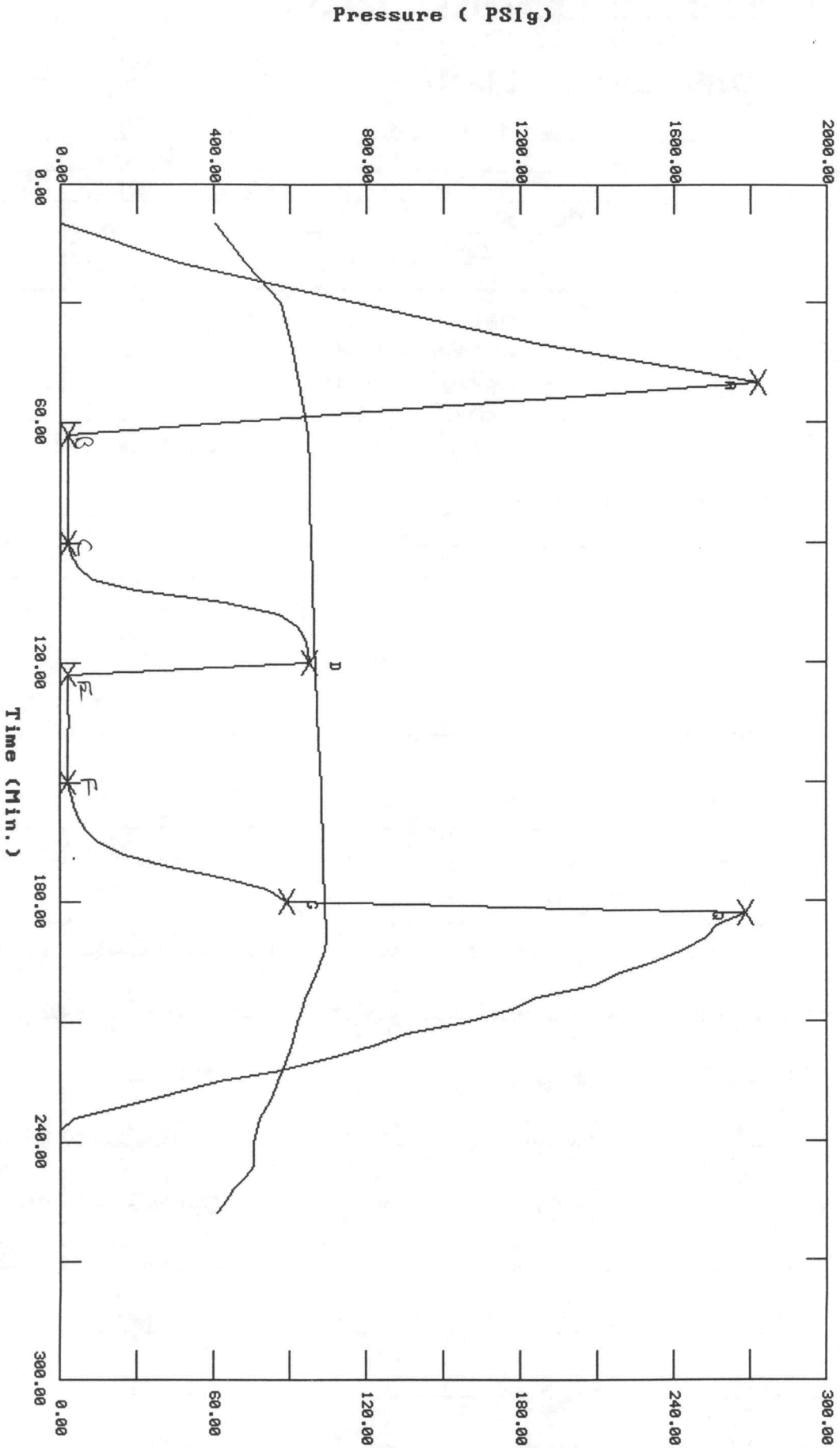
Our Representative DAN BANGLE

TEST HISTORY

AFG Energy, Inc. Kraus "A" #11 DST #3

Flag Points

t (Min.)	P (PSig)
A: 0.00	1826.97
B: 0.00	17.11
C: 27.00	19.04
D: 30.00	651.77
E: 0.00	19.55
F: 27.00	19.97
G: 30.00	591.43
H: 0.00	1789.25



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

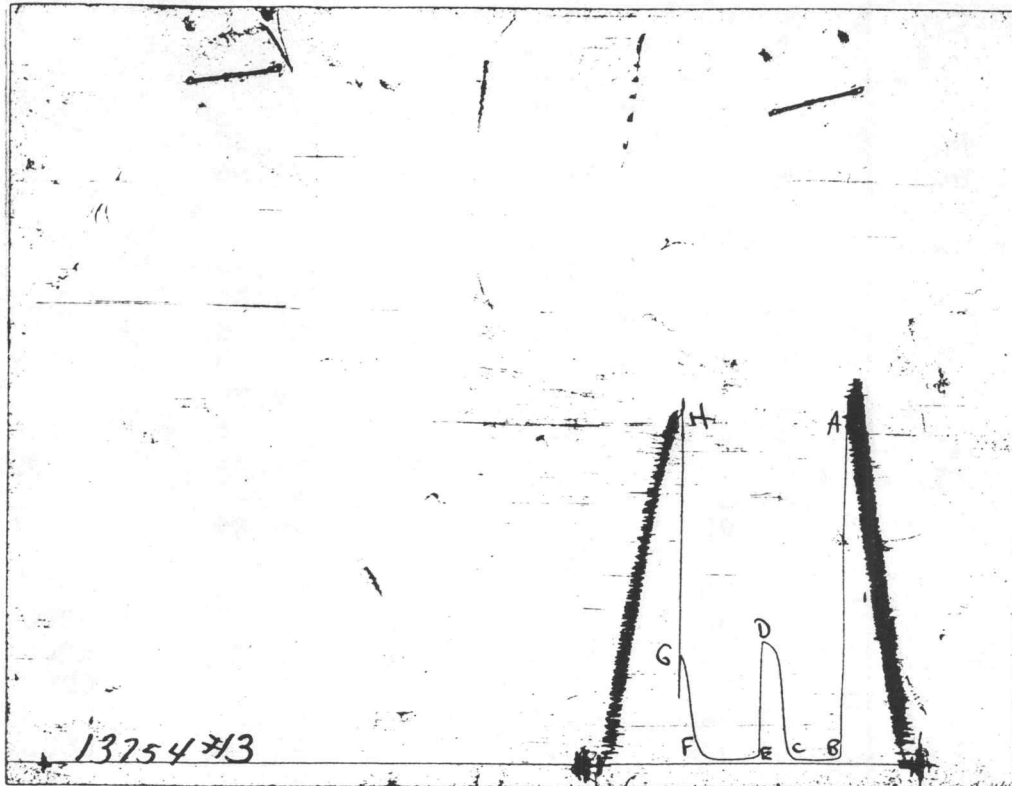
TEST: AFG Energy, Inc. Kraus "A" #11 DST #3

