

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

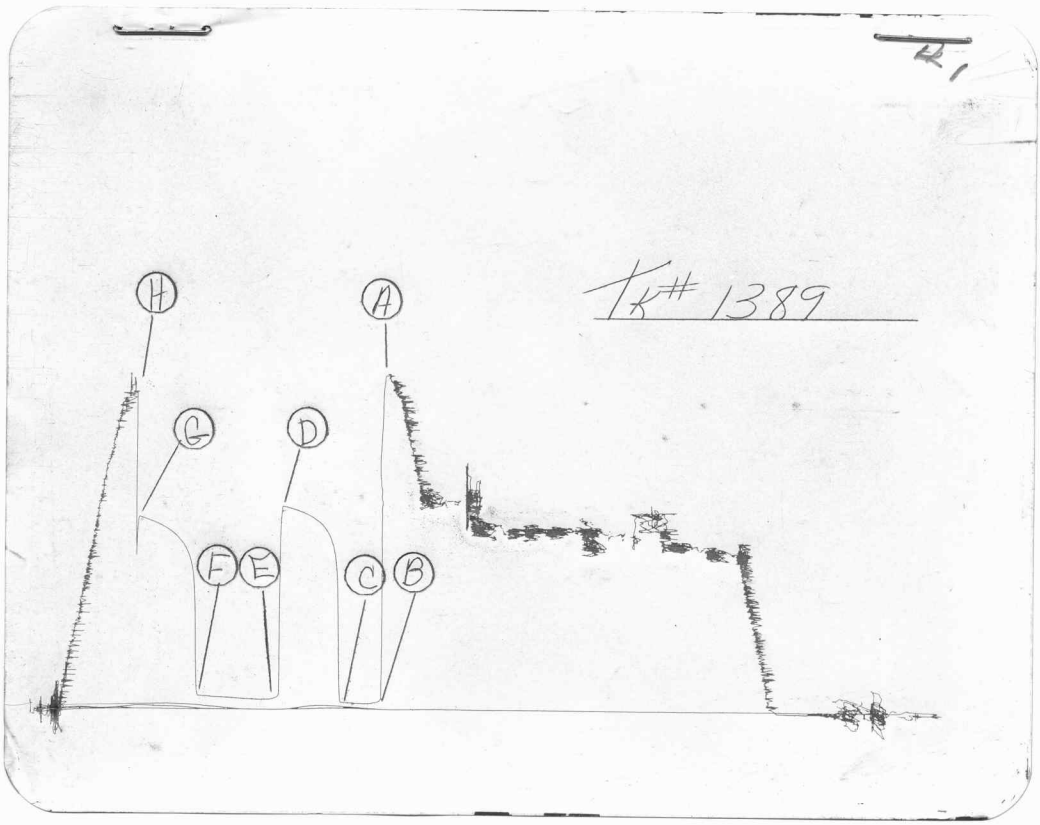
29-136-33c

Company	Abercrombie Drlg. Inc.	Test No.	1
Well Name & Number	Bertrand B-1	Zone Tested	Topeka
Company Address	Wichita, Ks.	Date	10-8-78
Comp. Rep.	Greg Cheney	Tester	Orman Bell
Contractor	CO. Tools	Elevation	
Location: Sec. 29 Twp. 13 Rge. 33W Co. Logan State Ks.		Est. Feet of Pay	

Recorder No. 6730 Type AK-1 Range 4200 PSI
 Recorder Depth 3697
 (A) Initial Hydrostatic Mud 1827 PSI
 (B) First Initial Flow Pressure 21 PSI
 (C) First Final Flow Pressure 21 PSI
 (D) Initial Closed-in Pressure 1109 PSI
 (E) Second Initial Flow Pressure 43 PSI
 (F) Second Final Flow Pressure 43 PSI
 (G) Final Closed-in Pressure 1035 PSI
 (H) Final Hydrostatic Mud 1817 PSI
 Temperature 106
 Mud Weight 9.6 Viscosity 40
 Fluid Loss 10.7
 Interval Tested 3677-3700
 Anchor Length 23'
 Top Packer Depth 3672
 Bottom Packer Depth 3677
 Total Depth 3700
 Drill Pipe Size 4½ X.H.
 Wt. Pipe I. D. 2.7 Ft. Run 473
 Recovery—Total Feet 120
 Recovered 120 Feet Of water
 Recovered Feet Of
 Recovered Feet Of
 Recovered Feet Of
 Extra Equipment none

