



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

Company Abercrombie Drilling Inc. Lease & Well No. Lang A #1  
Elevation 2210 Kelly Bushings Formation Kansas City Effective Pay 4 Ft. Ticket No. 15450  
Date 1-31-71 Sec. 9 Twp. 14S Range 20W County Ellis State Kansas  
Test Approved by Jack K. Wharton Western Representative Harold Schmidt

Formation Test No. 1 O.K.  Misrun Interval Tested From 3557' to 3574' Total Depth 3574'  
Size Main Hole 7 7/8" Rat Hole Conv.  B.T.  Damaged Yes  No Conv.  B.T.  Damaged Yes  No  
Top Packer Depth 3552 Ft. Size 6 3/4" Packer Depth 3557 Ft. Size 6 3/4"  
Straddle Yes  No  Conv.  B.T.  Damaged Yes  No

Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 17 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3567 Ft. Clock No. 5665 Depth 3570 Ft. Clock No. 6893  
Top Make Kuster Cap. 4200 No. 3354 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 1558 ~~Inside~~ Outside  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 8:08 A. M  
Tool Open I.F.P. From 8:12 M. to 8:24A. M. Hr. 12 Min. From (B) 33 P.S.I. To (C) 42 P.S.I.  
Tool Closed I.C.I.P. From 8:24 M. to 8:54A. M. Hr. 30 Min. (D) 881 P.S.I.  
Tool Open F.F.P. From 8:54 M. to 10:38A. M. Hr. 104 Min. From (E) 59 P.S.I. To (F) 119 P.S.I.  
Tool Closed F.C.I.P. From 10:38 M. to 11:18A. M. Hr. 45 Min. (G) 847 P.S.I.  
Initial Hydrostatic Pressure (A) 1958 P.S.I. Final Hydrostatic Pressure (H) 1936 P.S.I.

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

BLOW Good thru out Bottom Choke Size 3/4 In.  
Did Well Flow Yes  No  Recovery Total Ft. 520 feet gas in pipe - 30 feet mud and gas cut oil  
60 feet mud and gas cut oil with trace of water  
120 feet muddy water

Reversed Out Yes  No  Mud Type Starch Viscosity 43 Weight 9.9 Water Loss 4.0 cc. Maximum Temp. 117 °F  
Type Circ. Sub. Pin 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 2712 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 825 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 37 ft.

Remarks

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

Date 1-31-71 Test Ticket No. 15450  
 Recorder No. 3354 Capacity 4200 Location 3567 Ft.  
 Clock No. 5665 Elevation 2210 Kelly Bushings Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1958</u>	P.S.I.	<u>8:08</u> A. M.	
B First Initial Flow Pressure	<u>33</u>	P.S.I.	<u>12</u> Mins.	<u>12</u> Mins.
C First Final Flow Pressure	<u>42</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>881</u>	P.S.I.	<u>104</u> Mins.	<u>100</u> Mins.
E Second Initial Flow Pressure	<u>59</u>	P.S.I.	<u>45</u> Mins.	<u>39</u> Mins.
F Second Final Flow Pressure	<u>119</u>	P.S.I.		
G Final Closed-in Pressure	<u>847</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1936</u>	P.S.I.		

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>2</u> mins. and a final inc. of <u>2</u> Min.		of <u>10</u> mins. and a final inc. of _____ Min.		of <u>20</u> mins. and a final inc. of _____ Min.		of <u>13</u> mins. and a final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>33</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>119</u>	
P 2 <u>5</u>	<u>34</u>	<u>3</u>	<u>120</u>	<u>5</u>	<u>59</u>	<u>3</u>	<u>208</u>	
P 3 <u>10</u>	<u>40</u>	<u>6</u>	<u>559</u>	<u>10</u>	<u>62</u>	<u>6</u>	<u>430</u>	
P 4 <u>12</u>	<u>42</u>	<u>9</u>	<u>801</u>	<u>15</u>	<u>67</u>	<u>9</u>	<u>679</u>	
P 5 _____		<u>12</u>	<u>843</u>	<u>20</u>	<u>69</u>	<u>12</u>	<u>755</u>	
P 6 _____		<u>15</u>	<u>858</u>	<u>25</u>	<u>73</u>	<u>15</u>	<u>791</u>	
P 7 _____		<u>18</u>	<u>867</u>	<u>30</u>	<u>76</u>	<u>18</u>	<u>810</u>	
P 8 _____		<u>21</u>	<u>875</u>	<u>35</u>	<u>80</u>	<u>21</u>	<u>821</u>	
P 9 _____		<u>24</u>	<u>877</u>	<u>40</u>	<u>83</u>	<u>24</u>	<u>827</u>	
P10 _____		<u>27</u>	<u>879</u>	<u>45</u>	<u>86</u>	<u>27</u>	<u>833</u>	
P11 _____		<u>30</u>	<u>881</u>	<u>50</u>	<u>88</u>	<u>30</u>	<u>837</u>	
P12 _____				<u>55</u>	<u>92</u>	<u>33</u>	<u>842</u>	
P13 _____				<u>60</u>	<u>95</u>	<u>36</u>	<u>845</u>	
P14 _____				<u>65</u>	<u>99</u>	<u>39</u>	<u>847</u>	
P15 _____				<u>70</u>	<u>103</u>			
P16 _____				<u>75</u>	<u>105</u>			
P17 _____				<u>80</u>	<u>109</u>			
P18 _____				<u>85</u>	<u>111</u>			
P19 _____				<u>90</u>	<u>116</u>			
P20 _____				<u>95</u>	<u>118</u>			
				<u>100</u>	<u>119</u>			



