

15-75-25w



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Abercrombie Drilling Co., Inc. Lease & Well No. Barnett A-1

Elevation 2544 Derrick Floor Formation Kansas City Effective Pay _____ Ft. Ticker No. 10196

Date 6-8-68 Sec. 15 Twp. 7s Range 25w County Graham State Kansas

Test Approved by Jack K. Wharton Western Representative Kenneth Cheney

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 3789' to 3820' Total Depth 3820'

Size Main Hole 6 1/4 at Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No

Top Packer Depth 3785 Ft. Size 5 1/2" Packer Depth 3789 Ft. Size 5 1/2"

Straddle _____ Yes _____ No Conv. _____ B.T. _____ Damaged _____ Yes _____ No

Packer Depth _____ Ft. Size _____

Tool Size 4 1/2" OD Tool Jt. Size 3 1/2" IF-4" FH Anchor Length 31 Ft. Size 4 1/2" OD

RECORDERS Depth 3810 Ft. Clock No. 6860 Depth 3812 Ft. Clock No. 8378

Top Make Kuster Cap. 4150 No. 2608 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 1558 ~~Inside~~ Outside

Below Straddle: Depth _____ Clock No. _____ Inside Depth _____ Ft. Clock No. _____ Outside

Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Outside

Time Set Packer 2:48 A. M

Tool Open I.F.P. From 2:50A. M. to 3:05A. M. Hr. 15 Min. From (B) 21 P.S.I. To (C) 29 P.S.I.

Tool Closed I.C.I.P. From 3:05A.M. to 3:35A. M. Hr. 30 Min. (D) 1194 P.S.I.

Tool Open F.F.P. From 3:35A. M. to 4:35A. M. 1 Hr. Min. From (E) 46 P.S.I. To (F) 67 P.S.I.

Tool Closed F.C.I.P. From 4:35A.M. to 5:05 M. Hr. 30 Min. (G) 918 P.S.I.

Initial Hydrostatic Pressure (A) 2152 P.S.I. Final Hydrostatic Pressure (H) 2137 P.S.I.

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

INFORMATION _____ M. _____

_____ M. _____

_____ M. _____

BLOW Weak for 45 minutes and died Bottom Choke Size 1/2 In.

Did Well Flow _____ Yes No _____ Recovery Total Ft. 80 feet heavy drilling mud.

Reversed Out _____ Yes No _____ Mud Type Chem Viscosity 47 Weight 10.1 Water Loss 12.5 cc. Maximum Temp. 113 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____

Length Drill Pipe 2560 ft. I.D. Drill Pipe 2.7 in. Length Weight Pipe 1260 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 51 ft.

Remarks Flush tool after 45 minutes on final flow period.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-8-68

Test Ticket No. 10196

Recorder No. 1558 Capacity 4150

Location 3812 Ft.

Clock No. 8378 Elevation 2544 Derrick Floor

Well Temperature 113 °F

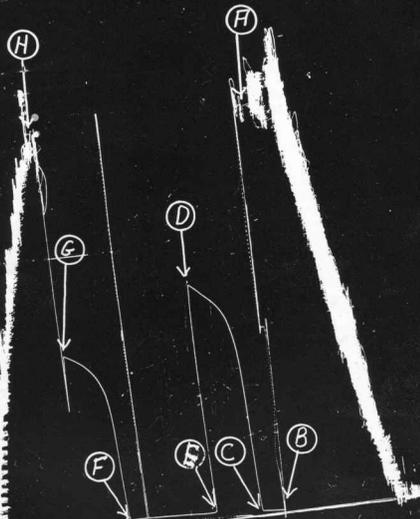
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2152</u> P.S.I.	Opened Tool	<u>2:48</u> A. M.	
B First Initial Flow Pressure	<u>21</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>29</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1194</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>46</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>67</u> P.S.I.			
G Final Closed-in Pressure	<u>918</u> P.S.I.			
H Final Hydrostatic Mud	<u>2137</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>21</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>67</u>
P 2	<u>23</u>	<u>3</u>	<u>520</u>	<u>5</u>	<u>48</u>	<u>3</u>	<u>421</u>
P 3	<u>25</u>	<u>6</u>	<u>876</u>	<u>10</u>	<u>50</u>	<u>6</u>	<u>645</u>
P 4	<u>29</u>	<u>9</u>	<u>960</u>	<u>15</u>	<u>52</u>	<u>9</u>	<u>741</u>
P 5		<u>12</u>	<u>1022</u>	<u>20</u>	<u>54</u>	<u>12</u>	<u>782</u>
P 6		<u>15</u>	<u>1060</u>	<u>25</u>	<u>59</u>	<u>15</u>	<u>818</u>
P 7		<u>18</u>	<u>1089</u>	<u>30</u>	<u>61</u>	<u>18</u>	<u>843</u>
P 8		<u>21</u>	<u>1110</u>	<u>35</u>	<u>63</u>	<u>21</u>	<u>862</u>
P 9		<u>25</u>	<u>1131</u>	<u>40</u>	<u>65</u>	<u>25</u>	<u>893</u>
P10		<u>27</u>	<u>1152</u>	<u>45</u>	<u>65</u>	<u>27</u>	<u>905</u>
P11		<u>30</u>	<u>1194</u>	<u>50</u>	<u>67</u>	<u>30</u>	<u>918</u>
P12				<u>55</u>	<u>67</u>		
P13				<u>60</u>	<u>67</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

