

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

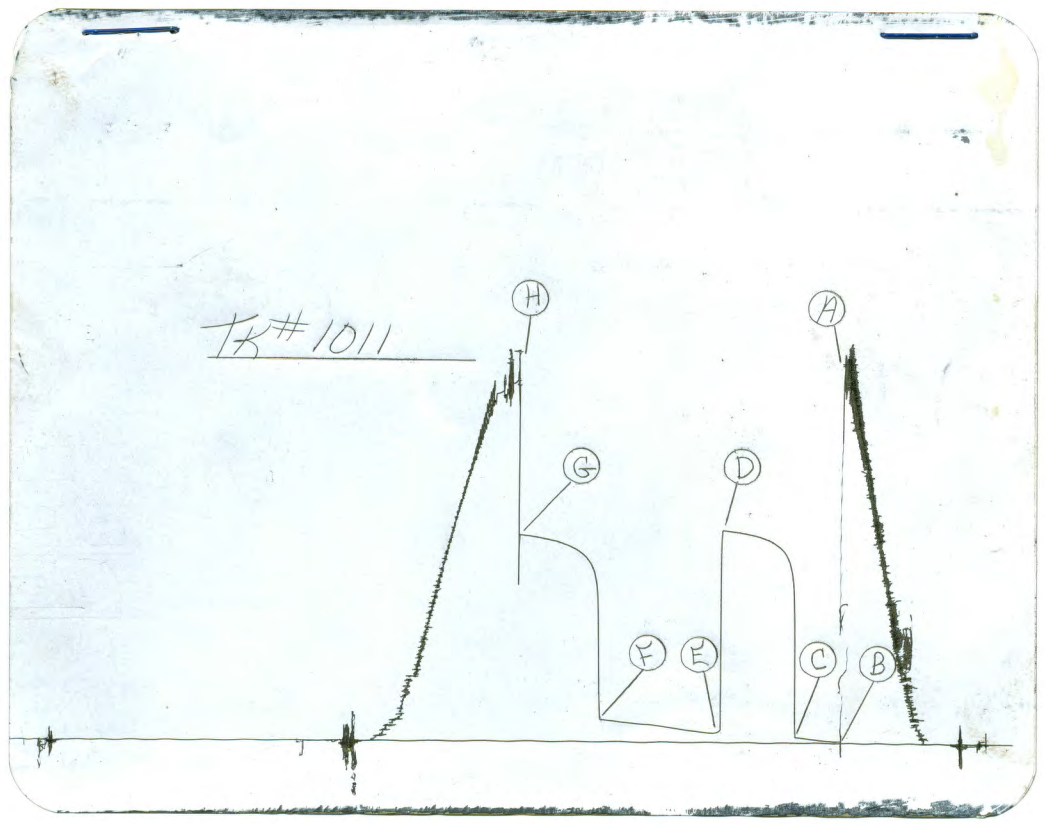
DRILL-STEM TEST DATA

Company Abercrombie Drlg. Co.	Test No. 1
Well Name & Number Paris #1	Zone Tested K.C.
Company Address 801 Union Center Wichita, Ks.	Date 1-24-78
Comp. Rep. Jack Wharton	Tester Kirk Cheney
Contractor Co. Tools	Elevation
Location: Sec. 12 Twp. 19S Rge. 29W Co. Lane State Ks.	Est. Feet of Pay

Recorder No. 7370 Type Kuster Range 4050 PSI
 Recorder Depth 4095
 (A) Initial Hydrostatic Mud 1997 PSI
 (B) First Initial Flow Pressure 10 PSI
 (C) First Final Flow Pressure 30 PSI
 (D) Initial Closed-in Pressure 1121 PSI
 (E) Second Initial Flow Pressure 40 PSI
 (F) Second Final Flow Pressure 102 PSI
 (G) Final Closed-in Pressure 1080 PSI
 (H) Final Hydrostatic Mud 1986 PSI
 Temperature 111
 Mud Weight 91 Viscosity 44
 Fluid Loss 8.8
 Interval Tested 4089-4098
 Anchor Length 9'
 Top Packer Depth 4084
 Bottom Packer Depth 4089
 Total Depth 4098
 Drill Pipe Size 4 1/2 Exh.
 Wt. Pipe I. D. 2.7 Ft. Run 478
 Recovery—Total Feet 262
 Recovered 262 Feet Of muddy water
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Extra Equipment none Price of Job \$440.00

