



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

Company Abercrombie Drlg. Co. Inc. Lease & Well No. Marx # 1
Elevation 2606 Derrick Floor Formation Kansas City Effective Pay ----- Ft. Ticket No. 8707
Date 8-21-67 Sec. 24 Twp. 6 Range 26W County Sheridan State Kansas
Test Approved by Jack K. Whorton Western Representative Gerrell Veatch
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3734' to 3770' Total Depth 3770'
Size Main Hole 6 1/2 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3730 Ft. Size 5 1/2 Packer Depth 3734 Ft. Size 5 1/2
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Packer Depth ☐ Ft. Size ☐
Tool Size 4 1/2 O.D. Tool Jt. Size 3 1/2 I.F. Anchor Length 36 Ft. Size 4 1/2 O.D.
RECORDERS Depth 3761 Ft. Clock No. 6895 Depth 3766 Ft. Clock No. 8376
Top Make Kuster Cap. 4150 No. 2607 Inside ----- Bottom Make Kuster Cap. 4150 No. 969 Inside -----
Below Straddle: Depth ☐ Clock No. ☐ Outside ☐ Depth ☐ Ft. Clock No. ☐ Outside ☐
Top Make ☐ Cap. ☐ No. ☐ Inside ☐ Bottom Make ☐ Cap. ☐ No. ☐ Inside ☐ Outside ☐
Time Set Packer 11:47 A. M
Tool Open I.F.P. From 11:50 A M. to 12:00 M. Hr. 10 Min. From (B) 25 P.S.I. To (C) 25 P.S.I.
Tool Closed I.C.I.P. From 12:00 M. to 12:30 P M. Hr. 30 Min. (D) 211 P.S.I.
Tool Open F.F.P. From 12:30 P M. to 1:30 P M. Hr. 60 Min. From (E) 29 P.S.I. To (F) 29 P.S.I.
Tool Closed F.C.I.P. From 1:30 M. to 2:00 P M. Hr. 30 Min. (G) 56 P.S.I.
Initial Hydrostatic Pressure (A) 2185 P.S.I. Final Hydrostatic Pressure (H) 2156 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 eight minutes Bottom Choke Size 3/4 In.
Did Well Flow ☐ Yes ☒ No Recovery Total Ft. ten feet mud with scum of oil
Reversed Out ☐ Yes ☒ No Mud Type chem. Viscosity 38 Weight 10.2 Water Loss ----- cc. Maximum Temp. 111 °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 2514 ft. I.D. Drill Pipe 2.8 in. Length Weight Pipe 1050 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 150 ft.
I. D. Drill Collars 2.5 in. Length D.S.T. Tool 56 ft.
Remarks Flushed tool.

Pressure Data

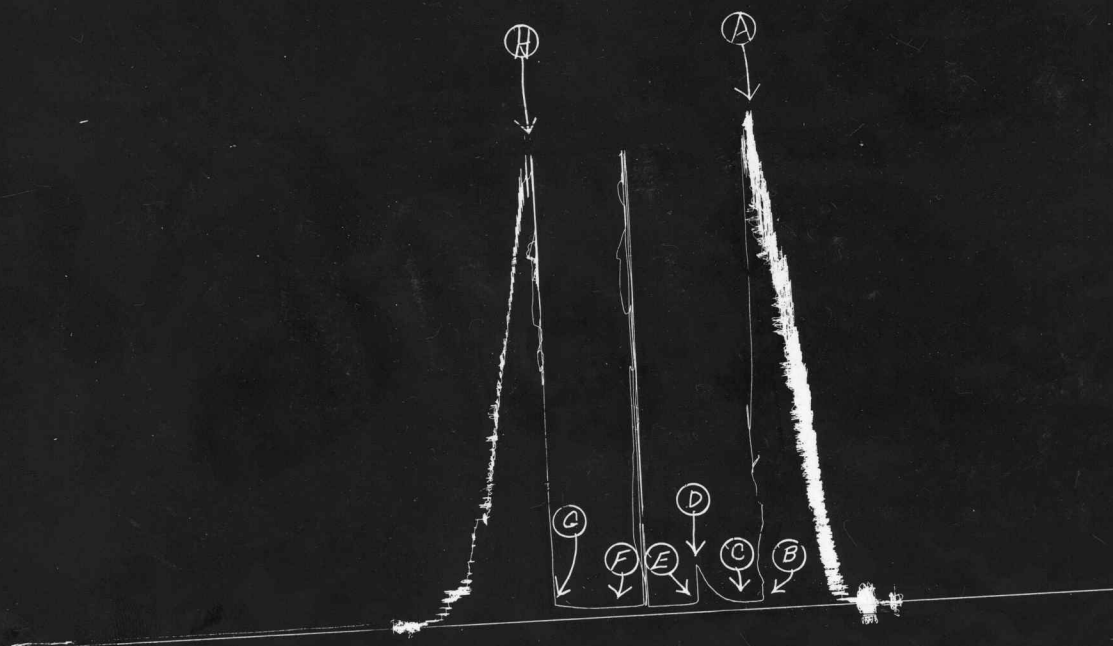
11:47 AM

H Final Hydrostatic Mud 2159 P.S.I.

final inc. of _____Min.

