

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Co. Inc.	Test No.	1
Well Name & Number	Sack # 1	Zone Tested	Topeka
Company Address	Wichita, Kansas	Date	4-20-80
Comp. Rep.	Neil Sikes	Tester	Kirk Cheney
Contractor	Abercrombie Drlg. Co. Inc.	Elevation	2149 G.L.
Location: Sec. 27 Twp. 13S Rge. 19W Co. Ellis State Kansas		Est. Feet of Pay	

Recorder No. 11020 Type AK-1 Range 3900 PSI

Recorder Depth 3397

(A) Initial Hydrostatic Mud 1790 PSI

(B) First Initial Flow Pressure 40 PSI

(C) First Final Flow Pressure 40 PSI

(D) Initial Closed-in Pressure 951 PSI

(E) Second Initial Flow Pressure 40 PSI

(F) Second Final Flow Pressure 40 PSI

(G) Final Closed-in Pressure 951 PSI

(H) Final Hydrostatic Mud 1780 PSI

Temperature 104

Mud Weight 9.9 Viscosity 44

Fluid Loss 10.8

Interval Tested 3376-3400

Anchor Length 24

Top Packer Depth 3371

Bottom Packer Depth 3376

Total Depth 3400

Drill Pipe Size 4 1/2 EXH

Wt. Pipe I. D. 2.7 Ft. Run 360

Recovery—Total Feet 20

Recovered 20 Feet Of Mud

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 3695 Type AK-1 Range 5300 PSI

Recorder Depth 3394

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 @ 1:40 P.m.

Blow Weak Blow For 10 Minutes.