WESTERN TESTING CO., INC.

GREAT BEND, KANSAS 67530

(316) 793-7903

FIELD EVALUATIONS

Ticket No. 15450

Date 1-31-71

To Abercrombie Drilling Inc.

These calculations are based upon information furnished by you and taken from drill stem test pressure charts and are furnished for your information. In furnishing such calculations and evaluations, Western Testing Co., Inc. is merely expressing its opinion. You agree that The Testing Company makes no warranty as to the accuracy of such calculations or opinions and the Testing Company shall not be liable for any loss or damage, whether due to negligence or otherwise in connection with such calculations and opinions.

We Give Below Results of Drill Stem Evaluation

Lease Lang A #1 Sec. 9 Twp. 14S Rge. 20W

County Ellis Test Interval 3557 - 3574

FINAL

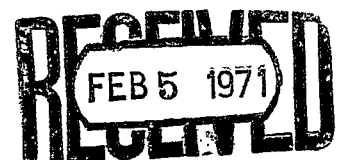
P.S.I. Slope Cycle  $M = \frac{P_{isi} - P_{fsi}}{\log \frac{T+t}{t}}$  50.0

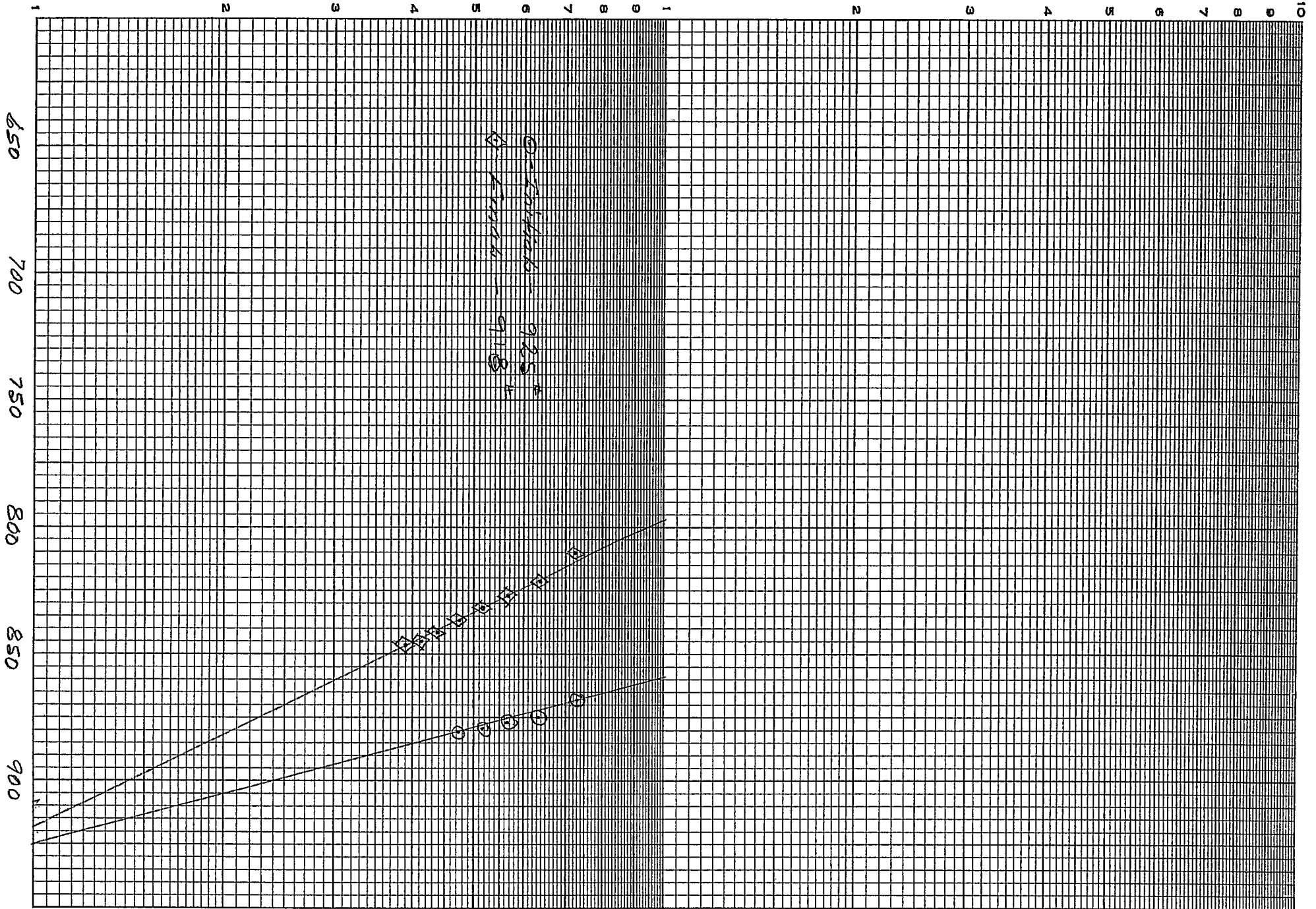
Damage Ratio  $DR = .183 \frac{P_s - P_f}{M}$  3.5

