

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	A. L. Abercrombie Inc.	Test No.	1
Well Name & Number	Pfeifer #2	Zone Tested	Krider
Company Address	801 Union Center	Date	7-11-76
Comp. Rep.	Bob McCann	Tester	Kenneth Cheney
Contractor	Rains & Williamson Drlg. Co.	Elevation	3141 K.B.
Location: Sec. 9	Twp. 21S Rge. 35W Co. Kerney State Kan	Est. Feet of Pay	20

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 2680

(A) Initial Hydrostatic Mud 1480 PSI

(B) First Initial Flow Pressure _____ PSI

(C) First Final Flow Pressure False PSI

(D) Initial Closed-in Pressure 462 PSI

(E) Second Initial Flow Pressure 34 PSI

(F) Second Final Flow Pressure 39 PSI

(G) Final Closed-in Pressure 248 PSI

(H) Final Hydrostatic Mud 1463 PSI

Temperature _____

Mud Weight 9.8 Viscosity 40

Fluid Loss 14+

Interval Tested _____ 2665-2685

Anchor Length _____ 20'

Top Packer Depth _____ 2660

Bottom Packer Depth _____ 2665

Total Depth _____ 2685

Drill Pipe Size _____ 4 1/2 Ex. H.

Wt. Pipe I. D. 2.7 Ft. Run 244

Recovery—Total Feet _____ 60

Recovered _____ 240 Feet Of gas in pipe.

Recovered _____ 60 Feet Of mud.

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____

Recorder No. 2836 Type Kuster Range 3550 PSI

Recorder Depth 2678

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

Initial Shut-in _____ 30 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 @ _____ 6:15 P.M.

Blow _____ weak on pre-flow

Remarks _____ weak to strong on F.F.

(Tool plugged on pre-flow)

Drill Collar I. D. _____ Ft. Run _____

Price of Job \$340.00

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED.

CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Cheney Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Cheney Testing Company, nor whether resulting from

the acts or omissions of Cheney Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Cheney Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Cheney Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

By _____
Owner, Operator or bis Agent



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1480		PSI
(B) First Initial Flow Pressure			PSI
(C) First Final Flow Pressure	False		PSI
(D) Initial Closed-in Pressure	462		PSI
(E) Second Initial Flow Pressure	34		PSI
(F) Second Final Flow Pressure	39		PSI
(G) Final Closed-in Pressure	248		PSI
(H) Final Hydrostatic Mud	1463		PSI



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Pfeiffer #2
Elevation - Formation Marathon Effective Pay - Ft. Ticket No. 22261
Date 7-16-76 Sec. 9 Twp. 21S Range 35W County Kearny State Kansas
Test Approved by Robert E. McCann Western Representative Bill Hager

Formation Test No. 2 O.K. Misrun Interval Tested From 4463' to 4490' Total Depth 4490'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4458 Ft. Size 6 3/4 Bottom Packer Depth 4463 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 27 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4478 Ft. Clock No. 4763 Depth 4481 Ft. Clock No. 9712
Top Make Kuster Cap. 4150 No. 2604 ^{Inside} _{Outside} Bottom Make Kuster Cap. 4000 No. 3660 ^{Inside} _{Outside}
Below Straddle: Depth - Rec. No. - Clock No. - ^{Inside} _{Outside} Depth - Ft. Rec. No. - Clock No. - ^{Inside} _{Outside}

Time Set Packer 3:06 P M
Tool Open I.F.P. From 3:08 P.M. to 3:38 P.M. - Hr. 30 Min. From (B) 55 P.S.I. To (C) 51 P.S.I.
Tool Closed I.C.I.P. From 3:38 P.M. to 4:08 P.M. - Hr. 30 Min (D) 1114 P.S.I.
Tool Open F.F.P. From 4:08 P.M. to 5:08 P.M. 1 Hr. - Min. From (E) 82 P.S.I. To (F) 80 P.S.I.
Tool Closed F.C.I.P. From 5:08 P.M. to 5:53 P.M. - Hr. 45 Min. (G) 1096 P.S.I.
Initial Hydrostatic Pressure (A) 2252 P.S.I. Final Hydrostatic Pressure (H) 2252 P.S.I. Maximum Temp. 118

INFORMATION

BLOW Very weak blow throughout test.
Did Well Flow - Yes No Recovery Total Ft. 150' muddy water

Reversed Out - Yes No Mud Type starch Viscosity 39 Weight 9.5 Water Loss 14.0 cc. Chlorides 26,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Rains & Williamson Length Drill Pipe? 4190 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 250 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 50 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 7-16-76

Test Ticket No. 22261

Recorder No. 2604

Capacity 4150

Location 4478 Ft.