Remarks

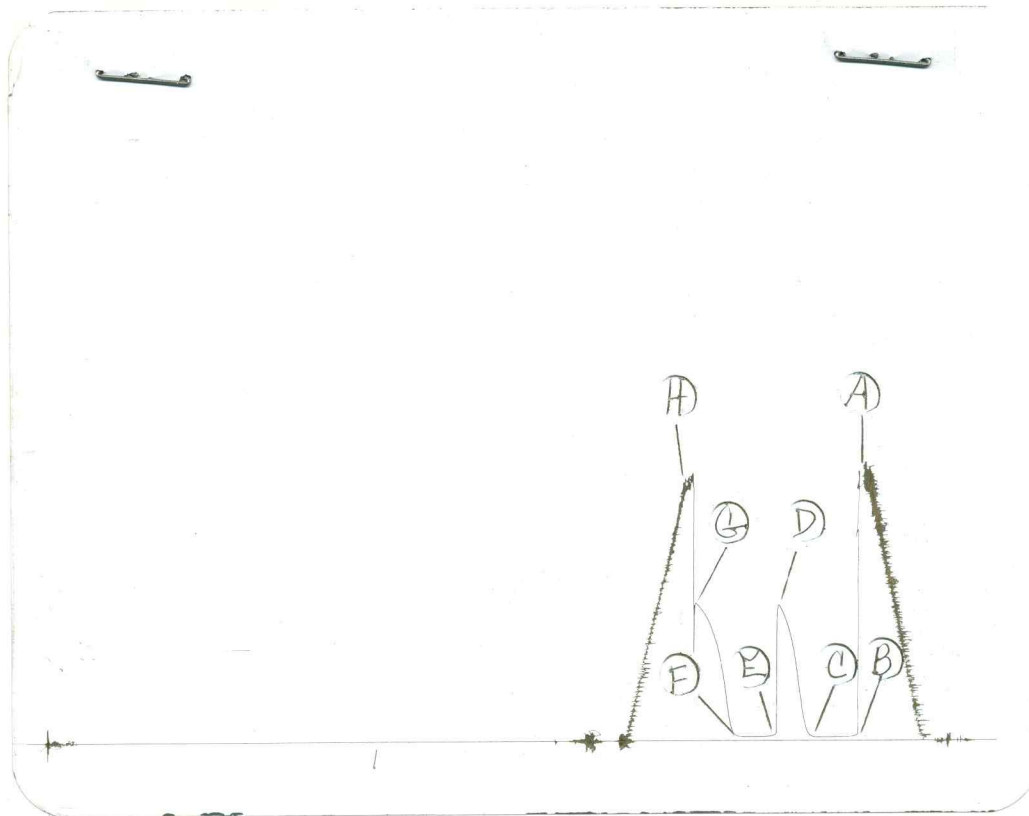
Drill Collar I. D. Ft. Run

Price of Job \$520.00

TICKET

300

2057



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1790	PSI
(B) First Initial Flow Pressure	40	PSI
(C) First Final Flow Pressure	40	PSI
(D) Initial Closed-in Pressure	951	PSI
(E) Second Initial Flow Pressure	40	PSI
(F) Second Final Flow Pressure	40	PSI
(G) Final Closed-in Pressure	951	PSI
(H) Final Hydrostatic Mud	1780	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drilling Co. Inc.	Test No.	2
Well Name & Number	Sack # 1	Zone Tested	Kansas City
Company Address	Wichita, Kansas	Date	4-21-80
Comp. Rep.	Neil Sikes	Tester	Kirk Cheney
Contractor	Abercrombie Drlg. Co. Inc.	Elevation	2149G.L.
Location: Sec. 27 Twp. 13S Rge. 19W Co. Ellis State Kansas		Est. Feet of Pay	

Recorder No. 11020 Type AK-1 Range 3900 PSI

Recorder Depth 3511

(A) Initial Hydrostatic Mud 1890 PSI

(B) First Initial Flow Pressure 40 PSI

(C) First Final Flow Pressure 40 PSI

(D) Initial Closed-in Pressure 80 PSI

(E) Second Initial Flow Pressure 50 PSI

(F) Second Final Flow Pressure 50 PSI

(G) Final Closed-in Pressure 60 PSI

(H) Final Hydrostatic Mud 1880 PSI

Temperature 105

Mud Weight 9.9 Viscosity 44

Fluid Loss 10.8

Interval Tested 3482-3514

Anchor Length 32

Top Packer Depth 3477

Bottom Packer Depth 3482

Total Depth 3514

Drill Pipe Size 4 1/2 EXH

Wt. Pipe I. D. 2.7 Ft. Run 360

Recovery—Total Feet 10

Recovered 10 Feet Of Mud

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment None

Recorder No. 3695 Type AK-1 Range 5300 PSI

Recorder Depth 3508

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 @ 8:44 A.M.

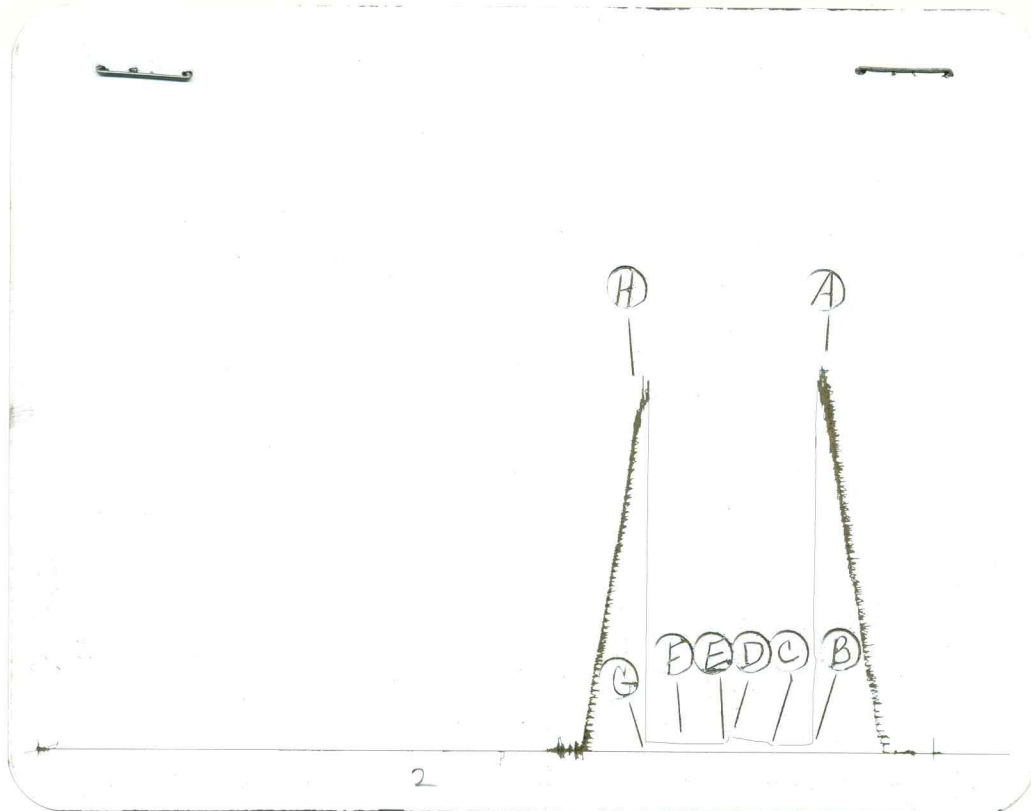
Blow Weak blow for 15 minutes.

