

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 Rupp #1	Zone Tested Topeka
Company Address Wichita, Kan.	Date 5-17-78
Comp. Rep. Greg Cheney	Tester Orman Bell
Contractor Co. Tools	Elevation
Location: Sec. 22 Twp. 13S Rge. 19W Co. Ellis State Kan.	Est. Feet of Pay

Recorder No. 6730 Type Kuster Range 4200 PSI
 Recorder Depth 3332
 (A) Initial Hydrostatic Mud 1616 PSI
 (B) First Initial Flow Pressure 43 PSI
 (C) First Final Flow Pressure 64 PSI
 (D) Initial Closed-in Pressure 1172 PSI
 (E) Second Initial Flow Pressure 53 PSI
 (F) Second Final Flow Pressure 53 PSI
 (G) Final Closed-in Pressure 538 PSI
 (H) Final Hydrostatic Mud 1606 PSI

Temperature -
 Mud Weight 9.2 Viscosity 45
 Fluid Loss 10.0 cc

Interval Tested 3312-3335
 Anchor Length 23'
 Top Packer Depth 3307
 Bottom Packer Depth 3312
 Total Depth 3335
 Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 158
 Recovery—Total Feet 30
 Recovered 20 Feet Of salt water
 Recovered 10 Feet Of mud
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____

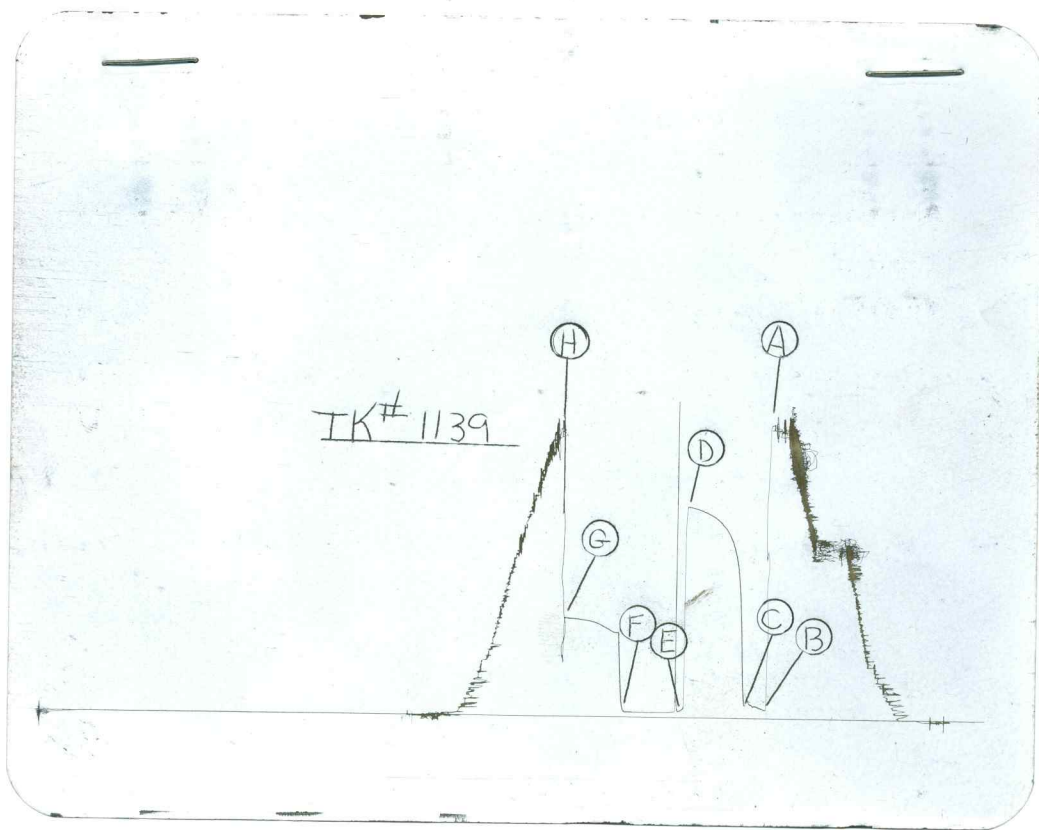
Extra Equipment _____ Price of Job \$400.00

Recorder No. 3695 Type Kuster Range 5300 PSI
 Recorder Depth 3329
 Tool Open Before I. S. I. 15 Mins.
 Initial Shut-in 45 Mins.
 Flow Period 45 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 @ 6:45 A.M.