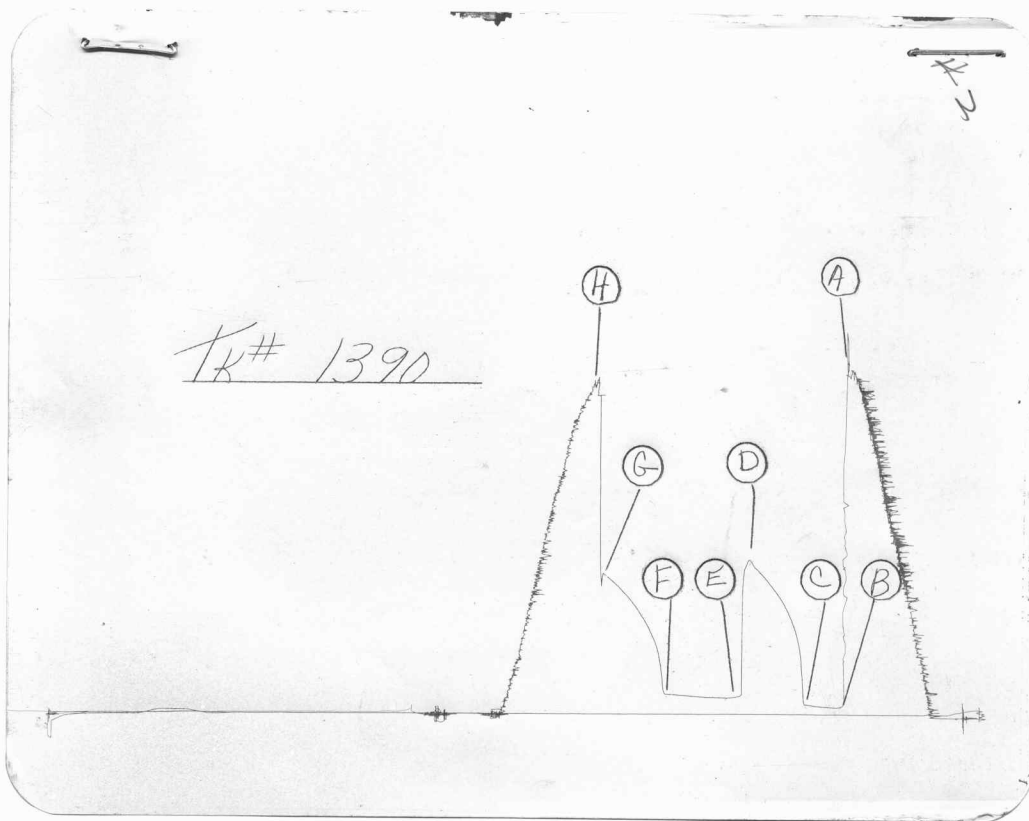
Recorder No. 10216 Type AK-1 Range 4200 PSI
 Recorder Depth 3694
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 45 Mins.
 Flow Period 60 Mins.
 Final Shut-in 45 Mins.
 Surface Choke Size 1"
 Bottom Choke Size 3/4"
 Main Hole Size 7 7/8"
 Rubber Size 6 3/4"
 Tool Open @ 6:15 A.M.
 Blow Weak blow.
 Remarks
 Drill Collar I. D. Ft. Run

