CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

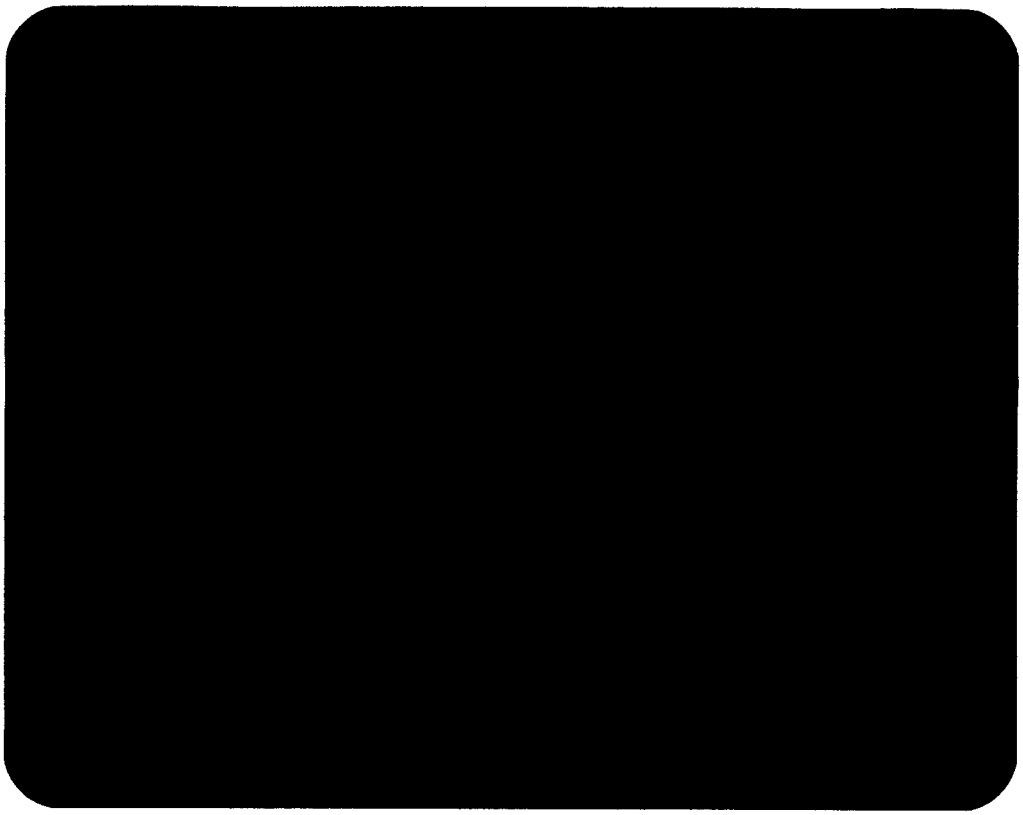
DRILL-STEM TEST DATA

Company	John O. Farmer, Inc.	Test No.	1
Well Name & Number	Klenk #1	Zone Tested	Lansing
Company Address	Box 352, Russell, Ks.	Date	10-18-77
Comp. Rep.	Sam Farmer	Tester	Marvin Printz
Contractor	Company Tools	Elevation	2354 K.B.
Location: Sec. 18 Twp. 9 Rge. 23 Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 7437 Type Kuster Range 4200 PSI
Recorder Depth 3737
(A) Initial Hydrostatic Mud 2107 PSI
(B) First Initial Flow Pressure 54 PSI
(C) First Final Flow Pressure 65 PSI
(D) Initial Closed-in Pressure 948 PSI
(E) Second Initial Flow Pressure - PSI
(F) Second Final Flow Pressure - PSI
(G) Final Closed-in Pressure - PSI
(H) Final Hydrostatic Mud 2086 PSI
Temperature 108°
Mud Weight 9.9 Viscosity 43
Fluid Loss 12.0 cc
Interval Tested 3715-3745
Anchor Length 30'
Top Packer Depth 3710
Bottom Packer Depth 3715
Total Depth 3745
Drill Pipe Size 4½ EX.H.
Wt. Pipe I. D. 2.7 Ft. Run 1292
Recovery—Total Feet 75'

Recorder No. 3695 Type Kuster Range 5300 PSI
Recorder Depth 3740
Tool Open Before I. S. I. 30 Mins.
Initial Shut-in 30 Mins.
Flow Period - Mins.
Final Shut-in - Mins.
Surface Choke Size 1"
Bottom Choke Size 3/4"
Main Hole Size 7 7/8"
Rubber Size 6 3/4"
Tool Open @ 5:02 P.M.
Blow Weak Blow. Flushed Tool 6 minutes after initial opening. Blow dead 17 minutes after opening.
Remarks
Drill Collar I. D. Ft. Run

