

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	#3 Johnson	Zone Tested	K.C.
Company Address	Wichita, Kansas	Date	1-2-82
Comp. Rep.	Mike Freeman	Tester	Huck Smith
Contractor	Co. Tools	Elevation	2661 K.B.
Location: Sec. 8 Twp. 17 Rge. 27w Co. Lane State Ks.		Est. Feet of Pay	

Recorder No. 11091 Type AK-1 Range 4200 PSI

Recorder Depth 4145

(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 9.2 to 9.4 Viscosity 45 to 50

Fluid Loss 8.0

Interval Tested 4125-4148

Anchor Length 23'

Top Packer Depth 4126

Bottom Packer Depth 4125

Total Depth 4148

Drill Pipe Size 4 1/2 X.H.

Wt. Pipe I. D. 2.7 Ft. Run 644

Recovery—Total Feet

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job \$330.00

Recorder No. 11090 Type AK-1 Range 4125 PSI

Recorder Depth 4142

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 3/4"

Main Hole Size 7 1/8"

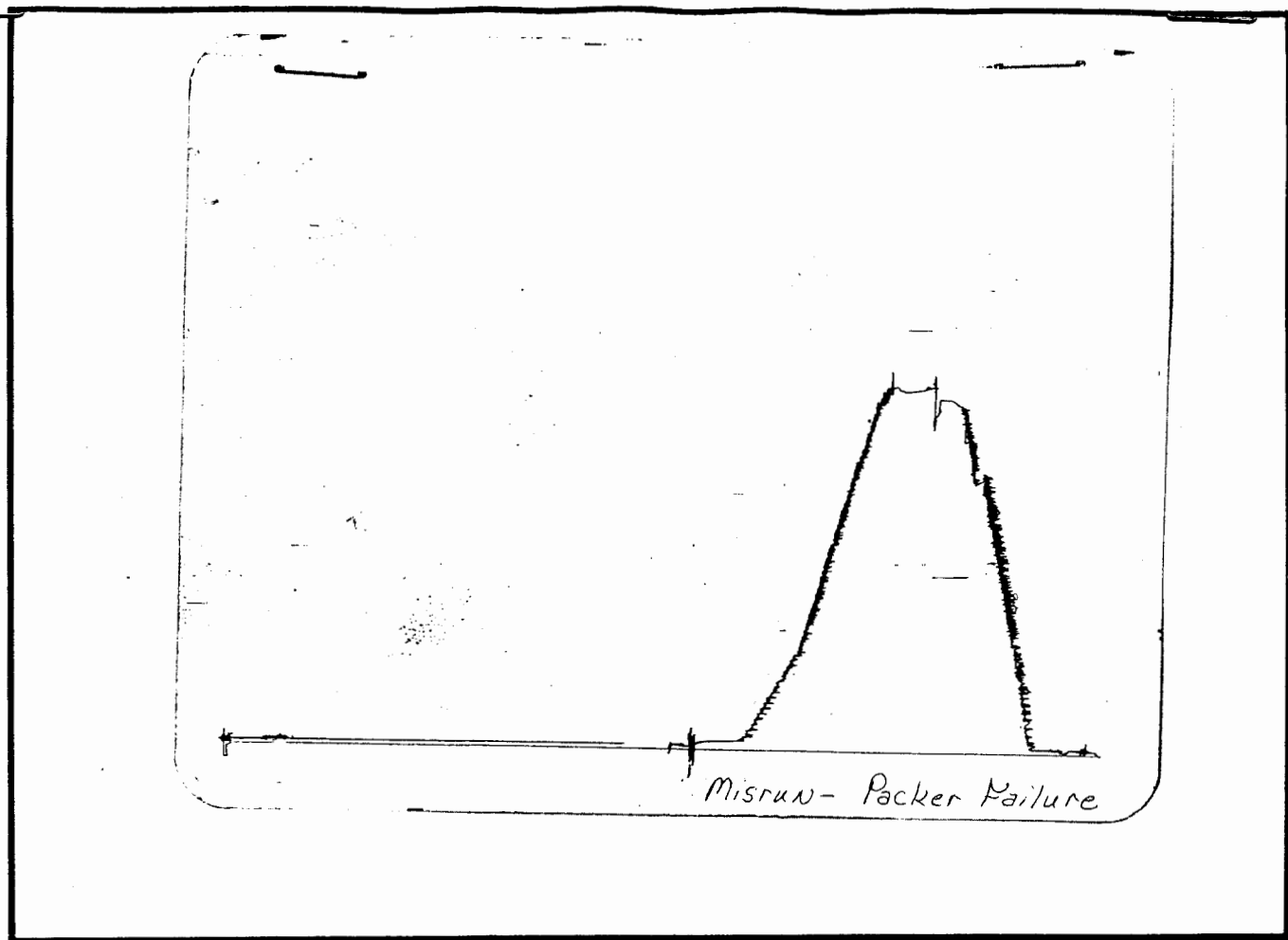
Rubber Size 6 3/4"