Price of Job \$400.00



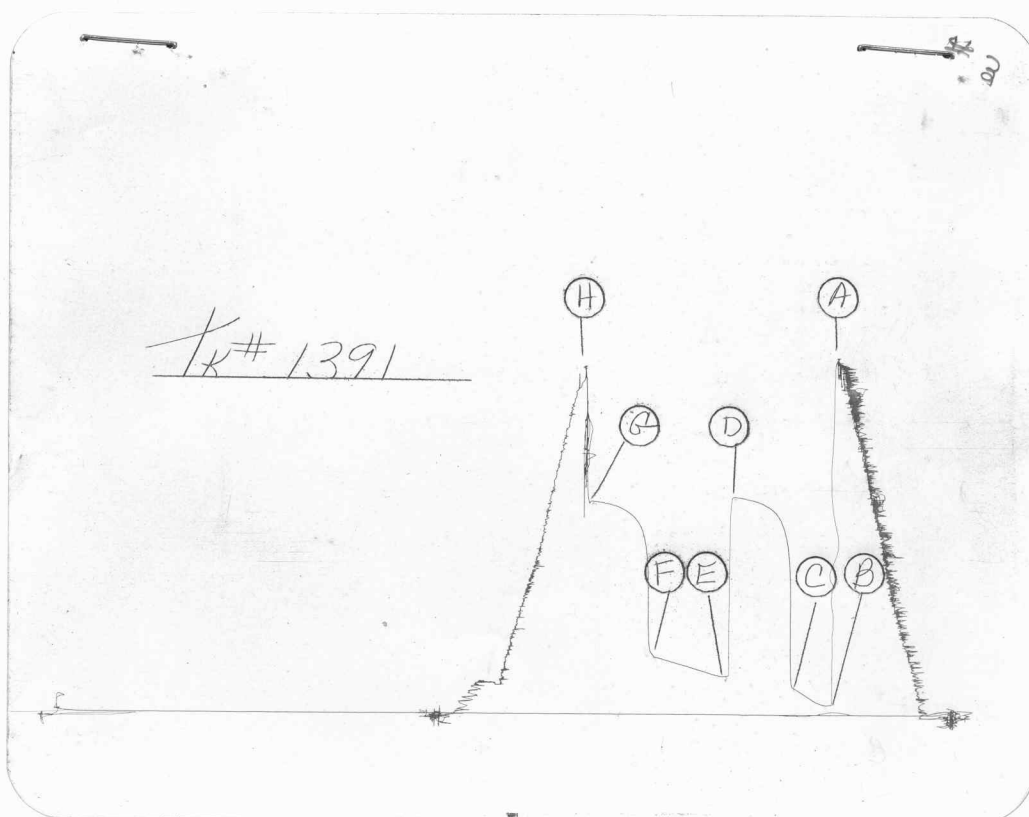
This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1827		PSI
(B) First Initial Flow Pressure	21		PSI
(C) First Final Flow Pressure	21		PSI
(D) Initial Closed-in Pressure	1109		PSI
(E) Second Initial Flow Pressure	43		PSI
(F) Second Final Flow Pressure	43		PSI
(G) Final Closed-in Pressure	1035		PSI
(H) Final Hydrostatic Mud	1817		PSI



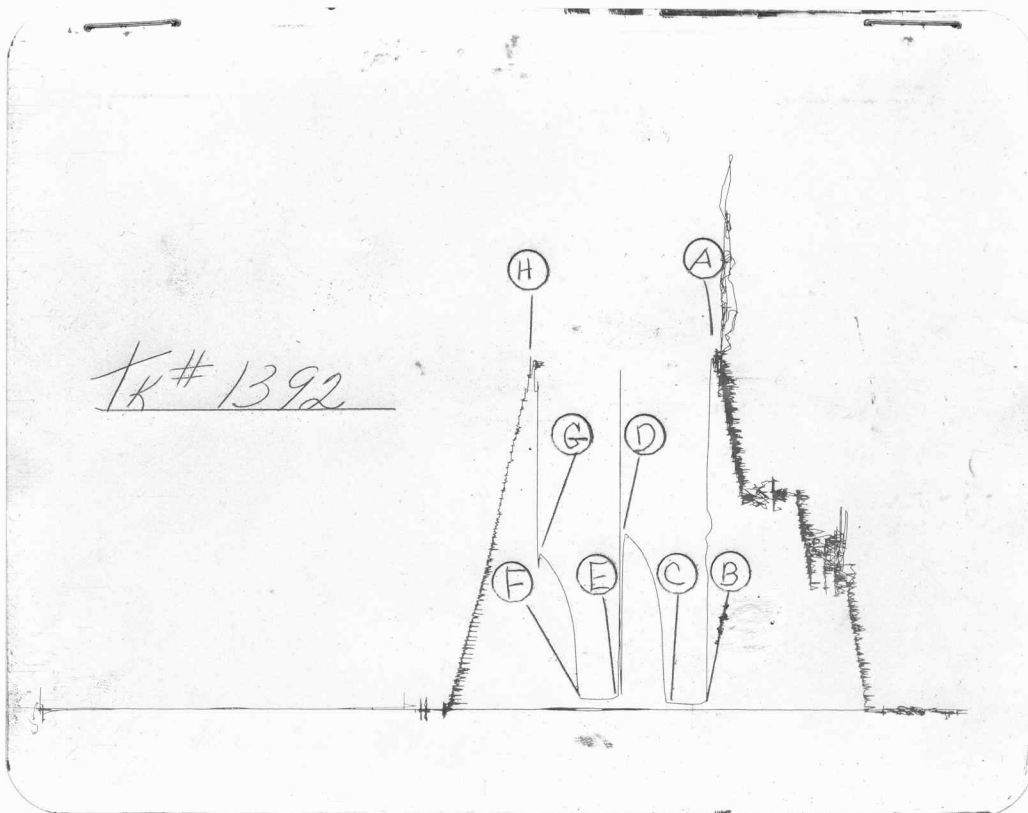
This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1890	PSI
(B) First Initial Flow Pressure	32	PSI
(C) First Final Flow Pressure	53	PSI
(D) Initial Closed-in Pressure	845	PSI
(E) Second Initial Flow Pressure	75	PSI
(F) Second Final Flow Pressure	107	PSI
(G) Final Closed-in Pressure	783	PSI
(H) Final Hydrostatic Mud	1880	PSI