Recovered 75 Feet Of Drlg. Mud
Recovered Feet Of
Recovered Feet Of
Recovered Feet Of
Extra Equipment Price of Job $380.00



Actual recorder chart

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2107		PSI
(B)	First Initial Flow Pressure	54		PSI
(C)	First Final Flow Pressure	65		PSI
(D)	Initial Closed-in Pressure	948		PSI
(E)	Second Initial Flow Pressure	-		PSI
(F)	Second Final Flow Pressure	-		PSI
(G)	Final Closed-in Pressure	-		PSI
(H)	Final Hydrostatic Mud	2086		PSI

COMPANY JOHN O. FARNER, INC. LEASE AND WELL NO. KLENK #1 SEC. 18 TWP. 9 RGE. 23 TEST NO. 1 DATE 10-18-77

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	John O. Farmer, Inc.	Test No.	2
Well Name & Number	Klenk #1	Zone Tested	K.C.
Company Address	Box 352, Russell, Kan.	Date	10-19-77
Comp. Rep.	Sam Farmer	Tester	Marvin Printz
Contractor	Company Tools	Elevation	2354 K.B.
Location: Sec. 18 Twp. 9 Rge. 23 Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 7437 Type Kuster Range 4200 PSI

Recorder Depth 3826

(A) Initial Hydrostatic Mud 2223 PSI

(B) First Initial Flow Pressure 32 PSI

(C) First Final Flow Pressure 32 PSI

(D) Initial Closed-in Pressure 65 PSI

(E) Second Initial Flow Pressure - PSI

(F) Second Final Flow Pressure - PSI

(G) Final Closed-in Pressure - PSI

(H) Final Hydrostatic Mud 2202 PSI

Temperature 108°

Mud Weight 9.9 Viscosity 42

Fluid Loss 10.8 cc

Interval Tested 3800-3833

Anchor Length 33'

Top Packer Depth 3795

Bottom Packer Depth 3800

Total Depth 3833

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 1251

Recovery—Total Feet 15'

Recorder No. 3695 Type Kuster Range 5300 PSI

Recorder Depth 3830

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 30 Mins.

Flow Period - Mins.

Final Shut-in - Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 3:45 P.M.

Blow Weak blow. Dead after 14 minutes

Remarks on I.F.P.

Drill Collar I. D. Ft. Run

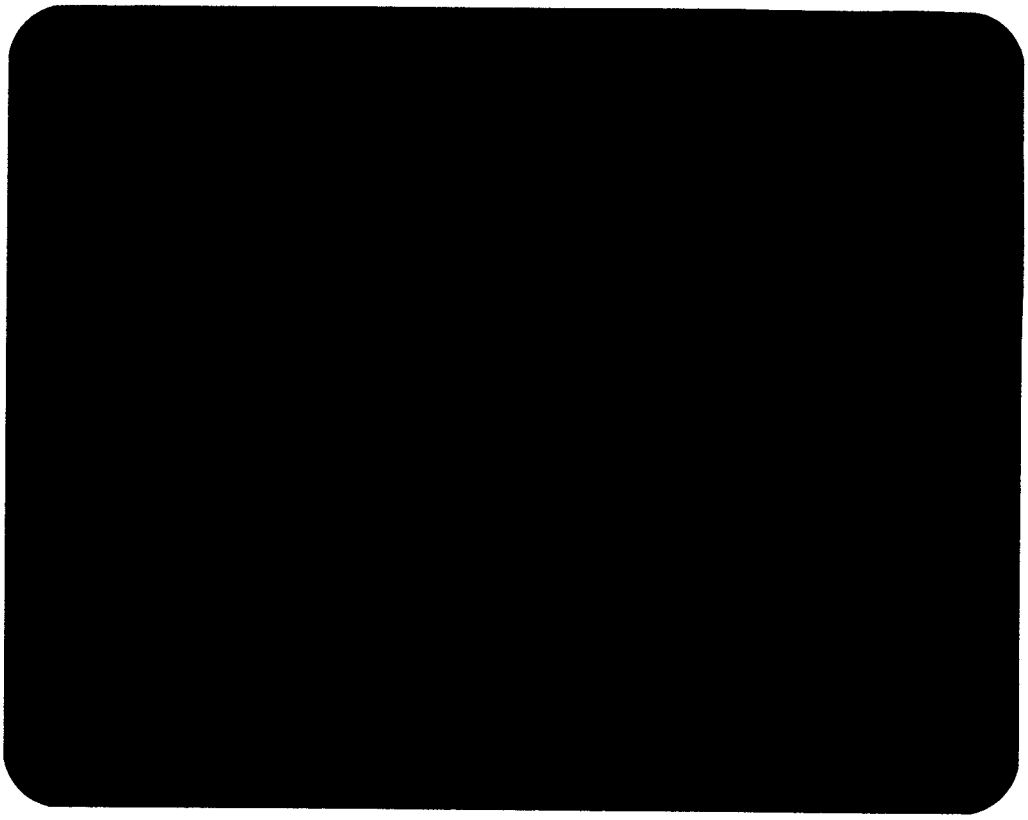
Recovered 15 Feet Of Mud -- Oil specked on tool.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job $380.00