Blow Very weak blow, flushed tool
 Remarks on second open.

Drill Collar I. D. 2.7 Ft. Run 468

TICKET NO. 1139



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1616		PSI
(B) First Initial Flow Pressure	43		PSI
(C) First Final Flow Pressure	64		PSI
(D) Initial Closed-in Pressure	1172		PSI
(E) Second Initial Flow Pressure	53		PSI
(F) Second Final Flow Pressure	53		PSI
(G) Final Closed-in Pressure	538		PSI
(H) Final Hydrostatic Mud	1606		PSI

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DRILL-STEM TEST DATA

Company <u>Abercrombie Drlg. Inc.</u>	Test No. <u>2</u>
Well Name & Number <u>Rupp #1</u>	Zone Tested _____
Company Address <u>Wichita, Kan.</u>	Date <u>5-17-78</u>
Comp. Rep. <u>Greg Cheney</u>	Tester <u>Orman Bell</u>
Contractor <u>Co. Tools</u>	Elevation _____
Location: <u>Sec. 22 Twp. 13S Rge. 19W Co. Ellis State Kan.</u>	Est. Feet of Pay _____

Recorder No. 6730 Type Kuster Range 4200 PSI

Recorder Depth 3385

(A) Initial Hydrostatic Mud 1616 PSI

(B) First Initial Flow Pressure 21 PSI

(C) First Final Flow Pressure 21 PSI

(D) Initial Closed-in Pressure 21 PSI

(E) Second Initial Flow Pressure 21 PSI

(F) Second Final Flow Pressure 21 PSI

(G) Final Closed-in Pressure 21 PSI

(H) Final Hydrostatic Mud 1606 PSI

Temperature -

Mud Weight 9.2 Viscosity 40

Fluid Loss 10.4 cc

Interval Tested 3365-3388

Anchor Length 23'

Top Packer Depth 3360

Bottom Packer Depth 3365

Total Depth 3388

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 158

Recovery—Total Feet 5

Recovered 5 Feet Of salt water

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____

Recorder No. 3695 Type Kuster Range 5300 PSI

Recorder Depth 3382

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 @ 10:00 P.M.

Blow Weak blow. Died on first opening

Remarks in 12 min. Flushed tool on

second opening.

Drill Collar I. D. 2.7 Ft. Run 468

Price of Job \$400.00

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company <u>Abercrombie Drlg. Inc.</u>	Test No. <u>3</u>
Well Name & Number <u>Rupp #1</u>	Zone Tested _____
Company Address <u>Wichita</u>	Date <u>5-18-78</u>
Comp. Rep. <u>Greg Cheney</u>	Tester <u>Orman Bell</u>
Contractor <u>Co. Tools</u>	Elevation _____
Location: Sec. <u>22</u> Twp. <u>13S</u> Rge. <u>19W</u> Co. <u>Ellis</u> State <u>Ks.</u>	Est. Feet of Pay <u>30</u>

Recorder No. 6730 Type Kuster Range 4200 PSI
 Recorder Depth 3442
 (A) Initial Hydrostatic Mud 1637 PSI
 (B) First Initial Flow Pressure 43 PSI
 (C) First Final Flow Pressure 43 PSI
 (D) Initial Closed-in Pressure 129 PSI
 (E) Second Initial Flow Pressure 53 PSI
 (F) Second Final Flow Pressure 53 PSI
 (G) Final Closed-in Pressure 107 PSI
 (H) Final Hydrostatic Mud 1627 PSI

Temperature _____
 Mud Weight 9.4 Viscosity 645
 Fluid Loss 10.4
 Interval Tested 3415-3445
 Anchor Length 30
 Top Packer Depth 3410
 Bottom Packer Depth 3415
 Total Depth 3445
 Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. 2.7 Ft. Run 158
 Recovery—Total Feet 30
 Recovered 30 Feet Of oil cut mud (15% oil 85% mud)
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____

Extra Equipment none

Recorder No. 3695 Type Kuster Range 5300 PSI
 Recorder Depth 3439
 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 @ 3:45 P.M.