Clock No. 4763

Elevation -

Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2252</u> P.S.I.	Open Tool	<u>3:06</u> P M	
B First Initial Flow Pressure	<u>55</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>51</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1114</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>82</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>51</u> Mins.
F Second Final Flow Pressure	<u>80</u> P.S.I.			
G Final Closed-in Pressure	<u>1096</u> P.S.I.			
H Final Hydrostatic Mud	<u>2252</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 17 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>55</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>80</u>
P 2 <u>5</u>	<u>51</u>	<u>3</u>	<u>254</u>	<u>5</u>	<u>67</u>	<u>3</u>	<u>170</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>765</u>	<u>10</u>	<u>64</u>	<u>6</u>	<u>423</u>
P 4 <u>15</u>	<u>47</u>	<u>9</u>	<u>996</u>	<u>15</u>	<u>62</u>	<u>9</u>	<u>805</u>
P 5 <u>20</u>	<u>47</u>	<u>12</u>	<u>1044</u>	<u>20</u>	<u>63</u>	<u>12</u>	<u>977</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>1065</u>	<u>25</u>	<u>64</u>	<u>15</u>	<u>1013</u>
P 7 <u>30</u>	<u>51</u>	<u>18</u>	<u>1079</u>	<u>30</u>	<u>66</u>	<u>18</u>	<u>1031</u>
P 8		<u>21</u>	<u>1088</u>	<u>35</u>	<u>68</u>	<u>21</u>	<u>1046</u>
P 9		<u>24</u>	<u>1098</u>	<u>40</u>	<u>71</u>	<u>24</u>	<u>1056</u>
P10		<u>27</u>	<u>1104</u>	<u>45</u>	<u>74</u>	<u>27</u>	<u>1065</u>
P11		<u>30</u>	<u>1109</u>	<u>50</u>	<u>75</u>	<u>30</u>	<u>1070</u>
P12		<u>33</u>	<u>1114</u>	<u>55</u>	<u>77</u>	<u>33</u>	<u>1077</u>
P13				<u>60</u>	<u>80</u>	<u>36</u>	<u>1081</u>
P14						<u>39</u>	<u>1085</u>
P15						<u>42</u>	<u>1089</u>
P16						<u>45</u>	<u>1092</u>
P17						<u>48</u>	<u>1094</u>
P18						<u>51</u>	<u>1096</u>
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2253	2252	PSI
(B) First Initial Flow Pressure	31	55	PSI
(C) First Final Flow Pressure	42	51	PSI
(D) Initial Closed-in Pressure	1108	1114	PSI
(E) Second Initial Flow Pressure	53	82	PSI
(F) Second Final Flow Pressure	74	80	PSI
(G) Final Closed-in Pressure	1077	1096	PSI
(H) Final Hydrostatic Mud	2253	2252	PSI



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P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Pfeiffer #2
Elevation - Formation Marathon Effective Pay - Ft. Ticket No. 22262
Date 7-17-76 Sec. 9 Twp. 21S Range 35W County Kearny State Kansas
Test Approved by Robert E. McCann Western Representative Bill Hager

Formation Test No. 3 O.K. Misrun Interval Tested From 4539' to 4565' Total Depth 4565'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4534 Ft. Size 6 3/4 Bottom Packer Depth 4539 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 26 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4553 Ft. Clock No. 4763 Depth 4556 Ft. Clock No. 9712
Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 12:03P M
Tool Open I.F.P. From 12:05 PM. to 12:35PM. - Hr. 30 Min. From (B) 34 P.S.I. To (C) 21 P.S.I.
Tool Closed I.C.I.P. From 12:35M. to 1:05 PM. - Hr. 30 Min (D) 1033 P.S.I.
Tool Open F.F.P. From 1:05 PM. to 1:35 PM. - Hr. 30 Min. From (E) 55 P.S.I. To (F) 29 P.S.I.
Tool Closed F.C.I.P. From 1:35M. to 2:05PM. - Hr. 30 Min. (G) 984 P.S.I.
Initial Hydrostatic Pressure (A) 2192 P.S.I. Final Hydrostatic Pressure (H) 2200 P.S.I. Maximum Temp. 114

INFORMATION

BLOW Very weak blow, died in 10 minutes. By-pass tool in 2nd opening.