Tool Open @

Blow Packer Failure—Misrun

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		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.	2
Well Name & Number	#3 Johnson	Zone Tested	K.C.
Company Address	Wichita, Kansas	Date	1-2-82
Comp. Rep.	Mike Freeman	Tester	Robert Albrecht
Contractor	Co. Tools	Elevation	2661 K.B.
Location: Sec. 8 Twp. 17 Rge. 27 Co. Lane State Kansas		Est. Feet of Pay	

Recorder No. 11091 Type AK-1 Range 4200 PSI

Recorder Depth 4145

(A) Initial Hydrostatic Mud 1989 PSI

(B) First Initial Flow Pressure 31 PSI

(C) First Final Flow Pressure 31 PSI

(D) Initial Closed-in Pressure 914 PSI

(E) Second Initial Flow Pressure 63 PSI

(F) Second Final Flow Pressure 63 PSI

(G) Final Closed-in Pressure 190 PSI

(H) Final Hydrostatic Mud 1937 PSI

Temperature -

Mud Weight 9.2 Viscosity 45

Fluid Loss 8.0

Interval Tested 4133-4148

Anchor Length 15'

Top Packer Depth 4128

Bottom Packer Depth 4133

Total Depth 4148

Drill Pipe Size 4 1/2 X.H.

Wt. Pipe I. D. 2.7 Ft. Run 644

Recovery—Total Feet 100

Recovered 60 Feet Of Mud

Recovered 30 Feet Of Oil Cut Mud (4% Oil, 96% Mud)

Recovered 10 Feet Of Oil

Recovered Feet Of

Extra Equipment None

Recorder No. 11090 Type AK-1 Range 4125 PSI

Recorder Depth 4142

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 @ 10:56 P.M.

Blow Weak Steady Blow 4" In The Bucket.