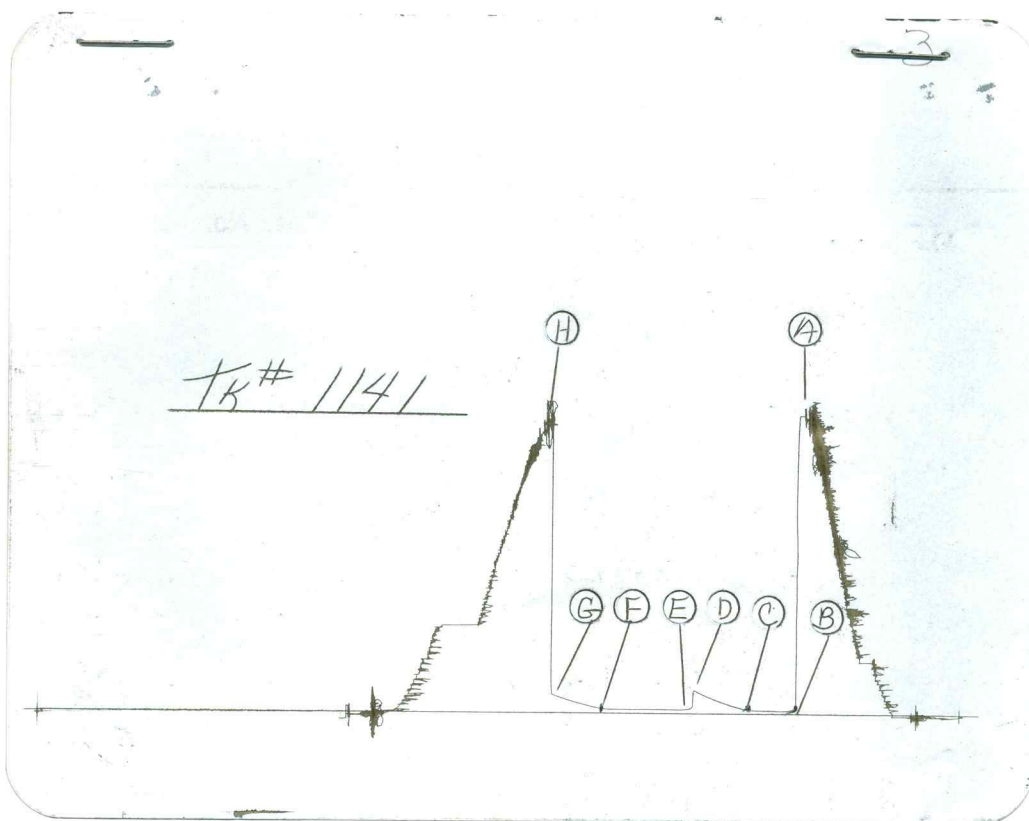
Blow Weak blow to steady.

Remarks Strong blow on second opening.

Drill Collar I. D. 2.7 Ft. Run 468

Price of Job \$400.00

TICKET NO. 1141



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1637	PSI
(B) First Initial Flow Pressure	43	PSI
(C) First Final Flow Pressure	43	PSI
(D) Initial Closed-in Pressure	129	PSI
(E) Second Initial Flow Pressure	53	PSI
(F) Second Final Flow Pressure	53	PSI
(G) Final Closed-in Pressure	107	PSI
(H) Final Hydrostatic Mud	1627	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	4
Well Name & Number	Rupp #1	Zone Tested	K.C.
Company Address	Wichita	Date	5-19-78
Comp. Rep.	Greg Cheney	Tester	Orman Bell
Contractor		Elevation	
Location: Sec. 22 Twp 13S Rge 19W Co. Ellis State Ks.		Est. Feet of Pay	21

Recorder No. 6730 Type Kuster Range 4200 PSI

Recorder Depth 3462

(A) Initial Hydrostatic Mud 1700 PSI

(B) First Initial Flow Pressure 23 PSI

(C) First Final Flow Pressure 23 PSI

(D) Initial Closed-in Pressure 750 PSI

(E) Second Initial Flow Pressure 23 PSI

(F) Second Final Flow Pressure 23 PSI

(G) Final Closed-in Pressure 53 PSI

(H) Final Hydrostatic Mud 1690 PSI

Temperature _____

Mud Weight 9.3 Viscosity 45

Fluid Loss 10.4

Interval Tested 3444-3465

Anchor Length 21

Top Packer Depth 3439

Bottom Packer Depth 3444

Total Depth 3465

Drill Pipe Size 4 1/2 EX

Wt. Pipe I. D. _____ Ft. Run 158

Recovery—Total Feet 15

Recovered 15 Feet Of oil specked mud

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____

Recorder No. 3695 Type Kuster Range 5300 PSI

Recorder Depth 3459

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"

