

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	1
Well Name & Number	Schultz #1	Zone Tested	Krider
Company Address	801 Union Center	Date	2-28-77
Comp. Rep.	Jerry Langrehr	Tester	Kenneth Cheney
Contractor	Abercrombie Drlg. Inc.	Elevation	
Location: Sec. 1 Twp. 19S Rge. 31W Co. Scott State Kan.		Est. Feet of Pay	

Recorder No. 7370 Type ~~Kuster~~ Range 4050 PSI

Recorder Depth 2765

(A) Initial Hydrostatic Mud 1437 PSI

(B) First Initial Flow Pressure 42 PSI

(C) First Final Flow Pressure 51 PSI

(D) Initial Closed-in Pressure 488 PSI

(E) Second Initial Flow Pressure 59 PSI

(F) Second Final Flow Pressure 77 PSI

(G) Final Closed-in Pressure 351 PSI

(H) Final Hydrostatic Mud 1420 PSI

Temperature

Mud Weight 9.4 Viscosity 36

Fluid Loss

Interval Tested 2706-2770

Anchor Length 64'

Top Packer Depth 2701

Bottom Packer Depth 2706

Total Depth 2770

Drill Pipe Size 4 1/2 Ex. H.

Wt. Pipe I. D. 2.7 Ft. Run 636

Recovery—Total Feet

Recovered 90 Feet Of Mud

Recovered 420 Feet Of G.I.P.

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 1670 Type ~~Kuster~~ Range 3500 PSI

Recorder Depth 2762

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 @ 1:45 A.M.