Did Well Flow Yes No Recovery Total Ft. 30' drilling mud with few oil spots.

Reversed Out Yes No Mud Type starch Viscosity 44 Weight 9.3 Water Loss 14.0 cc. Chlorides 24,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Rains & Williamson Length Drill Pipe? 4266 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe 250 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 49 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 7-17-76 Test Ticket No. 22262
 Recorder No. 2604 Capacity 4150 Location 4553 Ft.
 Clock No. 4763 Elevation - Well Temperature 114 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	2192	P.S.I.	Open Tool	12:03 P.M.	
B First Initial Flow Pressure	34	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	21	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1033	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	55	P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	29	P.S.I.			
G Final Closed-in Pressure	984	P.S.I.			
H Final Hydrostatic Mud	2200	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>34</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>29</u>
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>53</u>	<u>5</u>	<u>43</u>	<u>3</u>	<u>43</u>
P 3 <u>10</u>	<u>21</u>	<u>6</u>	<u>198</u>	<u>10</u>	<u>32</u>	<u>6</u>	<u>130</u>
P 4 <u>15</u>	<u>19</u>	<u>9</u>	<u>406</u>	<u>15</u>	<u>29</u>	<u>9</u>	<u>310</u>
P 5 <u>20</u>	<u>19</u>	<u>12</u>	<u>607</u>	<u>20</u>	<u>29</u>	<u>12</u>	<u>502</u>
P 6 <u>25</u>	<u>20</u>	<u>15</u>	<u>753</u>	<u>25</u>	<u>30</u>	<u>15</u>	<u>654</u>
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>853</u>	<u>30</u>	<u>29</u>	<u>18</u>	<u>765</u>
P 8 _____	_____	<u>21</u>	<u>917</u>	_____	_____	<u>21</u>	<u>843</u>
P 9 _____	_____	<u>24</u>	<u>964</u>	_____	_____	<u>24</u>	<u>893</u>
P10 _____	_____	<u>27</u>	<u>1003</u>	_____	_____	<u>27</u>	<u>937</u>
P11 _____	_____	<u>30</u>	<u>1033</u>	_____	_____	<u>30</u>	<u>969</u>
P12 _____	_____	_____	_____	_____	_____	<u>33</u>	<u>984</u>
P13 _____	_____	_____	_____	_____	_____	_____	_____
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	2179	2192	PSI
(B) First Initial Flow Pressure	21	34	PSI
(C) First Final Flow Pressure	21	21	PSI
(D) Initial Closed-in Pressure	1014	1033	PSI
(E) Second Initial Flow Pressure	21	55	PSI
(F) Second Final Flow Pressure	21	29	PSI
(G) Final Closed-in Pressure	972	984	PSI
(H) Final Hydrostatic Mud	2179	2200	PSI



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Company Abercrombie Drilling, Inc. Lease & Well No. Pfeiffer #2
Elevation - Formation - Effective Pay - Ft. Ticket No. 22263
Date 7-18-76 Sec. 9 Twp. 21S Range 35W County Kearny State Kansas
Test Approved by Robert E. McCann Western Representative Bill Hager

Formation Test No. 4 O.K. Misrun Interval Tested From 4569' to 4595' Total Depth 4595'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4564 Ft. Size 6 3/4 Bottom Packer Depth 4569 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 26 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4583 Ft. Clock No. 4763 Depth 4586 Ft. Clock No. 9712
Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 2:25 M
Tool Open I.F.P. From 2:27 M. to 2:57 M. - Hr. 30 Min. From (B) 47 P.S.I. To (C) 29 P.S.I.
Tool Closed I.C.I.P. From 2:57 M. to 3:27 M. - Hr. 30 Min (D) 49 P.S.I.
Tool Open F.F.P. From 3:27 M. to 3:57 M. - Hr. 30 Min. From (E) 49 P.S.I. To (F) 29 P.S.I.
Tool Closed F.C.I.P. From 3:57 M. to 4:27 M. - Hr. 30 Min. (G) 36 P.S.I.
Initial Hydrostatic Pressure (A) 2276 P.S.I. Final Hydrostatic Pressure (H) 2263 P.S.I. Maximum Temp. 114

INFORMATION

BLOW Very weak blow, died in 12 minutes.

