

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company Abercrombie Drlg. Co.	Test No. <u>1</u>
Well Name & Number Keith #1	Zone Tested K.C.
Company Address Wichita, Kansas	Date 9-21-80
Comp. Rep. Dick Renard	Tester Kirk Cheney
Contractor Co. Tools	Elevation 2379 K.B.
Location: Sec. 36 Twp. 7S Rge. 24W Co. Graham State Kans.	Est. Feet of Pay

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder Depth 3681

(A) Initial Hydrostatic Mud 1929 PSI

(B) First Initial Flow Pressure 20 PSI

(C) First Final Flow Pressure 20 PSI

(D) Initial Closed-in Pressure 20 PSI

(E) Second Initial Flow Pressure 20 PSI

(F) Second Final Flow Pressure 20 PSI

(G) Final Closed-in Pressure 20 PSI

(H) Final Hydrostatic Mud 1919 PSI

Temperature 106

Mud Weight 9.5 Viscosity 54

Fluid Loss 23.4

Interval Tested 3674-3684

Anchor Length 10'

Top Packer Depth 3669

Bottom Packer Depth 3674

Total Depth 3684

Drill Pipe Size 4½ EXH

Wt. Pipe I. D. 2.7 Ft. Run 312

Recovery—Total Feet 5

Recovered 5 Feet Of Mud.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 7437 Type AK-1 Range 4200 PSI

Recorder Depth 3678

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 ¾"

Main Hole Size 7⅞"

Rubber Size 6¾"

Tool Open @ 1:25 A.M.

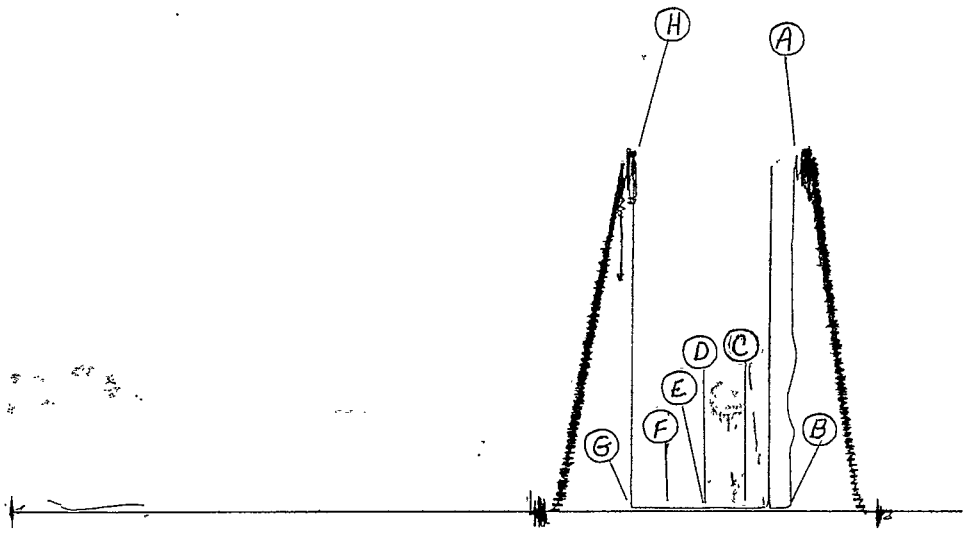
Blow Weak Blow For 10 Min. & Died.

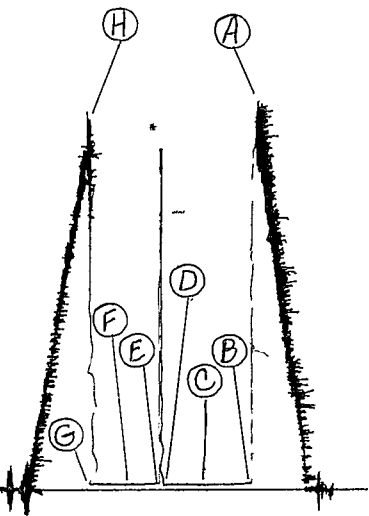
Remarks Flushed Tool After 15 Min.