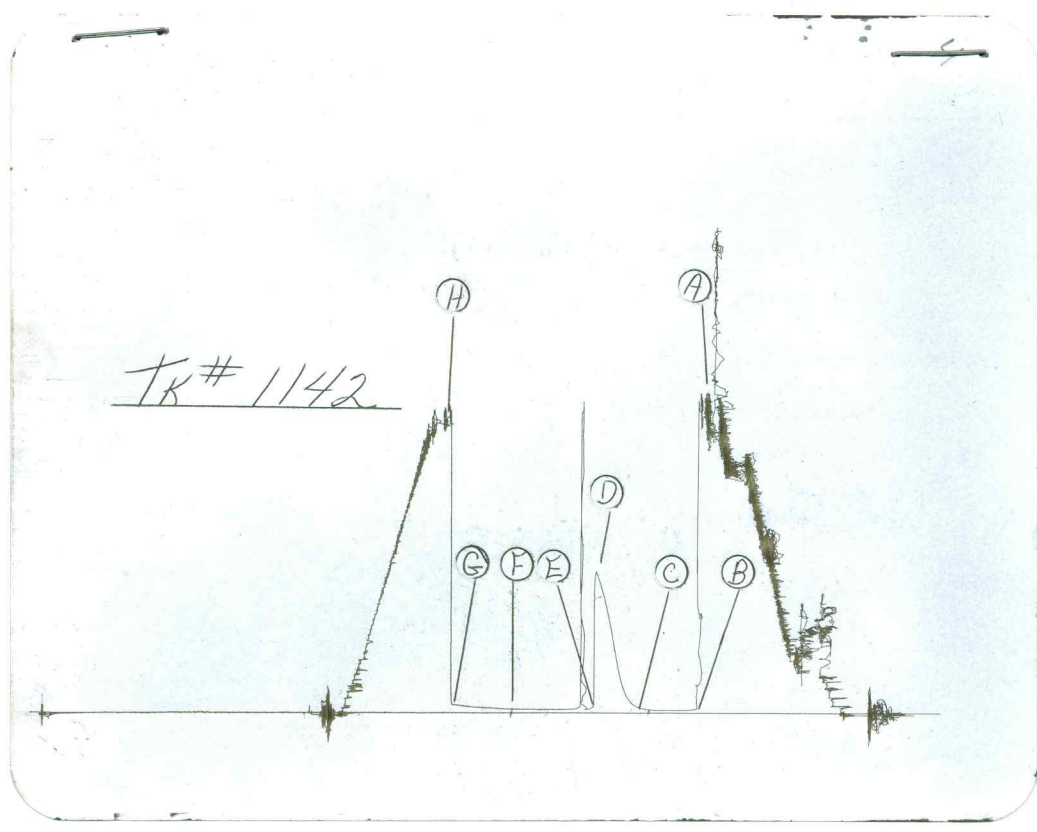
Tool Open @ 5:45 A.M.

Blow Very weak blow.

Remarks Dead on 2nd opening. Flush tool.

Drill Collar I. D. 2.7 Ft. Run 468

Price of Job \$400.00



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1700		PSI
(B) First Initial Flow Pressure	23		PSI
(C) First Final Flow Pressure	23		PSI
(D) Initial Closed-in Pressure	750		PSI
(E) Second Initial Flow Pressure	23		PSI
(F) Second Final Flow Pressure	23		PSI
(G) Final Closed-in Pressure	53		PSI
(H) Final Hydrostatic Mud	1690		PSI

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DRILL-STEM TEST DATA

Company <u>Abercrombie Drlg. Inc.</u>	Test No. <u>5</u>
Well Name & Number <u>Rupp #1</u>	Zone Tested <u>K.C.</u>
Company Address <u>Wichita</u>	Date <u>5-19-78</u>
Comp. Rep. <u>Greg Cheney</u>	Tester <u>Orman Bell</u>
Contractor <u>Co. Tools</u>	Elevation
Location: Sec. <u>22</u> Twp. <u>13S</u> Rge. <u>19W</u> Co. <u>Ellis</u> State <u>Ks.</u>	Est. Feet of Pay <u>21'</u>