Did Well Flow - Yes No Recovery Total Ft. 10' drilling mud.

Reversed Out - Yes No Mud Type starch Viscosity 44 Weight 9.3 Water Loss 14.0 cc. Chlorides 24,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Rains & Williamson Length Drill Pipe? 4296 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 250 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 49 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 7-18-76 Test Ticket No. 22263
 Recorder No. 2604 Capacity 4150 Location 4583 Ft.
 Block No. 4763 Elevation - Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	<u>2276</u>	P.S.I.	<u>2:25</u>	<u>M</u>
First Initial Flow Pressure	<u>47</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
First Final Flow Pressure	<u>29</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
Initial Closed-in Pressure	<u>49</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
Second Initial Flow Pressure	<u>49</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
Second Final Flow Pressure	<u>29</u>	P.S.I.	<u>30</u>	<u>35</u> Mins.
Final Closed-in Pressure	<u>36</u>	P.S.I.		
Final Hydrostatic Mud	<u>2263</u>	P.S.I.		

PRESSURE BREAKDOWN

Point ins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
0	<u>6</u>	<u>Inc.</u>	<u>10</u>	<u>Inc.</u>	<u>6</u>	<u>Inc.</u>	<u>11</u>	<u>Inc.</u>
	<u>5</u>	<u>mins.</u>	<u>3</u>	<u>mins.</u>	<u>5</u>	<u>mins.</u>	<u>3</u>	<u>mins.</u>
	<u>0</u>	<u>Min.</u>	<u>0</u>	<u>Min.</u>	<u>0</u>	<u>Min.</u>	<u>2</u>	<u>Min.</u>
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
1	<u>47</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>29</u>	<u>0</u>
2	<u>36</u>	<u>3</u>	<u>29</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>29</u>	<u>3</u>
3	<u>31</u>	<u>6</u>	<u>30</u>	<u>10</u>	<u>31</u>	<u>6</u>	<u>29</u>	<u>6</u>
4	<u>30</u>	<u>9</u>	<u>31</u>	<u>15</u>	<u>30</u>	<u>9</u>	<u>29</u>	<u>9</u>
5	<u>30</u>	<u>12</u>	<u>33</u>	<u>20</u>	<u>30</u>	<u>12</u>	<u>30</u>	<u>12</u>
6	<u>29</u>	<u>15</u>	<u>36</u>	<u>25</u>	<u>29</u>	<u>15</u>	<u>31</u>	<u>15</u>
7	<u>29</u>	<u>18</u>	<u>38</u>	<u>30</u>	<u>29</u>	<u>18</u>	<u>32</u>	<u>18</u>
8		<u>21</u>	<u>40</u>			<u>21</u>	<u>33</u>	<u>21</u>
9		<u>24</u>	<u>42</u>			<u>24</u>	<u>34</u>	<u>24</u>
0		<u>27</u>	<u>44</u>			<u>27</u>	<u>35</u>	<u>27</u>
1		<u>30</u>	<u>49</u>			<u>30</u>	<u>36</u>	<u>30</u>
2						<u>33</u>	<u>37</u>	
3						<u>35</u>	<u>36</u>	
4								
5								
6								
7								
8								
9								
0								



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2177	2276	PSI
(B) First Initial Flow Pressure	31	47	PSI
(C) First Final Flow Pressure	31	29	PSI
(D) Initial Closed-in Pressure	53	49	PSI
(E) Second Initial Flow Pressure	31	49	PSI
(F) Second Final Flow Pressure	31	29	PSI
(G) Final Closed-in Pressure	42	36	PSI
(H) Final Hydrostatic Mud	2177	2263	PSI