Abercrombie Drilling Co. Inc.
Marx #1

TKT-8707
Test #1



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2188	2185 PSI
(B) First Initial Flow Pressure	23	25 PSI
(C) First Final Flow Pressure	29	25 PSI
(D) Initial Closed-in Pressure	222	211 PSI
(E) Second Initial Flow Pressure	33	29 PSI
(F) Second Final Flow Pressure	33	29 PSI
(G) Final Closed-in Pressure	63	56 PSI
(H) Final Hydrostatic Mud	2170	2156 PSI



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Company Abercrombie Drlg. Co. Inc. Lease & Well No. Marx # 1

Elevation 2606 Derrick Floor Formation Kansas City Effective Pay ----- Ft. Ticket No. 8708

Date 8-22-67 Sec. 24 Twp. 6 Range 26W County Sheridan State Kansas

Test Approved by Jack K. Wharton Western Representative Gerrell Veatch

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 3810' to 3840' Total Depth 3840'

Size Main Hole 6 1/4 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No

Top Packer Depth 3806 Ft. Size 5 1/2 Packer Depth 3810 Ft. Size 5 1/2

Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No

Packer Depth ☐ Ft. Size ☐

Tool Size 4 1/2 O.D. Tool Jt. Size 3 1/2 I.F. Anchor Length 30 Ft. Size 4 1/2 O.D.

RECORDERS Depth 3832 Ft. Clock No. 6895 Depth 3836 Ft. Clock No. 8376'

Top Make Kuster Cap. 4150 No. 2607 Inside Outside Bottom Make Kuster Cap. 4150 No. 969 ~~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 9:50 A. M

Tool Open I.F.P. From 9:53 A.M. to 10:00 A.M. Hr. 7 Min. From (B) 25 P.S.I. To (C) 67 P.S.I.

Tool Closed I.C.I.P. From 10:00 A.M. to 10:30 A.M. Hr. 30 Min. (D) 1166 P.S.I.

Tool Open F.F.P. From 10:30 A.M. to 11:30 A.M. Hr. 60 Min. From (E) 103 P.S.I. To (F) 315 P.S.I.

Tool Closed F.C.I.P. From 11:30 A.M. to 12:00 M. Hr. 30 Min. (G) 787 P.S.I.

Initial Hydrostatic Pressure (A) 2216 P.S.I. Final Hydrostatic Pressure (H) 2200 P.S.I.

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

INFORMATION ☐ M. ☐ M. ☐ M.

BLOW Strong Bottom Choke Size 3/4 In.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 960 feet Gas In Pipe; 120 feet Heavy oil cut mud; 60 feet muddy oil; 660 feet gassy oil.

Reversed Out ☐ Yes ☒ No Mud Type Chem. Viscosity 45 Weight 10.5 Water Loss ----- cc. Maximum Temp. 112 °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 2650 ft. I.D. Drill Pipe 28 in. Length Weight Pipe 1050 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 90 ft.

I. D. Drill Collars 2.5 in. Length D.S.T. Tool 50 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 8-22-67

Test Ticket No. 8708

Recorder No. 2607

Capacity 4150

Location 3832 Ft.