No Blow

Drill Collar I. D. Ft. Run

Price of Job \$600.00





CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company Abercrombie Drlg. Co. Inc.	Test No. 3
Well Name & Number Keith #1	Zone Tested K.C.
Company Address Wichita, Kansas	Date 9-22-80
Comp. Rep. Dick Renard	Tester Kirk Cheney
Contractor Co. Tools	Elevation 2379 K.B.
Location: Sec. 36 Twp. 7S Rge. 24W Co. Graham State Kans.	Est. Feet of Pay

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder Depth 3769

(A) Initial Hydrostatic Mud 2012 PSI

(B) First Initial Flow Pressure 40 PSI

(C) First Final Flow Pressure 40 PSI

(D) Initial Closed-in Pressure 60 PSI

(E) Second Initial Flow Pressure 40 PSI

(F) Second Final Flow Pressure 40 PSI

(G) Final Closed-in Pressure 50 PSI

(H) Final Hydrostatic Mud 2002 PSI

Temperature 107

Mud Weight 10.0 Viscosity 40

Fluid Loss 14.2

Interval Tested 3742-3772

Anchor Length 30'

Top Packer Depth 3737

Bottom Packer Depth 3742

Total Depth 3772

Drill Pipe Size 4½ Exh.

Wt. Pipe I. D. 2.7 Ft. Run 312

Recovery—Total Feet 10

Recovered 10 Feet Of 10 Mud.

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment None

Recorder No. 7437 Type AK-1 Range 4200 PSI

Recorder Depth 3766

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 ¾"

Main Hole Size 7⅞"

Rubber Size 6¾"

Tool Open @ 12:25 A.M.

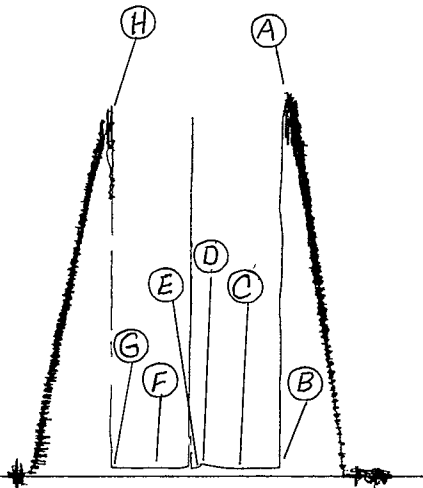
Blow Weak Blow For 15 Min. Dead On 2nd

Remarks Open. Flushed Tool After 5 Min.

No Blow.

Drill Collar I. D. - Ft. Run -

Price of Job \$600.00



CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Co. Inc.	Test No.	4
Well Name & Number	Keith #1	Zone Tested	K.C.
Company Address	Wichita, Kansas	Date	9-22-80
Comp. Rep.	Dick Renard	Tester	Kirk Cheney
Contractor	Co. Tools	Elevation	2379 K.B.
Location: Sec. 36 Twp. 7S Rge. 24W Co. Graham State Ks.		Est. Feet of Pay	

Recorder No. 10290 Type AK-1 Range 4250 PSI

Recorder No. 7437 Type AK-1 Range 4200 PSI

Recorder Depth _____

Recorder Depth _____

(A) Initial Hydrostatic Mud _____ PSI

Tool Open Before I. S. I. _____ Mins.

(B) First Initial Flow Pressure _____ PSI

Initial Shut-in _____ Mins.

(C) First Final Flow Pressure _____ PSI

Flow Period _____ Mins.

(D) Initial Closed-in Pressure _____ PSI

Final Shut-in _____ Mins.

(E) Second Initial Flow Pressure _____ PSI

Surface Choke Size 1"

(F) Second Final Flow Pressure _____ PSI

Bottom Choke Size 3/4"

(G) Final Closed-in Pressure _____ PSI

Main Hole Size 7 7/8"

(H) Final Hydrostatic Mud _____ PSI

Rubber Size 6 3/4"

Temperature _____

Tool Open @ 6:45 P.M.

Mud Weight 9.3 Viscosity 42

Blow _____

Fluid Loss 15.4

Remarks Packer Failure

Interval Tested 3775-3807

Misrun.