Blow Fair to strong

Remarks

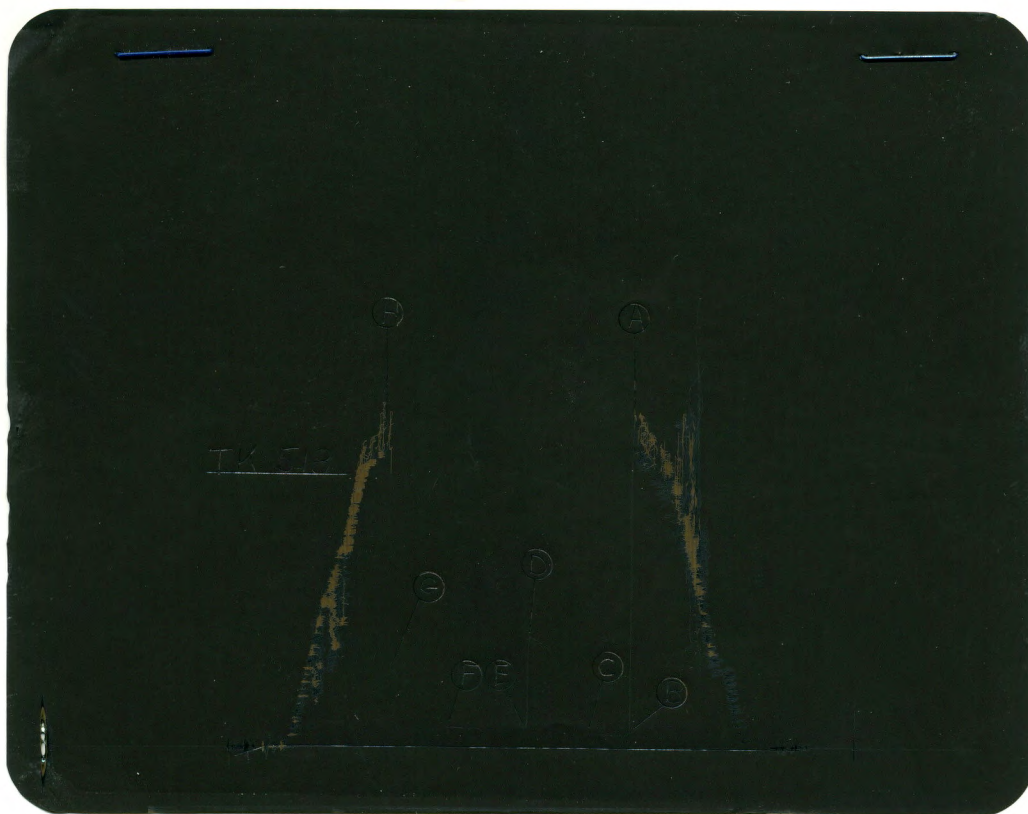
Drill Collar I. D. Ft. Run

Price of Job \$380.00

TICKET

No

51



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1437	PSI
(B) First Initial Flow Pressure	42	PSI
(C) First Final Flow Pressure	51	PSI
(D) Initial Closed-in Pressure	488	PSI
(E) Second Initial Flow Pressure	59	PSI
(F) Second Final Flow Pressure	77	PSI
(G) Final Closed-in Pressure	351	PSI
(H) Final Hydrostatic Mud	1420	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	2
Well Name & Number	Schultz #1	Zone Tested	K.C.
Company Address	801 Union Center	Date	3-4-77
Comp. Rep.	Jay Dirks	Tester	Kirk Cheney
Contractor	Abercrombie Drlg. Co.	Elevation	
Location: Sec. 1 Twp. 19S Rge. 31W Co. Scott State Kan.		Est. Feet of Pay	

Recorder No. 7370 Type Kuster Range 4050 PSI

Recorder Depth 4237

(A) Initial Hydrostatic Mud 2150 PSI

(B) First Initial Flow Pressure 40 PSI

(C) First Final Flow Pressure 163 PSI

(D) Initial Closed-in Pressure 1121 PSI

(E) Second Initial Flow Pressure 204 PSI

(F) Second Final Flow Pressure 357 PSI

(G) Final Closed-in Pressure 1070 PSI

(H) Final Hydrostatic Mud 2140 PSI

Temperature 112°

Mud Weight 9.3 Viscosity 41

Fluid Loss 12.0 cc

Interval Tested 4209-4240

Anchor Length 31'

Top Packer Depth 4204

Bottom Packer Depth 4209

Total Depth 4240

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 635

Recovery—Total Feet 833

Recovered 1 Feet Of Free Oil

Recovered 832 Feet Of Water (sulfur)

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 4234

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 ½"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

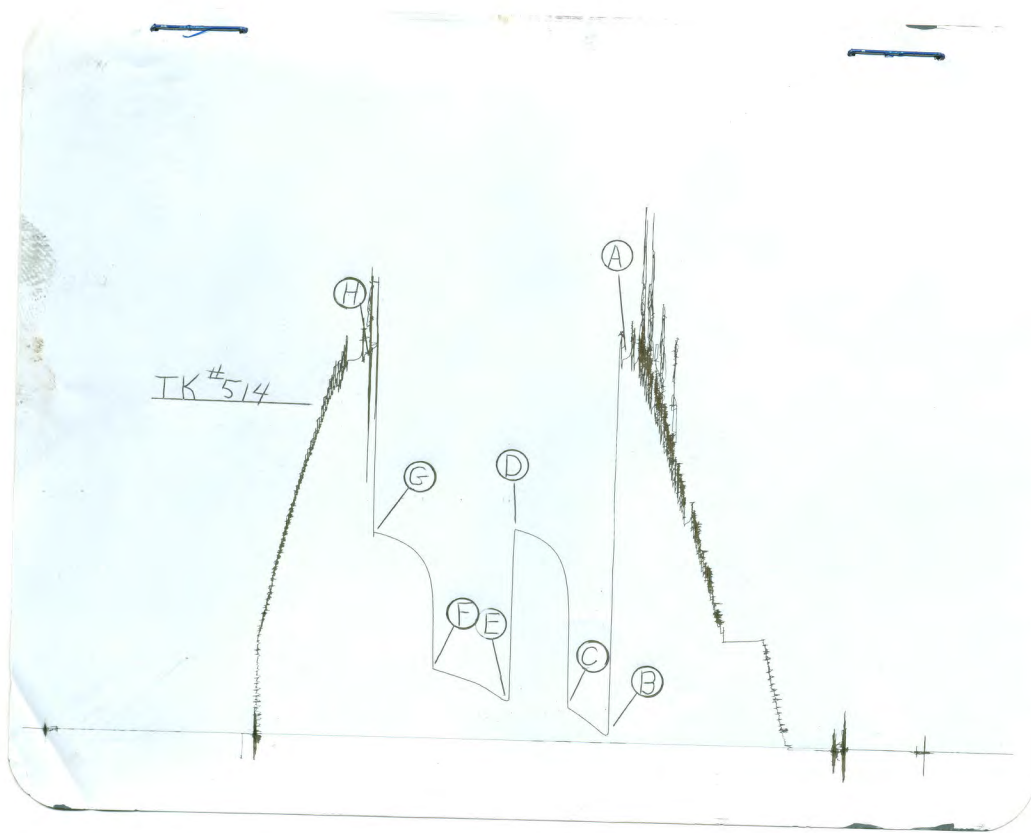
Tool Open @ 12:45 A.M.