Clock No. 6895

Elevation 2606 Derrick Floor

Well Temperature 112 °F

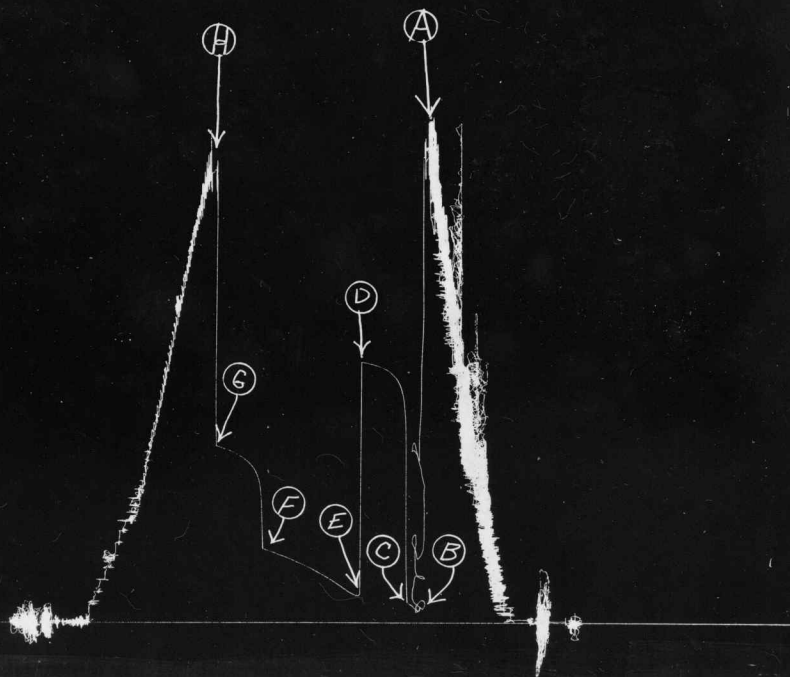
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2216</u> P.S.I.	Opened Tool	<u>9:50 A</u> M	
B First Initial Flow Pressure	<u>25</u> P.S.I.	First Flow Pressure	<u>7</u> Mins.	<u>7</u> Mins.
C First Final Flow Pressure	<u>67</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
D Initial Closed-in Pressure	<u>1166</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>58</u> Mins.
E Second Initial Flow Pressure	<u>103</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
F Second Final Flow Pressure	<u>315</u> P.S.I.			
G Final Closed-in Pressure	<u>787</u> P.S.I.			
H Final Hydrostatic Mud	<u>2200</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>11</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>2</u> Min.		final inc. of <u>2</u> Min.		final inc. of <u>3</u> 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>25</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>103</u>	<u>0</u>	<u>315</u>
P 2 <u>5</u>	<u>50</u>	<u>3</u>	<u>985</u>	<u>5</u>	<u>116</u>	<u>3</u>	<u>651</u>
P 3 <u>10</u>	<u>67</u>	<u>6</u>	<u>1075</u>	<u>10</u>	<u>140</u>	<u>6</u>	<u>699</u>
P 4		<u>9</u>	<u>1108</u>	<u>15</u>	<u>167</u>	<u>9</u>	<u>724</u>
P 5		<u>12</u>	<u>1125</u>	<u>20</u>	<u>192</u>	<u>12</u>	<u>739</u>
P 6		<u>15</u>	<u>1137</u>	<u>25</u>	<u>213</u>	<u>15</u>	<u>753</u>
P 7		<u>18</u>	<u>1148</u>	<u>30</u>	<u>237</u>	<u>18</u>	<u>764</u>
P 8		<u>21</u>	<u>1156</u>	<u>35</u>	<u>254</u>	<u>21</u>	<u>771</u>
P 9		<u>24</u>	<u>1160</u>	<u>40</u>	<u>272</u>	<u>24</u>	<u>778</u>
P10		<u>27</u>	<u>1165</u>	<u>45</u>	<u>288</u>	<u>27</u>	<u>782</u>
P11		<u>29</u>	<u>1166</u>	<u>50</u>	<u>300</u>	<u>29</u>	<u>787</u>
P12				<u>55</u>	<u>311</u>		
P13				<u>58</u>	<u>315</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Abercrombie Drilg Co.
Marx #1

TKT 8708
Test #2



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2236	2216	PSI
(B) First Initial Flow Pressure	21	25	PSI
(C) First Final Flow Pressure	65	67	PSI
(D) Initial Closed-in Pressure	1165	1166	PSI
(E) Second Initial Flow Pressure	95	103	PSI
(F) Second Final Flow Pressure	317	315	PSI
(G) Final Closed-in Pressure	789	787	PSI
(H) Final Hydrostatic Mud	2225	2200	PSI



