CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company AL Abercrombie Inc.	Test No. 1
Well Name & Number 801 Union Center	Zone Tested KC
Company Address Wichita,KS	Date 9-2-79
Comp. Rep. Vic Reiserer	Tester Kenneth Cheney
Contractor Abercrombie Drlg	Elevation 3117 KB
Location: Sec. 28 Twp. 11 Rge. 33w Co. Logan State KS	Est. Feet of Pay 17

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder Depth 4137

(A) Initial Hydrostatic Mud 2044 PSI

(B) First Initial Flow Pressure 21 PSI

(C) First Final Flow Pressure 54 PSI

(D) Initial Closed-in Pressure 1285 PSI

(E) Second Initial Flow Pressure 87 PSI

(F) Second Final Flow Pressure 113 PSI

(G) Final Closed-in Pressure 1233 PSI

(H) Final Hydrostatic Mud 2030 PSI

Temperature

Mud Weight 9.1 Viscosity 42

Fluid Loss 10.0

Interval Tested 4116-4145

Anchor Length 29

Top Packer Depth 4111

Bottom Packer Depth 4116

Total Depth 4145

Drill Pipe Size 4½ XH

Wt. Pipe I. D. 3.25 Ft. Run 567

Recovery—Total Feet 180

Recovered 180 Feet Of Muddy water

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment None

Recorder No. 7437 Type AK-1 Range 4200 PSI

Recorder Depth 4140

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

Initial Shut-in 45 Mins.

Flow Period 60 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"