Remarks

Drill Collar I. D. Ft. Run

Price of Job \$750.00

CHENEY TESTING COMPANY

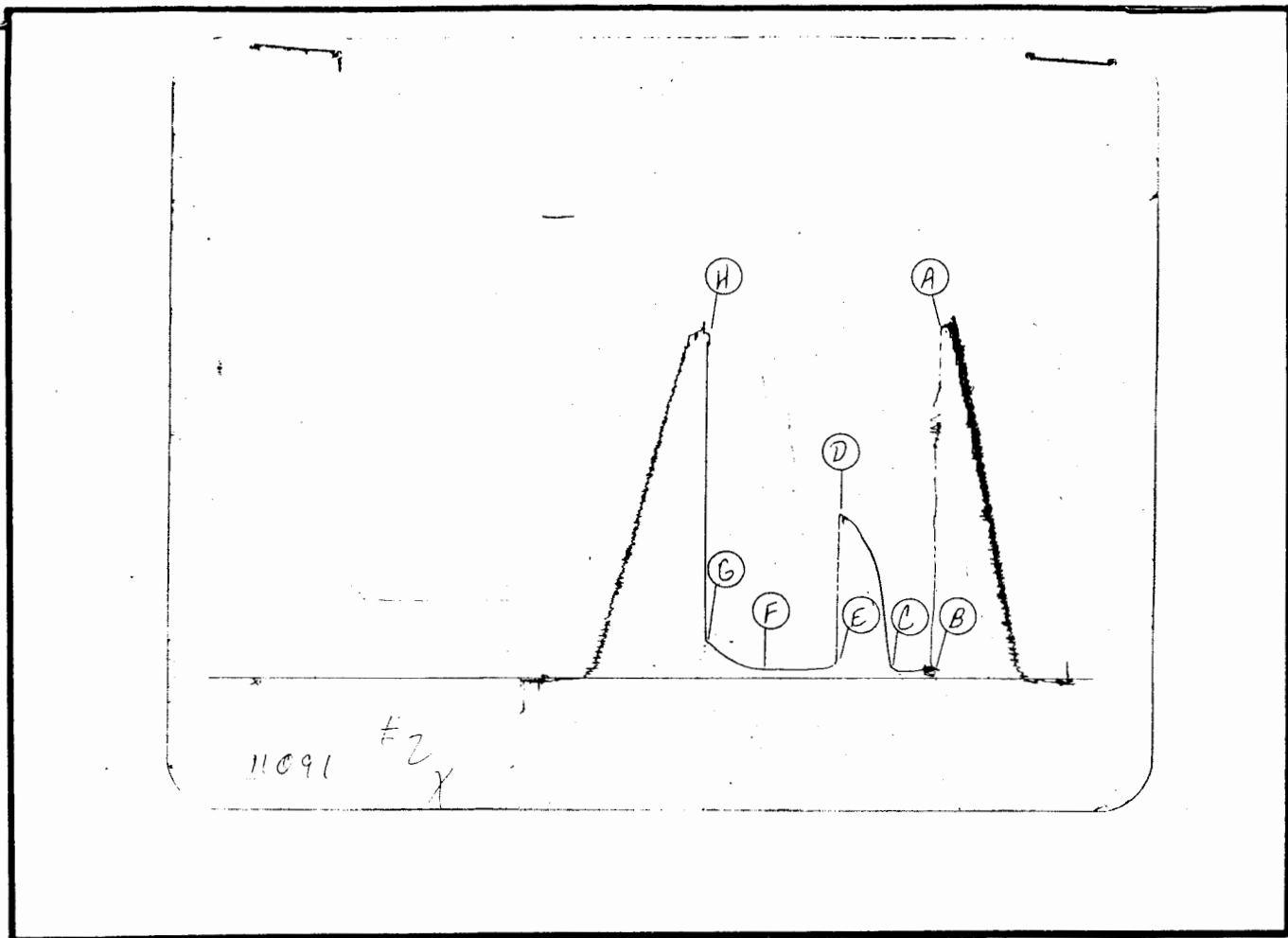
Pressure Data

Date 1-2-82 Test Ticket No. 5308
 Recorder No. 11091 Capacity 4200 Location 4145 Ft.
 Clock No. 25559 Elevation 2661 K.B. Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1985	P.S.I.	10:56 P. M	
B First Initial Flow Pressure	56	P.S.I.	30 Mins	30 Mins.
C First Final Flow Pressure	60	P.S.I.	45 Mins	43 Mins.
D Initial Closed-in Pressure	934	P.S.I.	60 Mins	60 Mins.
E Second Initial Flow Pressure	99	P.S.I.	45 Mins	40 Mins.
F Second Final Flow Pressure	52	P.S.I.		
G Final Closed-in Pressure	207	P.S.I.		
H Final Hydrostatic Mud	1933	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>3</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>56</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>99</u>	<u>0</u>	<u>52</u>
P 2 <u>5</u>	<u>51</u>	<u>5</u>	<u>258</u>	<u>5</u>	<u>65</u>	<u>5</u>	<u>57</u>
P 3 <u>10</u>	<u>46</u>	<u>10</u>	<u>540</u>	<u>10</u>	<u>58</u>	<u>10</u>	<u>66</u>
P 4 <u>15</u>	<u>41</u>	<u>15</u>	<u>677</u>	<u>15</u>	<u>55</u>	<u>15</u>	<u>80</u>
P 5 <u>20</u>	<u>41</u>	<u>20</u>	<u>753</u>	<u>20</u>	<u>51</u>	<u>20</u>	<u>99</u>
P 6 <u>25</u>	<u>42</u>	<u>25</u>	<u>810</u>	<u>25</u>	<u>50</u>	<u>25</u>	<u>119</u>
P 7 <u>30</u>	<u>60</u>	<u>30</u>	<u>870</u>	<u>30</u>	<u>50</u>	<u>30</u>	<u>145</u>
P 8		<u>35</u>	<u>903</u>	<u>35</u>	<u>50</u>	<u>35</u>	<u>176</u>
P 9		<u>40</u>	<u>928</u>	<u>40</u>	<u>50</u>	<u>40</u>	<u>207</u>
P10		<u>43</u>	<u>934</u>	<u>45</u>	<u>50</u>		
P11				<u>50</u>	<u>50</u>		
P12				<u>55</u>	<u>50</u>		
P13				<u>60</u>	<u>52</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1989	1985	PSI
(B) First Initial Flow Pressure	31	56	PSI
(C) First Final Flow Pressure	31	60	PSI
(D) Initial Closed-in Pressure	914	934	PSI
(E) Second Initial Flow Pressure	63	99	PSI
(F) Second Final Flow Pressure	63	52	PSI
(G) Final Closed-in Pressure	190	207	PSI
(H) Final Hydrostatic Mud	1937	1933	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	3
Well Name & Number	#3 Johnson	Zone Tested	K.C.
Company Address	Wichita, Ks.	Date	1-3-82
Comp. Rep.	Mike Freeman	Tester	Robert Albrecht
Contractor	Co. Tools	Elevation	2661 K.B.
Location: Sec. 8 Twp. 17 Rge. 27 Co. Lane State Ks.		Est. Feet of Pay	