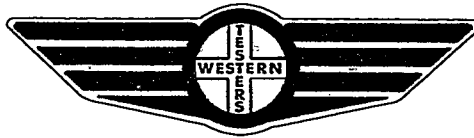
Production  $Q = \frac{1440 R}{t}$  0.677 Bbls./Hr.  
16.25 Bbls./Day

Effective Pay  $K_1 = \frac{K_h}{h_l}$  10.0 Md. Ft.

Theoretical Potential With Damage Removed  $Q_1 = Q DR$  56.88 Bbls./Day







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Company Abercrombie Drilling Inc. Lease & Well No. Lang A-1  
Elevation 2210 Kelly Bushings Formation Kansas City Effective Pay \_\_\_\_\_ Ft. Ticket No. 15376  
Date 2-1-71 Sec. 9 Twp. 14S Range 20W County Ellis State Kansas  
Test Approved by Jack K. Wharton Western Representative Harold Schmidt

Formation Test No. 2 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3694' to 3709' Total Depth 3709'  
Size Main Hole 7 7/8" Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No  
Top Packer Depth 3689 Ft. Size 6 3/4" Packer Depth 3694 Ft. Size 6 3/4"  
Straddle \_\_\_\_\_ Yes \_\_\_\_\_ No  Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 15 Ft. Size 5 1/2" O.D.  
Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_

RECORDERS Depth 3702 Ft. Clock No. 5665 Depth 3705 Ft. Clock No. 6894  
Top Make Kuster Cap. 4200 No. 3354 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Kuster Cap. 4150 No. 1558 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 8:56 A. M.  
Tool Open I.F.P. From 9:00 M. to 9:15A. M. Hr. 15 Min. From (B) 31 P.S.I. To (C) 33 P.S.I.  
Tool Closed I.C.I.P. From 9:15 M. to 9:45A. M. Hr. 30 Min. (D) 1200 P.S.I.  
Tool Open F.F.P. From 9:45 M. to 10:15A. M. Hr. 30 Min. From (E) 35 P.S.I. To (F) 30 P.S.I.  
Tool Closed F.C.I.P. From 10:15 M. to 11:00A. M. Hr. 45 Min. (G) 1198 P.S.I.  
Initial Hydrostatic Pressure (A) 2031 P.S.I. Final Hydrostatic Pressure (H) 2026 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 15 min. Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 15 feet drilling mud

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type Starch Viscosity 40 Weight 10.0 Water Loss 8.8 cc. Maximum Temp. 118 °F  
Type Circ. Sub. Pin 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 2849 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 825 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 35 ft.