Blow Strong through out.

Remarks

Drill Collar I. D. Ft. Run

Price of Job \$415.00



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2150	PSI
(B) First Initial Flow Pressure	40	PSI
(C) First Final Flow Pressure	163	PSI
(D) Initial Closed-in Pressure	1121	PSI
(E) Second Initial Flow Pressure	204	PSI
(F) Second Final Flow Pressure	357	PSI
(G) Final Closed-in Pressure	1070	PSI
(H) Final Hydrostatic Mud	2140	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	3
Well Name & Number	Schultz #1	Zone Tested	K.C.
Company Address	801 Union Center	Date	3-4-77
Comp. Rep.	Jay Dirks	Tester	Kirk Cheney
Contractor	Abercrombie Drlg. Inc.	Elevation	
Location: Sec. 1 Twp. 19S Rge. 31W Co. Scott State		Est. Feet of Pay	

Recorder No. 7370 Type Kuster Range 4050 PSI

Recorder Depth 4292

(A) Initial Hydrostatic Mud 2160 PSI

(B) First Initial Flow Pressure 20 PSI

(C) First Final Flow Pressure 102 PSI

(D) Initial Closed-in Pressure 1202 PSI

(E) Second Initial Flow Pressure 102 PSI

(F) Second Final Flow Pressure 234 PSI

(G) Final Closed-in Pressure 1172 PSI

(H) Final Hydrostatic Mud 2150 PSI

Temperature 113°

Mud Weight 9.2 Viscosity 42

Fluid Loss 12.0 cc

Interval Tested 4275-4295

Anchor Length 20'

Top Packer Depth 4270

Bottom Packer Depth 4275

Total Depth 4295

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 636

Recovery—Total Feet 503

Recovered 30' Feet Of Free Oil (37% Gravity)

Recovered 428' Feet Of Muddy Water (Salty)

Recovered 45' Feet Of Gas in Pipe.

Recovered Feet Of

Extra Equipment Price of Job \$415.00

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 4289

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 1/2"

Main Hole Size 7 7/8"