DATE: 01/17/95

TIME: 13:41:19

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	50.00	1821.0	0.0	93.56		
***** Start Flow 1	0.00	17.1	0.0	97.16		
	3.00	17.7	0.6	97.34		
	6.00	17.8	0.7	97.52		
	9.00	18.0	0.8	97.70		
	12.00	18.0	0.9	97.70		
	15.00	18.3	1.2	97.70		
	18.00	18.6	1.5	97.88		
	21.00	18.7	1.6	97.88		
	24.00	19.0	1.9	98.06		
***** End Flow 1	27.00	19.0	1.9	98.24		
***** Start Shutin 1	0.00	19.0	0.0	98.24	0.0000	0.000
	3.00	27.0	8.0	98.42	10.0000	0.001
	6.00	44.6	25.5	98.78	5.5000	0.002
	9.00	83.7	64.6	98.96	4.0000	0.007
	12.00	199.7	180.6	99.14	3.2500	0.040
	15.00	428.0	409.0	99.14	2.8000	0.183
	18.00	572.1	553.1	99.32	2.5000	0.327
	21.00	620.2	601.2	99.50	2.2857	0.385
	24.00	637.4	618.4	99.68	2.1250	0.406
	27.00	646.1	627.0	99.68	2.0000	0.417
***** End Shut-in 1	30.00	651.8	632.7	99.86	1.9000	0.425
***** Start Flow 2	0.00	19.5	0.0	100.04		
	3.00	19.6	0.1	100.22		
	6.00	19.9	0.3	100.40		
	9.00	20.1	0.5	100.76		
	12.00	21.1	1.5	100.94		
	15.00	20.1	0.5	101.12		
	18.00	19.8	0.3	101.48		
	21.00	20.1	0.5	101.66		
	24.00	20.0	0.4	102.02		
***** End Flow 2	27.00	20.0	0.4	102.20		
***** Start Shutin 2	0.00	20.0	0.0	102.20	0.0000	0.000
	3.00	25.9	6.0	102.38	19.0000	0.001
	6.00	34.5	14.5	102.56	10.0000	0.001
	9.00	47.0	27.0	102.74	7.0000	0.002
	12.00	66.6	46.7	102.92	5.5000	0.004
	15.00	100.3	80.3	102.92	4.6000	0.010
	18.00	165.2	145.3	103.10	4.0000	0.027
	21.00	284.3	264.3	103.28	3.5714	0.081
	24.00	433.9	413.9	103.28	3.2500	0.188
	27.00	539.6	519.7	103.46	3.0000	0.291
***** End Shut-in 2	30.00	591.4	571.5	103.46	2.8000	0.350
***** Final Hydro.	183.00	1789.2	0.0	103.82		

CHART PAGE



This is an actual photograph of an AK1 recorder chart
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		1820.97
(B) FIRST INITIAL FLOW PRESSURE		17.11
(C) FIRST FINAL FLOW PRESSURE		19.04
(D) INITIAL CLOSED-IN PRESSURE		651.77
(E) SECOND INITIAL FLOW PRESSURE		19.55
(F) SECOND FINAL FLOW PRESSURE		19.97
(G) FINAL CLOSED-IN PRESSURE		591.43
(H) FINAL HYDROSTATIC MUD		1789.25

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUS 'A' #11 Test No. 4 Date 1/18/95
Company AFG ENERGY, INC. Zone CONG SD
Address BOX 458, HAYS, KS 67601 Elevation 2162
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 3754-3764 Drill Pipe Size 4.5" XH
Anchor Length 10 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3749 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3754 Mud Wt. 9.5 lb/Gal.
Total Depth 3764 Viscosity 55 Filtrate 8.8

Tool Open @ 7:45AM Initial Blow PACKER FAILURE. HIT BRIDGE AT 3454. MISRUN.

Final Blow _____

Recovery - Total Feet 60 Flush Tool? NO

Rec. 60 Feet of DRILLING MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 107 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7,000 ppm System

(A) Initial Hydrostatic Mud 1933.52 PSI AK1 Recorder No. 2342 ELEC Range 4995

(B) First Initial Flow Pressure _____ PSI @ (depth) 3758 w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure _____ PSI @ (depth) 3760 w / Clock No. 27501

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

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

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

(H) Final Hydrostatic Mud 1889.46 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