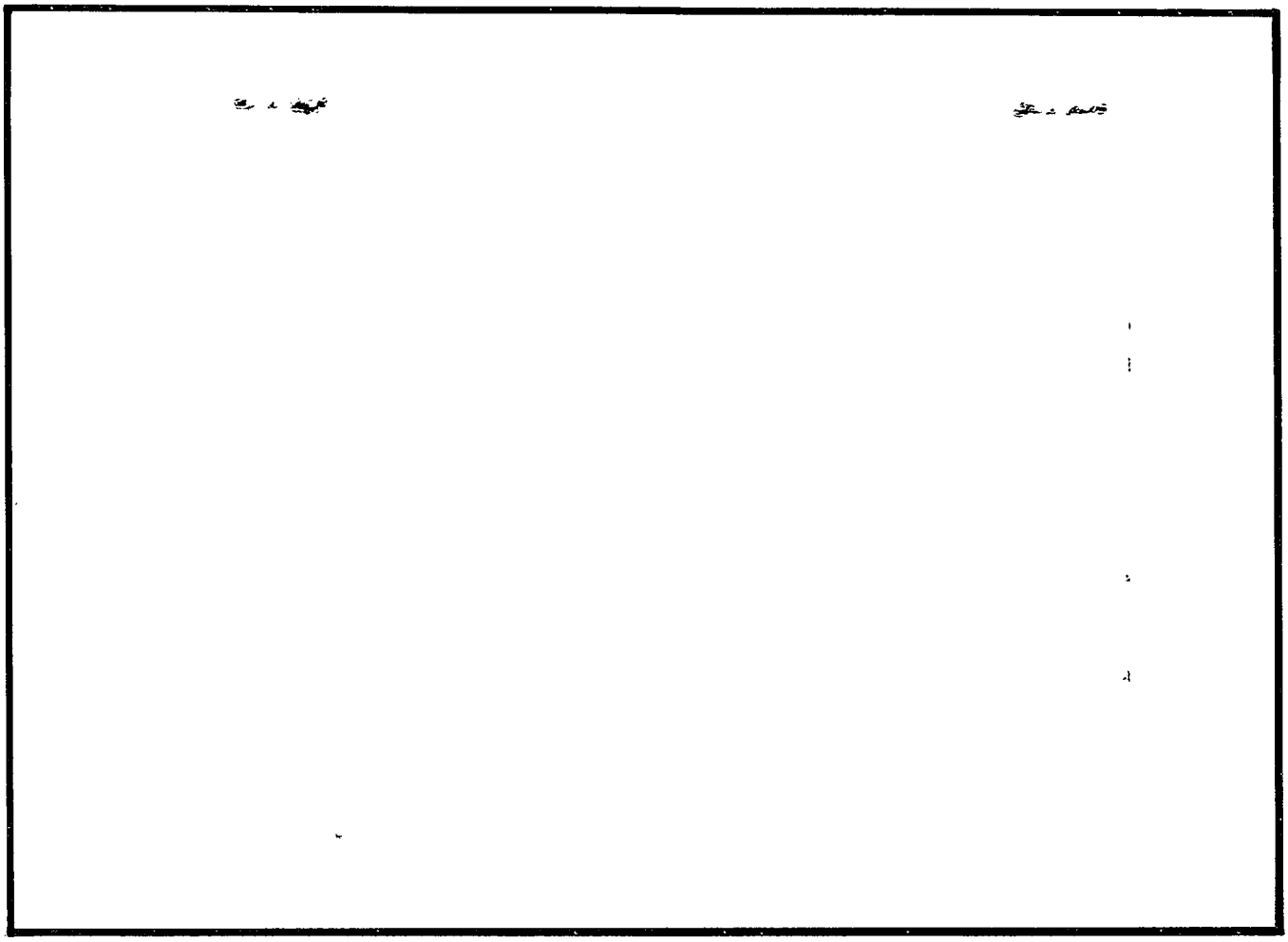
Tool Open @ 1:30 PM

Blow Fair

Remarks

Drill Collar I. D. Ft. Run

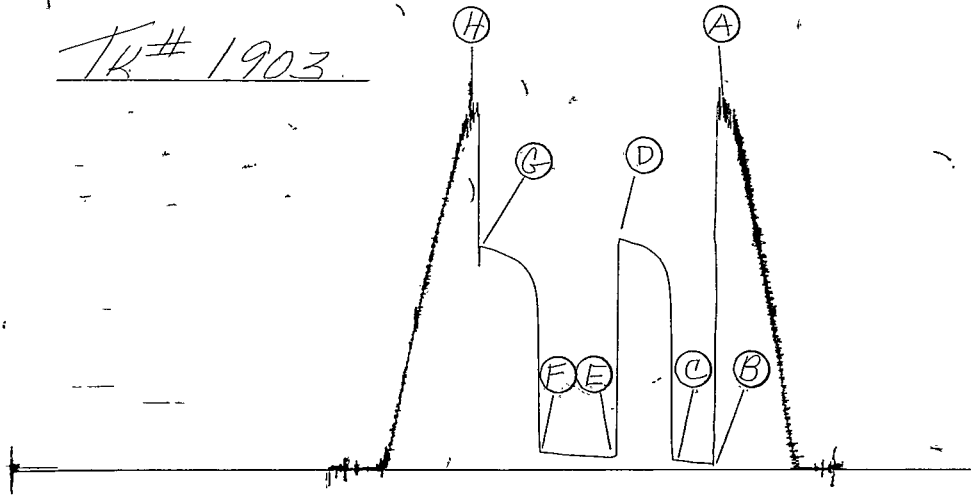
Price of Job $520.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2044		PSI
(B)	First Initial Flow Pressure	21		PSI
(C)	First Final Flow Pressure	54		PSI
(D)	Initial Closed-in Pressure	1285		PSI
(E)	Second Initial Flow Pressure	87		PSI
(F)	Second Final Flow Pressure	113		PSI
(G)	Final Closed-in Pressure	1233		PSI
(H)	Final Hydrostatic Mud	2030		PSI

TK# 1903



CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company A L Abercrombie Inc.	Test No. 2
Well Name & Number Hubert #6	Zone Tested KC
Company Address Wichita,KS	Date 9-3-79
Comp. Rep. Vic Reiserer	Tester Kenneth Cheney
Contractor Abercrombie Drlg. Inc.	Elevation 3117 DF
Location: Sec. 28 Twp. 11 Rge. 33 Co. Logan State KS	Est. Feet of Pay 6

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder Depth 4210

(A) Initial Hydrostatic Mud 2046 PSI

(B) First Initial Flow Pressure 21 PSI

(C) First Final Flow Pressure 54 PSI

(D) Initial Closed-in Pressure 1223 PSI

(E) Second Initial Flow Pressure 76 PSI

(F) Second Final Flow Pressure 130 PSI

(G) Final Closed-in Pressure 1212 PSI

(H) Final Hydrostatic Mud 2030 PSI

Temperature

Mud Weight 9.2 Viscosity 42

Fluid Loss 10.0

Interval Tested 4180-4220

Anchor Length 40

Top Packer Depth 4175

Bottom Packer Depth 4180

Total Depth 4220

Drill Pipe Size 4½ XH

Wt. Pipe I. D. 3.25 Ft. Run 567

Recovery—Total Feet 210

Recovered 210 Feet Of Clean salt water

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment NONE

Recorder No. 7437 Type AK-1 Range 4200 PSI

Recorder Depth 4215

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

Initial Shut-in 45 Mins.