Actual recorder chart

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2223		PSI
(B)	First Initial Flow Pressure	32		PSI
(C)	First Final Flow Pressure	32		PSI
(D)	Initial Closed-in Pressure	65		PSI
(E)	Second Initial Flow Pressure	-		PSI
(F)	Second Final Flow Pressure	-		PSI
(G)	Final Closed-in Pressure	-		PSI
(H)	Final Hydrostatic Mud	2202		PSI

COMPANY JOHN O. FARMER, INC. LEASE AND WELL NO. KLENK #1 SEC. 18 TWP. 9 RGE. 23 TEST NO. 2 DATE 10-19-77

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	John O. Farmer, Inc.	Test No.	3
Well Name & Number	Klenk #1	Zone Tested	K.C.
Company Address	Box 352, Russell, Kan.	Date	10-20-77
Comp. Rep.	Sam Farmer	Tester	Marvin Printz
Contractor	Company Tools	Elevation	2354 K.B.
Location: Sec. 18 Twp. 9 Rge. 23 Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 7437 Type Kuster Range 4200 PSI

Recorder Depth 3846

(A) Initial Hydrostatic Mud 2223 PSI

(B) First Initial Flow Pressure 54 PSI

(C) First Final Flow Pressure 131 PSI

(D) Initial Closed-in Pressure 512 PSI

(E) Second Initial Flow Pressure 141 PSI

(F) Second Final Flow Pressure 218 PSI

(G) Final Closed-in Pressure 502 PSI

(H) Final Hydrostatic Mud 2202 PSI

Temperature

Mud Weight 9.9 Viscosity 42

Fluid Loss 10.8 cc

Interval Tested 3830-3852

Anchor Length 22'

Top Packer Depth 3825

Bottom Packer Depth 3830

Total Depth 3852

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 1251

Recovery—Total Feet 1245

Recovered 780 Feet Of Gas in Pipe

Recovered 465 Feet Of Muddy, Gasey Oil 10% Mud

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 3695 Type Kuster Range 5300 PSI