Recorder No. 7456 Type Kuster Range 4150 PSI
 Recorder Depth above packers
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 60 Mins.
 Flow Period 90 Mins.
 Final Shut-in 60 Mins.
 Surface Choke Size 1"
 Bottom Choke Size 3/4"
 Main Hole Size 7 7/8"
 Rubber Size 6 3/4"
 Tool Open @ 1:00 P.m.
 Blow Good 4"-5" blow on first open. Good 5"
 Remarks blow on second open.
Chloride 39,000 P.P.M.
Well Chloride 5,000 P.P.M.
 Drill Collar I. D. 2.7 Ft. Run 262

TICKET NO. 1811



Actual recorder chart

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1997		PSI
(B) First Initial Flow Pressure	10		PSI
(C) First Final Flow Pressure	30		PSI
(D) Initial Closed-in Pressure	1121		PSI
(E) Second Initial Flow Pressure	40		PSI
(F) Second Final Flow Pressure	102		PSI
(G) Final Closed-in Pressure	1080		PSI
(H) Final Hydrostatic Mud	1986		PSI

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DRILL-STEM TEST DATA

Company Abercrombie Drlg. Inc.	Test No. 2
Well Name & Number Paris #1	Zone Tested K.C.
Company Address 801 Union Center	Date 1-25-78
Comp. Rep. Jack Wharton	Tester Kirk Cheney
Contractor Co. tools	Elevation /
Location: Sec. 12 Twp. 19S Rge. 29W Co. Lane State Ks.	Est. Feet of Pay

Recorder No. 7370 Type Kuster Range 4050 PSI

Recorder Depth 4336

(A) Initial Hydrostatic Mud 2140 PSI

(B) First Initial Flow Pressure 10 PSI

(C) First Final Flow Pressure 10 PSI

(D) Initial Closed-in Pressure 357 PSI

(E) Second Initial Flow Pressure 10 PSI

(F) Second Final Flow Pressure 10 PSI

(G) Final Closed-in Pressure 285 PSI

(H) Final Hydrostatic Mud 2140 PSI

Temperature 113

Mud Weight 9.1 Viscosity 47

Fluid Loss 10.4

Interval Tested 4324-4339

Anchor Length 15'

Top Packer Depth 4319

Bottom Packer Depth 4344

Total Depth 4339

Drill Pipe Size 4 1/2 Exh.

Wt. Pipe I. D. 2.7 Ft. Run 478

Recovery—Total Feet 5

Recovered 5 Feet Of mud

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment none

Recorder No. 7456 Type Kuster Range 4150 PSI

Recorder Depth 4333

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"