Flow Period 60 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"

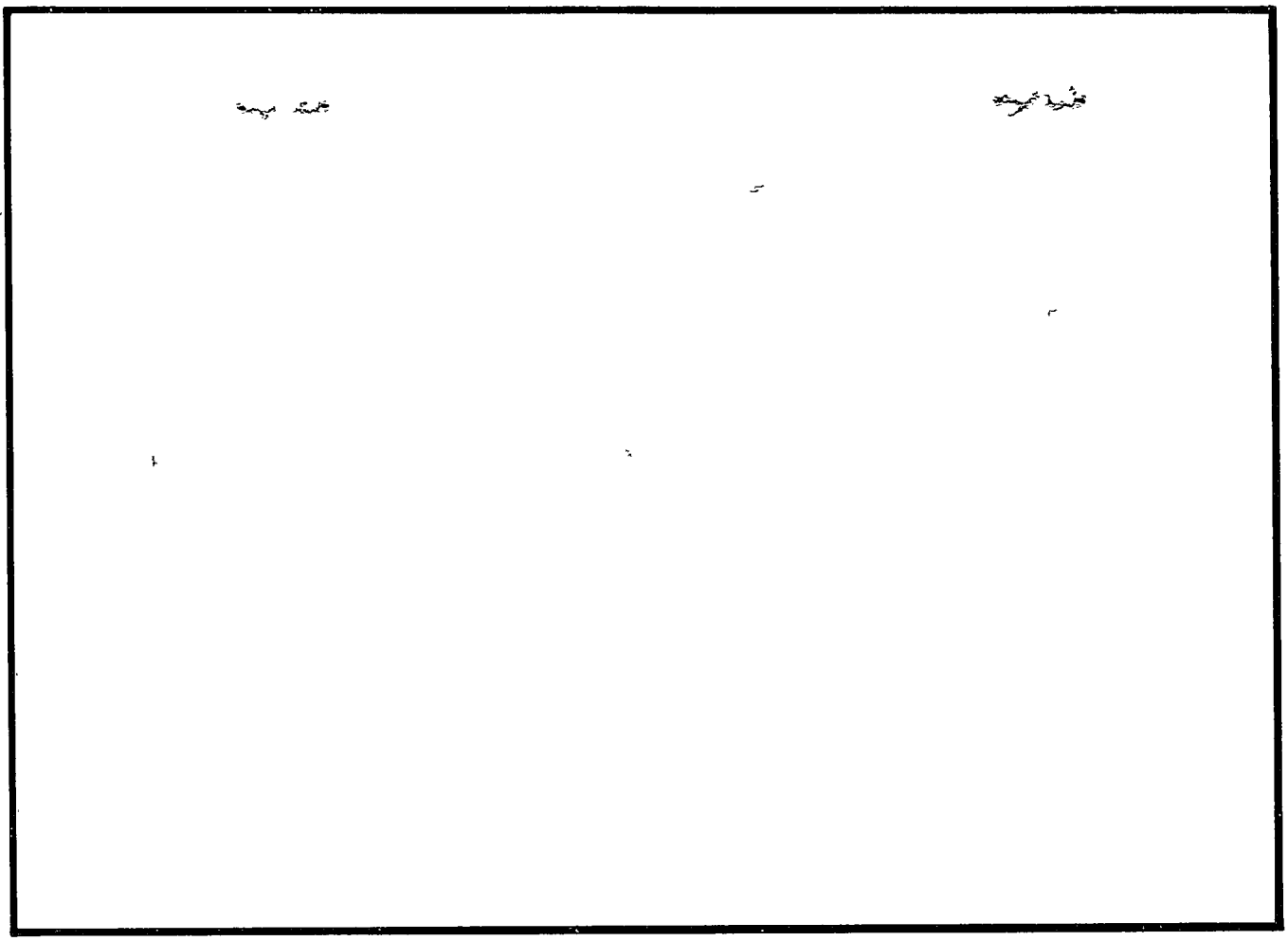
Tool Open @ 4:05 AM

Blow Good

Remarks

Drill Collar I. D. Ft. Run

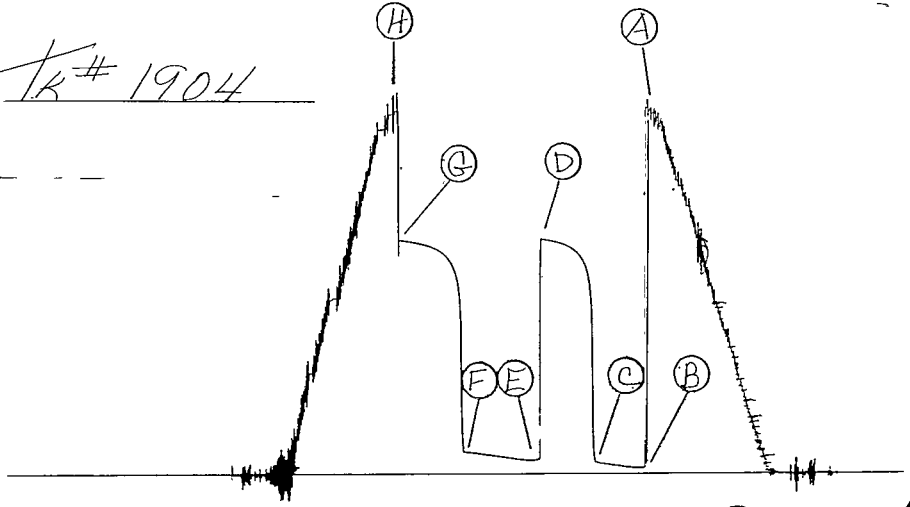
Price of Job $520.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2046		PSI
(B)	First Initial Flow Pressure	21		PSI
(C)	First Final Flow Pressure	54		PSI
(D)	Initial Closed-in Pressure	1223		PSI
(E)	Second Initial Flow Pressure	76		PSI
(F)	Second Final Flow Pressure	130		PSI
(G)	Final Closed-in Pressure	1212		PSI
(H)	Final Hydrostatic Mud	2030		PSI

K# 1904



CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company AL Abercrombie	Test No. 3
Well Name & Number Hubert #6	Zone Tested KC
Company Address Wichita,KS	Date 9-3-79
Comp. Rep. Vic Reiserer	Tester Kenneth Cheney
Contractor Abercrombie Drlg.	Elevation 3117 DF
Location: Sec. 28 Twp. 11 Rge. 33 Co. Logan State KS	Est. Feet of Pay 5

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder Depth 4249

(A) Initial Hydrostatic Mud 2040 PSI

(B) First Initial Flow Pressure 21 PSI

(C) First Final Flow Pressure 21 PSI

(D) Initial Closed-in Pressure 67 PSI

(E) Second Initial Flow Pressure 28 PSI

(F) Second Final Flow Pressure 28 PSI

(G) Final Closed-in Pressure 87 PSI

(H) Final Hydrostatic Mud 2026 PSI

Temperature 117

Mud Weight 9.2 Viscosity 42

Fluid Loss 10.0

Interval Tested 4230-4257

Anchor Length 27

Top Packer Depth 4225

Bottom Packer Depth 4230

Total Depth 4257

Drill Pipe Size 4½ XH

Wt. Pipe I. D. 3.25 Ft. Run 567

Recorder No. 7437 Type AK-1 Range 4200 PSI

Recorder Depth 4252

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

Initial Shut-in 45 Mins.

