CHENEY TESTING COMPANY, INC.

P. O. Box 367 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Bowers Drilling Company	Test No.	1
Well Name & Number	Subera #1	Zone Tested	Simpson
Company Address	125 N. Market, Wichita, Kansas 67202	Date	4-12-86
Company Rep.	Phil Hargis	Tester	Kurt Karst
Contractor	Red Tiger	Elevation	1190 G.L.
Location: Sec. 22 Twp. 34s Rge. 3w Co. Sumner State Kansas		Est. Feet of Pay	

Recorder No. 13768 Type AK-1 Range 4175 PSI

Recorder Depth 4728 Clock # 25560

(A) Initial Hydrostatic Mud 2341 PSI

(B) First Initial Flow Pressure 84 PSI

(C) First Final Flow Pressure 199 PSI

(D) Initial Shut-in Pressure 1635 PSI

(E) Second Initial Flow Pressure 273 PSI

(F) Second Final Flow Pressure 514 PSI

(G) Final Shut-in Pressure 1624 PSI

(H) Final Hydrostatic Mud 2341 PSI

Temperature 140

Mud Weight 9.4 Viscosity 51

Fluid Loss 13.6

Interval Tested 4725-4737

Anchor Length 12'

Top Packer Depth 4720

Bottom Packer Depth 4725

Total Depth 4737

Drill Pipe Size 4½ X.H.

Wt. Pipe I. D. 2.7 Ft. Run 921

Recovery-Total Feet 920

Recovered 60 Feet Of Slightly Oil Cut Watery Mud.

Recovered 860 Feet Of Saltwater

Recovered 700 Feet Of Gas In Pipe.

Recovered ____ Feet Of

Recovered ____ Feet Of

Recovered ____ Feet Of

Extra Equipment Bowen Jars, Safety Joint Price of Job $625.00

Recorder No. 13805 Type AK-1 Range 4250 PSI

Recorder Depth 4732 Clock # 7062

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

Initial Shut-in 30 Mins.

Flow Period 60 Mins.

Final Shut-in 60 Mins.

Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 7:20 P.M.

Blow Remarks Fair To Strong To Good Blow.

1st Open- Off Bottom Of Bucket In 8 Minutes, Strong Blow.

2nd Open- Off Bottom of Bucket In 35 Minutes, Good Blow.

Recovery Chlorides- 108,000 PPM

MILLER PRINTERS, INC.
Great Bend, Kansas

CHENEY TESTING COMPANY, INC.

P. O. BOX 367 HILL CITY, KANSAS 67642

Dist. Pratt

TEST TICKET

Company Bowers Drlg Co.	Test No. 1
Well Name & Number Subera #1	Zone Tested Simp.
Company Address 125 No Market, Wichita, Ks. 67202	Date 4-12-86
Company Rep. Phil Hargis	Tester Kurt Karst
Contractor Red Tiger #5	Elevation 1190 GL.
Location: Sec. 22 Twp. 34 Rge. 3W Co. Sumner State Ks.	

Recorder ~~X~~ No. 13268 Type AK-1 Range 4175 PSI
Recorder Depth 4728 Clock # 25560

(A) Initial Hydrostatic Mud 2341 PSI
(B) First Initial Flow Pressure 84 PSI
(C) First Final Flow Pressure 199 PSI
(D) Initial Shut-in Pressure 1635 PSI
(E) Second Initial Flow Pressure 273 PSI
(F) Second Final Flow Pressure 514 PSI
(G) Final Shut-in Pressure 1624 PSI
(H) Final Hydrostatic Mud 2341 PSI

Temperature 140°F
Mud Weight 9.4 51 Viscosity
Fluid Loss 13.6
Interval Tested 4725-4737
Anchor Length 12'
Top Packer Depth 4720
Bottom Packer Depth 4725
Total Depth 4737
Drill Pipe Size 4½ X-H
Wt. Pipe I. D. 2.7 Ft. Run 921'
Recovery—Total Feet 920
Rec. 60' SltLy OC watery Mud
Rec. 860' Saltwater
Rec.
Rec. Chl. 108,000 PPM.
Rec.
Rec. 700' GIP

Recorder No. 13805 Type AK-1 Range 4250 PSI
Recorder Depth 4732 Clock # 7062

Tool Open Before I. S. I. 30 Mins.
Initial Shut-in 30 Mins.
Flow Period 60 Mins.
Final Shut-in 60 Mins.
T Choke Size 1" Hole Size 7⅞
B Choke Size ¾ Rubber Size 6¾
Tool Open @ 7:20 P.M.
Blow Fair to Strong to good
Remarks

1st open Off bottom of bucket in 8 min, Strong blow

2nd open off bottom of bucket in 35 min, good blow

Test	$625.00
Straddle	
Bowen Jars X	NC
Safety Joint X	NC
Selective Zone Tool	
Sampler	
Extra Packer	
Circulating Sub	
Down Hole Insurance	
Others	
Price of Job	$625.00