TEST HISTORY

AFG Energy, Inc. Kraus "A" #11 DST #4 Misrun

Flag Points

t (Min.)	P (PSig)
A: 0.00	1933.52
Q: 0.00	1889.46

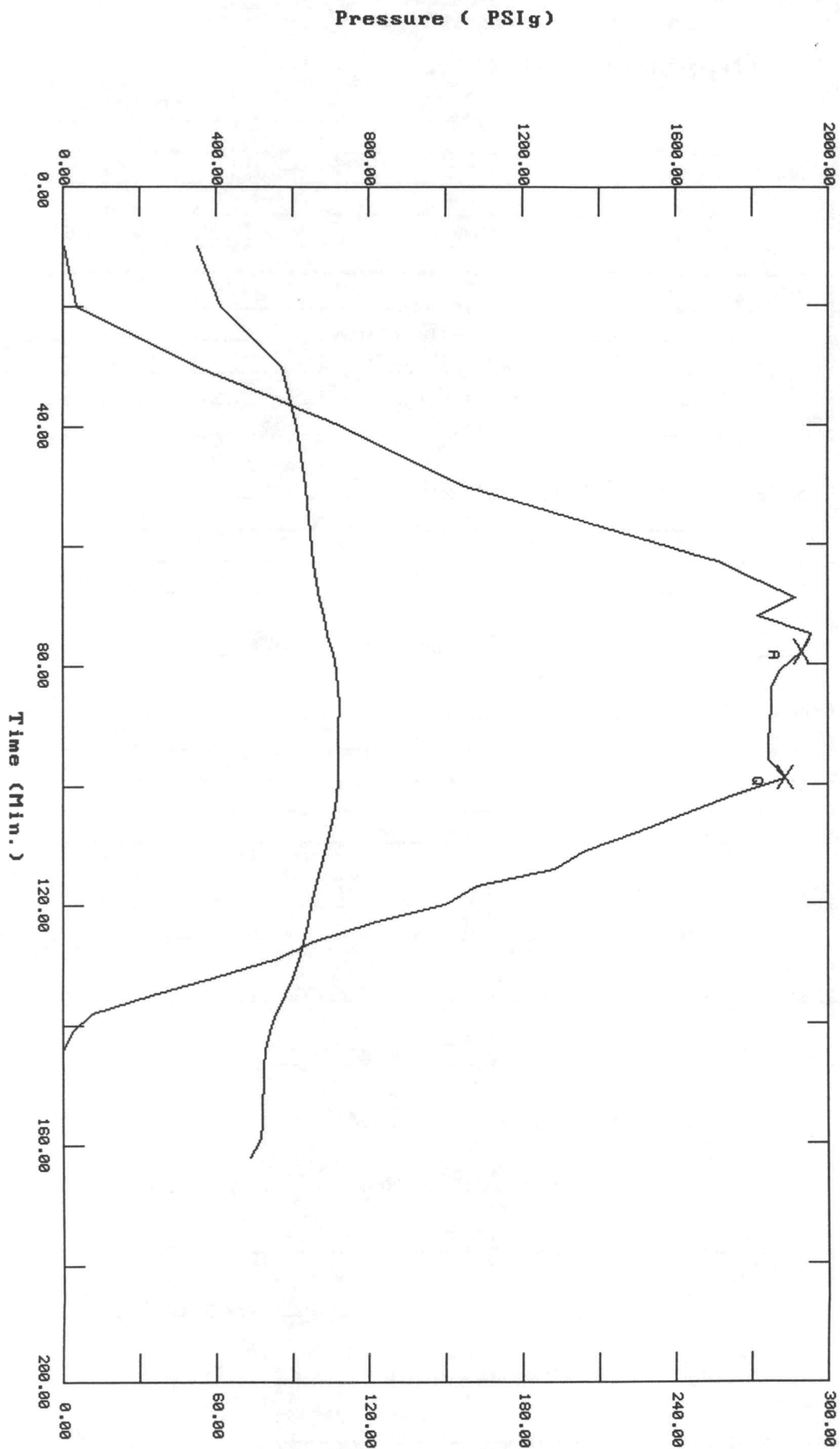
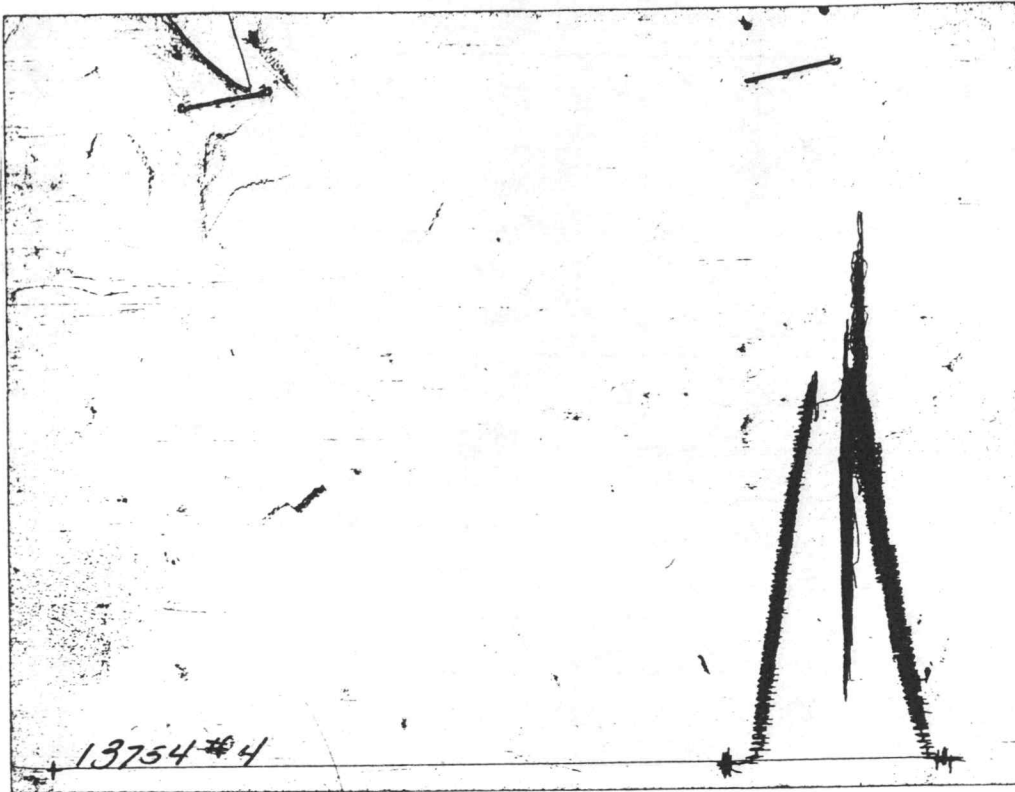


CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUS 'A' #11 Test No. 5 Date 1/18/95
Company AFG ENERGY, INC. Zone CONG SD
Address BOX 458, HAYS, KS 67601 Elevation 2162
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 3737-3764 Drill Pipe Size 4.5" XH
Anchor Length 27 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3732 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3737 Mud Wt. 9.5 lb/Gal.
Total Depth 3764 Viscosity 55 Filtrate 8.8

Tool Open @ 10:39AM Initial Blow WEAK - 1/4" DECREASING TO WEAK SURFACE BLOW. (PLUGGED)

Final Blow WEAK - FLUSHED TOOL. WEAK, BUILDING TO 1/2".