Anchor Length 32

Top Packer Depth 3770

Bottom Packer Depth 3775

Total Depth 3807

Drill Pipe Size 4 1/2 Exh.

Wt. Pipe I. D. 2.7 Ft. Run 312

Drill Collar I. D. _____ Ft. Run _____

Recovery—Total Feet _____

Recovered _____ Feet Of _____

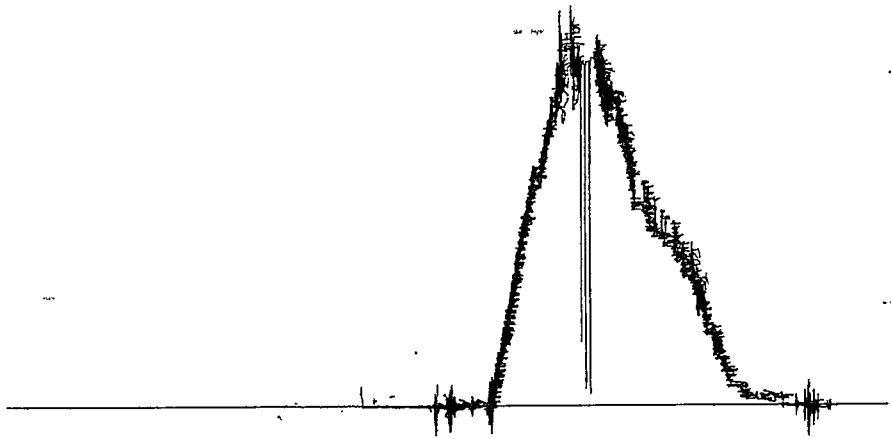
Recovered _____ Feet Of _____

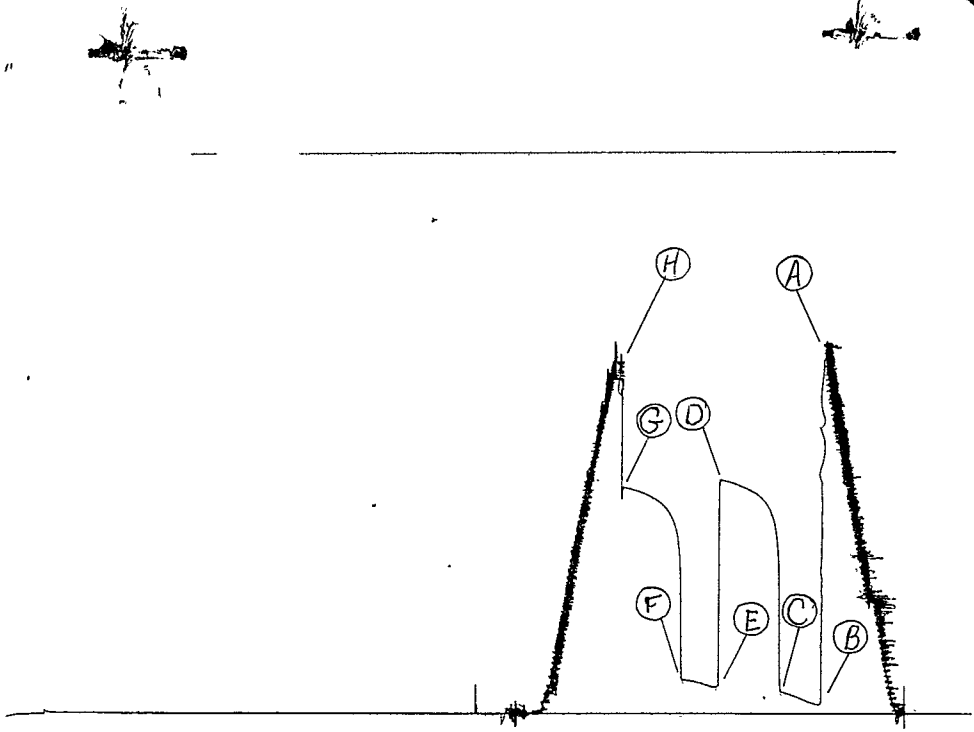
Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment None

