

This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2130	PSI
(B) First Initial Flow Pressure	95	PSI
(C) First Final Flow Pressure	157	PSI
(D) Initial Closed-in Pressure	891	PSI
(E) Second Initial Flow Pressure	189	PSI
(F) Second Final Flow Pressure	222	PSI
(G) Final Closed-in Pressure	795	PSI
(H) Final Hydrostatic Mud	2101	PSI

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

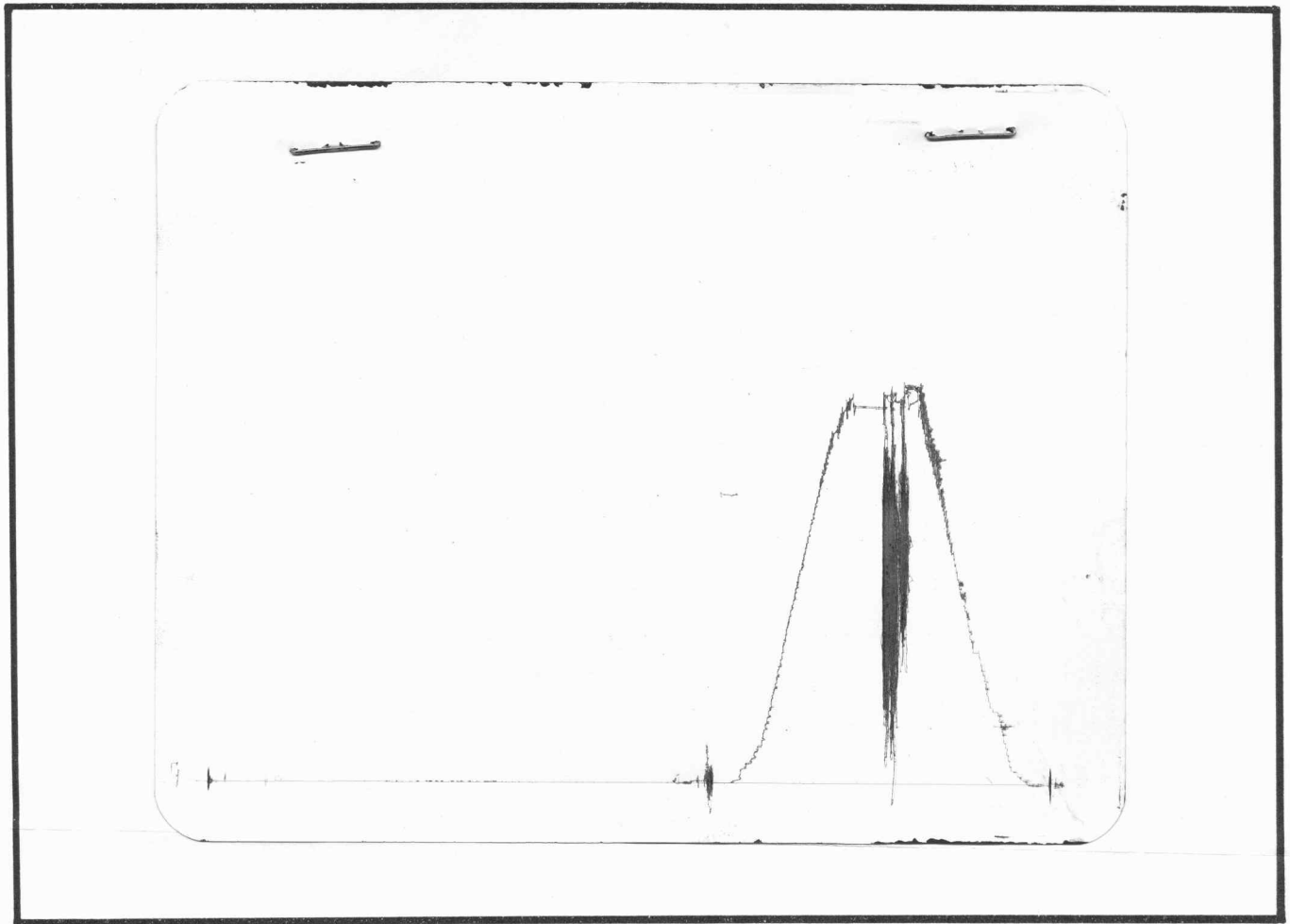
25-165-2/W

Company Abercrombie & Associates	Test No. 2
Well Name & Number Grumbein #3	Zone Tested Cherokee
Company Address Wichita, Kansas	Date 1-12-81
Comp. Rep. Steve Frankamp	Tester Bill Nichols
Contractor Abercrombie Drlg.	Elevation 2204 K.B.
Location: Sec. 25 Twp. 16s Rge. 21w Co. Ness State Kans	Est. Feet of Pay