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Company Abercrombie Drlg. Co. Inc. Lease & Well No. Marx # 1
Elevation 2606 Derrick Floor Formation Kansas City Effective Pay ----- Ft. Ticket No. 8709
Date 8-23-67 Sec. 24 Twp. 6 Range 26W County Sheridan State Kansas
Test Approved by Jack K. Wharton Western Representative Gerrell Veatch
Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 3838' to 3875' Total Depth 3875'
Size Main Hole 6 1/2 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3834 Ft. Size 5 1/2 Packer Depth 3838 Ft. Size 5 1/2
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Packer Depth ☐ Ft. Size ☐
Tool Size 4 1/2 O.D. Tool Jt. Size 3 1/2 I.F. Anchor Length 37 Ft. Size 4 1/2 O.D.
RECORDERS Depth 3867 Ft. Clock No. 6895 Depth 3871 Ft. Clock No. 8376
Top Make Kuster Cap. 4150 No. 2607 Inside Outside Bottom Make Kuster Cap. 4150 No. 969 Inside Outside
Below Straddle: Depth ☐ Clock No. ☐ Inside Outside Depth ☐ Ft. Clock No. ☐ Inside Outside
Top Make ☐ Cap. ☐ No. ☐ Outside ☐ Bottom Make ☐ Cap. ☐ No. ☐ Outside ☐
Time Set Packer 12:17 A. M
Tool Open I.F.P. From 12:20 A.M. to 12:30 A.M. Hr. 10 Min. From (B) 27 P.S.I. To (C) 27 P.S.I.
Tool Closed I.C.I.P. From 12:30 M. to 1:00 A.M. Hr. 30 Min. (D) 31 P.S.I.
Tool Open F.F.P. From 1:00 M. to 2:00 A.M. Hr. 60 Min. From (E) 27 P.S.I. To (F) 27 P.S.I.
Tool Closed F.C.I.P. From 2:00 M. to 2:30 A.M. Hr. 30 Min. (G) 27 P.S.I.
Initial Hydrostatic Pressure (A) 2170 P.S.I. Final Hydrostatic Pressure (H) 2152 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 eight minutes Bottom Choke Size 3/4 In.
Did Well Flow ☐ Yes ☒ No Recovery Total Ft. ten feet mud with scum of oil.
Reversed Out ☐ Yes ☒ No Mud Type Chem. Viscosity 45 Weight 10.5 Water Loss ---- cc. Maximum Temp. 113 °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 2678 ft. I.D. Drill Pipe 2.8 in. Length Weight Pipe 1050 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 90 ft.
I. D. Drill Collars 2.5 in. Length D.S.T. Tool 57 ft.
Remarks Flushed tool.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-23-67

Test Ticket No. 8709

Recorder No. 2607 Capacity 4150

Location 3867 Ft.