Recovery - Total Feet 30 Flush Tool? YES

Rec. 20 Feet of CLEAN OIL.
Rec. 10 Feet of OIL CUT MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 105 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7.000 ppm System

(A) Initial Hydrostatic Mud 1971.62 PSI AK1 Recorder No. 2342 ELEC Range 4995

(B) First Initial Flow Pressure _____ PSI @ (depth) 3741 w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure _____ PSI @ (depth) 3760 w / Clock No. 27501

(E) Second Initial Flow Pressure 22.82 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 28.28 PSI @ (depth) _____ w / Clock No. _____

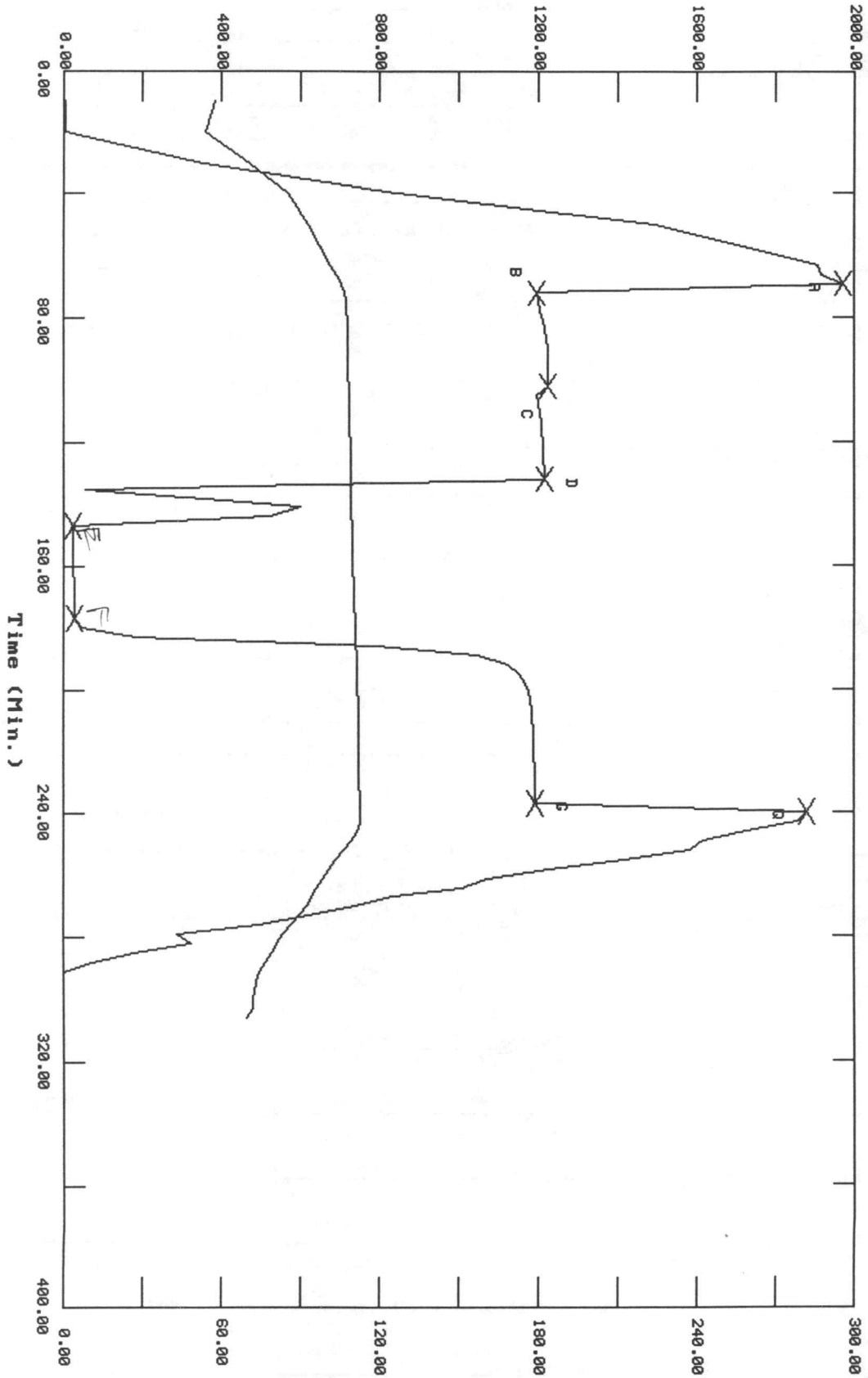
(G) Final Shut-in Pressure 1192.61 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1879.89 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative DAN BANGLE

TEST HISTORY

AFG Energy, Inc. Kraus "A" #11 DST #5



Flag Points

t (Min.)	P (PSig)
A: 0.00	1971.62
B: 0.00	1196.55
C: 30.00	1225.76
D: 30.00	1214.76
E: 0.00	22.82
F: 30.00	28.28
G: 60.00	1192.61
H: 0.00	1879.89

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: AFG Energy, Inc. Kraus "A" #11 DST #5