DATE 7-21-76
 SEC. 9 TWN 21 RG 35
 LEGAL DESCRIPTION C/S E/S W



TICKET N^o 14790
 TEST NO. 5

COMPANY Abercrombie Drilg. Inc.
 ADDRESS 801 Union Center Wichita, Kans. 67202
 LEASE PREIFER WELL NO. 2 COUNTY kerney STATE Kans.
 INVOICES SENT TO: Same
 DST COPIES SENT TO: " "

GENERAL INFORMATION
 TOOL JT. 4 1/2 XH 42FH HOLE SIZE 7 7/8 PACKER O.D. 6 3/4
 ELEV. _____ TOTAL DEPTH 5010
 TESTED FROM 4844 TO 4880
 ANCHOR LENGTH BELOW 126ft. BETWEEN 76ft.
 TOOL OPEN 1ST FLOW _____ A.M. 3:00 P.M. _____
 TOOL CLOSED INITIAL SHUT-IN _____ A.M. _____ P.M. _____
 TOOL OPEN 2ND FLOW _____ A.M. _____ P.M. _____
 TOOL CLOSED FINAL SHUT-IN _____ A.M. _____ P.M. _____
 MUD WT. 9.5 VISCOSITY 49 W.L. 8.4 C.C. _____
 SP. GRAVITY OIL _____ BOTTOM HOLE TEMPERATURE _____
 LENGTH DRILL COLLAR 440ft I.D. 2.25
 LENGTH WEIGHT PIPE 245' I.D. 2.76
 SUCCESSFUL TEST NO. _____ MISRUN NO. 1
 CHOKES: TOP 1/2 BOTTOM 1/2

PRESSURE DATA & TIME	
FIELD READINGS	CORRECTED READINGS
INITIAL HYDROSTATIC	_____
INITIAL 1ST FLOW	_____
FINAL 1ST FLOW	_____
INITIAL SHUT-IN	_____
INITIAL 2ND FLOW	_____
FINAL 2ND FLOW	_____
FINAL SHUT-IN	_____
FINAL HYDROSTATIC	_____
TOOL OPEN: 1ST FLOW	_____ HR. _____ MIN.
INITIAL SHUT-IN	_____ HR. _____ MIN.
2ND FLOW	_____ HR. _____ MIN.
FINAL SHUT-IN	_____ HR. _____ MIN.
TOP RECORDER NO. <u>4339</u>	BOTTOM RECORDER NO. <u>4332</u>

TYPE BLOW Packer failure
 RECOVERY: 150ft. Drilling mud
TOP JACKER FAILED TO HOLD.

EXTRA EQUIPMENT _____
 APPROVED BY: Robert E. McDem
 TESTER: Joe Zell
 FORMATION TESTED None
 OPERATOR TIME: _____

MILLER TESTING COMPANY
 SHALL NOT BE LIABLE FOR ANY DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST WAS MADE.

CHARGES

TEST CHARGE	\$ _____
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ <u>30.00</u>
HOOK WALL	\$ _____
MISRUN CHARGE	\$ <u>130.00</u>
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
STRADDLE	\$ <u>125.00</u>
TOTAL	\$ <u>285.00</u>

Packer failure

DATE 7-21-76

SEC. 9 TWN 21 RG 35

LEGAL DESCRIPTION C/SE/SW



TICKET N^o 14791

TEST NO. 6

COMPANY Abercrombie Drilling, Inc.
ADDRESS 801 Union Center Wichita, Kans. 67202
LEASE BEELER WELL NO. 2 COUNTY Kerney STATE Kans
INVOICES SENT TO: Same
DST COPIES SENT TO: (11)

GENERAL INFORMATION			
TOOL JT. <u>4 1/2 XH</u>	HOLE SIZE <u>7 7/8</u>	PACKER O.D. <u>6 3/4</u>	
ELEV. _____	TOTAL DEPTH <u>5010</u>		
TESTED FROM <u>4767</u>	TO <u>4899</u>		
ANCHOR LENGTH BELOW <u>127ft.</u>	BETWEEN <u>1124ft.</u>		
TOOL OPEN 1ST FLOW _____	A.M. <u>8:00</u>	P.M. _____	
TOOL CLOSED INITIAL SHUT-IN _____	A.M. <u>8:30</u>	P.M. _____	
TOOL OPEN 2ND FLOW _____	A.M. <u>9:00</u>	P.M. _____	
TOOL CLOSED FINAL SHUT-IN _____	A.M. <u>9:45</u>	P.M. _____	
MUD WT. <u>9.5</u>	VISCOSITY <u>49</u>	W.L. <u>8.4</u>	C.C. _____
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE <u>120°</u>		
LENGTH DRILL COLLAR <u>440ft.</u>	I.D. <u>2.25</u>		
LENGTH WEIGHT PIPE <u>245ft.</u>	I.D. <u>2.76</u>		
SUCCESSFUL TEST NO. <u>1</u>	MISRUN NO. _____		
CHOKES: TOP <u>1/2</u>	BOTTOM <u>1/2</u>		