Flow Period 60 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 @ 8:20 PM

Blow Weak thru-out

Remarks

Drill Collar I. D. Ft. Run

Recovery—Total Feet 140

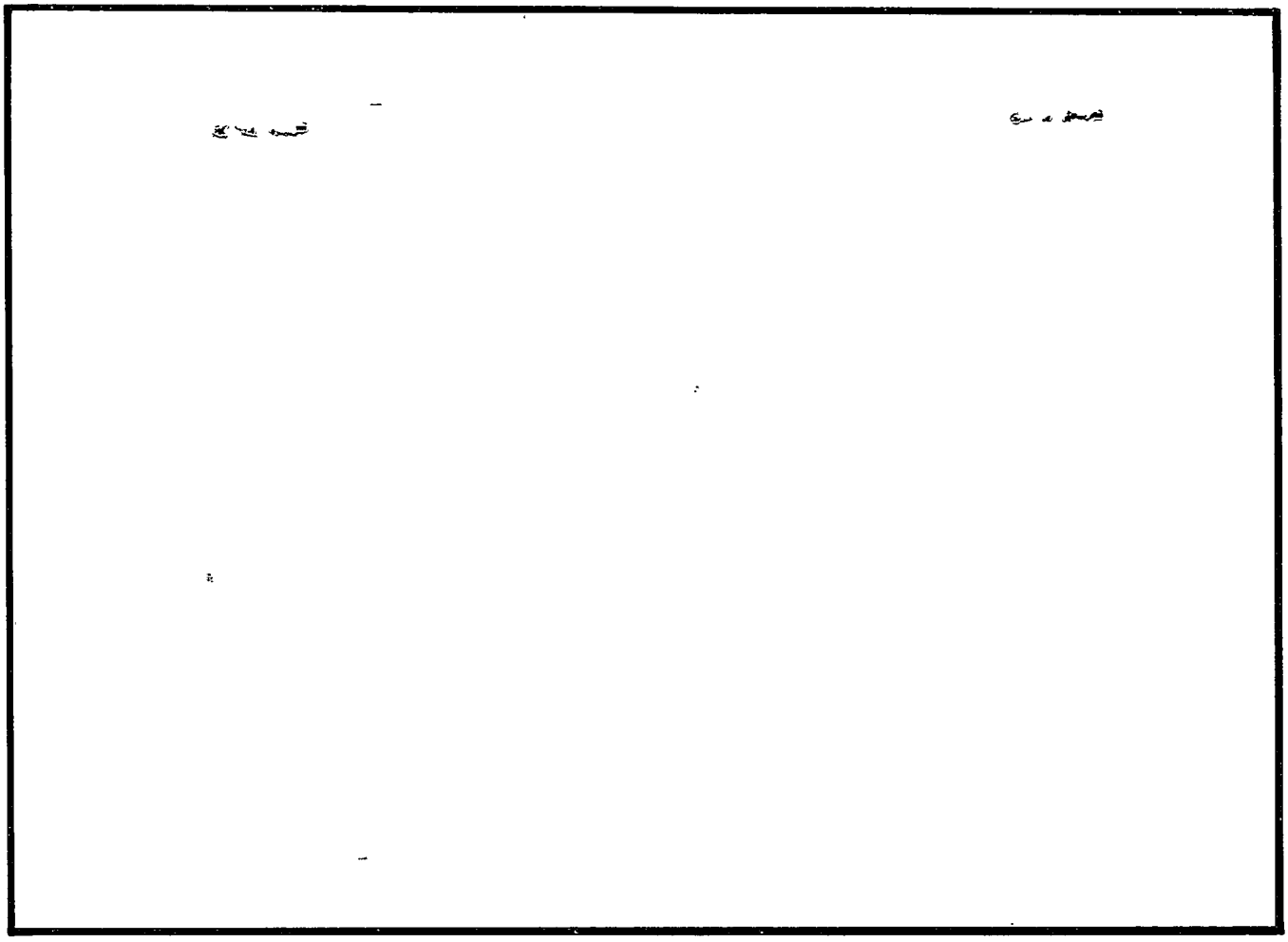
Recovered 10 Feet Of Clean oil

Recovered 10 Feet Of HOCM

Recovered 120 Feet Of GIP

Recovered Feet Of

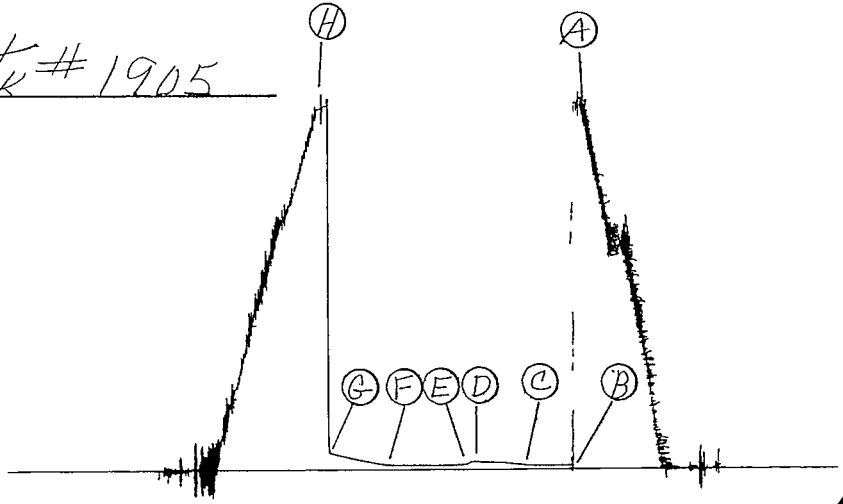
Extra Equipment None Price of Job $520.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2040		PSI
(B)	First Initial Flow Pressure	21		PSI
(C)	First Final Flow Pressure	21		PSI
(D)	Initial Closed-in Pressure	67		PSI
(E)	Second Initial Flow Pressure	28		PSI
(F)	Second Final Flow Pressure	28		PSI
(G)	Final Closed-in Pressure	87		PSI
(H)	Final Hydrostatic Mud	2026		PSI