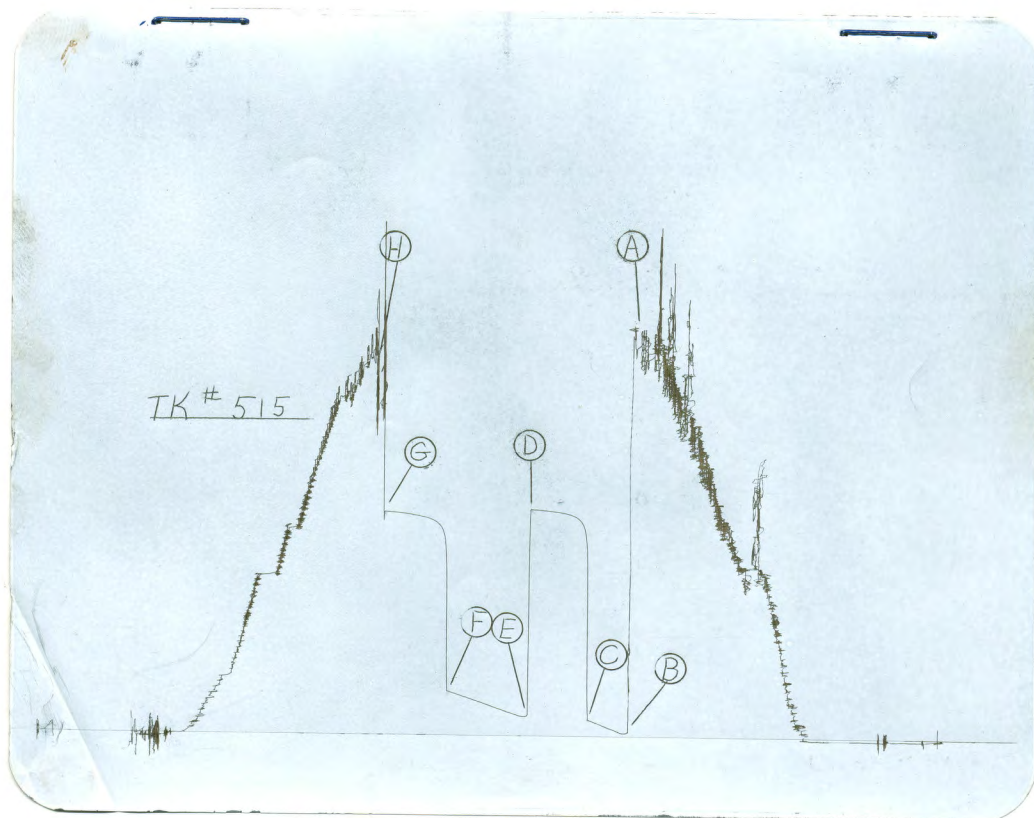
Rubber Size 6 3/4"

Tool Open @ 9:50 P.M.

Blow Moderate through out.

Remarks Tool slid 3' to bottom.

Drill Collar I. D. Ft. Run



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2160	PSI
(B) First Initial Flow Pressure	20	PSI
(C) First Final Flow Pressure	102	PSI
(D) Initial Closed-in Pressure	1202	PSI
(E) Second Initial Flow Pressure	102	PSI
(F) Second Final Flow Pressure	234	PSI
(G) Final Closed-in Pressure	1172	PSI
(H) Final Hydrostatic Mud	2150	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	4
Well Name & Number	Schultz #1	Zone Tested	K.C.
Company Address	801 Union Center	Date	3-5-77
Comp. Rep.	Jay Dirks	Tester	Kirk Cheney
Contractor	Abercrombie Drlg. Inc.	Elevation	
Location: Sec. 1 Twp. 19S Rge. 31W Co. Scott State Kan.		Est. Feet of Pay	

Recorder No. 7370 Type Kuster Range 4050 PSI

Recorder Depth 4347

(A) Initial Hydrostatic Mud 2160 PSI

(B) First Initial Flow Pressure 10 PSI

(C) First Final Flow Pressure 20 PSI

(D) Initial Closed-in Pressure 1121 PSI

(E) Second Initial Flow Pressure 20 PSI

(F) Second Final Flow Pressure 30 PSI

(G) Final Closed-in Pressure 979 PSI

(H) Final Hydrostatic Mud 2150 PSI

Temperature 114°

Mud Weight 9.2 Viscosity 40

Fluid Loss 8.8 cc

Interval Tested 4315-4350

Anchor Length 35'

Top Packer Depth 4310

Bottom Packer Depth 4315

Total Depth 4350

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 636

Recovery—Total Feet 15

Recovered 15 Feet Of Muddy water.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 4344

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 ½"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 8:10 P.M.