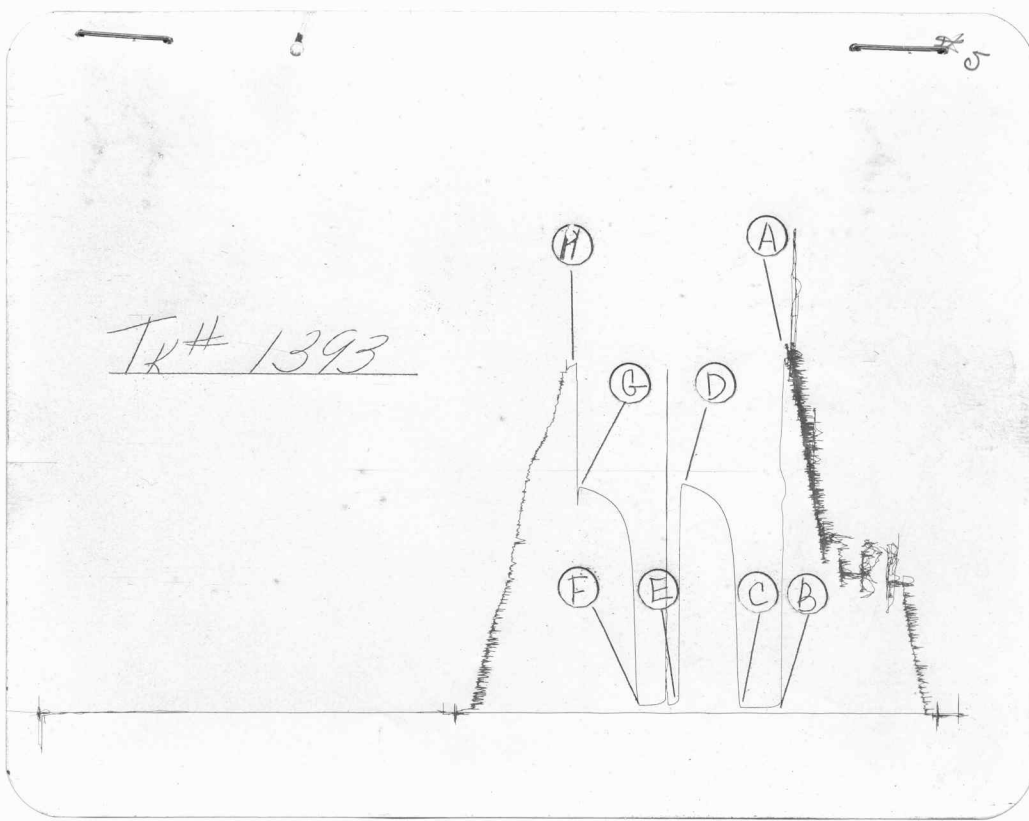
This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1995	PSI
(B) First Initial Flow Pressure	53	PSI
(C) First Final Flow Pressure	161	PSI
(D) Initial Closed-in Pressure	1204	PSI
(E) Second Initial Flow Pressure	193	PSI
(F) Second Final Flow Pressure	323	PSI
(G) Final Closed-in Pressure	1172	PSI
(H) Final Hydrostatic Mud	1985	PSI