DATE: 01/18/95

TIME: 09:33:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	69.00	1971.6	0.0	105.44		
***** Start Flow 1	0.00	1196.6	0.0	106.70		
	3.00	1201.0	4.4	107.24		
	6.00	1205.4	8.8	107.60		
	9.00	1211.4	14.9	107.78		
	12.00	1216.1	19.6	107.78		
	15.00	1219.5	22.9	107.96		
	18.00	1222.1	25.6	107.96		
	21.00	1223.9	27.4	108.14		
	24.00	1224.9	28.4	108.14		
	27.00	1225.6	29.0	108.14		
***** End Flow 1	30.00	1225.8	29.2	108.32		
***** Start Shutin 1	0.00	1225.8	0.0	108.32	0.0000	1.502
	3.00	1197.3	-28.5	108.32	11.0000	1.434
	6.00	1200.0	-25.8	108.50	6.0000	1.440
	9.00	1203.7	-22.1	108.50	4.3333	1.449
	12.00	1207.0	-18.8	108.68	3.5000	1.457
	15.00	1209.6	-16.1	108.68	3.0000	1.463
	18.00	1211.2	-14.5	108.86	2.6667	1.467
	21.00	1212.5	-13.3	108.86	2.4286	1.470
	24.00	1213.6	-12.2	109.04	2.2500	1.473
	27.00	1214.3	-11.5	109.22	2.1111	1.474
***** End Shut-in 1	30.00	1214.8	-11.0	109.22	2.0000	1.476
***** Start Flow 2	0.00	22.8	0.0	109.58		
	3.00	21.2	-1.6	109.58		
	6.00	22.1	-0.7	109.58		
	9.00	22.7	-0.1	109.76		
	12.00	23.5	0.7	109.76		
	15.00	24.4	1.6	109.94		
	18.00	26.5	3.7	110.12		
	21.00	26.9	4.1	110.30		
	24.00	27.4	4.5	110.30		
	27.00	27.9	5.1	110.48		
***** End Flow 2	30.00	28.3	5.5	110.66		
***** Start Shutin 2	0.00	28.3	0.0	110.66	0.0000	0.001
	3.00	47.7	19.4	110.84	21.0000	0.002
	6.00	184.6	156.4	110.84	11.0000	0.034
	9.00	792.4	764.1	111.02	7.6667	0.628
	12.00	1048.8	1020.6	111.38	6.0000	1.100
	15.00	1125.3	1097.0	111.38	5.0000	1.266
	18.00	1153.9	1125.6	111.56	4.3333	1.332
	21.00	1167.1	1138.8	111.74	3.8571	1.362
	24.00	1174.2	1146.0	111.74	3.5000	1.379
	27.00	1178.8	1150.6	111.92	3.2222	1.390
	30.00	1182.1	1153.8	111.92	3.0000	1.397
	33.00	1184.4	1156.1	111.92	2.8182	1.403
	36.00	1186.1	1157.9	112.10	2.6667	1.407
	39.00	1187.7	1159.4	112.10	2.5385	1.411
	42.00	1188.7	1160.4	112.10	2.4286	1.413
	45.00	1189.7	1161.4	112.28	2.3333	1.415
	48.00	1190.5	1162.2	112.28	2.2500	1.417

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: AFG Energy, Inc. Kraus "A" #11 DST #5

DATE: 01/18/95 TIME: 09:33:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	51.00	1191.0	1162.7	112.28	2.1765	1.419
	54.00	1191.6	1163.3	112.28	2.1111	1.420
	57.00	1192.2	1163.9	112.46	2.0526	1.421
***** End Shut-in 2	60.00	1192.6	1164.3	112.46	2.0000	1.422
***** Final Hydro.	240.00	1879.9	0.0	112.64		