ABERCROMBIE DRILLING COMPANY INC.
BARNETT # "A" - 1

T.K.T 10196
TEST #1



Graph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2160	2152	PSI
(B) First Initial Flow Pressure	17	21	PSI
(C) First Final Flow Pressure	33	29	PSI
(D) Initial Closed-in Pressure	1197	1194	PSI
(E) Second Initial Flow Pressure	43	46	PSI
(F) Second Final Flow Pressure	64	67	PSI
(G) Final Closed-in Pressure	915	918	PSI
(H) Final Hydrostatic Mud	2145	2137	PSI



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

15-75-25w

Company Abercrombie Drilling Co., Inc. Lease & Well No. Barnett A-1
Elevation 2544 Derrick Floor Formation Kansas City Effective Pay _____ Ft. Ticket No. 10197
Date 6-8-68 Sec. 15 Twp. 7s Range 25w County Graham State Kansas
Test Approved by Jack K. Wharton Western Representative Kenneth Cheney

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 3839' to 3870' Total Depth 3870'
Size Main Hole 6 1/4 Rat Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No
Top Packer Depth 3835 Ft. Size 5 1/2 Packer Depth 3839 Ft. Size 5 1/2
Straddle _____ Yes _____ No Conv. _____ B.T. _____ Damaged _____ Yes _____ No

Packer Depth _____ Ft. Size _____
Tool Size 4 1/2" OD Tool Jt. Size 3 1/2"-4" FH Anchor Length 31 Ft. Size 4 1/2" OD

RECORDERS Depth 3860 Ft. Clock No. 6860 Depth 3862 Ft. Clock No. 8378
Top Make Kuster Cap. 4150 No. 2608 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 1558 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Inside Depth _____ Ft. Clock No. _____ Outside
Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Outside

Time Set Packer 6:26 P. M
Tool Open I.F.P. From 6:27 M. to 6:32 P.M. Hr. 5 Min. From (B) 18 P.S.I. To (C) 24 P.S.I.
Tool Closed I.C.I.P. From 6:32 M. to 7:02 P.M. Hr. 30 Min. (D) 24 P.S.I.
Tool Open F.F.P. From 7:02 M. to 7:22 P.M. Hr. 20 Min. From (E) 24 P.S.I. To (F) 24 P.S.I.
Tool Closed F.C.I.P. From 7:22 M. to 7:52 P.M. Hr. 30 Min. (G) 24 P.S.I.
Initial Hydrostatic Pressure (A) 2164 P.S.I. Final Hydrostatic Pressure (H) 2149 P.S.I.

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

BLOW Weak for 5 minutes Bottom Choke Size 1/2 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 5 feet mud

Reversed Out _____ Yes No _____ Mud Type Chem Viscosity 47 Weight 10.1 Water Loss 12.1 cc. Maximum Temp. 109 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 2559 ft. I.D. Drill Pipe 2.7 in. Length Weight Pipe 1260 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 51 ft.