Tk # 1905



CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company AL Abercrombie Inc.	Test No. 4
Well Name & Number Hubert #6	Zone Tested KC 180
Company Address Wichita;KS	Date 9-4-79
Comp. Rep. Vic Reiserer	Tester Kenneth Cheney
Contractor Abercrombie Drlg. Inc	Elevation 3117 KB
Location: Sec. 28 Twp. 11s Rge. 33w Co. Logan State KS	Est. Feet of Pay 5

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder Depth 4282

(A) Initial Hydrostatic Mud 2040 PSI

(B) First Initial Flow Pressure 32 PSI

(C) First Final Flow Pressure 32 PSI

(D) Initial Closed-in Pressure 40 PSI

(E) Second Initial Flow Pressure 32 PSI

(F) Second Final Flow Pressure 32 PSI

(G) Final Closed-in Pressure 40 PSI

(H) Final Hydrostatic Mud 220 PSI

Temperature 113

Mud Weight 9.2 Viscosity 42

Fluid Loss 10.0

Interval Tested 4255-4290

Anchor Length 35

Top Packer Depth 4250

Bottom Packer Depth 4255

Total Depth 4290

Drill Pipe Size 4½ FH

Wt. Pipe I. D. 3.25 Ft. Run 567

Recovery—Total Feet 10

Recovered 10 Feet Of Mud

Recovered ____ Feet Of ____

Recovered ____ Feet Of ____

Recovered ____ Feet Of ____

Extra Equipment None

Recorder No. 7437 Type AK-1 Range 4200 PSI

Recorder Depth 4285

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

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

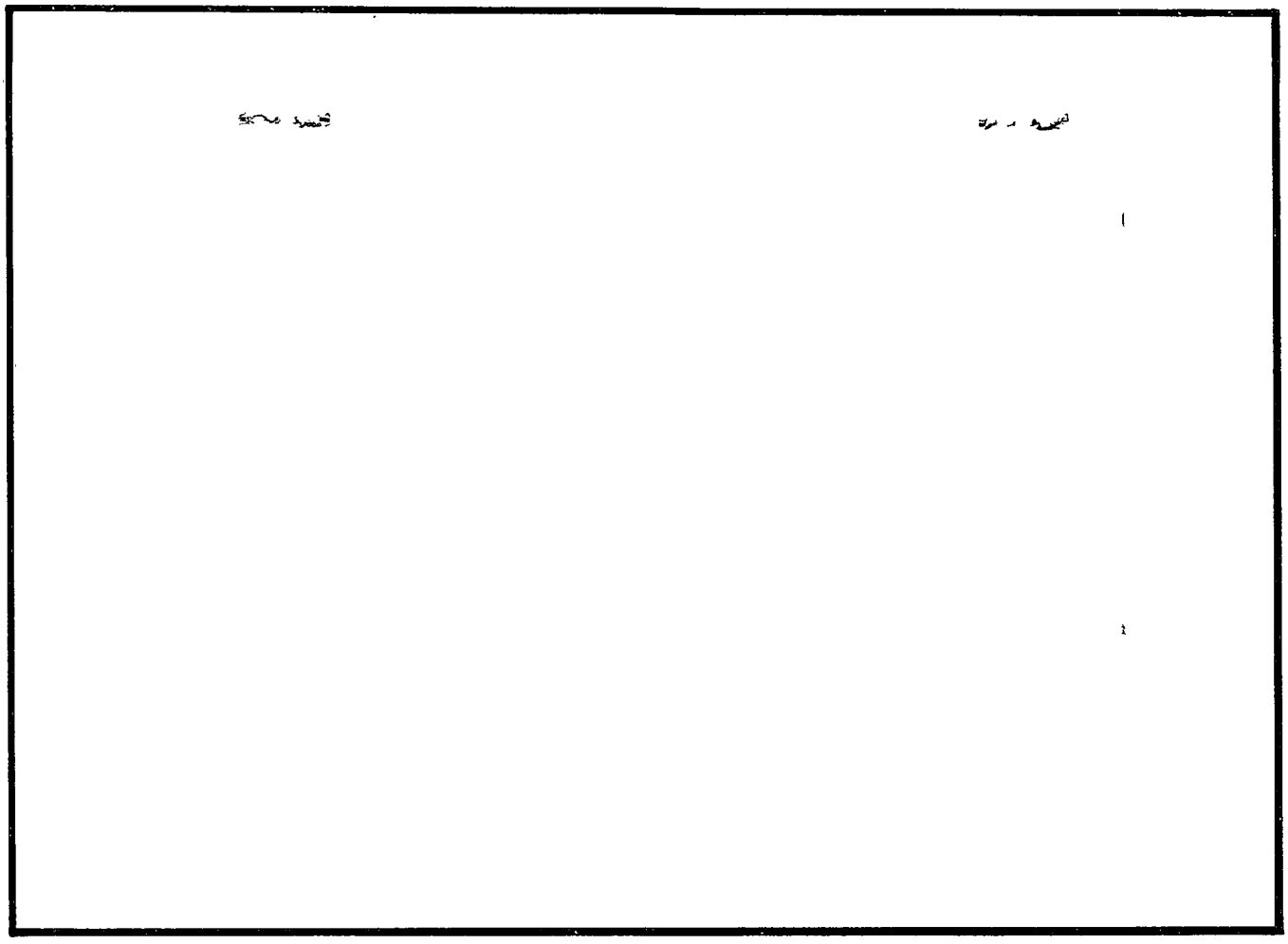
Tool Open @ 10:20 AM

Blow Weak for 30 min.,Flush tool

Remarks

Drill Collar I. D. ____ Ft. Run ____

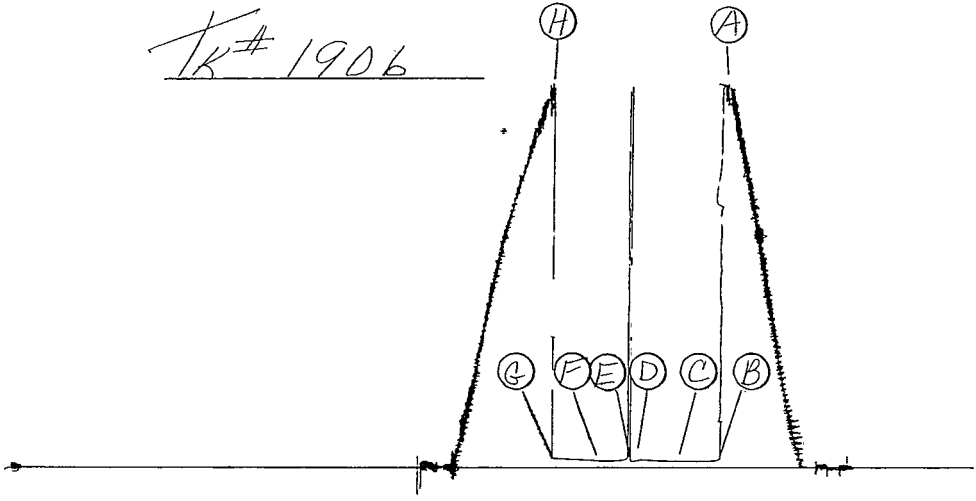