Price of Job \$300.00





CHENEY TESTING COMPANY

Pressure Data

Date 9-23-80 Test Ticker No. 2859
 Recorder No. 7437 Capacity 4200 Location 3816 Ft.
 Clock No. 10413 Elevation 2379 K.B. Well Temperature 109 °F

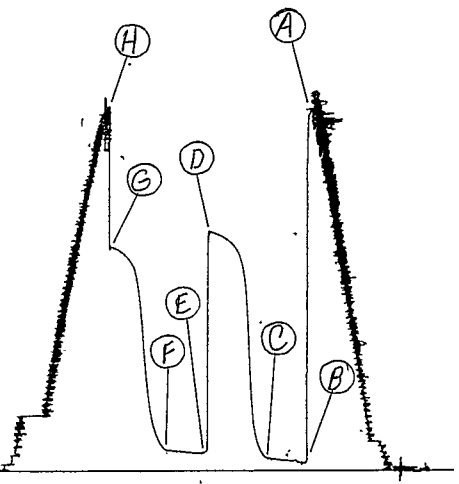
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2070</u> P.S.I.	Open Tool	<u>7:41</u> AM	
B First Initial Flow Pressure	<u>41</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>69</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1336</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>98</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>115</u> P.S.I.			
G Final Closed-in Pressure	<u>1262</u> P.S.I.			
H Final Hydrostatic Mud	<u>2060</u> P.S.I.			