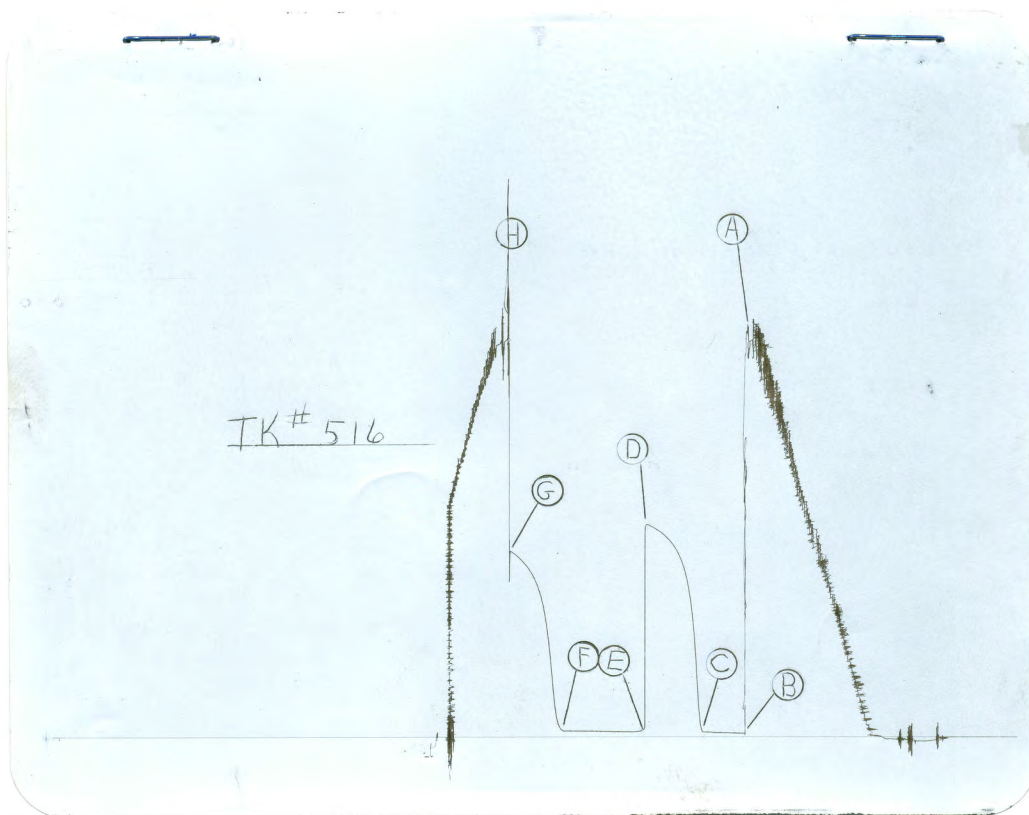
Blow Weak for 60 minutes.

Remarks Died after 30 minutes on second opening.

Drill Collar I. D. Ft. Run

Price of Job \$415.00

TICKET NO. 516



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2160	PSI
(B) First Initial Flow Pressure	10	PSI
(C) First Final Flow Pressure	20	PSI
(D) Initial Closed-in Pressure	1121	PSI
(E) Second Initial Flow Pressure	20	PSI
(F) Second Final Flow Pressure	30	PSI
(G) Final Closed-in Pressure	979	PSI
(H) Final Hydrostatic Mud	2150	PSI

CHENEY TESTING COMPANY

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	5
Well Name & Number	Schultz #1	Zone Tested	Mississippi
Company Address	801 Union Center	Date	3-7-77
Comp. Rep.	Jay Dirks	Tester	Kirk Cheney
Contractor	Abercrombie Drlg. Inc.	Elevation	
Location: Sec. 1 Twp. 19S Rge. 31W Co. Scott State Kan.		Est. Feet of Pay	

Recorder No. 7370 Type Kuster Range 4050 PSI

Recorder Depth 4590

(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 9.1 Viscosity 45

Fluid Loss 10.4 cc

Interval Tested 4561-4593

Anchor Length 32'