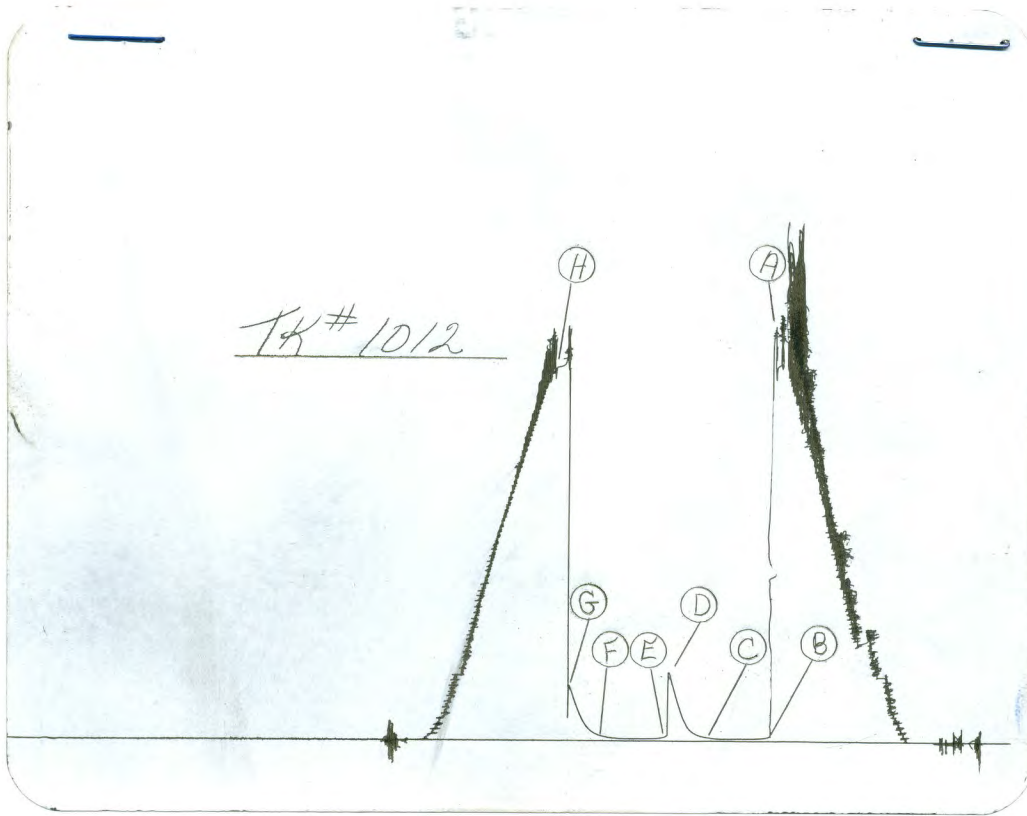
Tool Open @ 9:30 P.M.

