



Home Office: Great Bend, Kansas  
 P. O. Box 793 Gladstone 3-7903

Company Abercrombie Drilling Co., Inc. Lease & Well No. Fitzhugh #1  
 Elevation 2083 Kelly Bushings Formation K. C. Ticket Number 8366  
 Date Sept. 27, 1965 Sec. 13 Twp. 5 Range 22 County Norton State Kansas  
 Test Approved by Jack K. Wharton Western Representative Gerrell Veatch

Formation Test No. 1 O.K.  Misrun  Interval Tested From 3240' to 3265' Total Depth 3265'  
 Size Main Hole 6 3/4 Cat Hole  Conv.  B.T.  Damaged Yes  No  Conv.  B.T.  Damaged Yes  No   
 Top Packer Depth 3236 Ft. Size 5 1/2 Packer Depth 3240 Ft. Size 5 1/2  
 Straddle Yes  No  Conv.  B.T.  Damaged Yes  No

Tool Size 4 1/2 OD Tool Jt. Size 3 1/2 IF Anchor Length 25 Ft. Size 4 1/2 OD

RECORDERS Depth 3243 Ft. Clock No. 6875 Depth 3246 Ft. Clock No. 104  
 Top Make Kuster Cap. 4300 No. 1566 ~~6875~~ Inside Western Cap. 4000 No. 26 ~~104~~ Outside  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Outside \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Inside  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside

Time Set Packer \_\_\_\_\_ M  
 Tool Open I.F.P. From 5:40A M to 5:47A M Hr. 7 Min. From (B) 12 P.S.I. To (C) 12 P.S.I.  
 Tool Closed I.C.I.P. From 5:47A M. to 6:17 M. Hr. 30 Min. (D) 473 P.S.I.  
 Tool Open F.F.P. From 6:17A M. to 7:17A M. 1 Hr. Min. From (E) 23 P.S.I. To (F) 23 P.S.I.  
 Tool Closed F.C.I.P. From 7:17 M. to 7:47 M. Hr. 30 Min. (G) 38 P.S.I.  
 Initial Hydrostatic Pressure (A) 1756 P.S.I. Final Hydrostatic Pressure (H) 1742 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
 INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_

BLOW Very weak for seven minutes. Bottom Choke Size 3/4 In.  
 Did Well Flow Yes  No  Recovery Total Ft. 5' mud

Reversed Out Yes  No  Mud Type chem. Viscosity 40 Weight 10.2 Maximum Temp. 100 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 2350 ft. I.D. Drill Pipe 2.5 in Length Weight Pipe 810 ft. I.D. Weight Pipe 2.5 in Length Drill Collars 60 ft.  
 I. D. Drill Collars 2.5 in Length D.S.T. Tool 45 ft.

Remarks \_\_\_\_\_

B-35-220

**WESTERN TESTING CO., INC.**

**Pressure Data -**

Date September 27, 1965

Test Ticket No. 8366

Recorder No. 1566 Capacity 4300 Location 3243 Ft.