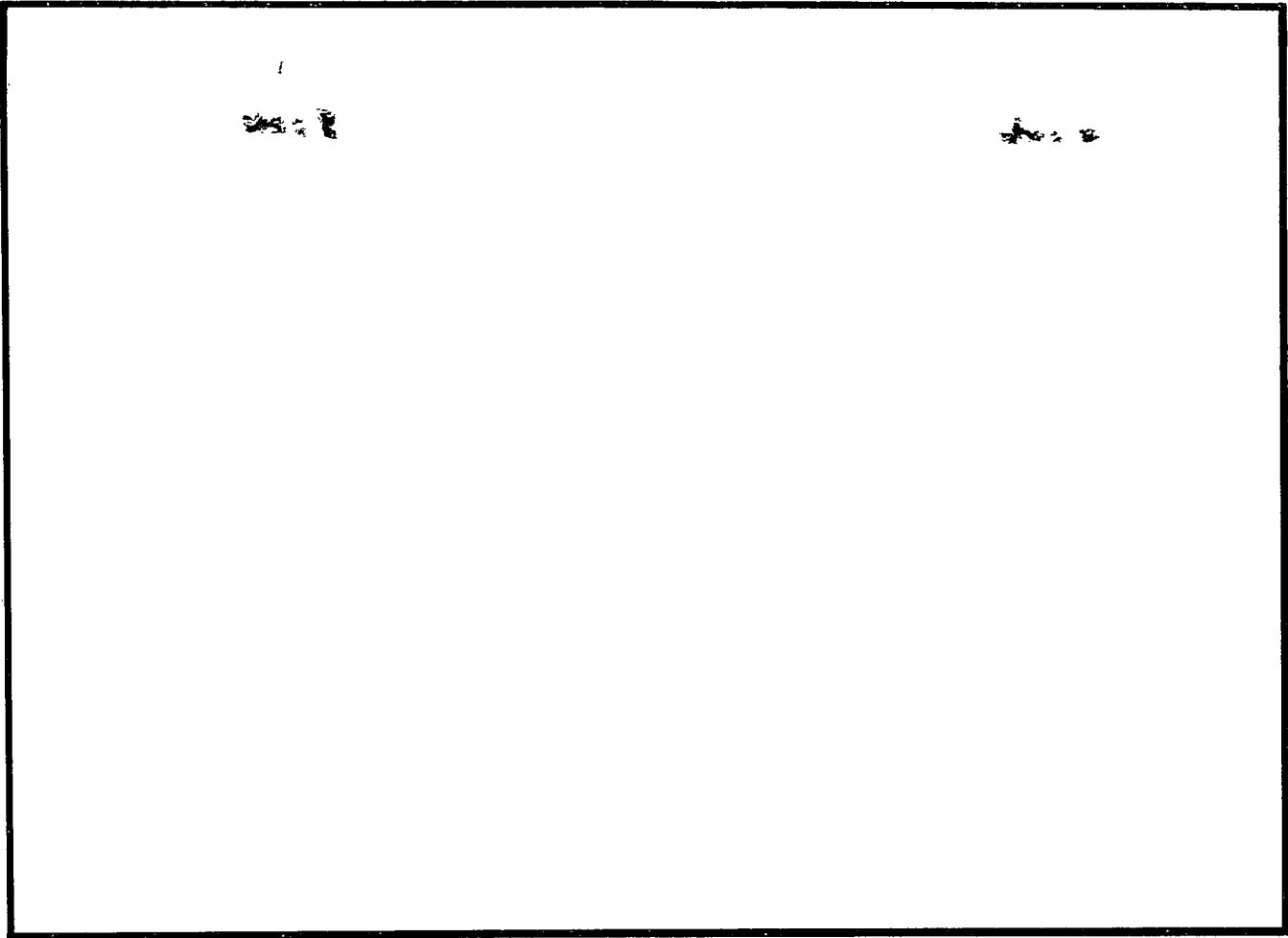
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 <u>0</u>	<u>41</u>	<u>0</u>	<u>69</u>	<u>0</u>	<u>98</u>	<u>0</u>	<u>115</u>	
P 2 <u>5</u>	<u>45</u>	<u>5</u>	<u>126</u>	<u>5</u>	<u>98</u>	<u>5</u>	<u>159</u>	
P 3 <u>10</u>	<u>54</u>	<u>10</u>	<u>283</u>	<u>10</u>	<u>102</u>	<u>10</u>	<u>257</u>	
P 4 <u>15</u>	<u>61</u>	<u>15</u>	<u>961</u>	<u>15</u>	<u>105</u>	<u>15</u>	<u>555</u>	
P 5 <u>20</u>	<u>63</u>	<u>20</u>	<u>1203</u>	<u>20</u>	<u>109</u>	<u>20</u>	<u>957</u>	
P 6 <u>25</u>	<u>65</u>	<u>25</u>	<u>1258</u>	<u>25</u>	<u>113</u>	<u>25</u>	<u>1157</u>	
P 7 <u>30</u>	<u>69</u>	<u>30</u>	<u>1294</u>	<u>30</u>	<u>115</u>	<u>30</u>	<u>1201</u>	
P 8 _____		<u>35</u>	<u>1313</u>			<u>35</u>	<u>1231</u>	
P 9 _____		<u>40</u>	<u>1327</u>			<u>40</u>	<u>1247</u>	
P10 _____		<u>45</u>	<u>1336</u>			<u>45</u>	<u>1262</u>	
P11 _____								
P12 _____								
P13 _____								
P14 _____								
P15 _____								
P16 _____								
P17 _____								
P18 _____								
P19 _____								
P20 _____								

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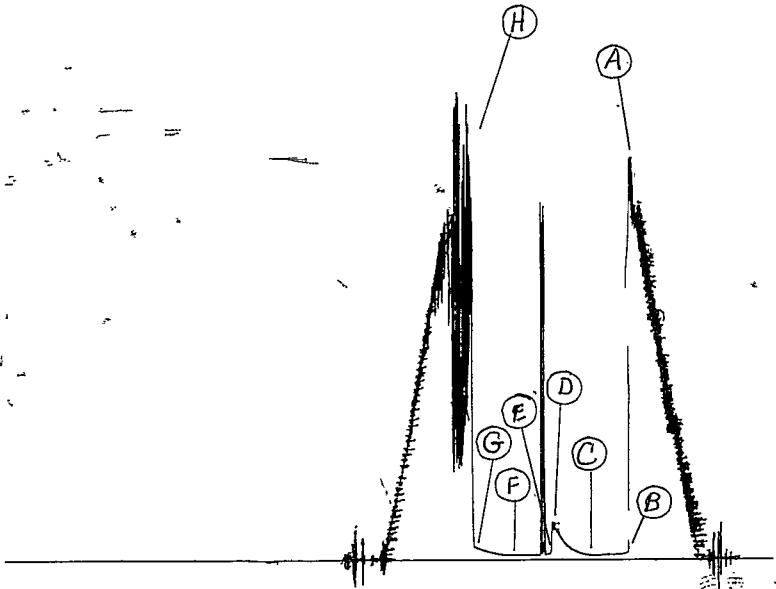
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This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2075.....	2070.....PSI
(B) First Initial Flow Pressure	43.....	41.....PSI
(C) First Final Flow Pressure	65.....	69.....PSI
(D) Initial Closed-in Pressure	1317.....	1336.....PSI
(E) Second Initial Flow Pressure	87.....	98.....PSI
(F) Second Final Flow Pressure	109.....	115.....PSI
(G) Final Closed-in Pressure	1243.....	1262.....PSI
(H) Final Hydrostatic Mud	2065.....	2060.....PSI