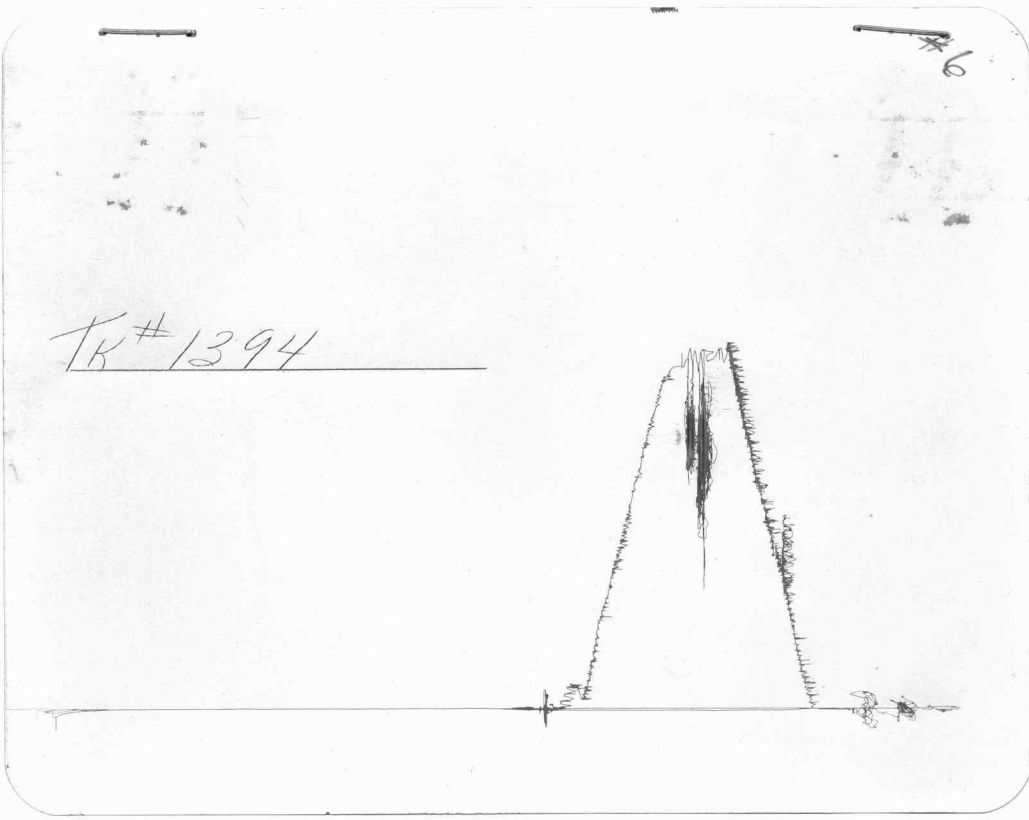
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POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1932		PSI
(B) First Initial Flow Pressure	21		PSI
(C) First Final Flow Pressure	21		PSI
(D) Initial Closed-in Pressure	961		PSI
(E) Second Initial Flow Pressure	43		PSI
(F) Second Final Flow Pressure	43		PSI
(G) Final Closed-in Pressure	845		PSI
(H) Final Hydrostatic Mud	1922		PSI



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1964	PSI
(B) First Initial Flow Pressure	21	PSI
(C) First Final Flow Pressure	21	PSI
(D) Initial Closed-in Pressure	1267	PSI
(E) Second Initial Flow Pressure	21	PSI
(F) Second Final Flow Pressure	21	PSI
(G) Final Closed-in Pressure	1236	PSI
(H) Final Hydrostatic Mud	1954	PSI



This is an actual photograph of recorder chart.

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

29-135-33w

Company	Abercrombie Drlg. Inc.	Test No.	7
Well Name & Number	Bertrand B-1	Zone Tested	K.C.
Company Address	Wichita, Kan.	Date	10-12-78
Comp. Rep.	Greg Cheney	Tester	Orman Bell
Contractor	Co. Tools	Elevation	
Location: Sec. 29 Twp. 13 Rge. 33 Co. Logan State Kan		Est. Feet of Pay	

Recorder No. 6730 Type AK-1 Range 4200 PSI

Recorder No. 10216 Type AK-1 Range 4200 PSI

Recorder Depth 4053

Recorder Depth 4050

(A) Initial Hydrostatic Mud 2016 PSI

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

(B) First Initial Flow Pressure 21 PSI

Initial Shut-in 30 Mins.