Horner Plot: shut-in #2 AFG Energy, Inc. Kraus "A" #11 DST #5

Slope: 81.9252 PSig/cycle
 Ext. Pressure: 1219.2852 PSig

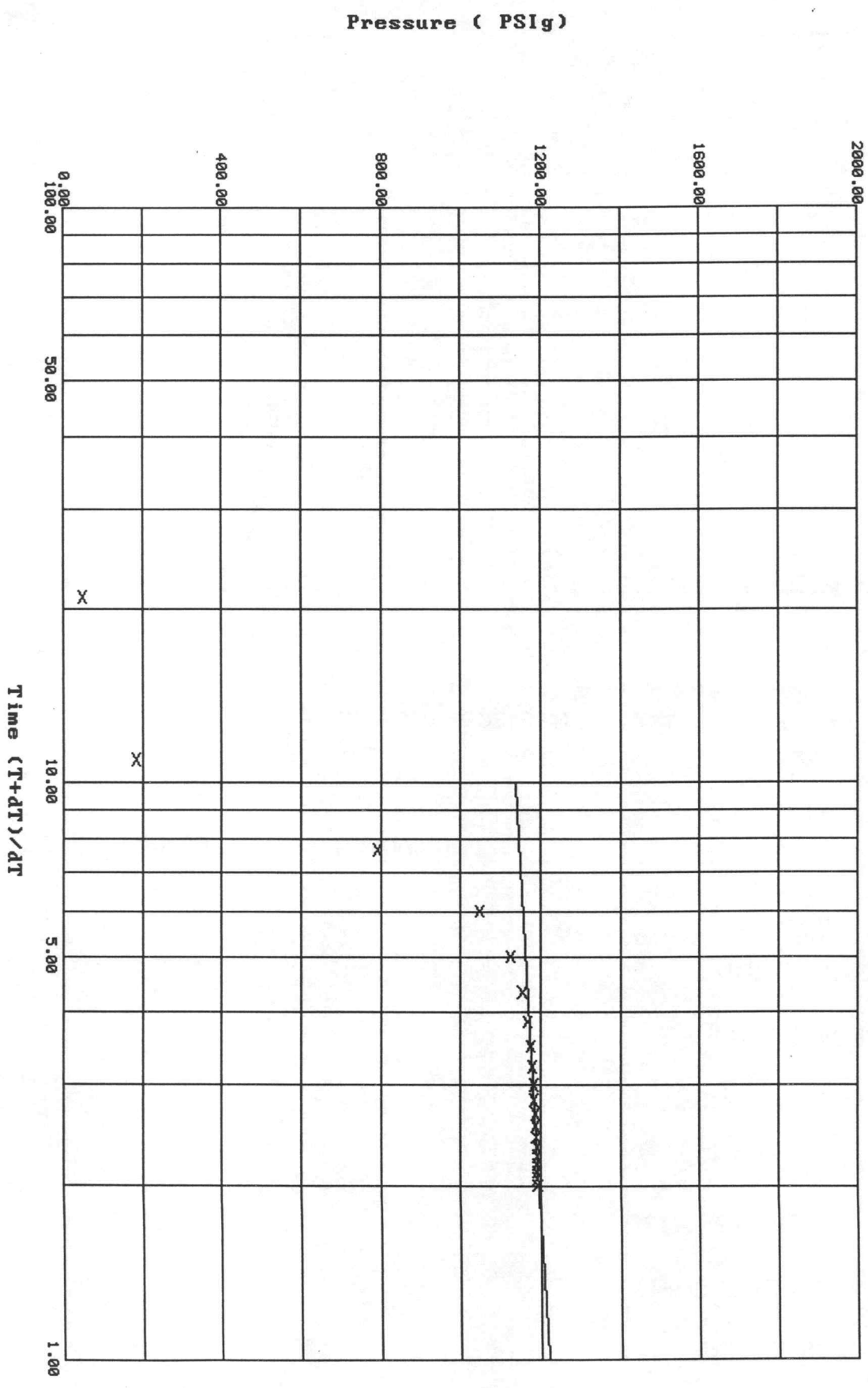


CHART PAGE



This is an actual photograph of an AK1 recorder chart
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		1971.62
(B) FIRST INITIAL FLOW PRESSURE		
(C) FIRST FINAL FLOW PRESSURE		
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE		22.82
(F) SECOND FINAL FLOW PRESSURE		28.28
(G) FINAL CLOSED-IN PRESSURE		1192.61
(H) FINAL HYDROSTATIC MUD		1879.89

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KRAUS 'A' #11 Test No. 6 Date 1/18/95
Company AFG ENERGY, INC. Zone GORHAM SD
Address BOX 458, HAYS, KS 67601 Elevation 2162
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 3737-3769 Drill Pipe Size 4.5" XH
Anchor Length 32 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3232 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3737 Mud Wt. 9.5 lb/Gal.
Total Depth 3769 Viscosity 55 Filtrate 8.8

Tool Open @ 9:42PM Initial Blow WEAK, BUILDING TO ONE INCH. FLUSHED TOOL.

Final Blow STRONG, BOTTOM OF BUCKET IN 3 MINUTES.

Recovery - Total Feet 930 Flush Tool? YES

Rec. 150 Feet of GAS IN PIPE
Rec. 372 Feet of MUD CUT OIL. 80% OIL; 20% MUD.
Rec. 248 Feet of MUD & WATER CUT OIL. 60% OIL; 20% WATER; 20% MUD.
Rec. 310 Feet of WATER. 100% WATER.
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.13 @ 80 °F Chlorides 55,000 ppm Recovery Chlorides 7,000 ppm System

(A) Initial Hydrostatic Mud 1938.98 PSI AK1 Recorder No. 2342 ELEC Range 4995

(B) First Initial Flow Pressure 1187.65 PSI @ (depth) 3741 w / Clock No. _____

(C) First Final Flow Pressure 1198.31 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 1265.62 PSI @ (depth) 3765 w / Clock No. 25810

(E) Second Initial Flow Pressure 101.04 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 434.65 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1154.25 PSI Initial Opening 45 Final Flow 45

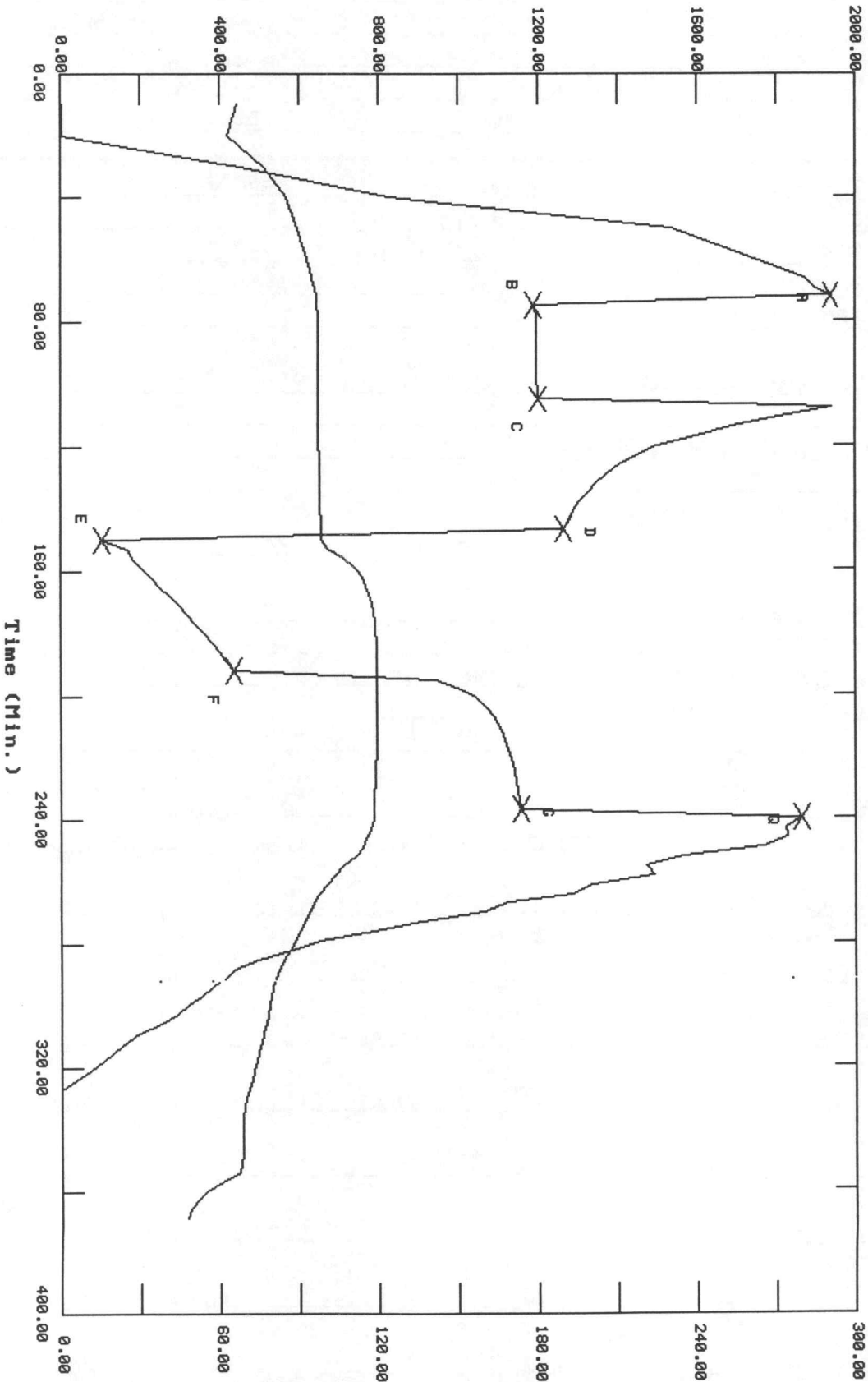
(H) Final Hydrostatic Mud 1864.20 PSI Initial Shut-in 30 Final Shut-in 45