Remarks

Tool slid 3' to bottom

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	1890	PSI
(B) First Initial Flow Pressure	40	PSI
(C) First Final Flow Pressure	40	PSI
(D) Initial Closed-in Pressure	80	PSI
(E) Second Initial Flow Pressure	50	PSI
(F) Second Final Flow Pressure	50	PSI
(G) Final Closed-in Pressure	60	PSI
(H) Final Hydrostatic Mud	1880	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Co. Inc.	Test No.	3
Well Name & Number	Sack # 1	Zone Tested	Kansas City
Company Address	Wichita, Kansas	Date	4-21-80
Emp. Rep.	Neil Sikes	Tester	Kirk Cheney
Drill Contractor	Abercrombie Drlg. Co. Inc.	Elevation	2149 G.L.
Location: Sec. 27 Twp. 13S Rge. 19W Co. Ellis State Kansas		Est. Feet of Pay	

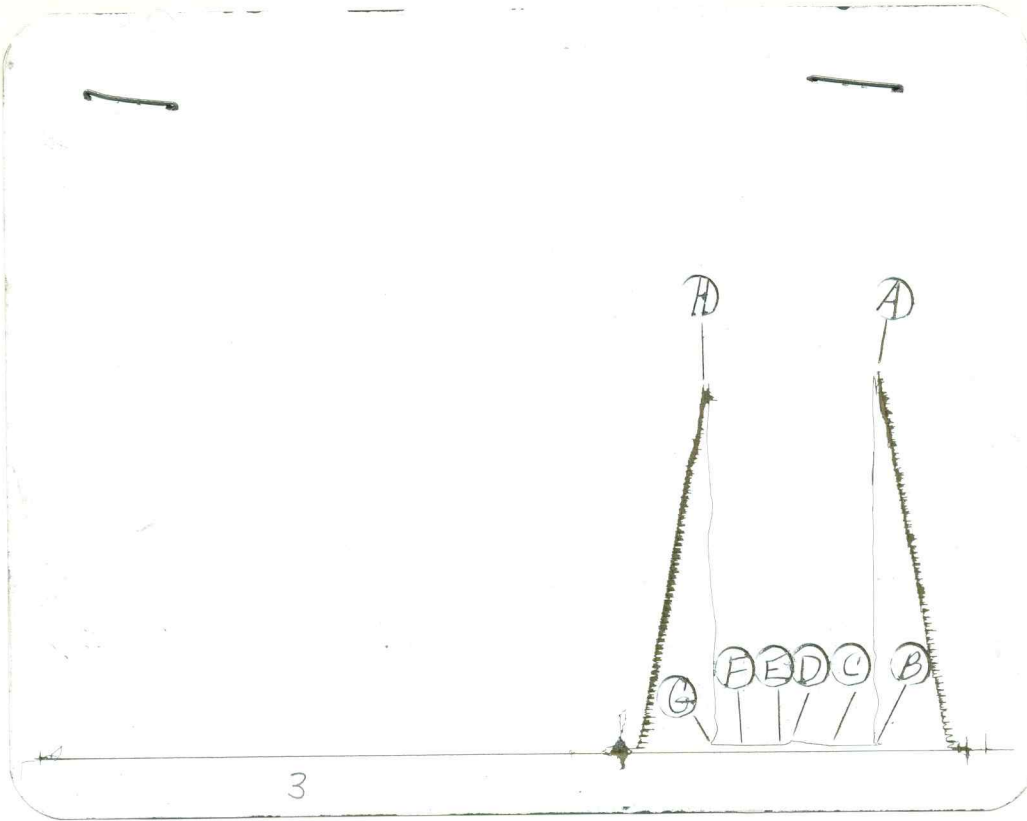
Recorder No. 11020 Type AK-1 Range 3900 PSI
 Recorder Depth 3549
 (A) Initial Hydrostatic Mud 1910 PSI
 (B) First Initial Flow Pressure 40 PSI
 (C) First Final Flow Pressure 40 PSI
 (D) Initial Closed-in Pressure 60 PSI
 (E) Second Initial Flow Pressure 40 PSI
 (F) Second Final Flow Pressure 40 PSI
 (G) Final Closed-in Pressure 50 PSI
 (H) Final Hydrostatic Mud 1900 PSI
 Temperature 105
 Mud Weight 9.8 Viscosity 38
 Fluid Loss 14.2
 Interval Tested 3532-3552
 Anchor Length 20'
 Top Packer Depth 3527
 Bottom Packer Depth 3532
 Total Depth 3552
 Drill Pipe Size 4 1/2 EXH
 Wt. Pipe I. D. 2.7 Ft. Run 360
 Recovery—Total Feet 10
 Recovered 10 Feet Of Mud
 Recovered Feet Of
 Recovered Feet Of
 Recovered Feet Of
 Extra Equipment None