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DRILL-STEM TEST DATA

Company Abercrombie Drlg. Inc.	Test No. 8
Well Name & Number Keith #1	Zone Tested K.C.
Company Address Wichita, Kansas	Date 9-24-80
Comp. Rep. Dick Renard	Tester John Schmeidler
Contractor Co. Tools	Elevation
Location: Sec. 36 Twp. 7S Rge. 24W Co. Graham State KS.	Est. Feet of Pay

Recorder No. 7437 Type AK-1 Range 4200 PSI
 Recorder Depth 3706
 (A) Initial Hydrostatic Mud 2355 PSI
 (B) First Initial Flow Pressure 65 PSI
 (C) First Final Flow Pressure 119 PSI
 (D) Initial Closed-in Pressure 1019 PSI
 (E) Second Initial Flow Pressure 152 PSI
 (F) Second Final Flow Pressure 217 PSI
 (G) Final Closed-in Pressure 997 PSI
 (H) Final Hydrostatic Mud 2325 PSI
 Temperature 109
 Mud Weight 16.8 Viscosity 42
 Fluid Loss 16.8
 Interval Tested 3705-3736
 Anchor Length 21
 Top Packer Depth 3700
 Bottom Packer Depth 3705
 Total Depth 3892
 Drill Pipe Size 4 1/2 X.H.
 Wt. Pipe I. D. 2.25 Ft. Run 313
 Recovery—Total Feet 325

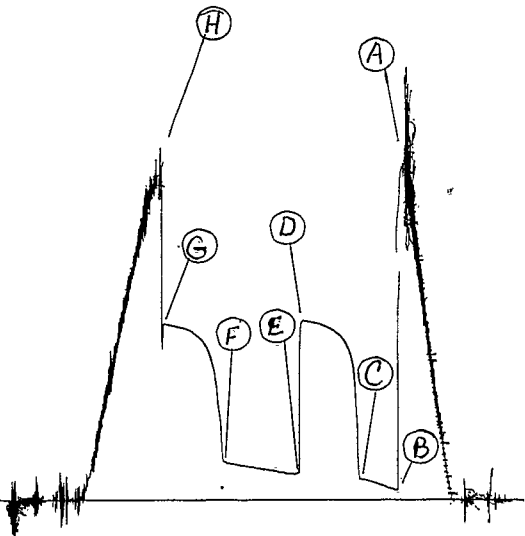
Recorder No. 10290 Type AK-1 Range 4250 PSI
 Recorder Depth 3709
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 45 Mins.
 Flow Period 60 Mins.
 Final Shut-in 45 Mins.
 Surface Choke Size 1"
 Bottom Choke Size 3/4"
 Main Hole Size 7 7/8"
 Rubber Size 6 3/4"
 Tool Open @ 12:13 P.M.

Blow Strong Increasing Blow, Weak Return
 Remarks On Shut-in.

Drill Collar I. D. _____ Ft. Run _____

Recovered 325 Feet Of Muddy Salt Water, Gasy.
 Recovered _____ Feet Of _____ DST \$600.00
 Recovered _____ Feet Of _____ Straddle Test \$250.00
 Recovered _____ Feet Of _____ Extra Packer \$125.00
 Extra Equipment _____ Price of Job \$975.00

8
10290



Straddle Test

Clock stopped but
packer held.