Blow

Remarks

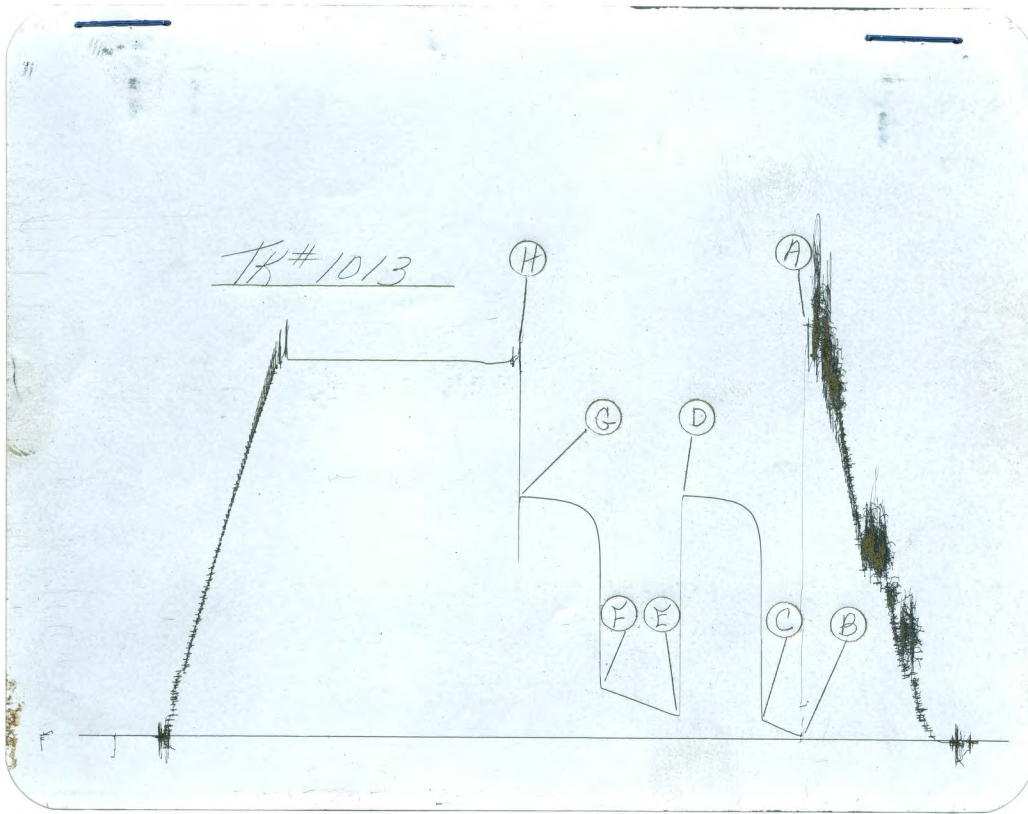
Drill Collar I. D. 2.7 Ft. Run 262

Price of Job \$440.00



Actual recorder chart

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2140		PSI
(B) First Initial Flow Pressure	10		PSI
(C) First Final Flow Pressure	10		PSI
(D) Initial Closed-in Pressure	35.7		PSI
(E) Second Initial Flow Pressure	10		PSI
(F) Second Final Flow Pressure	10		PSI
(G) Final Closed-in Pressure	28.5		PSI
(H) Final Hydrostatic Mud	2140		PSI



Actual recorder chart

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2180		PSI
(B) First Initial Flow Pressure	20		PSI
(C) First Final Flow Pressure	81		PSI
(D) Initial Closed-in Pressure	1273		PSI
(E) Second Initial Flow Pressure	102		PSI
(F) Second Final Flow Pressure	255		PSI
(G) Final Closed-in Pressure	1261		PSI
(H) Final Hydrostatic Mud	2170		PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	4
Well Name & Number	Paris #1	Zone Tested	Marmaton
Company Address	801 Union Center Wichita, Ks.	Date	1-27-78
Comp. Rep.	Jack Wharton	Tester	Kirk Cheney
Contractor	Co. tools	Elevation	
Location: Sec. 12 Twp. 19S Rge. 29W Co. Lane State Ks.		Est. Feet of Pay	

Recorder No. 7370 Type Kuster Range 4050 PSI

Recorder Depth 4486

(A) Initial Hydrostatic Mud 2180 PSI

(B) First Initial Flow Pressure 10 PSI

(C) First Final Flow Pressure 20 PSI

(D) Initial Closed-in Pressure 1172 PSI

(E) Second Initial Flow Pressure 20 PSI

(F) Second Final Flow Pressure 30 PSI

(G) Final Closed-in Pressure 1020 PSI

(H) Final Hydrostatic Mud 2170 PSI

Temperature 115

Mud Weight 9.0 Viscosity 47

Fluid Loss 11.2

Interval Tested 4455-4489

Anchor Length 34'

Top Packer Depth 4450

Bottom Packer Depth 4455

Total Depth 4489

Drill Pipe Size 4 1/2 Exh.

Wt. Pipe I. D. 2.7 Ft. Run 478

Recovery—Total Feet 75

Recovered 2 Feet Of free oil

Recovered 73 Feet Of slightly oil cut mud.

Recovered Feet Of

Recovered Feet Of

Extra Equipment none

Recorder No. 7456 Type Kuster Range 4150 PSI

Recorder Depth 4483

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

Initial Shut-in 60 Mins.