Price of Job $520.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2040		PSI
(B)	First Initial Flow Pressure	32		PSI
(C)	First Final Flow Pressure	32		PSI
(D)	Initial Closed-in Pressure	40		PSI
(E)	Second Initial Flow Pressure	32		PSI
(F)	Second Final Flow Pressure	32		PSI
(G)	Final Closed-in Pressure	40		PSI
(H)	Final Hydrostatic Mud	220		PSI

TK# 1906



CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company AL Abercrombie	Test No. 5
Well Name & Number Hubert #6	Zone Tested KC 200'
Company Address Wichita,KS	Date 9-4-79
Comp. Rep. Vic Reiserer	Tester Kenneth Cheney
Contractor Abercrombie Drlg. Inc	Elevation 3117 DF
Location: Sec. 28 Twp. 11 Rge. 33 Co. Logan State KS	Est. Feet of Pay

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder Depth 4298

(A) Initial Hydrostatic Mud 2050 PSI

(B) First Initial Flow Pressure 22 PSI

(C) First Final Flow Pressure 22 PSI

(D) Initial Closed-in Pressure 889 PSI

(E) Second Initial Flow Pressure 33 PSI

(F) Second Final Flow Pressure 36 PSI

(G) Final Closed-in Pressure 597 PSI

(H) Final Hydrostatic Mud 2037 PSI

Temperature 116

Mud Weight 9.4 Viscosity 48

Fluid Loss 11.0

Interval Tested 4255-4306

Anchor Length 51

Top Packer Depth 4250

Bottom Packer Depth 4255

Total Depth 4306

Drill Pipe Size 4½ XH

Wt. Pipe I. D. 3.25 Ft. Run 56.9

Recorder No. 7437 Type AK-1 Range 4200 PSI

Recorder Depth 4301

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

Initial Shut-in 45 Mins.