Clock No. 6875 Elevation \_\_\_\_\_ Well Temperature 100 °F

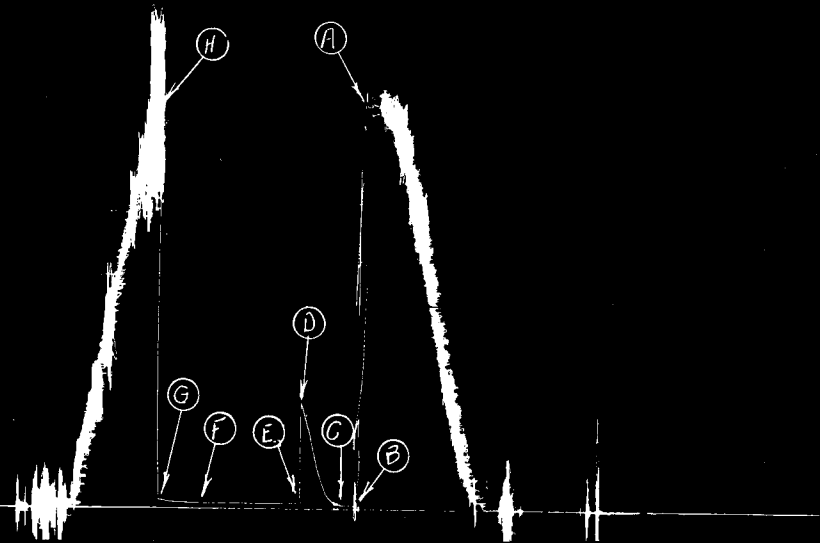
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1756</u> P.S.I.	Opened Tool	<u>5:38 A.M.</u>	
B First Initial Flow Pressure	<u>12</u> P.S.I.	First Flow Pressure	<u>7</u> Mins.	<u>7</u> Mins.
C First Final Flow Pressure	<u>12</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>24</u> Mins.
D Initial Closed-in Pressure	<u>473</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>56</u> Mins.
E Second Initial Flow Pressure	<u>23</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>23</u> P.S.I.			
G Final Closed-in Pressure	<u>38</u> P.S.I.			
H Final Hydrostatic Mud	<u>1742</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>2</u> Min.	Breakdown: <u>8</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>11</u> Inc. of <u>5</u> mins. and a final inc. of <u>1</u> Min.	Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> <u>12</u>	<u>0</u> <u>12</u>	<u>0</u> <u>23</u>	<u>0</u> <u>23</u>	<u>0</u> <u>23</u>	<u>0</u> <u>23</u>	
P 2	<u>5</u> <u>12</u>	<u>3</u> <u>21</u>	<u>5</u> <u>23</u>	<u>3</u> <u>23</u>	<u>3</u> <u>23</u>	<u>3</u> <u>23</u>	
P 3	<u>7</u> <u>12</u>	<u>6</u> <u>43</u>	<u>10</u> <u>23</u>	<u>6</u> <u>24</u>	<u>6</u> <u>24</u>	<u>6</u> <u>24</u>	
P 4		<u>9</u> <u>75</u>	<u>15</u> <u>23</u>	<u>9</u> <u>26</u>	<u>9</u> <u>26</u>	<u>9</u> <u>26</u>	
P 5		<u>12</u> <u>140</u>	<u>20</u> <u>23</u>	<u>12</u> <u>28</u>	<u>12</u> <u>28</u>	<u>12</u> <u>28</u>	
P 6		<u>15</u> <u>218</u>	<u>25</u> <u>23</u>	<u>15</u> <u>30</u>	<u>15</u> <u>30</u>	<u>15</u> <u>30</u>	
P 7		<u>18</u> <u>322</u>	<u>30</u> <u>23</u>	<u>18</u> <u>32</u>	<u>18</u> <u>32</u>	<u>18</u> <u>32</u>	
P 8		<u>21</u> <u>406</u>	<u>35</u> <u>23</u>	<u>21</u> <u>33</u>	<u>21</u> <u>33</u>	<u>21</u> <u>33</u>	
P 9		<u>24</u> <u>473</u>	<u>40</u> <u>23</u>	<u>24</u> <u>36</u>	<u>24</u> <u>36</u>	<u>24</u> <u>36</u>	
P10			<u>45</u> <u>23</u>	<u>27</u> <u>38</u>	<u>27</u> <u>38</u>	<u>27</u> <u>38</u>	
P11			<u>50</u> <u>23</u>				
P12			<u>55</u> <u>23</u>				
P13			<u>56</u> <u>23</u>				
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Abercrombie Drlg. Inc.  
Fitzhugh # 1

TEST\*1  
TKT\*8366



THT# 8366



Home Office: Great Bend, Kansas  
 P. O. Box 793 Gladstone 3-7903

Company Abercrombie Drilling Co., Inc. Lease & Well No. Fitzhugh #1  
 Elevation 2083 Kelly Bushings Formation ? & Regan Sand Ticket Number 8369  
 Date Sept. 30, 1965 Sec. 13 Twp. 5s Range 22w County Norton State Kansas  
 Test Approved by Jack K. Wharton Western Representative Gerrell Veatch