Recorder Depth 3849

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

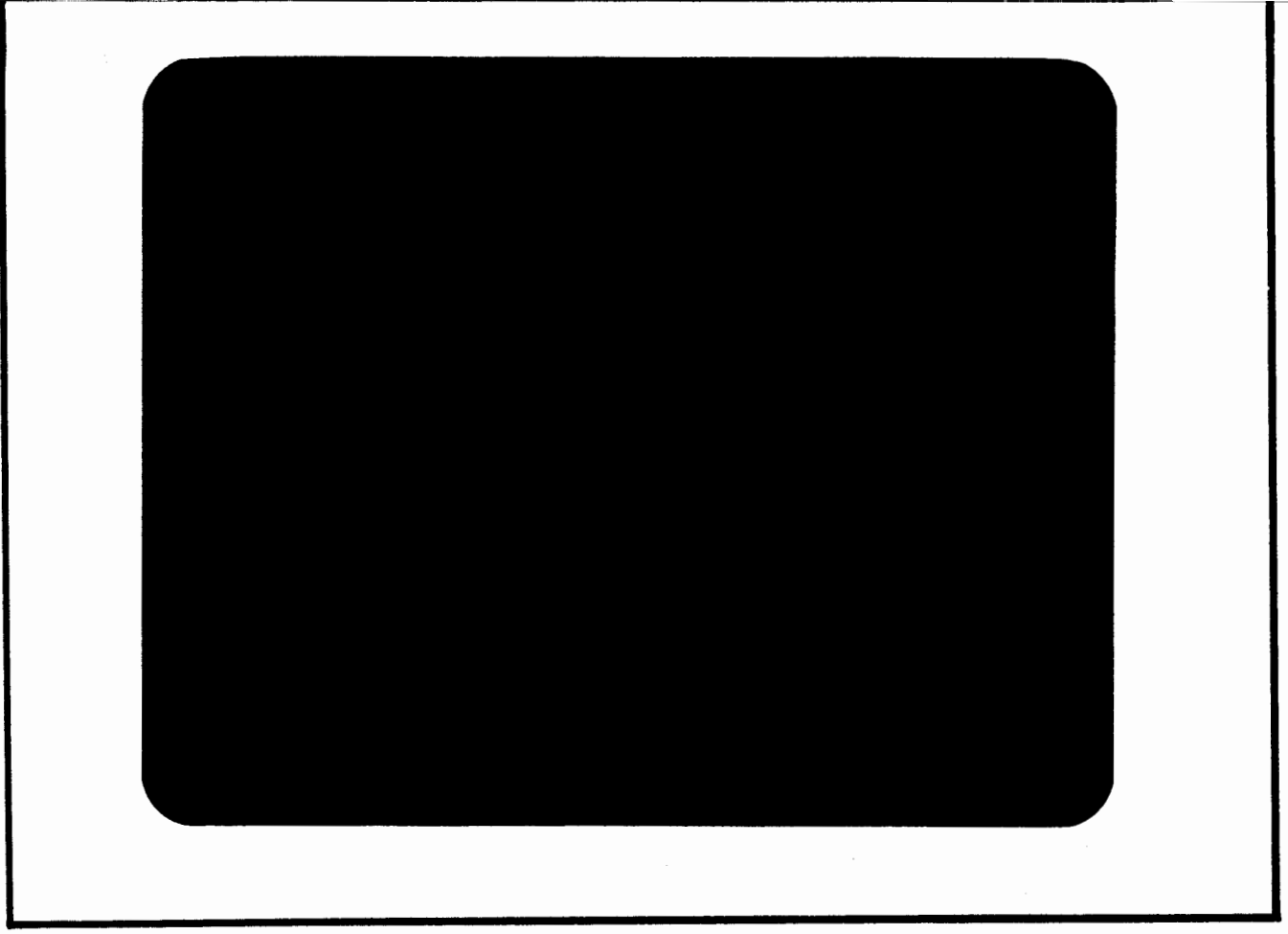
Tool Open @ 2:10 A.M.

Blow Strong blow throughout Test.

Remarks

Drill Collar I. D. Ft. Run

Price of Job $380.00



Actual recorder chart

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2223	2128	PSI
(B)	First Initial Flow Pressure	54	56	PSI
(C)	First Final Flow Pressure	131	144	PSI
(D)	Initial Closed-in Pressure	512	514	PSI
(E)	Second Initial Flow Pressure	141	144	PSI
(F)	Second Final Flow Pressure	218	236	PSI
(G)	Final Closed-in Pressure	502	506	PSI
(H)	Final Hydrostatic Mud	2202	2084	PSI

COMPANY JOHN O. FARMER, INC. LEASE AND WELL NO. KLENK #1 SEC. 18 TWP. 9 RGE. 23 TEST NO. 3 DATE 10-20-77

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	John O. Farmer, Inc.	Test No.	4
Well Name & Number	Klenk #1	Zone Tested	K.C.
Company Address	Box 352, Russell, Kan.	Date	10-20-77
Comp. Rep.	Sam Farmer	Tester	Marvin Printz
Contractor	Company Tools	Elevation	2354 K.B.
Location: Sec. 18 Twp. 9 Rge. 23 Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 7437 Type Kuster Range 4200 PSI

Recorder Depth 3883

(A) Initial Hydrostatic Mud 2234 PSI

(B) First Initial Flow Pressure 32 PSI

(C) First Final Flow Pressure 43 PSI

(D) Initial Closed-in Pressure 294 PSI

(E) Second Initial Flow Pressure 54 PSI

(F) Second Final Flow Pressure 65 PSI

(G) Final Closed-in Pressure 1096 PSI

(H) Final Hydrostatic Mud 2128 PSI

Temperature

Mud Weight 9.9 Viscosity 42

Fluid Loss 10.8 cc

Interval Tested 3862-3890

Anchor Length 28'

Top Packer Depth 3857

Bottom Packer Depth 3862

Total Depth 3890

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 1251

Recorder No. 3695 Type Kuster Range 5300 PSI

Recorder Depth 3887

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 30 Mins.

Flow Period 60 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 7:00 P.M.

Blow Tool opened with weak blow--

Remarks increased to fair blow remainder of test.