Recorder No. 7370 Type AK-1 Range 4050 PSI
 Recorder Depth 4088
 (A) Initial Hydrostatic Mud PSI
 (B) First Initial Flow Pressure PSI
 (C) First Final Flow Pressure PSI
 (D) Initial Closed-in Pressure PSI
 (E) Second Initial Flow Pressure PSI
 (F) Second Final Flow Pressure PSI
 (G) Final Closed-in Pressure PSI
 (H) Final Hydrostatic Mud PSI
 Temperature
 Mud Weight 9.9 Viscosity 42
 Fluid Loss 12
 Interval Tested 4069-4080
 Anchor Length 11'
 Top Packer Depth 4064
 Bottom Packer Depth 4069
 Total Depth 4080
 Drill Pipe Size 4 1/2 F.H.
 Wt. Pipe I. D. 2.70 Ft. Run 575
 Recovery—Total Feet 610
 Recovered 610 Feet Of Drilling Mud.
 Recovered Feet Of
 Recovered Feet Of
 Recovered Feet Of

Recorder No. 10290 Type AK-1 Range 4250 PSI
 Recorder Depth 4075
 Tool Open Before I. S. I. Mins.
 Initial Shut-in 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 @
 Blow Misrun
 Remarks Packer Failure
 Drill Collar I. D. 2.25 Ft. Run 236

Extra Equipment Price of Job \$300.00 - Misrun



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

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

25-165-21w

Company	Abercrombie & Associates	Test No.	3
Well Name & Number	Grumbein #3	Zone Tested	Cherokee
Company Address	Wichita, Kansas	Date	1-12-81
Comp. Rep.	Steve Frankamp	Tester	Bill Nichols
Contractor	Abercrombie Drlg. Co.	Elevation	2204 K.B.
Location: Sec. 25 Twp. 16s Rge. 21w Co. Ness State Ks.		Est. Feet of Pay	

Recorder No. 7370 Type AK-1 Range 4050 PSI

Recorder Depth 4080

(A) Initial Hydrostatic Mud _____ PSI

(B) First Initial Flow Pressure _____ PSI

(C) First Final Flow Pressure _____ PSI

(D) Initial Closed-in Pressure _____ PSI

(E) Second Initial Flow Pressure _____ PSI

(F) Second Final Flow Pressure _____ PSI

(G) Final Closed-in Pressure _____ PSI

(H) Final Hydrostatic Mud _____ PSI

Temperature _____

Mud Weight 9.9 Viscosity 42

Fluid Loss 12

Interval Tested 4072-4080

Anchor Length 8'

Top Packer Depth 4067

Bottom Packer Depth 4072

Total Depth 4080

Drill Pipe Size 4" F.H.

Wt. Pipe I. D. 2.70 Ft. Run 575

Recovery—Total Feet 780

Recovered 780 Feet Of Drlg. Mud.

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment None

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder Depth a/p

Tool Open Before I. S. I. _____ Mins.

Initial Shut-in _____ 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"