Recorder No. 3695 Type AK-1 Range 5300 PSI
 Recorder Depth 3546
 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 @ 9:45 P.M.
 Blow Weak blow for 20 minutes.
 Remarks

Drill Collar I. D. Ft. Run

Price of Job \$520.00

2050



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1910	PSI
(B) First Initial Flow Pressure	40	PSI
(C) First Final Flow Pressure	40	PSI
(D) Initial Closed-in Pressure	60	PSI
(E) Second Initial Flow Pressure	40	PSI
(F) Second Final Flow Pressure	40	PSI
(G) Final Closed-in Pressure	50	PSI
(H) Final Hydrostatic Mud	1900	PSI

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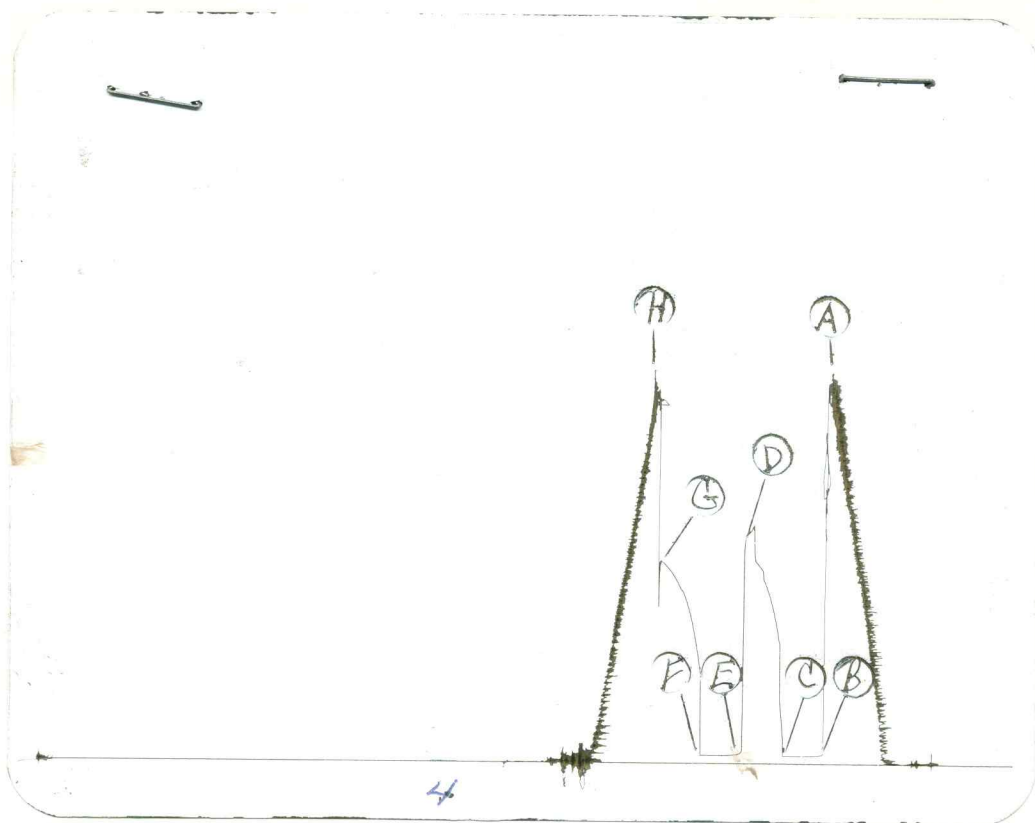
DRILL-STEM TEST DATA