Recorder No. 11091 Type AK-1 Range 4200 PSI

Recorder Depth 4193

(A) Initial Hydrostatic Mud 2021 PSI

(B) First Initial Flow Pressure 42 PSI

(C) First Final Flow Pressure 42 PSI

(D) Initial Closed-in Pressure 370 PSI

(E) Second Initial Flow Pressure 74 PSI

(F) Second Final Flow Pressure 74 PSI

(G) Final Closed-in Pressure 349 PSI

(H) Final Hydrostatic Mud 2031 PSI

Temperature _____

Mud Weight 9.2-9.4 Viscosity 45-50

Fluid Loss 8.0

Interval Tested 4158-4196

Anchor Length 38

Top Packer Depth 4153

Bottom Packer Depth 4158

Total Depth 4196

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. 27 Ft. Run 644

Recovery—Total Feet 171

Recovered 170 Feet Of SALT WATER.

Recovered 1 Feet Of OIL.

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment NONE Price of Job \$750.00

Recorder No. 11090 Type AK-1 Range 4125 PSI

Recorder Depth 4190

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"

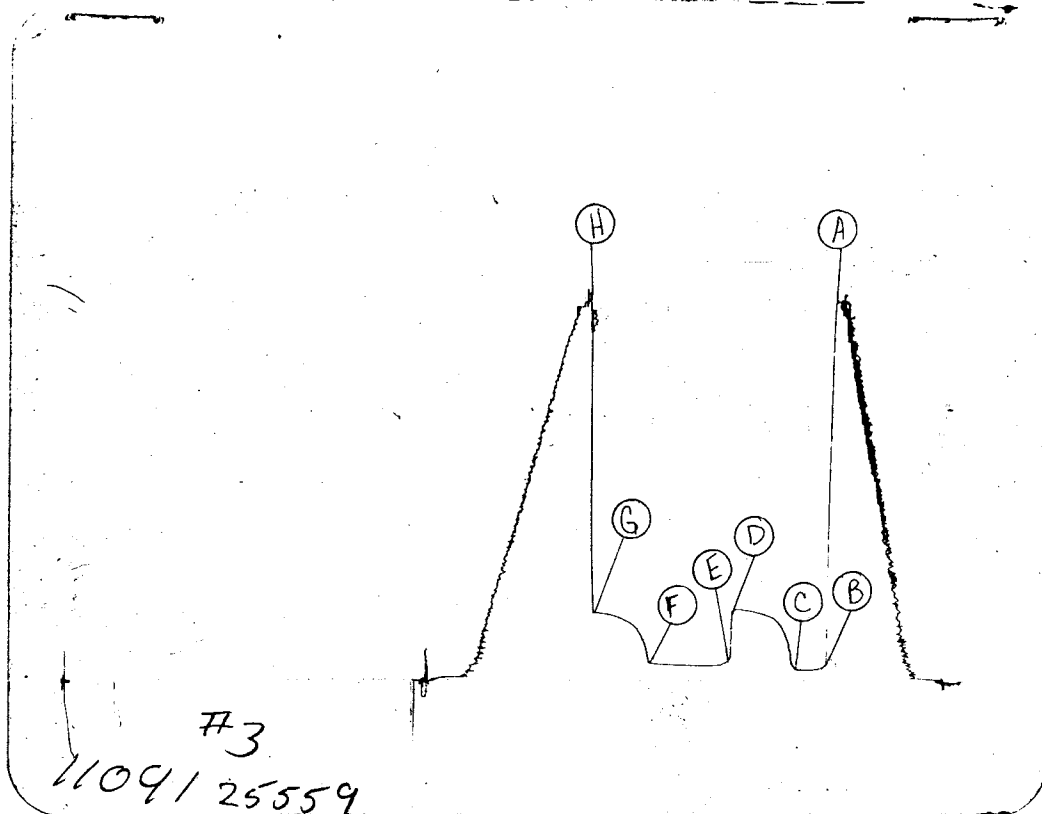
Rubber Size 6 3/4"