Remarks Flush tool after 15 minutes.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-8-68 Test Ticket No. 10197
 Recorder No. 2608 Capacity 4150 Location 3860 Ft.
 Clock No. 6860 Elevation 2544 Derrick Floor Well Temperature 109 °F

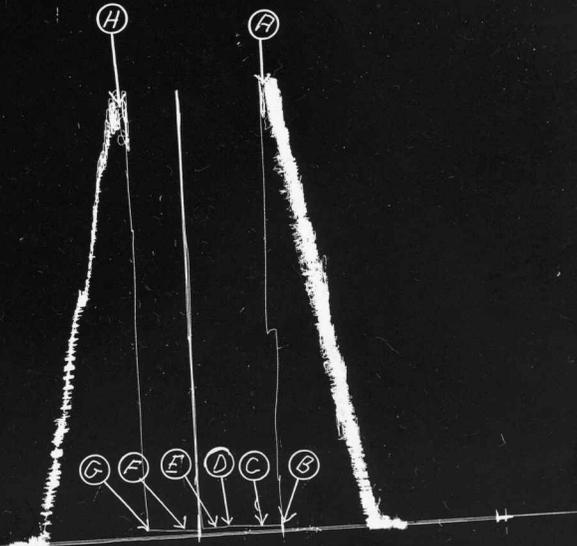
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2164</u>	P.S.I.	<u>6:26 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>18</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>24</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>24</u>	P.S.I.	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>24</u>	P.S.I.	<u>30</u> Mins.	<u>29</u> Mins.
F Second Final Flow Pressure	<u>24</u>	P.S.I.		
G Final Closed-in Pressure	<u>24</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2149</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>10</u> Inc.		Breakdown: <u>4</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of <u>2</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>24</u>
P 2	<u>5</u>	<u>3</u>	<u>24</u>	<u>5</u>	<u>24</u>	<u>3</u>	<u>24</u>
P 3		<u>6</u>	<u>24</u>	<u>10</u>	<u>24</u>	<u>6</u>	<u>24</u>
P 4		<u>9</u>	<u>24</u>	<u>15</u>	<u>24</u>	<u>9</u>	<u>24</u>
P 5		<u>12</u>	<u>24</u>	<u>20</u>	<u>24</u>	<u>12</u>	<u>24</u>
P 6		<u>15</u>	<u>24</u>			<u>15</u>	<u>24</u>
P 7		<u>18</u>	<u>24</u>			<u>18</u>	<u>24</u>
P 8		<u>21</u>	<u>24</u>			<u>21</u>	<u>24</u>
P 9		<u>25</u>	<u>24</u>			<u>25</u>	<u>24</u>
P 10		<u>27</u>	<u>24</u>			<u>27</u>	<u>24</u>
P 11		<u>30</u>	<u>24</u>			<u>29</u>	<u>24</u>
P 12							
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

ABERCROMBIE DRILLING COMPANY INC.
BARNETT # "A-1"

T.K.T 10197
TEST # 2



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2180	2164	PSI
(B) First Initial Flow Pressure	14	18	PSI
(C) First Final Flow Pressure	21	24	PSI
(D) Initial Closed-in Pressure	21	24	PSI
(E) Second Initial Flow Pressure	21	24	PSI
(F) Second Final Flow Pressure	21	24	PSI
(G) Final Closed-in Pressure	21	24	PSI
(H) Final Hydrostatic Mud	2163	2149	PSI

15-73-251



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company **Abrecrombie Drilling Co., Inc.** Lease & Well No. **Barnett A-1**

Elevation **2544 Derrick Floor** Formation **Kansas City** Effective Pay _____ Ft. Ticket No. **10198**

Date **6-9-68** Sec. **15** Twp. **7s** Range **25w** County **Gramham** State **Kansas**

Test Approved by **Jack K. Wharton,** Western Representative **Kenneth Cheney**

Formation Test No. **3** O.K. Misrun _____ Interval Tested From **3895'** to **3920'** Total Depth **3920'**

Size Main Hole **6 1/4** Rat Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No

Packer Depth **3891** Ft. Size **6 1/2"** Packer Depth **3895** Ft. Size **5 1/2"**

Straddle _____ Yes _____ No Conv. _____ B.T. _____ Damaged _____ Yes _____ No

Packer Depth _____ Ft. Size _____

Tool Size **4 1/2"OD** Tool Jt. Size **3 1/2"IF-4"FH** Anchor Length **25** Ft. Size **4 1/2"OD**

RECORDERS Depth **3810** Ft. Clock No. **6860** Depth **3912** Ft. Clock No. **8376**

Top Make **Kuster** Cap. **4150** No. **2608** Inside **Outside** Bottom Make **Kuster** Cap. **4150** No. **1558** Inside **Outside**

Below Straddle: Depth _____ Clock No. _____ Inside **Outside** Depth _____ Ft. Clock No. _____ Inside **Outside**

Top Make _____ Cap. _____ No. _____ Inside **Outside** Bottom Make _____ Cap. _____ No. _____ Inside **Outside**

Time Set Packer **9:47** **A.** **M**

Tool Open I.F.P. From **9:50** M. to **10:00** A.M. Hr. **10** Min. From (B) **24** P.S.I. To (C) **31** P.S.I.