Flow Period 60 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

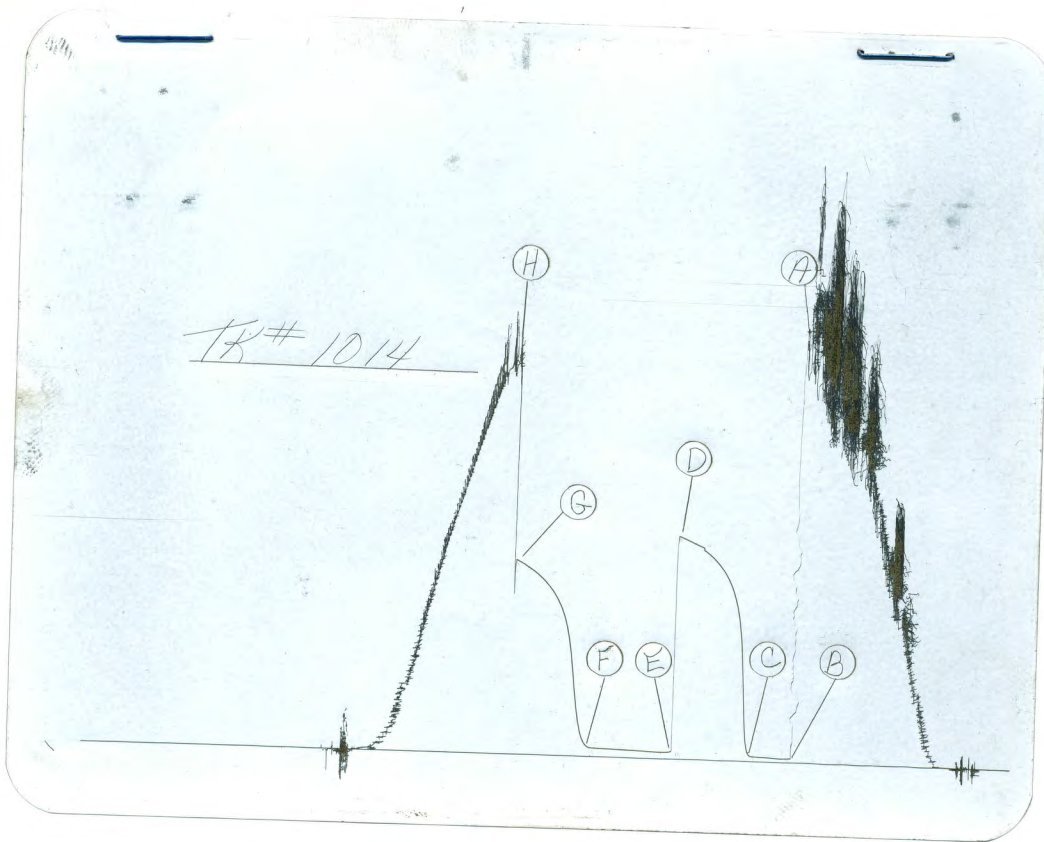
Tool Open @ 4:00 P.M.

Blow Weak 2" blow on 1st open. Weak 1" blow

Remarks throughout second open.

Drill Collar I. D. 2.7 Ft. Run 262

Price of Job \$440.00



Actual recorder chart

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2180		
(B) First Initial Flow Pressure	10		
(C) First Final Flow Pressure	20		
(D) Initial Closed-in Pressure	1172		
(E) Second Initial Flow Pressure	20		
(F) Second Final Flow Pressure	30		
(G) Final Closed-in Pressure	1020		
(H) Final Hydrostatic Mud	2170		

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DRILL-STEM TEST DATA

Company Abercrombie Drlg. Inc.	Test No. 5
Well Name & Number Paris #1	Zone Tested Cherokee
Company Address 801 Union Center Wichita, Ks.	Date 1-28-78
Comp. Rep. Jack Wharton	Tester Kirk Cheney
Contractor Co. tools	Elevation
Location: Sec. 12 Twp. 19S Rge. 29W Co. Lane State Ks.	Est. Feet of Pay

Recorder No. 7370 Type Kuster Range 4050 PSI

Recorder Depth 4628

(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 116

Mud Weight 9.0 Viscosity 54

Fluid Loss 11.2

Interval Tested 4584-4631

Anchor Length 47'

Top Packer Depth 4579

Bottom Packer Depth 4584

Total Depth 4631

Drill Pipe Size 4½ Exh.

Wt. Pipe I. D. 2.7 Ft. Run 478

Recovery—Total Feet 5

Recovered 5 Feet Of Mud with oil spots.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment mirun Price of Job \$200.00

Recorder No. 7456 Type Kuster Range 4150 PSI

Recorder Depth 4625

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 ¾"

Main Hole Size 7 7/8"

Rubber Size 6 ¾"

Tool Open @ 7:15 P.M.