Company	Abercrombier Drlg. Co. Inc.	Test No.	4
Well Name & Number	Sack # 1	Zone Tested	Kansas City
Company Address	Wichita, Kansas	Date	4-22-80
Emp. Rep.	Neil Sikes	Tester	Kirk Cheney
Contractor	Abercrombie Drlg. Co. Inc.	Elevation	2149 G.L.
Location: Sec. 27 Twp. 13S Rge. 19W Co. Ellis State Kansas		Est. Feet of Pay	

Recorder No. 11020 Type AK-1 Range 3900 PSI
 Recorder Depth 3572
 (A) Initial Hydrostatic Mud 1960 PSI
 (B) First Initial Flow Pressure 40 PSI
 (C) First Final Flow Pressure 40 PSI
 (D) Initial Closed-in Pressure 1160 PSI
 (E) Second Initial Flow Pressure 40 PSI
 (F) Second Final Flow Pressure 40 PSI
 (G) Final Closed-in Pressure 1040 PSI
 (H) Final Hydrostatic Mud 1950 PSI
 Temperature 106
 Mud Weight 9.8 Viscosity 46
 Fluid Loss 14.2
 Interval Tested 3551-3575
 Anchor Length 24
 Top Packer Depth 3546
 Bottom Packer Depth 3551
 Total Depth 3575
 Drill Pipe Size 4 1/2 EXH
 Wt. Pipe I. D. 2.7 Ft. Run 360
 Recovery—Total Feet 20
 Recovered 20 Feet Of Mud
 Recovered Feet Of
 Recovered Feet Of
 Recovered Feet Of
 Extra Equipment None

Recorder No. 3695 Type AK-1 Range 5300 PSI
 Recorder Depth 3569
 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 @ 8:27 A.M.
 Blow Weak Blow For 20 Minutes
 Remarks
 Drill Collar I. D. Ft. Run

Price of Job \$520.00



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POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1960	PSI
(B) First Initial Flow Pressure	40	PSI
(C) First Final Flow Pressure	40	PSI
(D) Initial Closed-in Pressure	1160	PSI
(E) Second Initial Flow Pressure	40	PSI
(F) Second Final Flow Pressure	40	PSI
(G) Final Closed-in Pressure	1040	PSI
(H) Final Hydrostatic Mud	1950	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Co. Inc.	Test No.	5
Well Name & Number	Sack # 1	Zone Tested	Kansas City
Company Address	Wichita, Kansas	Date	4-22-80
Comp. Rep.	Neil Sikes	Tester	Kirk Cheney
Contractor	Abercrombie Drlg. Co. Inc.	Elevation	2149 G.L.
Location: Sec. 27 Twp. 13S Rge. 19W Co. Ellis State Kansas		Est. Feet of Pay	

Recorder No. 11020 Type AK-1 Range 3900 PSI

Recorder Depth 3657

(A) Initial Hydrostatic Mud 1920 PSI

(B) First Initial Flow Pressure 50 PSI

(C) First Final Flow Pressure 50 PSI

(D) Initial Closed-in Pressure 170 PSI

(E) Second Initial Flow Pressure 60 PSI

(F) Second Final Flow Pressure 70 PSI

(G) Final Closed-in Pressure 120 PSI

(H) Final Hydrostatic Mud 1910 PSI

Temperature 107

Mud Weight 9.8 Viscosity 46

Fluid Loss 14.2

Interval Tested 3620-3660

Anchor Length 40

Top Packer Depth 3615

Bottom Packer Depth 3620

Total Depth 3660

Drill Pipe Size 4 1/2 EXH

Wt. Pipe I. D. 2.7 Ft. Run 360

Recovery—Total Feet 80

Recovered 80 Feet Of Oil Cut Mud (20% Oil)