Tool Open @ 2:00 P.M.

Blow 1ST OPEN-WEAK STEADY BLOW.

Remarks 2ND OPEN-4" IN THE BUCKET.

Drill Collar I. D. - Ft. Run -



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2021	PSI
(B) First Initial Flow Pressure	42	PSI
(C) First Final Flow Pressure	42	PSI
(D) Initial Closed-in Pressure	370	PSI
(E) Second Initial Flow Pressure	74	PSI
(F) Second Final Flow Pressure	74	PSI
(G) Final Closed-in Pressure	349	PSI
(H) Final Hydrostatic Mud	2031	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	4
Well Name & Number	#3 Johnson	Zone Tested	K.C.
Company Address	Wichita, Ks.	Date	1-4-82
Comp. Rep.	Mike Freeman	Tester	Robert Albrecht
Contractor	Co. Tools	Elevation	2661 K.B.
Location: Sec. 8 Twp. 17 Rge. 27 Co. Lane	State Ks.	Est. Feet of Pay	

Recorder No. 11091 Type AK-1 Range 4200 PSI

Recorder Depth 4217

(A) Initial Hydrostatic Mud 1997 PSI

(B) First Initial Flow Pressure 51 PSI

(C) First Final Flow Pressure 72 PSI

(D) Initial Closed-in Pressure 504 PSI

(E) Second Initial Flow Pressure 123 PSI

(F) Second Final Flow Pressure 164 PSI

(G) Final Closed-in Pressure 493 PSI

(H) Final Hydrostatic Mud 2028 PSI

Temperature _____

Mud Weight 9.2-9.4 Viscosity 45-50

Fluid Loss 8.8

Interval Tested 4194-4220

Anchor Length 26

Top Packer Depth 4189

Bottom Packer Depth 4194

Total Depth 4220

Drill Pipe Size 4 1/2 Xh

Wt. Pipe I. D. 2.7 Ft. Run 644

Recovery—Total Feet 341

Recovered 341 Feet Of SALT WATER.

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment NONE Price of Job \$750.00

Recorder No. 11090 Type AK-1 Range 4125 PSI

Recorder Depth 4214

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 @ 5:15 A.M.