Formation Test No. 4 O.K.  Misrun  Interval Tested From 3436' to 3506' Total Depth 3506'  
 Size Main Hole 6 3/4 Rat Hole  Conv.  B.T.  Damaged  Yes  No  Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 3432 Ft. Size 5 1/2 Packer Depth 3436 Ft. Size 5 1/2  
 Straddle  Yes  No  Conv.  B.T.  Damaged  Yes  No

Packer Depth 3432 Ft. Size 5 1/2  
 Tool Size 4 1/2 OD Tool Jt. Size 3 1/2 IF Anchor Length 70 Ft. Size 4 1/2 OD 1 jt. D.P.

RECORDERS Depth 3439 Ft. Clock No. 6875 Depth 3442 Ft. Clock No. 104  
 Top Make Kuster Cap. 4300 No. 1566 ~~Inside~~ Outside Bottom Make Western Cap. 4000 No. 26 ~~Inside~~ Outside  
 Below Straddle: Depth          Clock No.                                                                          
 Top Make          Cap.          No.                                                                        

Time Set Packer 3:58 A M  
 Tool Open I.F.P. From 4:02A M to 4:08A M Hr. 6 Min. From (B) 32 P.S.I. To (C) 36 P.S.I.  
 Tool Closed I.C.I.P. From 4:08A M. to 4:38 M. Hr. 30 Min. (D) 1164 P.S.I.  
 Tool Open F.F.P. From 4:38A M. to 5:38 M. 1 Hr. Min. From (E) 86 P.S.I. To (F) 207 P.S.I.  
 Tool Closed F.C.I.P. From 5:38 M. to 6:08 M. Hr. 30 Min. (G) 1059 P.S.I.  
 Initial Hydrostatic Pressure (A) 1908 P.S.I. Final Hydrostatic Pressure (H) 1893 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I.          Time          Description of Flow           
 INFORMATION          M.           
         M.           
         M.         

BLOW Good through out test. Bottom Choke Size          In.  
 Did Well Flow  Yes  No Recovery Total Ft. 180' mud; 240' muddy water

Reversed Out  Yes  No Mud Type chem. Viscosity 42 Weight 10.5 Maximum Temp. 103 °F

EXTRA EQUIPMENT: Dual Packers  Safety Joint  Jars: Size          Make          Ser. No.           
 Type Circ. Sub. plug Did Tool Plug?  Where?          Did Packer Hold?   
 Length Drill Pipe 2546 ft. I.D. Drill Pipe 2.5 in Length Weight Pipe 810 ft. I.D. Weight Pipe 2.5 in. Length Drill Collars 60 ft.  
 I. D. Drill Collars 2.5 in. Length D.S.T. Tool 90 ft.

Remarks

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date September 30, 1965 Test Ticket No. 8369  
 Recorder No. 1566 Capacity 4300 Location 3439 Ft.  
 Clock No. 6875 Elevation 2083 Kelly Bushings Well Temperature 103 °F