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment None Price of Job \$520.00

Recorder No. 3695 Type AK-1 Range 5300 PSI

Recorder Depth 3654

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"

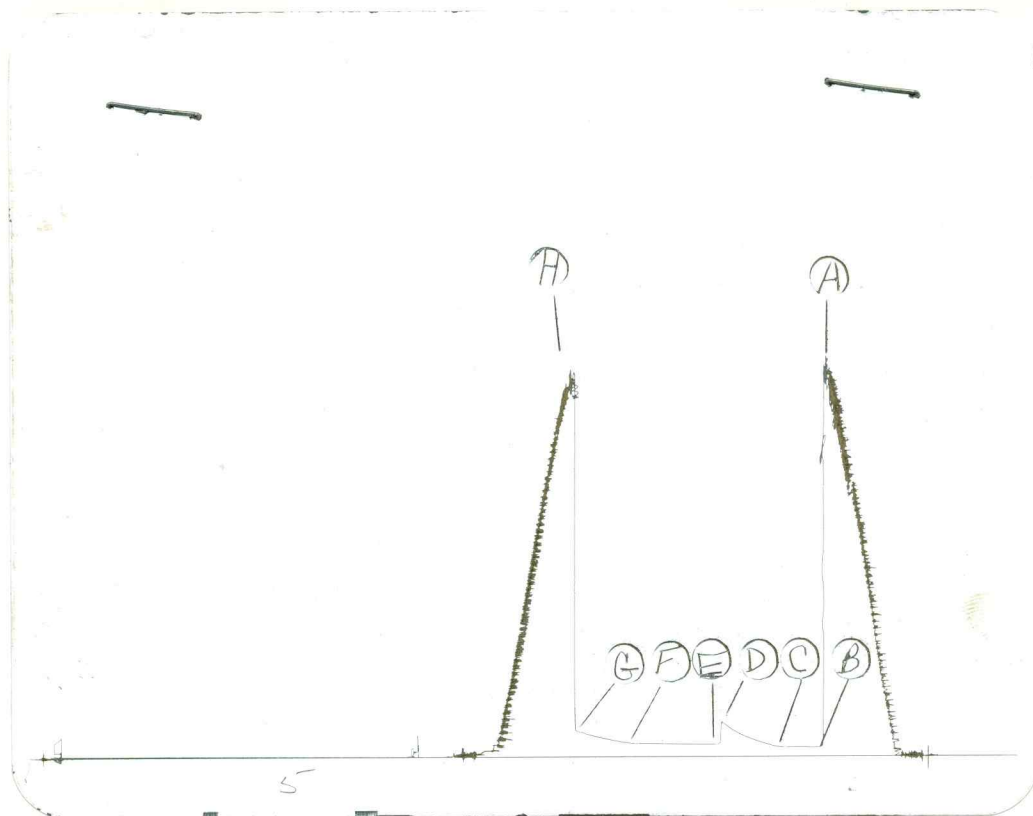
Rubber Size 6 3/4"

Tool Open @ 11:07 P.M.

Blow Fair Blow throughout.

Remarks

Drill Collar I. D. Ft. Run



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1920	PSI
(B) First Initial Flow Pressure	50	PSI
(C) First Final Flow Pressure	50	PSI
(D) Initial Closed-in Pressure	170	PSI
(E) Second Initial Flow Pressure	60	PSI
(F) Second Final Flow Pressure	70	PSI
(G) Final Closed-in Pressure	120	PSI
(H) Final Hydrostatic Mud	1910	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Co. Inc.	Test No.	6
Well Name & Number	Sack # 1	Zone Tested	Marmaton
Company Address	Wichita, Kansas	Date	4-23-80
Comp. Rep.	Neil Sikes	Tester	Kirk Cheney
Contractor	S Abercrombie Drlg. Co. Inc.	Elevation	2149 G.L.
Location: Sec. 27 Twp. 13S Rge. 19W Co. Ellis State Kansas		Est. Feet of Pay	