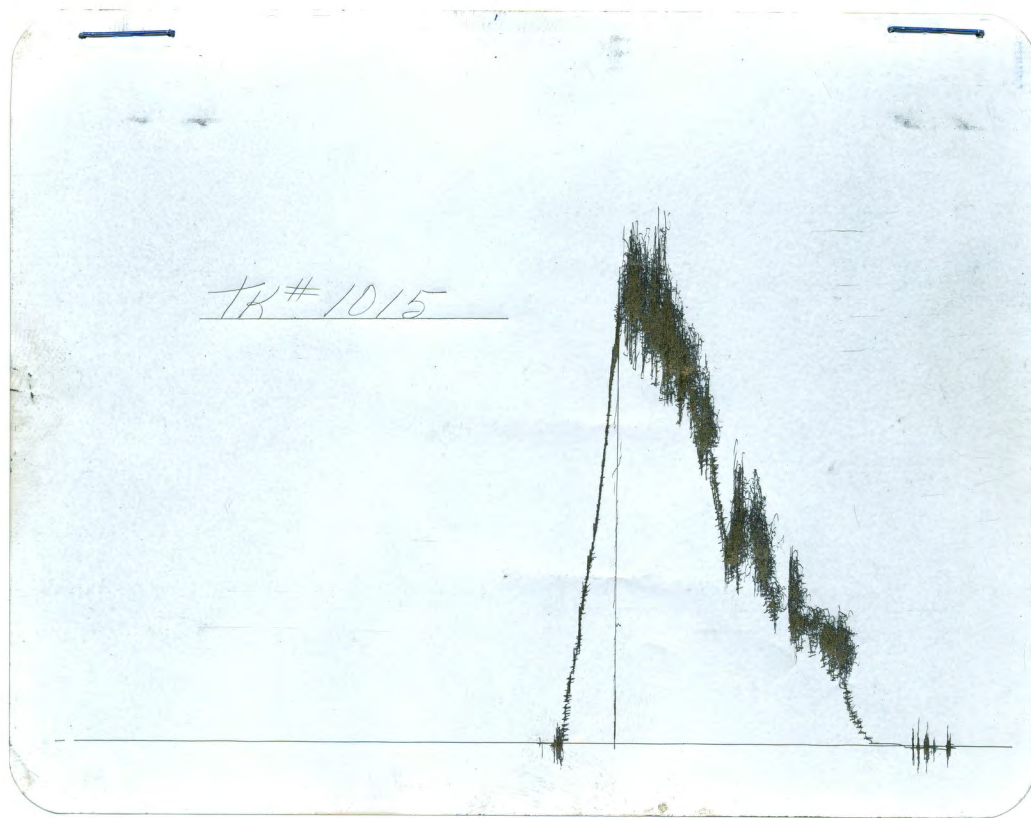
Blow Weak 1" blow for 30 min. Weak ¼ blow

Remarks for 10 min. & died on second open.

Both recorders

stopped.

Drill Collar I. D. 2.7 Ft. Run 262



Actual 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

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DRILL-STEM TEST DATA

Company Abercrombie Drlg. Inc.	Test No. 6
Well Name & Number Paris #1	Zone Tested K.C.
Company Address 801 Union Center, Wichita, Kan.	Date 1-29-78
Comp. Rep. Jack Wharton	Tester Kirk Cheney
Contractor Company Tools	Elevation
Location: Sec. 12 Twp. 19S Rge. 29W Co. Lane State Kan.	Est. Feet of Pay

Recorder No. 7370 Type Kuster Range 4050 PSI

Recorder Depth 4201

(A) Initial Hydrostatic Mud 2140 PSI

(B) First Initial Flow Pressure 30 PSI

(C) First Final Flow Pressure 61 PSI

(D) Initial Closed-in Pressure 1202 PSI

(E) Second Initial Flow Pressure 71 PSI

(F) Second Final Flow Pressure 122 PSI

(G) Final Closed-in Pressure 765 PSI

(H) Final Hydrostatic Mud 2130 PSI

Temperature 112

Mud Weight 9.2 Viscosity 48

Fluid Loss 11.2 cc

Interval Tested 4180-4204

Anchor Length 24'

Top Packer Depth 4180

Bottom Packer Depth 4204

Total Depth 4674

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 240

Recovery—Total Feet 280

Recovered 20 Feet Of Free Oil 31.2 Gravity

Recovered 60 Feet Of Oil & Water Cut Mud

Recovered 60 Feet Of Heavy Water & Oil Cut Mud

Recovered 140 Feet Of Heavy Mud & Oil Cut Water

Extra Equipment Straddle \$175.00 Price of Job \$615.00

Recorder No. 7456 Type Kuster Range 4150 PSI

Recorder Depth 4198

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

Initial Shut-in 60 Mins.