Flow Period 60 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 @ 9:40 PM

Blow Fair

Remarks

Drill Collar I. D. Ft. Run

Recovery—Total Feet 30 Fluid

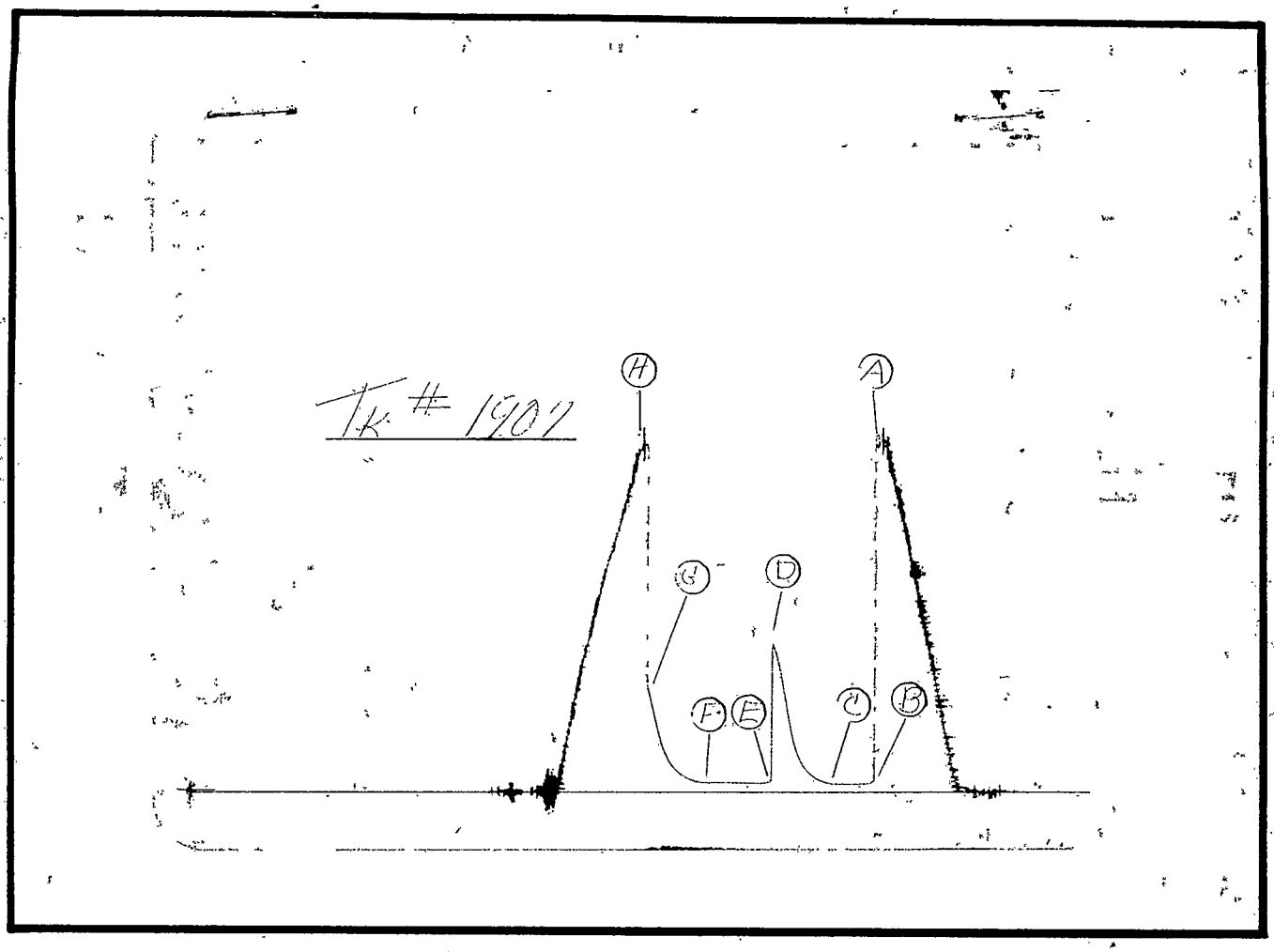
Recovered 180 Feet Of GIP

Recovered 30 Feet Of OCM 35% oil,10% water

Recovered Feet Of

Recovered Feet Of

Extra Equipment None Price of Job $520.00



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2050		PSI
(B)	First Initial Flow Pressure	22		PSI
(C)	First Final Flow Pressure	22		PSI
(D)	Initial Closed-in Pressure	889		PSI
(E)	Second Initial Flow Pressure	33		PSI
(F)	Second Final Flow Pressure	36		PSI
(G)	Final Closed-in Pressure	597		PSI
(H)	Final Hydrostatic Mud	2037		PSI