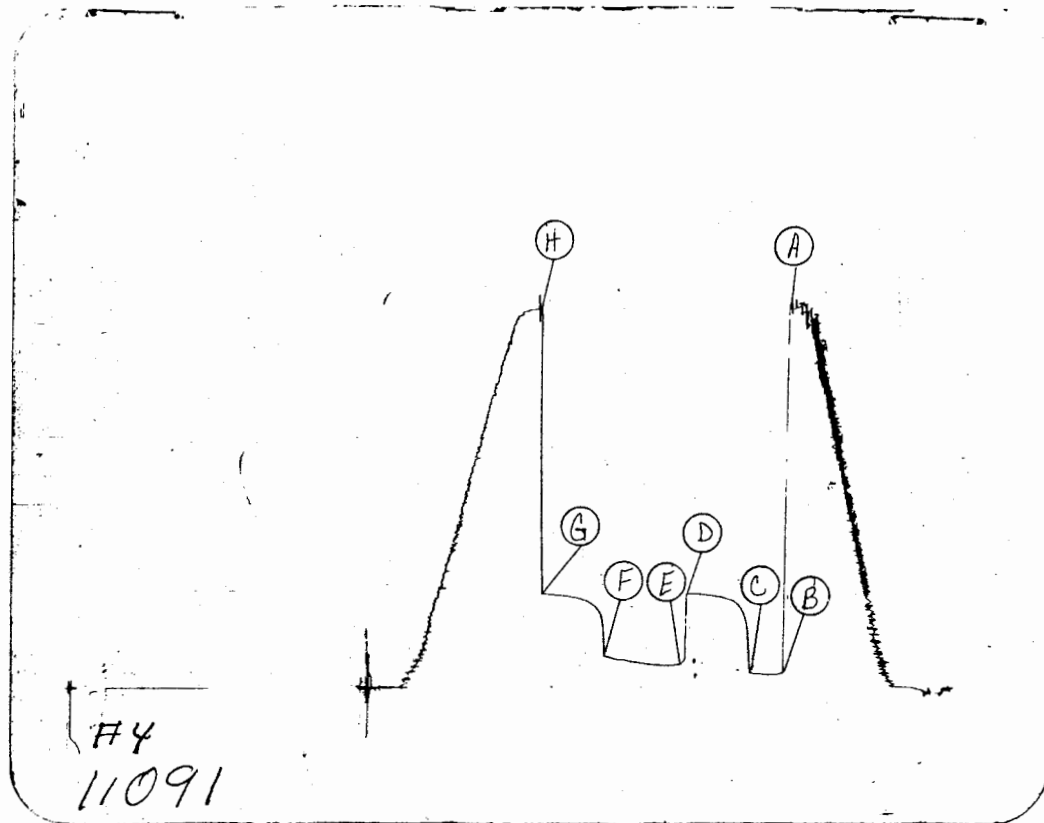
Blow 1ST OPEN-GOOD BLOW. 25 MIN. TO THE

Remarks BOTTOM OF BUCKET.

2ND OPEN-GOOD BLOW. 55 MIN. TO REACH BOTTOM

OF BUCKET.

Drill Collar I. D. - Ft. Run -



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1997	PSI
(B) First Initial Flow Pressure	51	PSI
(C) First Final Flow Pressure	72	PSI
(D) Initial Closed-in Pressure	504	PSI
(E) Second Initial Flow Pressure	123	PSI
(F) Second Final Flow Pressure	164	PSI
(G) Final Closed-in Pressure	493	PSI
(H) Final Hydrostatic Mud	2028	PSI

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Co.	Test No.	5
Well Name & Number	#3 Johnson	Zone Tested	K.C.
Company Address	Wichita, Ks.	Date	1-4-82
Comp. Rep.	Mike Freeman	Tester	Robert Albrecht
Contractor	Co. Tools	Elevation	2661 K.B.
Location: Sec. 8 Twp. 17 Rge. 27 Co. Lane State Ks.		Est. Feet of Pay	

Recorder No. 11091 Type AK-1 Range 4200 PSI

Recorder Depth 4255

(A) Initial Hydrostatic Mud 2059 PSI

(B) First Initial Flow Pressure 51 PSI

(C) First Final Flow Pressure 51 PSI

(D) Initial Closed-in Pressure 82 PSI

(E) Second Initial Flow Pressure 185 PSI

(F) Second Final Flow Pressure 51 PSI

(G) Final Closed-in Pressure 61 PSI

(H) Final Hydrostatic Mud 2039 PSI

Temperature _____

Mud Weight 9.2-9.4 Viscosity 45-50

Fluid Loss 9.6

Interval Tested 4227-4258

Anchor Length 31'

Top Packer Depth 4222

Bottom Packer Depth 4227

Total Depth 4258

Drill Pipe Size 4 1/2 Xh

Wt. Pipe I. D. 27 Ft. Run 644

Recovery—Total Feet 20

Recovered 20 Feet Of MUD.

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment NONE Price of Job \$750.00

Recorder No. 11090 Type AK-1 Range 4125 PSI

Recorder Depth 4252

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 1/8"

Rubber Size 6 3/4"

Tool Open @ 8:00 P.M.