Our Representative DAN BANGLE

TEST HISTORY

Flag Points

t (Min.)	P (PSig)
A: 0.00	1938.98
B: 0.00	1187.65
C: 30.00	1198.31
D: 42.00	1265.62
E: 0.00	101.04
F: 42.00	434.65
G: 45.00	1154.25
Q: 0.00	1864.20



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: AFG Energy, Inc. Kraus "A" #11 DST #6

DATE: 01/18/95

TIME: 20:33:20

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	72.00	1939.0	0.0	96.44		
***** Start Flow 1	0.00	1187.7	0.0	96.62		
	3.00	1194.7	7.0	96.80		
	6.00	1196.0	8.3	96.98		
	9.00	1196.6	9.0	97.16		
	12.00	1197.1	9.4	97.16		
	15.00	1197.4	9.7	97.16		
	18.00	1197.6	10	96.98		
	21.00	1197.8	10.2	96.98		
	24.00	1198.0	10.3	96.98		
	27.00	1198.1	10.5	96.98		
***** End Flow 1	30.00	1198.3	10.7	96.98		
***** Start Shutin 1	0.00	1198.3	0.0	96.98	0.0000	1.436
	3.00	1940.6	742.3	97.16	11.0000	3.766
	6.00	1808.1	609.8	97.16	6.0000	3.269
	9.00	1687.1	488.8	97.34	4.3333	2.846
	12.00	1600.0	401.7	97.34	3.5000	2.560
	15.00	1501.0	302.7	97.34	3.0000	2.253
	18.00	1446.7	248.4	97.52	2.6667	2.093
	21.00	1405.3	207.0	97.52	2.4286	1.975
	24.00	1372.7	174.4	97.52	2.2500	1.884
	27.00	1345.9	147.5	97.70	2.1111	1.811
	30.00	1323.5	125.2	97.70	2.0000	1.752
	33.00	1305.0	106.7	97.88	1.9091	1.703
	36.00	1289.3	91.0	97.88	1.8333	1.662
	39.00	1276.3	78.0	98.06	1.7692	1.629
***** End Shut-in 1	42.00	1265.6	67.3	98.06	1.7143	1.602
***** Start Flow 2	0.00	101.0	0.0	98.24		
	3.00	165.5	64.5	100.58		
	6.00	180.5	79.5	106.52		
	9.00	203.2	102.1	111.20		
	12.00	225.6	124.5	113.90		
	15.00	246.7	145.7	115.16		
	18.00	270.3	169.3	116.60		
	21.00	292.9	191.9	117.50		
	24.00	314.7	213.7	118.22		
	27.00	336.1	235.1	118.58		
	30.00	356.9	255.9	118.94		
	33.00	377.2	276.2	119.12		
	36.00	397.1	296.0	119.30		
	39.00	416.3	315.2	119.30		
***** End Flow 2	42.00	434.7	333.6	119.48		
***** Start Shutin 2	0.00	434.7	0.0	119.48	0.0000	0.189
	3.00	945.5	510.9	119.48	25.0000	0.894
	6.00	1008.0	573.4	119.48	13.0000	1.016
	9.00	1044.0	609.3	119.48	9.0000	1.090
	12.00	1068.7	634.1	119.48	7.0000	1.142
	15.00	1087.0	652.4	119.48	5.8000	1.182
	18.00	1101.0	666.4	119.48	5.0000	1.212
	21.00	1112.1	677.5	119.30	4.4286	1.237
	24.00	1121.1	686.4	119.30	4.0000	1.257

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: AFG Energy, Inc. Kraus "A" #11 DST #6

DATE: 01/18/95

TIME: 20:33:20

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	27.00	1128.4	693.7	119.12	3.6667	1.273
	30.00	1134.6	700.0	118.94	3.4000	1.287
	33.00	1139.8	705.2	118.76	3.1818	1.299
	36.00	1144.2	709.5	118.58	3.0000	1.309
	39.00	1148.1	713.5	118.40	2.8462	1.318
	42.00	1151.4	716.7	118.22	2.7143	1.326
***** End Shut-in 2	45.00	1154.3	719.6	118.22	2.6000	1.332
***** Final Hydro.	240.00	1864.2	0.0	118.04		