Top Packer Depth 4556

Bottom Packer Depth 4561

Total Depth 4593

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 636

Recovery—Total Feet

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 4587

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 1/2"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @

Blow

Remarks Lost circulation going in the

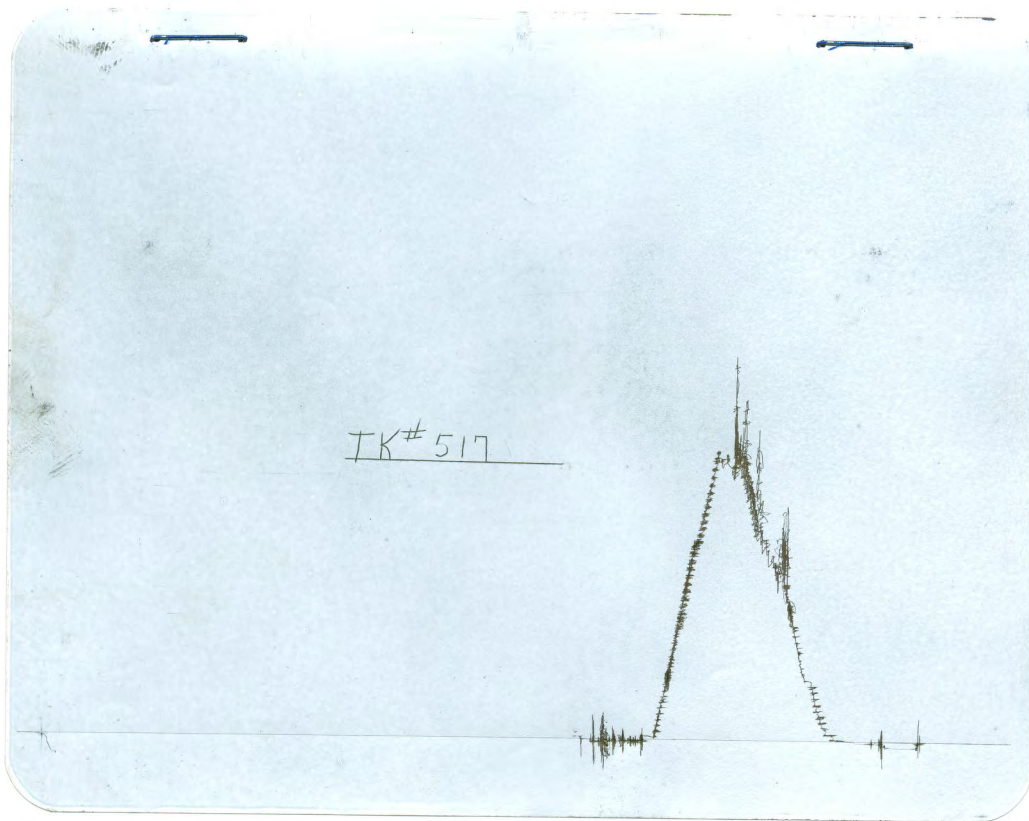
hole with tool. Couldn't get it back.

Came out of the hole.

MISRUN

Drill Collar I. D. Ft. Run

MISRUN Price of Job \$175.00



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	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

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	6
Well Name & Number	Schultz #1	Zone Tested	Mississippi
Company Address	801 Union Center	Date	3-7-77
Comp. Rep.	Jay Dirks	Tester	Kirk Cheney
Contractor	Abercrombie Drlg. Inc.	Elevation	
Location: Sec. 1	Twp. 19S	Rge. 31W	Co. Scott
		State	Kan.
		Est. Feet of Pay	