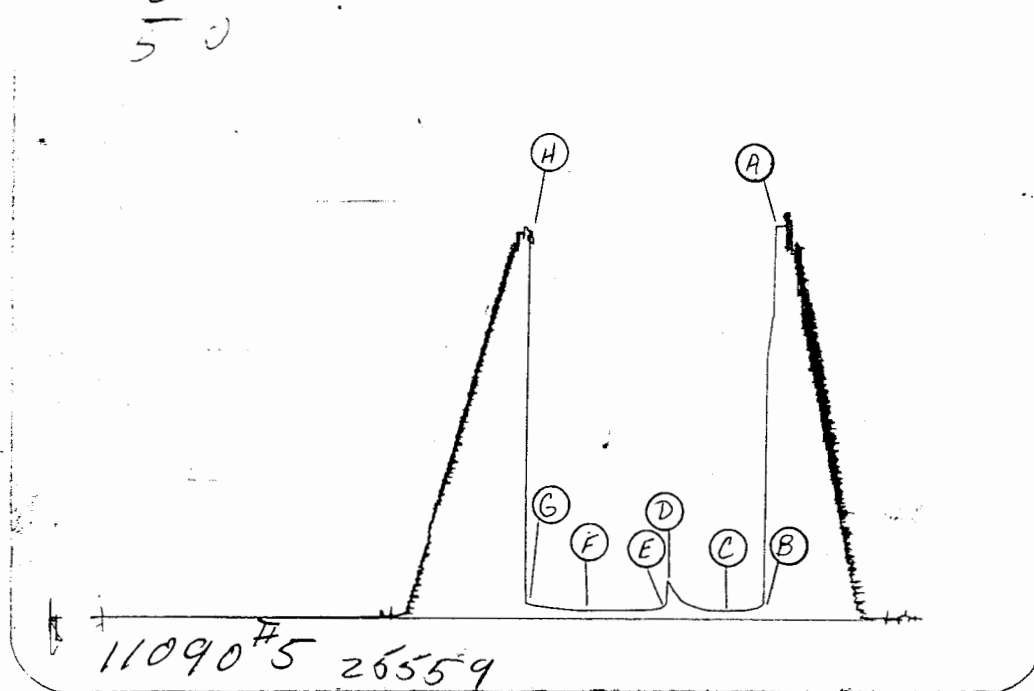
Blow 1ST OPEN-WEAK & STEADY.

Remarks 2ND OPEN-WEAK & STEADY. 1" IN THE

BUCKET.

Drill Collar I. D. - Ft. Run -

2000
50
50



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2059	PSI
(B) First Initial Flow Pressure	51	PSI
(C) First Final Flow Pressure	51	PSI
(D) Initial Closed-in Pressure	82	PSI
(E) Second Initial Flow Pressure	185	PSI
(F) Second Final Flow Pressure	51	PSI
(G) Final Closed-in Pressure	61	PSI
(H) Final Hydrostatic Mud	2039	PSI

CHENEY TESTING COMPANY

P. O. BOX 3

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DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	6
Well Name & Number	#3 Johnson	Zone Tested	Lower Marmaton
Company Address	Wichita, Ks.	Date	1-5-82
Comp. Rep.	Mike Freeman	Tester	Robert Albrecht
Contractor	Co. Tools	Elevation	2661 K.B.
Location: Sec. 8 Twp. 17 Rge. 27 Co. Lane	State Ks.	Est. Feet of Pay	

Recorder No. 11091 Type AK-1 Range 4200 PSI

Recorder Depth 4380

(A) Initial Hydrostatic Mud 2781 PSI

(B) First Initial Flow Pressure 164 PSI

(C) First Final Flow Pressure 164 PSI

(D) Initial Closed-in Pressure 1442 PSI

(E) Second Initial Flow Pressure 92 PSI

(F) Second Final Flow Pressure 205 PSI

(G) Final Closed-in Pressure 1132 PSI

(H) Final Hydrostatic Mud 2781 PSI

Temperature _____

Mud Weight 9.2-9.4 Viscosity 45-50

Fluid Loss 11.2

Interval Tested 4298-4383

Anchor Length 85'

Top Packer Depth 4293

Bottom Packer Depth 4298

Total Depth 4383

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. 27 Ft. Run 644

Recovery—Total Feet 270

Recovered 270 Feet Of MUDDY SALT WATER.

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment NONE Price of Job \$750.00

Recorder No. 11090 Type AK-1 Range 4125 PSI

Recorder Depth 4377

Tool Open Before I. S. I. 60 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 @ 9:50 P.M.