(C) First Final Flow Pressure 21 PSI

Flow Period 30 Mins.

(D) Initial Closed-in Pressure 64 PSI

Final Shut-in 30 Mins.

(E) Second Initial Flow Pressure 21 PSI

Surface Choke Size 1"

(F) Second Final Flow Pressure 21 PSI

Bottom Choke Size 3/4"

(G) Final Closed-in Pressure 53 PSI

Main Hole Size 7 7/8"

(H) Final Hydrostatic Mud 2006 PSI

Rubber Size 6 3/4"

Temperature 112

Tool Open @ 4:45 A.M.

Mud Weight 9.6 Viscosity 41

Blow Very weak blow, died in 11 min.

Fluid Loss 22.1 cc

Remarks on first opening. Flushed

Interval Tested 4031-4056

tool on second open.

Anchor Length 25

Top Packer Depth 4026

Bottom Packer Depth 4031

Total Depth 4056

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 473

Drill Collar I. D. Ft. Run

Recovery—Total Feet 10

Recovered 10 Feet Of Thin Mud

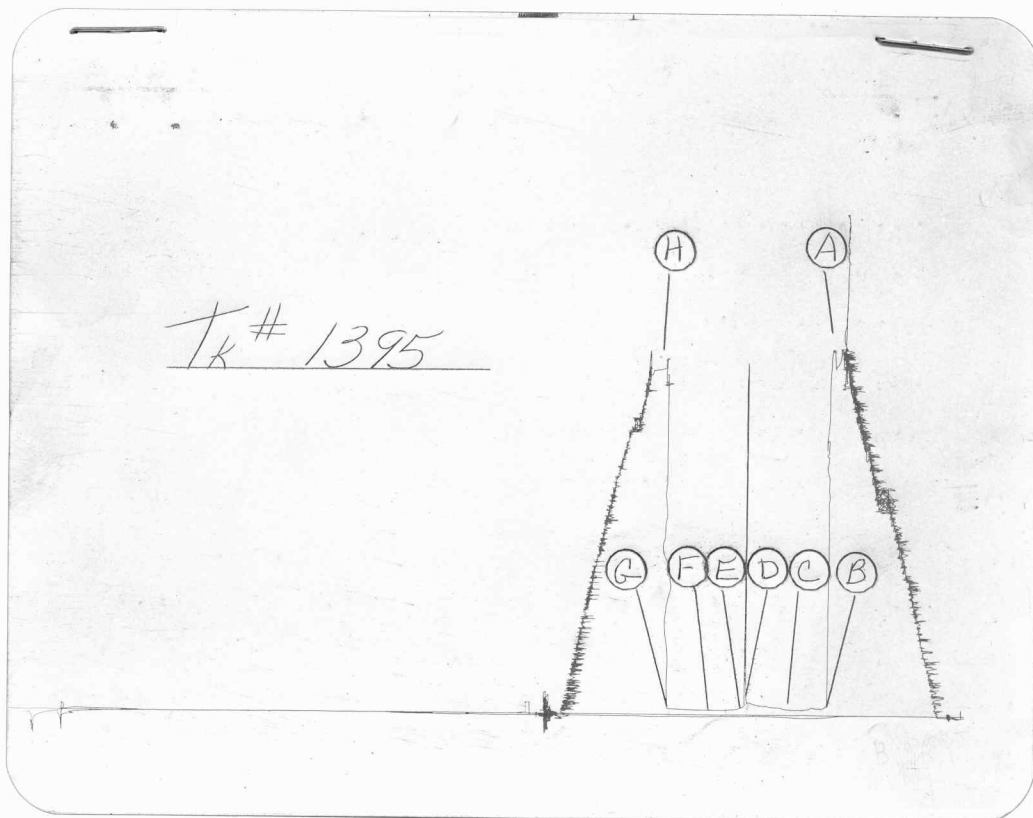
Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment None

Price of Job \$440.00



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2016		PSI
(B) First Initial Flow Pressure	21		PSI
(C) First Final Flow Pressure	21		PSI
(D) Initial Closed-in Pressure	64		PSI
(E) Second Initial Flow Pressure	21		PSI
(F) Second Final Flow Pressure	21		PSI
(G) Final Closed-in Pressure	53		PSI
(H) Final Hydrostatic Mud	2006		PSI