Tool Closed I.C.I.P. From **10:00** M. to **10:30** A.M. Hr. **30** Min. (D) **1238** P.S.I.

Tool Open F.F.P. From **10:30** M. to **12:30** P.M. **2** Hr. **00** Min. From (E) **58** P.S.I. To (F) **153** P.S.I.

Tool Closed F.C.I.P. From **12:30** M. to **1:00** P.M. Hr. **30** Min. (G) **869** P.S.I.

Initial Hydrostatic Pressure (A) **2291** P.S.I. Final Hydrostatic Pressure (H) **2270** P.S.I.

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

INFORMATION _____ M. _____

_____ M. _____

_____ M. _____

BLOW **Good.** Bottom Choke Size **1/2** In.

Did Well Flow _____ Yes No _____ Recovery Total Ft. **410 feet gas in pipe: 180 feet free oil; 60 feet muddy oil**
60 feet oil cut mud.

Reversed Out _____ Yes No _____ Mud Type **Chem.** Viscosity **47** Weight **10.1** Water Loss **12.1** cc. Maximum Temp. **111** °F

Type Circ. Sub. **plug** Did Tool Plug? **no** Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers **yes** Safety Joint **no** Did Packer Hold? **yes** Where? _____

Length Drill Pipe **2615** ft. I.D. Drill Pipe **2.7** in. Length Weight Pipe **1260** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool **45** ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