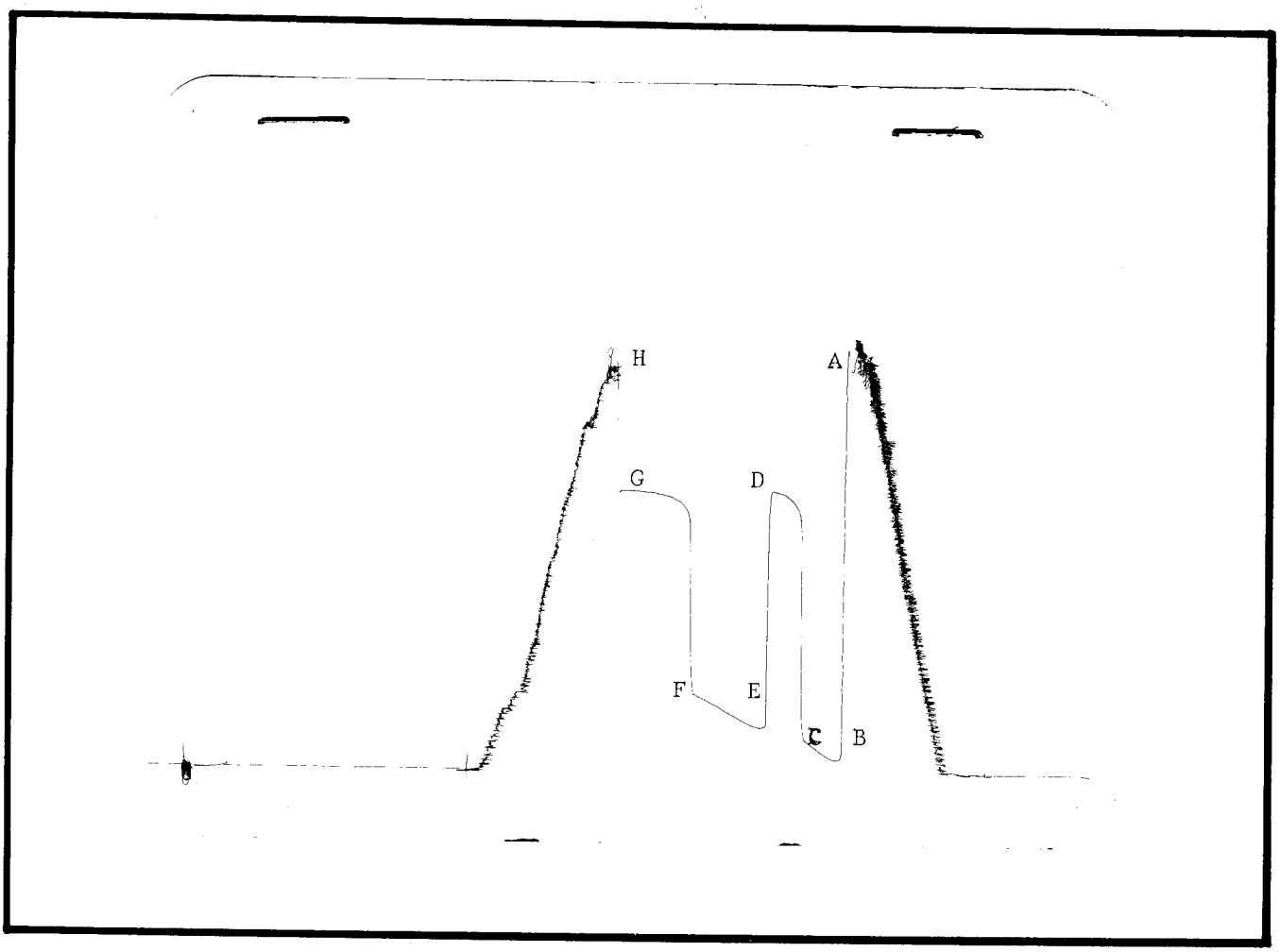
CHENEY TESTING COMPANY, INC.

Approved By Phil Hargis

Our Representative Kurt Karst

TICKET No 12115

MILLER PRINTERS, INC. — Great Bend, Kansas



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2341		PSI
(B)	First Initial Flow Pressure	84		PSI
(C)	First Final Flow Pressure	199		PSI
(D)	Initial Closed-in Pressure	1635		PSI
(E)	Second Initial Flow Pressure	273		PSI
(F)	Second Final Flow Pressure	514		PSI
(G)	Final Closed-in Pressure	1624		PSI
(H)	Final Hydrostatic Mud	2341		PSI

COMPANY BOWERS DRILLING COMPANY LEASE AND WELL NO. SUBERA #1 SEC. 22 TWP. 34 RGE. 3W TEST NO. 2 DATE 4-12-86