Clock No. 6895 Elevation 2606 Derrick Floor

Well Temperature 113 °F

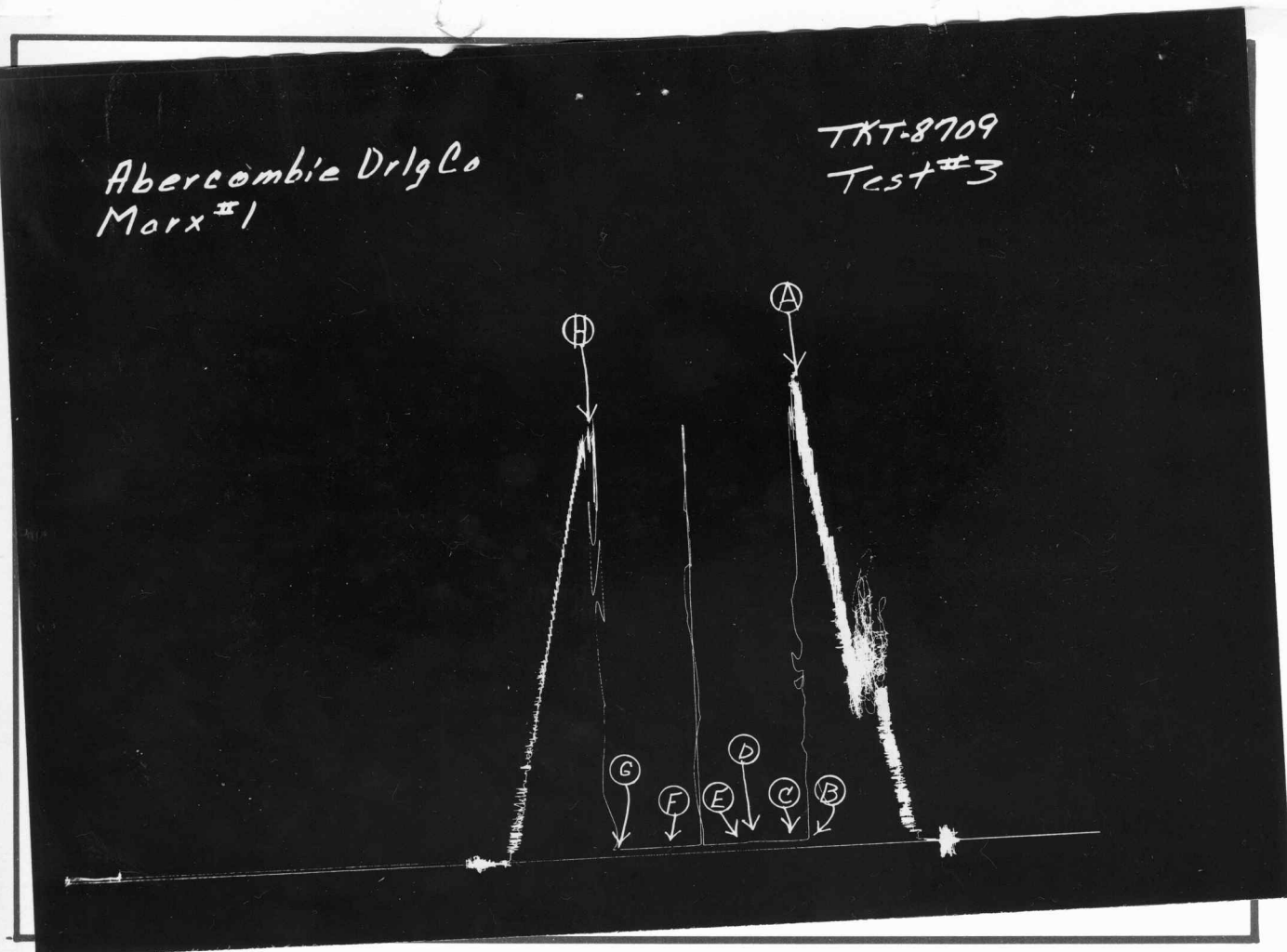
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2170</u> P.S.I.	Opened Tool	<u>12:17 A/M</u>	
B First Initial Flow Pressure	<u>27</u> P.S.I.	First Flow Pressure	<u>10</u> Mins	<u>10</u> Mins.
C First Final Flow Pressure	<u>27</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>31</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>27</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins	<u>29</u> Mins.
F Second Final Flow Pressure	<u>27</u> P.S.I.			
G Final Closed-in Pressure	<u>27</u> P.S.I.			
H Final Hydrostatic Mud	<u>2152</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: _____ Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>9</u> Inc.	
of <u>5</u> mins. and a		of _____ 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>27</u>	<u>0</u>	<u>27</u>	<u>0</u>	<u>27</u>	<u>0</u>	<u>25</u>
P 2 <u>5</u>	<u>27</u>	<u>3</u>	<u>27</u>	<u>5</u>	<u>27</u>	<u>3</u>	<u>25</u>
P 3 <u>10</u>	<u>27</u>	<u>6</u>	<u>27</u>	<u>10</u>	<u>27</u>	<u>6</u>	<u>25</u>
P 4 _____		<u>9</u>	<u>27</u>	<u>15</u>	<u>27</u>	<u>9</u>	<u>25</u>
P 5 _____		<u>12</u>	<u>27</u>	<u>20</u>	<u>27</u>	<u>12</u>	<u>25</u>
P 6 _____		<u>15</u>	<u>27</u>	<u>25</u>	<u>27</u>	<u>15</u>	<u>25</u>
P 7 _____		<u>18</u>	<u>28</u>	<u>30</u>	<u>27</u>	<u>18</u>	<u>25</u>
P 8 _____		<u>21</u>	<u>29</u>	<u>35</u>	<u>27</u>	<u>21</u>	<u>25</u>
P 9 _____		<u>24</u>	<u>30</u>	<u>40</u>	<u>27</u>	<u>24</u>	<u>25</u>
P10 _____		<u>27</u>	<u>31</u>	<u>45</u>	<u>27</u>	<u>27</u>	<u>25</u>
P11 _____		<u>30</u>	<u>31</u>	<u>50</u>	<u>27</u>	<u>29</u>	<u>25</u>
P12 _____				<u>55</u>	<u>27</u>		
P13 _____				<u>60</u>	<u>27</u>		
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

Abercrombie Drilg Co
Marx #1

TKT-8709
Test #3



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2185	2170	PSI
(B) First Initial Flow Pressure	25	27	PSI
(C) First Final Flow Pressure	25	27	PSI
(D) Initial Closed-in Pressure	32	31	PSI
(E) Second Initial Flow Pressure	25	27	PSI
(F) Second Final Flow Pressure	25	27	PSI
(G) Final Closed-in Pressure	25	27	PSI
(H) Final Hydrostatic Mud	2175	2152	PSI