Horner Plot: shut-in #2

AFG Energy, Inc. Kraus "A" #11 DST #6

Slope: 182.0160 PSig/cycle
Ext. Pressure: 1230.6824 PSig

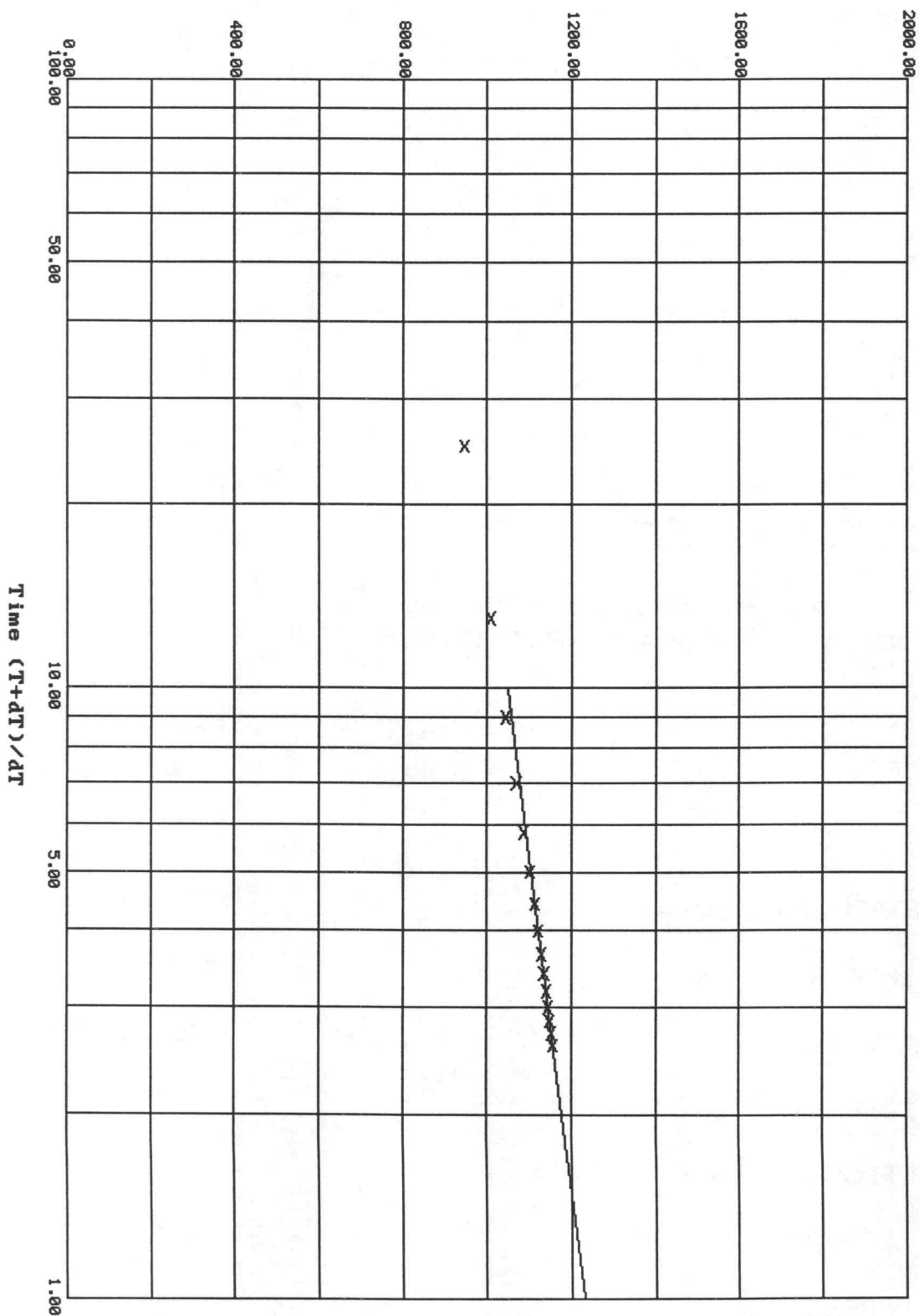
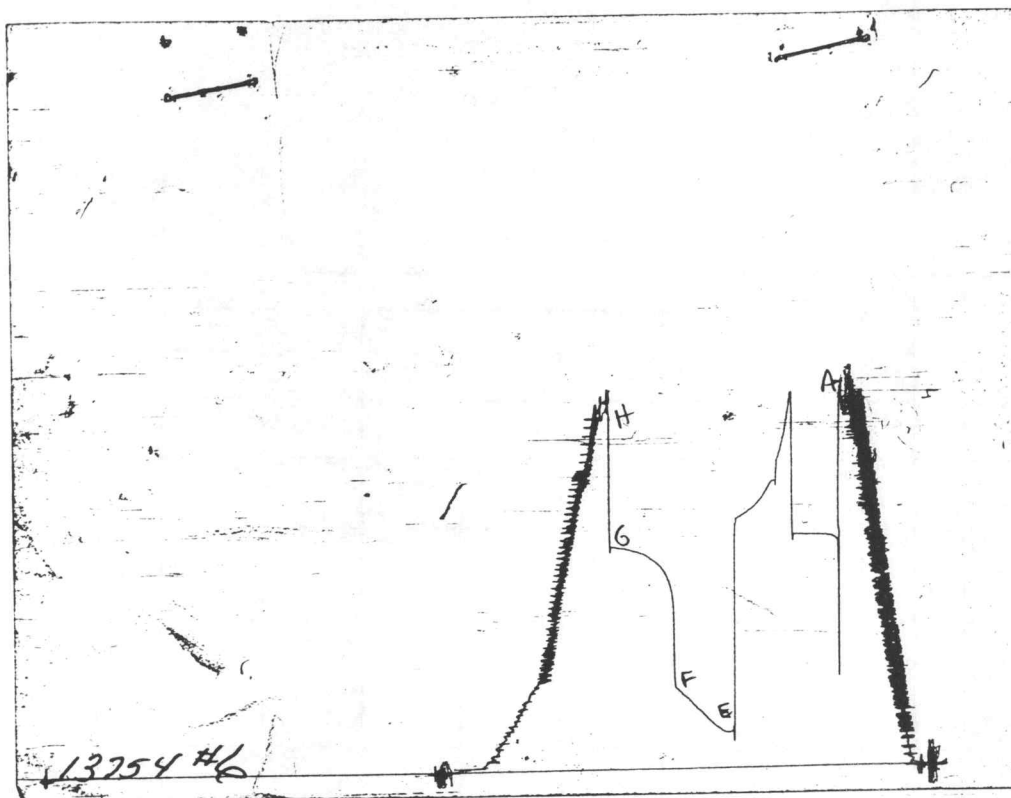


CHART PAGE



This is an actual photograph of an AK1 recorder chart
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		1938.98
(B) FIRST INITIAL FLOW PRESSURE		1187.65
(C) FIRST FINAL FLOW PRESSURE		1198.31
(D) INITIAL CLOSED-IN PRESSURE		1265.62
(E) SECOND INITIAL FLOW PRESSURE		101.04
(F) SECOND FINAL FLOW PRESSURE		434.65
(G) FINAL CLOSED-IN PRESSURE		1154.25
(H) FINAL HYDROSTATIC MUD		1864.20