Recorder No. 7370 Type Kuster Range 4050 PSI

Recorder Depth 4590

(A) Initial Hydrostatic Mud 2292 PSI

(B) First Initial Flow Pressure 40 PSI

(C) First Final Flow Pressure 71 PSI

(D) Initial Closed-in Pressure 1151 PSI

(E) Second Initial Flow Pressure 71 PSI

(F) Second Final Flow Pressure 142 PSI

(G) Final Closed-in Pressure 1060 PSI

(H) Final Hydrostatic Mud 2282 PSI

Temperature 116°

Mud Weight 9.0 Viscosity 42

Fluid Loss 10.4 cc

Interval Tested 4561-4593

Anchor Length 32'

Top Packer Depth 4556

Bottom Packer Depth 4561

Total Depth 4593

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 636

Recovery—Total Feet 20

Recovered 20 Feet Of Oil cut mud.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 4587

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 1/2"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

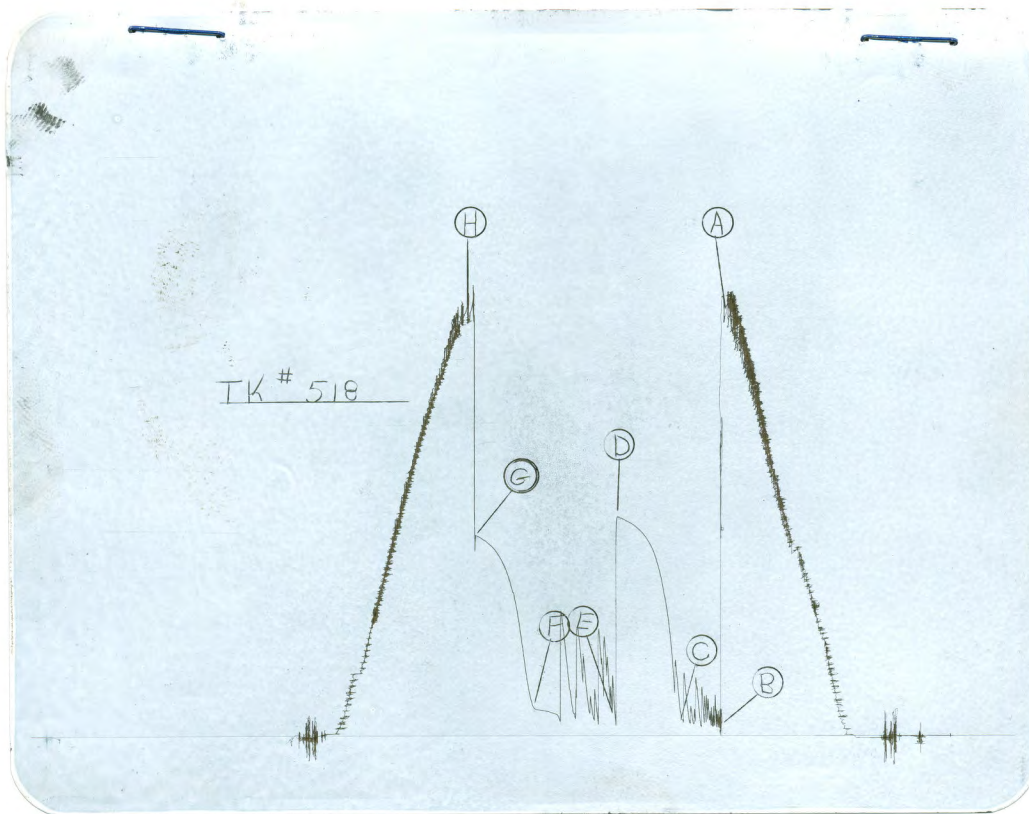
Tool Open @ 9:05 P.M.

Blow Weak through out.

Remarks Tool slid 5' to bottom.

Drill Collar I. D. Ft. Run

Price of Job \$415.00



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2292	PSI
(B) First Initial Flow Pressure	40	PSI
(C) First Final Flow Pressure	71	PSI
(D) Initial Closed-in Pressure	1151	PSI
(E) Second Initial Flow Pressure	71	PSI
(F) Second Final Flow Pressure	142	PSI
(G) Final Closed-in Pressure	1060	PSI
(H) Final Hydrostatic Mud	2282	PSI