PRESSURE DATA & TIME		
	FIELD READINGS	CORRECTED READINGS
INITIAL HYDROSTATIC	<u>2558</u>	<u>2488</u>
INITIAL 1ST FLOW	<u>92</u>	<u>46</u>
FINAL 1ST FLOW	<u>507</u>	<u>438</u>
INITIAL SHUT-IN	<u>1175</u>	<u>1186</u>
INITIAL 2ND FLOW	<u>507</u>	<u>529</u>
FINAL 2ND FLOW	<u>797</u>	<u>797</u>
FINAL SHUT-IN	<u>False Reading</u>	<u>LEAKED</u>
FINAL HYDROSTATIC	<u>2538</u>	<u>2547</u>
TOOL OPEN: 1ST FLOW _____	HR. _____	<u>30</u> MIN.
INITIAL SHUT-IN _____	HR. _____	<u>30</u> MIN.
2ND FLOW _____	HR. _____	<u>45</u> MIN.
FINAL SHUT-IN _____	HR. _____	<u>45</u> MIN.
TOP RECORDER NO. <u>4339</u>	BOTTOM RECORDER NO. <u>4332</u>	

TYPE BLOW Weak to good strong blow throughout test

RECOVERY: 1440 ft. Salt water

Shut-in Tool LEAKED ON FINAL BHP.

EXTRA EQUIPMENT _____
APPROVED BY: Robert E. McClann
TESTER: Gene Bell
FORMATION TESTED: Miss
OPERATOR TIME: _____

MILLER TESTING COMPANY
SHALL NOT BE LIABLE FOR ANY DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE. OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST WAS MADE.

CHARGES	
TEST CHARGE	\$ <u>405.00</u>
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ <u>30.00</u>
HOOK WALL	\$ _____
MISRUN CHARGE	\$ _____
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
STRADDLE	\$ <u>125.00</u>
TOTAL	\$ <u>560.00</u>

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company ABERCROMBIE DRILLING, INC.

Lease and Well No. PFEIFER #2

County KERNEY State KANSAS Date JULY 21, 1976

Formation Test No. 6 Total Depth 5010 Elev. _____

Interval Tested 4767 To 4879 Anchor Length BETWEEN 112' & BELOW 127'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 X.H. F.H. Size Packer 6 3/4

Mud Weight 9.5 Viscosity 49 Water Loss 8.4 c.c. Bottom Hole Temp. 128 of

Chokes: Top 1/2 Bottom 1/2 Ticket No. 14791

Length of Drill Collar 440' I. D. 2.25 Length Flexweight 245' I. D. 2.76

RECOVERY

WEAK TO GOOD STRONG BLOW THROUGHOUT TEST.

1440 FEET OF SALT WATER.

SHUT-IN TOOL LEAKED ON FINAL BHP.

Lease and Well No. PFEIFER #2

9-21S-35W

C-SE-SW

Formation Test No. 6

6



Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 45 min: Shut-in Final hr. 45

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2558</u>	<u>2688</u>
(B) Initial 1st Flow Pressure	<u>92</u>	<u>46</u>
(C) Final 1st Flow Pressure	<u>507</u>	<u>438</u>
(D) Initial Shut-in Pressure	<u>1175</u>	<u>1186</u>
(E) Initial 2nd Flow Pressure	<u>507</u>	<u>529</u>
(F) Final 2nd Flow Pressure	<u>797</u>	<u>797</u>
(G) Final Shut-in Pressure	<u>FALSE</u>	<u>FALSE</u>
(H) Final Hydrostatic Pressure	<u>2538</u>	<u>2547</u>

14791