Drill Collar I. D. Ft. Run

Recovery—Total Feet 220'

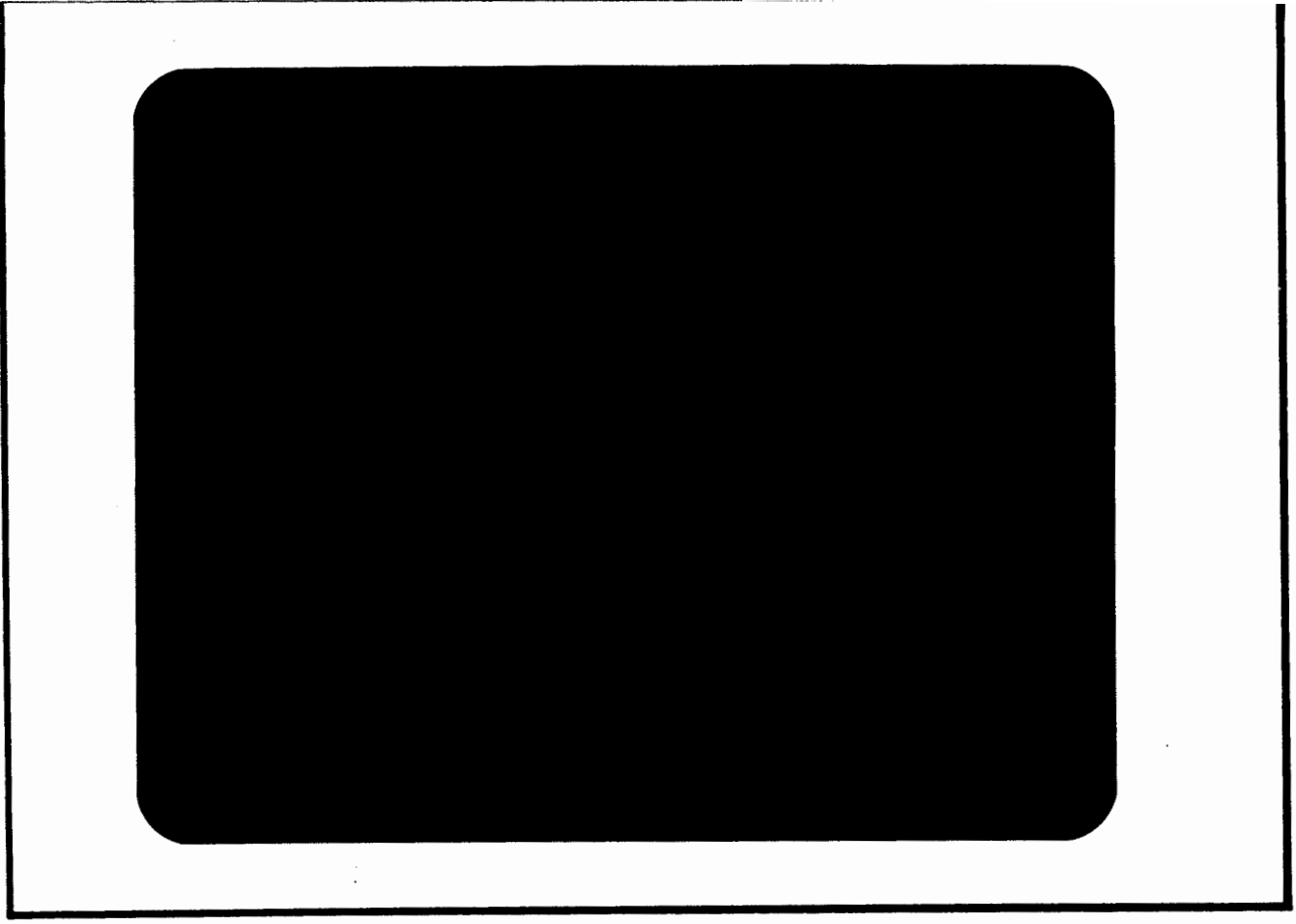
Recovered 130 Feet Of Gas in Pipe

Recovered 60 Feet Of O.C.M.

Recovered 30 Feet Of H.O.C.M.

Recovered Feet Of

Extra Equipment Price of Job $380.00



Actual recorder chart

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2234		PSI
(B)	First Initial Flow Pressure	32		PSI
(C)	First Final Flow Pressure	43		PSI
(D)	Initial Closed-in Pressure	294		PSI
(E)	Second Initial Flow Pressure	54		PSI
(F)	Second Final Flow Pressure	65		PSI
(G)	Final Closed-in Pressure	1096		PSI
(H)	Final Hydrostatic Mud	2128		PSI

COMPANY JOHN O. FARMER, INC. LEASE AND WELL NO. KLENK #1 SEC. 18 TWP. 9 RGE. 23 TEST NO. 4 DATE 10-20-77