Flow Period 90 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

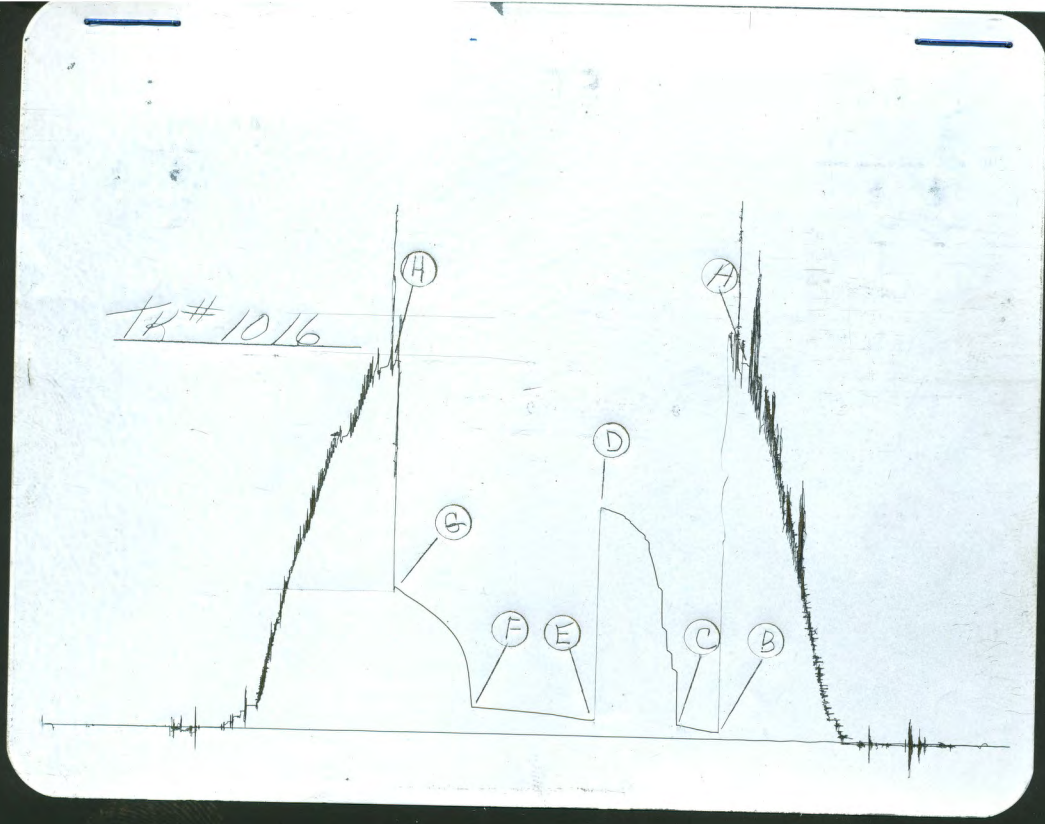
Tool Open @ 6:15 P.M.

Blow Strong throughout.

Remarks

Chlorides 30,000 P.P.M.

Drill Collar I. D. Ft. Run



Actual recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2140	PSI
(B) First Initial Flow Pressure	30	PSI
(C) First Final Flow Pressure	61	PSI
(D) Initial Closed-in Pressure	1202	PSI
(E) Second Initial Flow Pressure	71	PSI
(F) Second Final Flow Pressure	122	PSI
(G) Final Closed-in Pressure	765	PSI
(H) Final Hydrostatic Mud	2130	PSI