Recorder No. 11020 Type AK-1 Range 3900 PSI

Recorder Depth 3789

(A) Initial Hydrostatic Mud 2040 PSI

(B) First Initial Flow Pressure 40 PSI

(C) First Final Flow Pressure 40 PSI

(D) Initial Closed-in Pressure 140 PSI

(E) Second Initial Flow Pressure 40 PSI

(F) Second Final Flow Pressure 40 PSI

(G) Final Closed-in Pressure 60 PSI

(H) Final Hydrostatic Mud 2030 PSI

Temperature 108

Mud Weight 10.2 Viscosity 43

Fluid Loss 14.3

Interval Tested 3760-3792

Anchor Length 32

Top Packer Depth 3747

Bottom Packer Depth 3760

Total Depth 3792

Drill Pipe Size 4 1/2 EXH

Wt. Pipe I. D. 2.7 Ft. Run 10

Recovery—Total Feet 10

Recovered 10 Feet Of Mud

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment None

Recorder No. 3695 Type AK-1 Range 5300 PSI

Recorder Depth 3786

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"

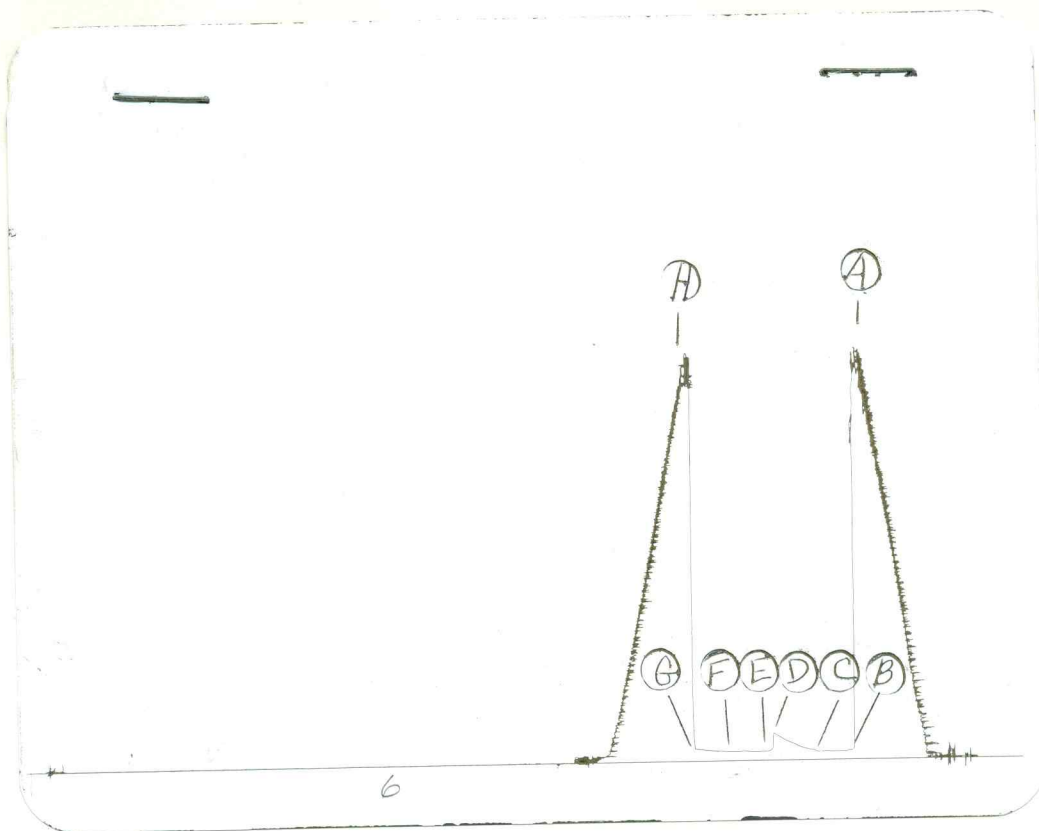
Tool Open @ 7:30 P.M.

Blow Weak Blow for 20 Minutes

Remarks

Drill Collar I. D. Ft. Run

Price of Job \$520.00



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POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2040	PSI
(B) First Initial Flow Pressure	40	PSI
(C) First Final Flow Pressure	40	PSI
(D) Initial Closed-in Pressure	140	PSI
(E) Second Initial Flow Pressure	40	PSI
(F) Second Final Flow Pressure	40	PSI
(G) Final Closed-in Pressure	60	PSI
(H) Final Hydrostatic Mud	2030	PSI