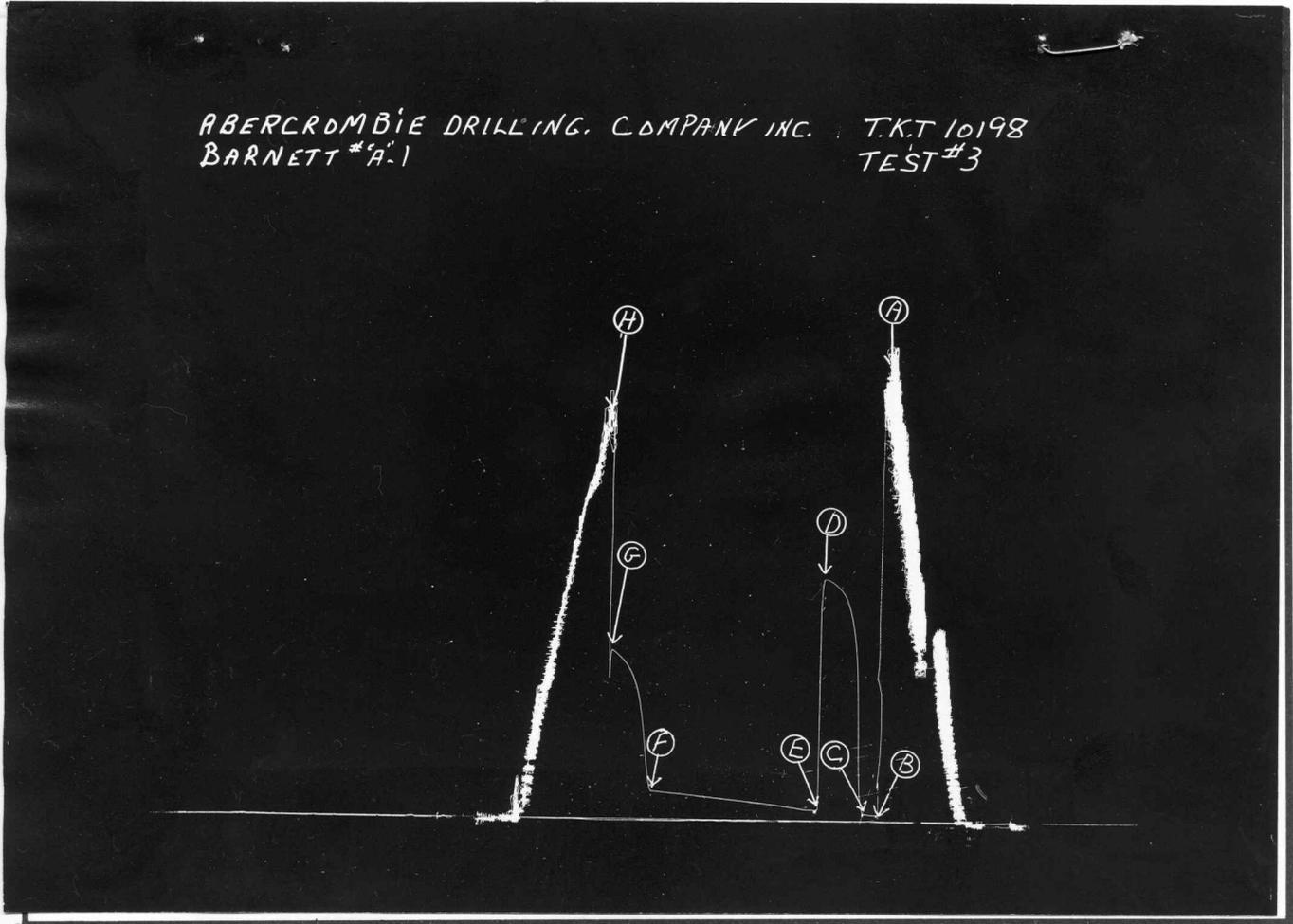
Date 6-9-68 Test Ticket No. 10198
 Recorder No. 2608 Capacity 4150 Location 3810 Ft.
 Clock No. 6860 Elevation 2544 Merrick Floor Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2291</u> P.S.I.	Opened Tool	<u>9:47 A.</u> M	
B First Initial Flow Pressure	<u>24</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>31</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1238</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>118</u> Mins.
E Second Initial Flow Pressure	<u>58</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>153</u> P.S.I.			
G Final Closed-in Pressure	<u>869</u> P.S.I.			
H Final Hydrostatic Mud	<u>2270</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>23</u> Inc.		Breakdown: <u>10</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>--</u> Min.		final inc. of <u>--</u> Min.		final inc. of <u>3</u> Min.		final inc. of <u>--</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>153</u>
P 2	<u>5</u>	<u>3</u>	<u>203</u>	<u>5</u>	<u>60</u>	<u>3</u>	<u>297</u>
P 3	<u>10</u>	<u>6</u>	<u>689</u>	<u>10</u>	<u>64</u>	<u>6</u>	<u>510</u>
P 4		<u>9</u>	<u>933</u>	<u>15</u>	<u>68</u>	<u>9</u>	<u>600</u>
P 5		<u>12</u>	<u>1053</u>	<u>20</u>	<u>72</u>	<u>12</u>	<u>670</u>
P 6		<u>15</u>	<u>1117</u>	<u>25</u>	<u>76</u>	<u>15</u>	<u>722</u>
P 7		<u>18</u>	<u>1157</u>	<u>30</u>	<u>81</u>	<u>18</u>	<u>761</u>
P 8		<u>21</u>	<u>1184</u>	<u>35</u>	<u>85</u>	<u>21</u>	<u>793</u>
P 9		<u>25</u>	<u>1202</u>	<u>40</u>	<u>89</u>	<u>25</u>	<u>817</u>
P 10		<u>27</u>	<u>1219</u>	<u>45</u>	<u>93</u>	<u>27</u>	<u>840</u>
P 11		<u>30</u>	<u>1238</u>	<u>50</u>	<u>97</u>	<u>30</u>	<u>869</u>
P 12				<u>55</u>	<u>101</u>		
P 13				<u>60</u>	<u>106</u>		
P 14				<u>65</u>	<u>110</u>		
P 15				<u>70</u>	<u>114</u>		
P 16				<u>75</u>	<u>118</u>		
P 17				<u>80</u>	<u>122</u>		
P 18				<u>85</u>	<u>126</u>		
P 19				<u>90</u>	<u>131</u>		
P 20				<u>95</u>	<u>135</u>		
				<u>100</u>	<u>139</u>		
				<u>105</u>	<u>143</u>		
				<u>110</u>	<u>147</u>		
				<u>115</u>	<u>151</u>		
				<u>118</u>	<u>153</u>		

ABERCROMBIE DRILLING COMPANY INC. TKT 10198
 BARNETT #A-1 TEST #3



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2305	2291	PSI
(B) First Initial Flow Pressure	27	24	PSI
(C) First Final Flow Pressure	37	31	PSI
(D) Initial Closed-in Pressure	37	31	PSI
(E) Second Initial Flow Pressure	58	58	PSI
(F) Second Final Flow Pressure	145	153	PSI
(G) Final Closed-in Pressure	882	869	PSI
(H) Final Hydrostatic Mud	2274	2270	PSI

COMPANY ABERCROMBIE DRILLING CO., INC. PHASE AND WELL NO. Barnett A-1
 SEC. 15 TWP. 7S RGE. 25W TEST NO. 3 DATE 6-9-68