Recorder No. 6730 Type Kuster Range 4200 PSI

Recorder Depth 3481

(A) Initial Hydrostatic Mud 1689 PSI

(B) First Initial Flow Pressure 53 PSI

(C) First Final Flow Pressure 237 PSI

(D) Initial Closed-in Pressure 1088 PSI

(E) Second Initial Flow Pressure 230 PSI

(F) Second Final Flow Pressure 409 PSI

(G) Final Closed-in Pressure 1068 PSI

(H) Final Hydrostatic Mud 1679 PSI

Temperature _____

Mud Weight 9.2 Viscosity 43

Fluid Loss 10.2

Interval Tested 3463-3484

Anchor Length 21

Top Packer Depth 3458

Bottom Packer Depth 3463

Total Depth 3487

Drill Pipe Size 4 1/2 KH

Wt. Pipe I. D. 2.7 Ft. Run 158

Recovery—Total Feet 940

Recovered 10 Feet Of clean oil

Recovered 930 Feet Of water

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment none

Recorder No. 3695 Type Kuster Range 5300 PSI

Recorder Depth 3478

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"

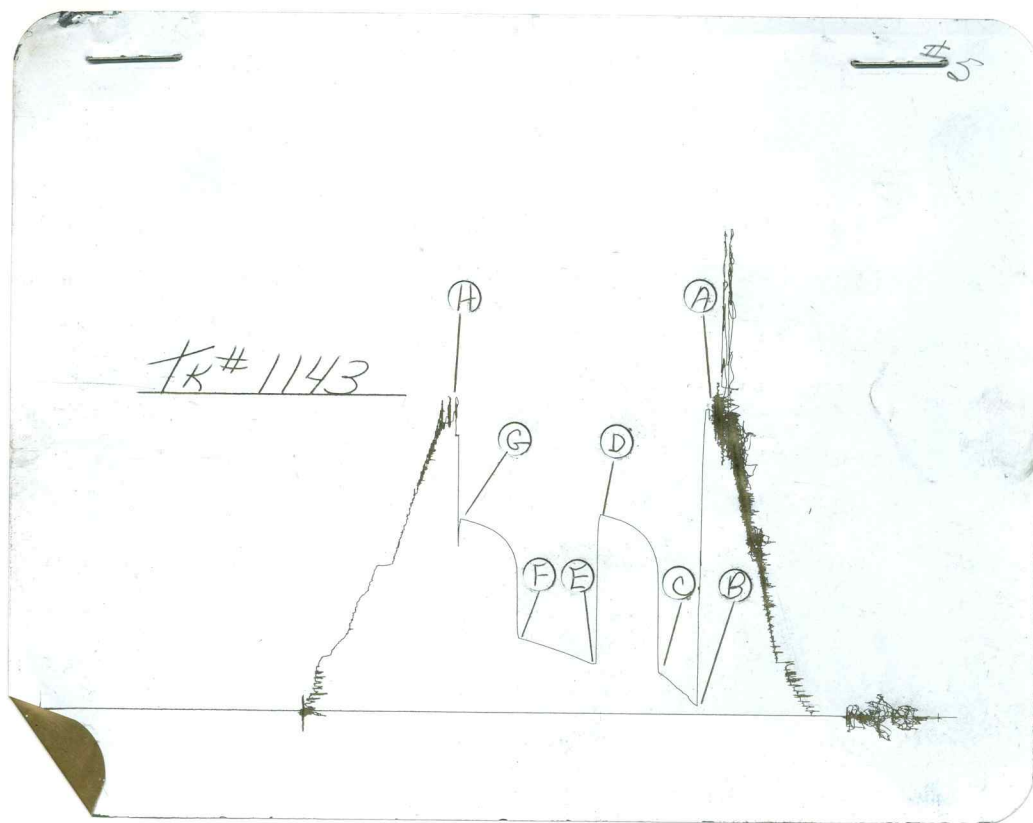
Tool Open @ 6:45 P.M.

Blow Strong blow throughout.