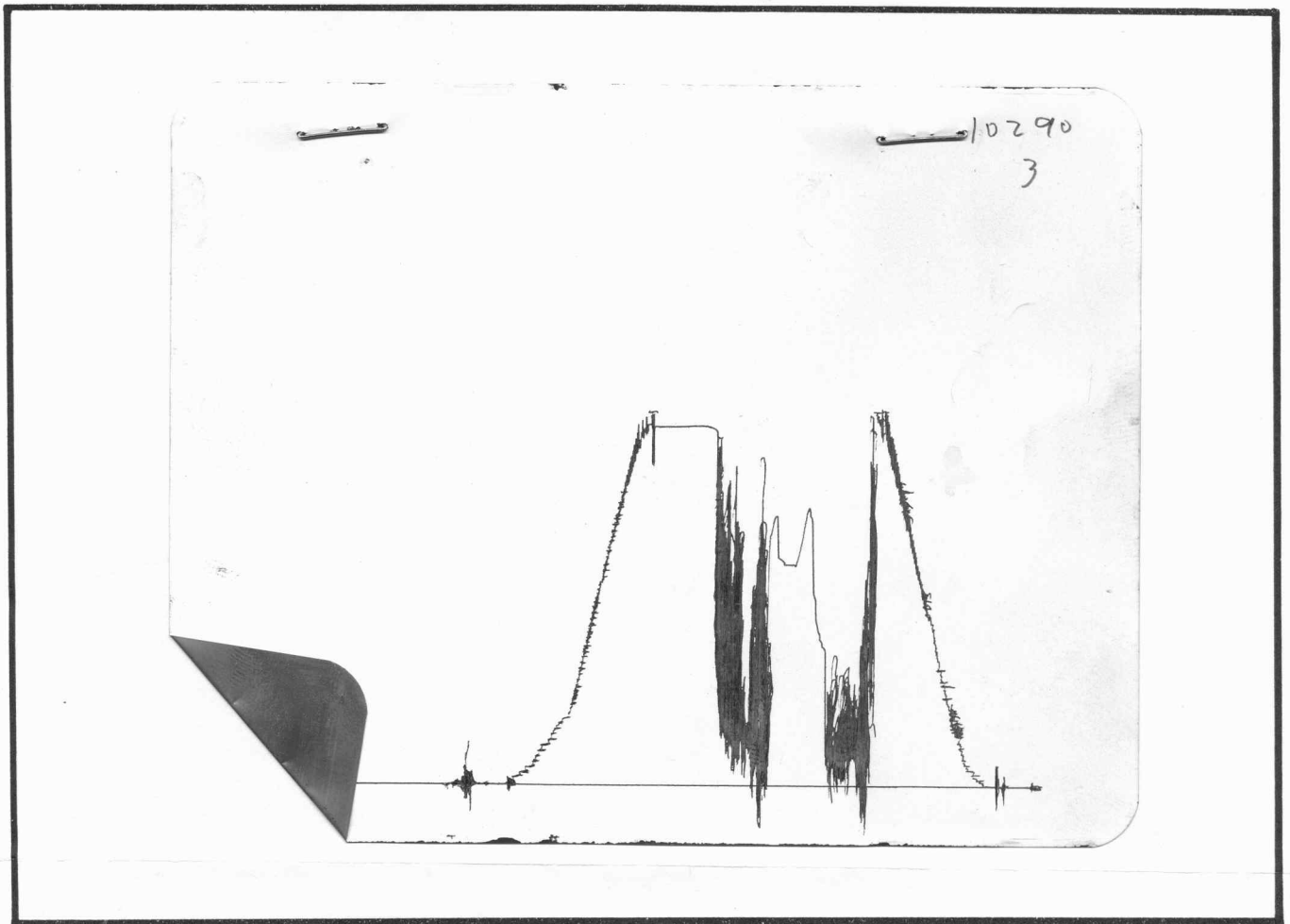
Tool Open @ 4:59 A.M.

Blow Misrun

Remarks _____

Drill Collar I. D. _____ Ft. Run _____

Price of Job \$300.00 - Misrun



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

25-165-21w

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Abercrombie & Associates	Test No.	4
Well Name & Number	Grumbein #3	Zone Tested	Cherokee
Company Address	Wichita, Kansas	Date	1-13-81
Comp. Rep.	Steve Frankamp	Tester	Bill Nichols
Contractor	Abercrombie Drlg. Co.	Elevation	2204 K.B.
Location: Sec. 25 Twp. 16s Rge. 21w Co. Ness State Kansas		Est. Feet of Pay	

Recorder No. 7370 Type AK-1 Range 4050 PSI

Recorder Depth 4040

(A) Initial Hydrostatic Mud 2166 PSI

(B) First Initial Flow Pressure 31 PSI

(C) First Final Flow Pressure 31 PSI

(D) Initial Closed-in Pressure 1273 PSI

(E) Second Initial Flow Pressure 31 PSI

(F) Second Final Flow Pressure 63 PSI

(G) Final Closed-in Pressure 957 PSI

(H) Final Hydrostatic Mud 2040 PSI

Temperature

Mud Weight 9.9 Viscosity 50

Fluid Loss 11.2

Interval Tested 4097-4140

Anchor Length 43

Top Packer Depth 4092

Bottom Packer Depth 4097

Total Depth 4160

Drill Pipe Size 4 1/2 F.H.

Wt. Pipe I. D. 565 Ft. Run

Recovery—Total Feet 5

Recovered Feet Of Drlg. Mud.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Straddle Test

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder Depth A/P

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

Initial Shut-in 45 Mins.

Flow Period 30 Mins.

Final Shut-in 45 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 10:35 A.M.

Blow No Blow Either Openings.