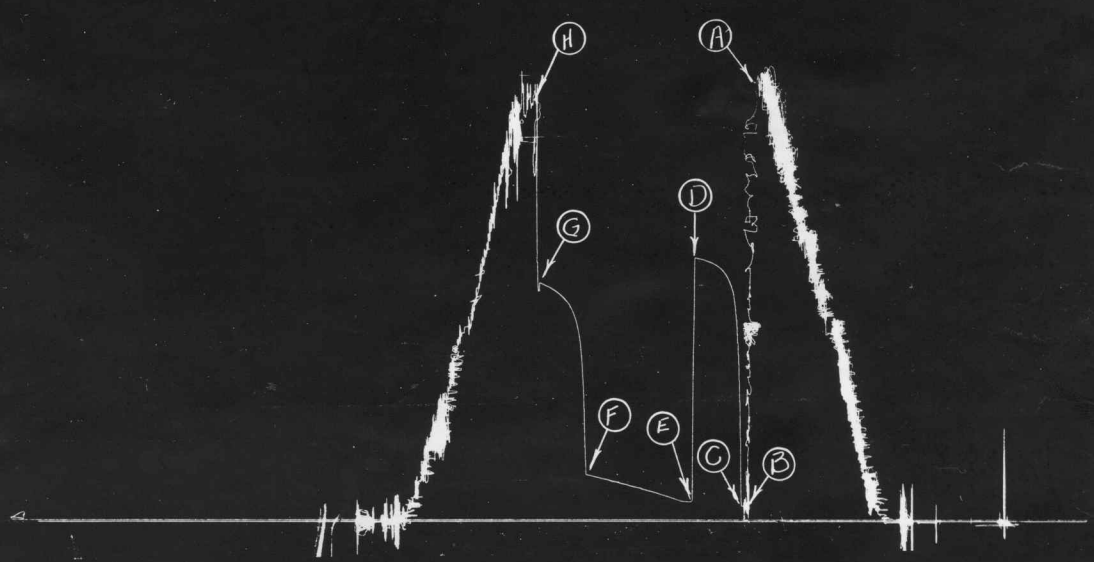
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1908</u> P.S.I.	Opened Tool	<u>3:58A</u> M	
B First Initial Flow Pressure	<u>32</u> P.S.I.	First Flow Pressure	<u>6</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>36</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1164</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>62</u> Mins.
E Second Initial Flow Pressure	<u>86</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>207</u> P.S.I.			
G Final Closed-in Pressure	<u>1059</u> P.S.I.			
H Final Hydrostatic Mud	<u>1893</u> P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>1</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>9</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>2</u> Min.		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>32</u>	<u>0</u> <u>36</u>	<u>0</u> <u>86</u>	<u>0</u> <u>207</u>			
P 2	<u>5</u> <u>36</u>	<u>3</u> <u>909</u>	<u>5</u> <u>87</u>	<u>3</u> <u>793</u>			
P 3		<u>6</u> <u>1040</u>	<u>10</u> <u>97</u>	<u>6</u> <u>903</u>			
P 4		<u>9</u> <u>1094</u>	<u>15</u> <u>110</u>	<u>9</u> <u>961</u>			
P 5		<u>12</u> <u>1121</u>	<u>20</u> <u>125</u>	<u>12</u> <u>989</u>			
P 6		<u>15</u> <u>1136</u>	<u>25</u> <u>136</u>	<u>15</u> <u>1008</u>			
P 7		<u>18</u> <u>1147</u>	<u>30</u> <u>146</u>	<u>18</u> <u>1027</u>			
P 8		<u>21</u> <u>1156</u>	<u>35</u> <u>157</u>	<u>21</u> <u>1038</u>			
P 9		<u>24</u> <u>1160</u>	<u>40</u> <u>164</u>	<u>24</u> <u>1049</u>			
P10		<u>27</u> <u>1164</u>	<u>45</u> <u>177</u>	<u>27</u> <u>1059</u>			
P11			<u>50</u> <u>185</u>				
P12			<u>55</u> <u>194</u>				
P13			<u>60</u> <u>203</u>				
P14			<u>62</u> <u>207</u>				
P15							
P16							
P17							
P18							
P19							
P20							

*Abercrombie Drllg. Inc.  
 Fitzhugh #1*

*Test # 4  
 THT # 8369*



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud .....	1908 ..... PSI
(B) First Initial Flow Pressure .....	32 ..... PSI
(C) First Final Flow Pressure .....	36 ..... PSI
(D) Initial Closed-in Pressure .....	1164 ..... PSI
(E) Second Initial Flow Pressure .....	86 ..... PSI
(F) Second Final Flow Pressure .....	207 ..... PSI
(G) Final Closed-in Pressure .....	1059 ..... PSI
(H) Final Hydrostatic Mud .....	1893 ..... PSI