Remarks _____

Drill Collar I. D. 2.7 Ft. Run 468

Price of Job \$400.00



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1689	PSI
(B) First Initial Flow Pressure	53	PSI
(C) First Final Flow Pressure	237	PSI
(D) Initial Closed-in Pressure	1088	PSI
(E) Second Initial Flow Pressure	230	PSI
(F) Second Final Flow Pressure	409	PSI
(G) Final Closed-in Pressure	1068	PSI
(H) Final Hydrostatic Mud	1679	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	6
Well Name & Number	Rupp #1	Zone Tested	K.C.
Company Address	Wichita	Date	5-20-78
Comp. Rep.	Greg Cheney	Tester	Orman Bell
Contractor	Co. Tools	Elevation	
Location: Sec. 22 Twp. 13S Rge. 19W Co. Ellis	State Ks.	Est. Feet of Pay	

Recorder No. 6730 Type Kuster Range 4200 PSI

Recorder Depth 3500

(A) Initial Hydrostatic Mud 1668 PSI

(B) First Initial Flow Pressure 53 PSI

(C) First Final Flow Pressure 161 PSI

(D) Initial Closed-in Pressure 908 PSI

(E) Second Initial Flow Pressure 215 PSI

(F) Second Final Flow Pressure 301 PSI

(G) Final Closed-in Pressure 739 PSI

(H) Final Hydrostatic Mud 1658 PSI

Temperature

Mud Weight 9.3 Viscosity 44

Fluid Loss 10.1

Interval Tested 3487-3503

Anchor Length 16

Top Packer Depth 3492

Bottom Packer Depth 3487

Total Depth 3503

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. 2.7 Ft. Run 158

Recovery—Total Feet 980

Recovered 770 Feet Of clean gassy oil (30 gravity temp. conv.)

Recovered 55 Feet Of frothy oil

Recovered 155 Feet Of slightly oil cut mud

Recovered 2216 Feet Of gas in pipe

Extra Equipment none

Price of Job \$400.00

Recorder No. 3695 Type Kuster Range 5300 PSI

Recorder Depth 3497

Tool Open Before I. S. 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"

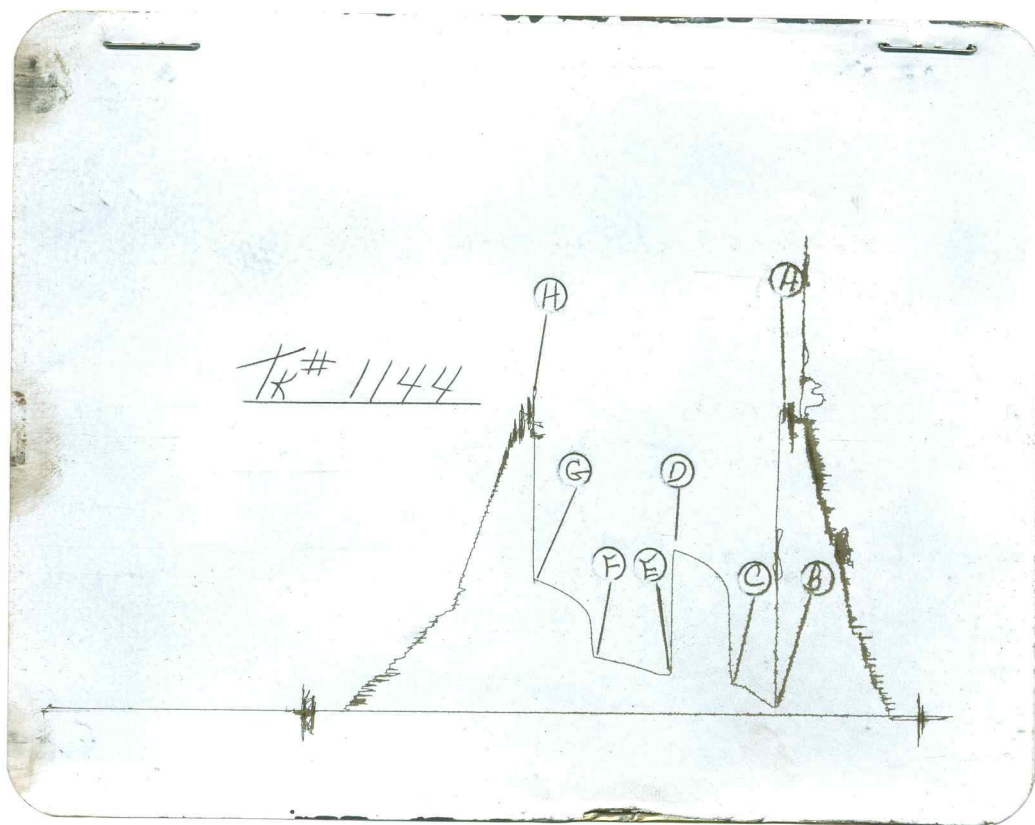
Rubber Size 6 3/4"

Tool Open @ 11:45 A.M.