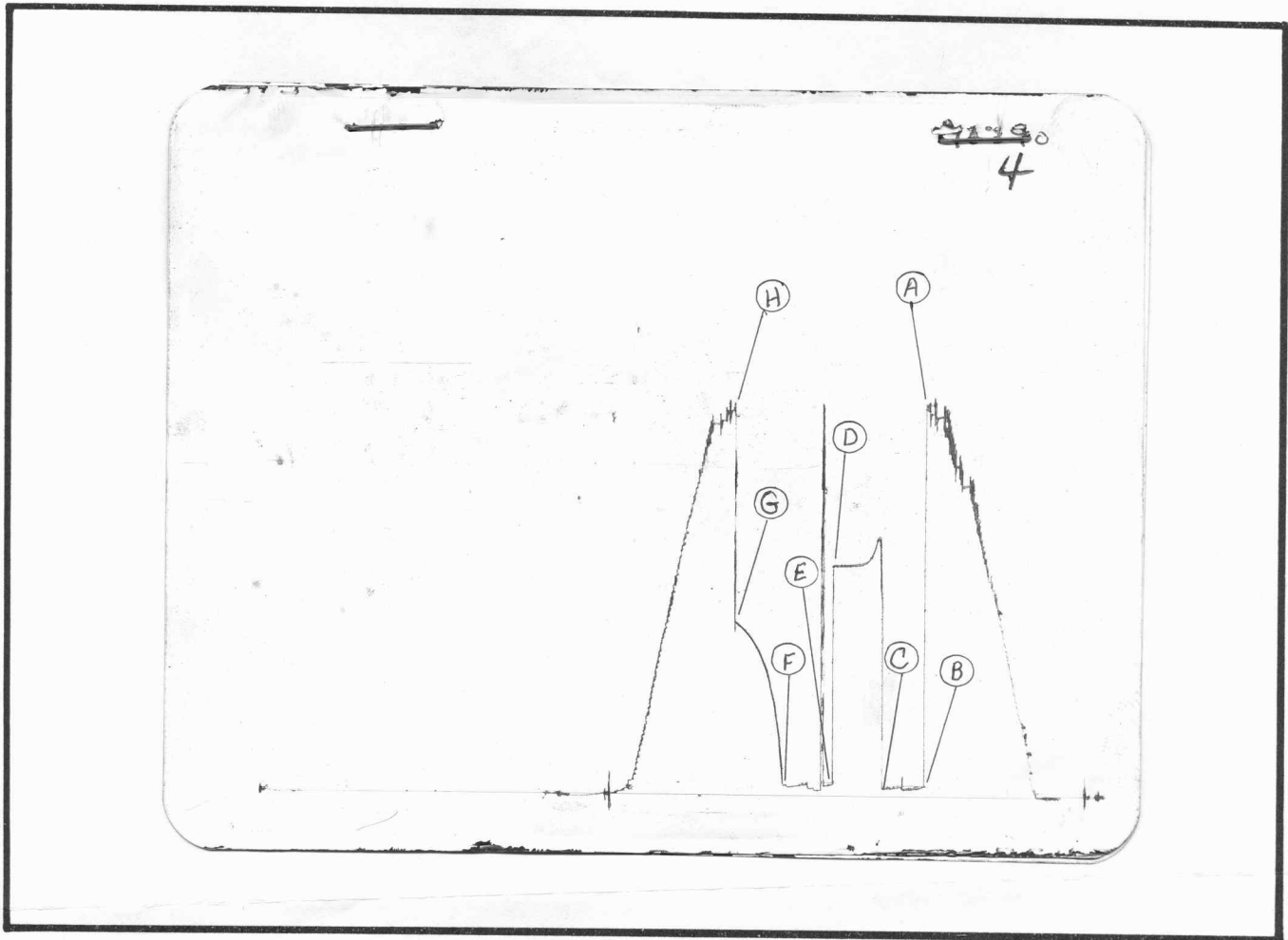
Remarks Flushed Tool On 2nd Open.

Drill Collar I. D. Ft. Run

DST \$650.00

Straddle \$250.00

Price of Job \$900.00



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POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2166		PSI
(B) First Initial Flow Pressure	31		PSI
(C) First Final Flow Pressure	31		PSI
(D) Initial Closed-in Pressure	1273		PSI
(E) Second Initial Flow Pressure	31		PSI
(F) Second Final Flow Pressure	63		PSI
(G) Final Closed-in Pressure	957		PSI
(H) Final Hydrostatic Mud	2040		PSI