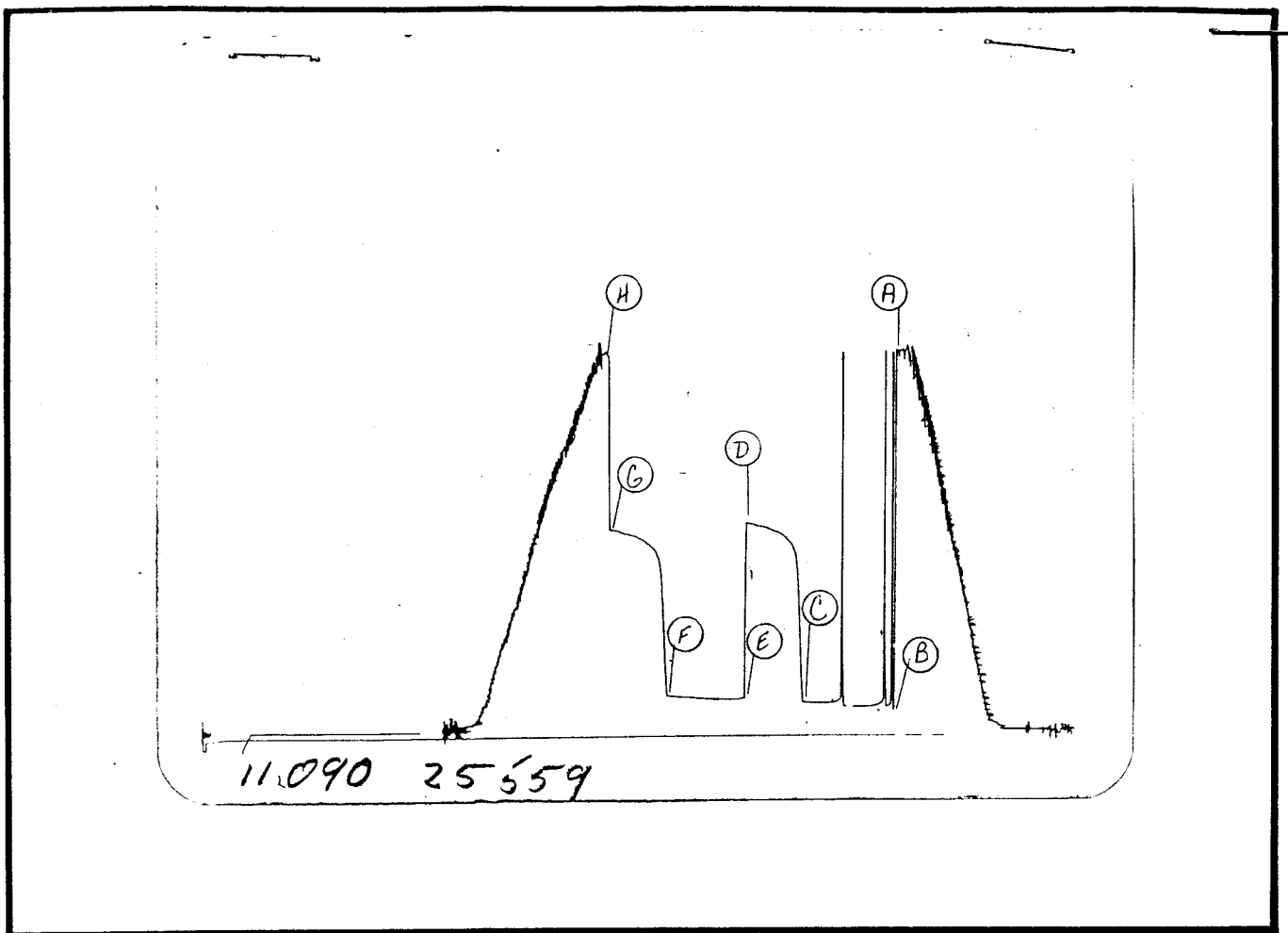
Blow 1ST OPEN-WEAK BLOW. BUILD TO 1" IN

Remarks BUCKET.

2ND OPEN-WEAK BLOW. BUILD TO 6" IN BUCKET.

FLUSHED TOOL TWICE.

Drill Collar I. D. - Ft. Run -



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2781	PSI
(B) First Initial Flow Pressure	164	PSI
(C) First Final Flow Pressure	164	PSI
(D) Initial Closed-in Pressure	1442	PSI
(E) Second Initial Flow Pressure	92	PSI
(F) Second Final Flow Pressure	205	PSI
(G) Final Closed-in Pressure	1132	PSI
(H) Final Hydrostatic Mud	2781	PSI