Blow Strong blow.

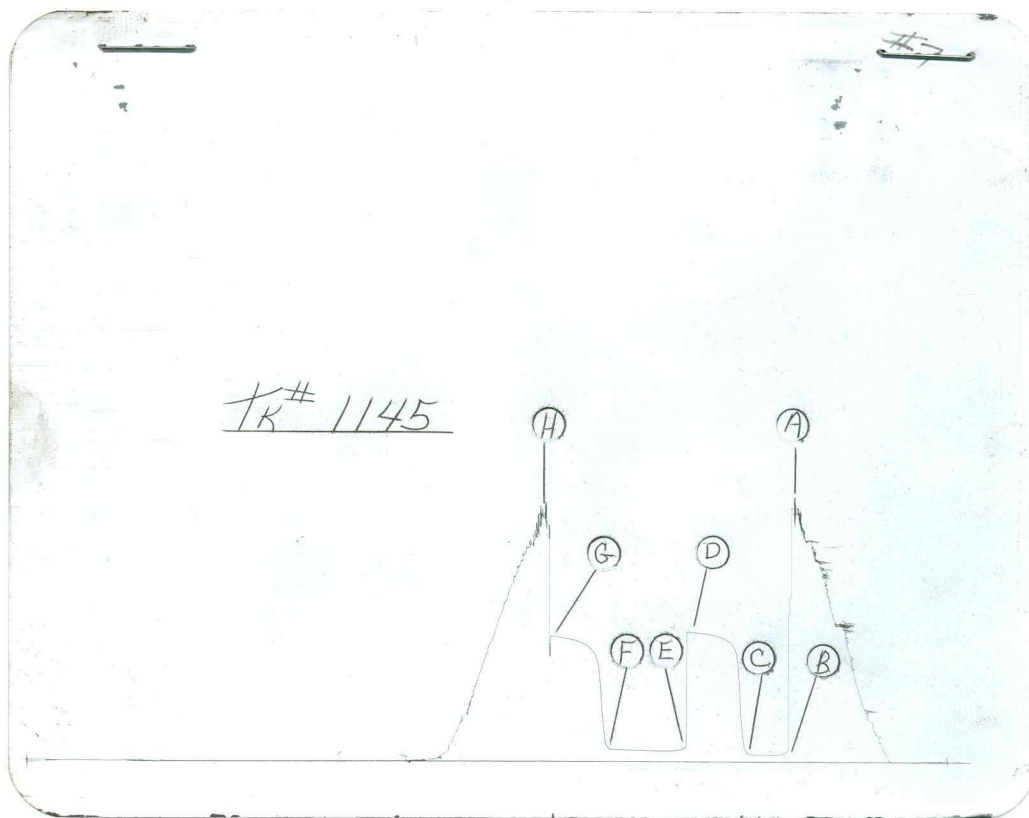
Remarks

Drill Collar I. D. 2.7 Ft. Run 468



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1668	PSI
(B) First Initial Flow Pressure	53	PSI
(C) First Final Flow Pressure	161	PSI
(D) Initial Closed-in Pressure	908	PSI
(E) Second Initial Flow Pressure	215	PSI
(F) Second Final Flow Pressure	301	PSI
(G) Final Closed-in Pressure	739	PSI
(H) Final Hydrostatic Mud	1658	PSI



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1405		PSI
(B) First Initial Flow Pressure	43		PSI
(C) First Final Flow Pressure	43		PSI
(D) Initial Closed-in Pressure	718		PSI
(E) Second Initial Flow Pressure	64		PSI
(F) Second Final Flow Pressure	64		PSI
(G) Final Closed-in Pressure	697		PSI
(H) Final Hydrostatic Mud	1395		PSI