Remarks \_\_\_\_\_

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

Date 2-1-71 Test Ticket No. 15376  
 Recorder No. 3354 Capacity 4200 Location 3702 Ft.  
 Clock No. 5665 Elevation 2210 Kelly Bushings Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2031</u> P.S.I.	Open Tool	<u>8:56</u> A. M.	
B First Initial Flow Pressure	<u>31</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>33</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1200</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>35</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>30</u> P.S.I.			
G Final Closed-in Pressure	<u>1198</u> P.S.I.			
H Final Hydrostatic Mud	<u>2026</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 3 Inc.  
 of 5 mins. and a  
 final inc. of \_\_\_\_\_ Min.

**Initial Shut-In**  
 Breakdown: 9 Inc.  
 of 3 mins. and a  
 final inc. of \_\_\_\_\_ Min.

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

**Final Shut-In**  
 Breakdown: 14 Inc.  
 of 3 mins. and a  
 final inc. of \_\_\_\_\_ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0H</u>	<u>31</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>30</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>50</u>	<u>5</u>	<u>35</u>	<u>3</u>	<u>40</u>
P 3 <u>10</u>	<u>32</u>	<u>6</u>	<u>158</u>	<u>10</u>	<u>35</u>	<u>6</u>	<u>90</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>529</u>	<u>15</u>	<u>29</u>	<u>9</u>	<u>196</u>
P 5 _____		<u>12</u>	<u>824</u>	<u>20</u>	<u>29</u>	<u>12</u>	<u>489</u>
P 6 _____		<u>15</u>	<u>970</u>	<u>25</u>	<u>30</u>	<u>15</u>	<u>736</u>
P 7 _____		<u>18</u>	<u>1084</u>	<u>30</u>	<u>30</u>	<u>18</u>	<u>921</u>
P 8 _____		<u>21</u>	<u>1141</u>			<u>21</u>	<u>1018</u>
P 9 _____		<u>24</u>	<u>1175</u>			<u>24</u>	<u>1075</u>
P10 _____		<u>27</u>	<u>1200</u>			<u>27</u>	<u>1116</u>
P11 _____						<u>30</u>	<u>1145</u>
P12 _____						<u>33</u>	<u>1169</u>
P13 _____						<u>36</u>	<u>1183</u>
P14 _____						<u>39</u>	<u>1183</u>
P15 _____						<u>42</u>	<u>1198</u>
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



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Company Abercrombie Drilling Inc. Lease & Well No. Lang A-1  
Elevation 2210 Kelly Bushings Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. 15377  
Date 2-2-71 Sec. 9 Twp. 14S Range 20W County Ellis State Kansas  
Test Approved by Jack K. Wharton Western Representative Harold J. Schmidt

Formation Test No. # 3 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3820' to 3838' Total Depth 3838'  
Size Main Hole 7 7/8" Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No  
Top Packer Depth 3815 Ft. Size 6 3/4" Packer Depth 3820 Ft. Size 6 3/4"  
Straddle \_\_\_\_\_ Yes \_\_\_\_\_ No  Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No

Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 18 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3831 Ft. Clock No. 5665 Depth 3834 Ft. Clock No. 6893  
Top Make Kuster Cap. 4200 No. 3354 Inside Outside Bottom Make Kuster Cap. 4150 No. 1558 ~~Inside~~ Outside  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 12:16 A. M.  
Tool Open I.F.P. From 12:20 M. to 12:35A M. Hr. 15 Min. From (B) 32 P.S.I. To (C) 35 P.S.I.  
Tool Closed I.C.I.P. From 12:35 M. to 1:05A M. Hr. 30 Min. (D) 818 P.S.I.  
Tool Open F.F.P. From 1:05 M. to 2:05A M. Hr. 60 Min. From (E) 42 P.S.I. To (F) 44 P.S.I.  
Tool Closed F.C.I.P. From 2:05 M. to 2:50A M. Hr. 45 Min. (G) 99 P.S.I.  
Initial Hydrostatic Pressure (A) 2115 P.S.I. Final Hydrostatic Pressure (H) 2112 P.S.I.

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

BLOW Weak intermittent blow thru out final pressure Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 40 feet drilling mud  
5 feet clean oil

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type Starch Viscosity 41 Weight 10.3 Water Loss 13.2 cc. Maximum Temp. 118 °F  
Type Circ. Sub. Pin 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 2975 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 82.5 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 38 ft.

Remarks \_\_\_\_\_

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

Date 2-2-71 Test Ticket No. 15377  
 Recorder No. 3354 Capacity 4200 Location 3831 Ft.  
 Clock No. 5665 Elevation 2210 Kelly Bushings Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2115</u>	P.S.I.	<u>12:16</u>	<u>AM</u>
B First Initial Flow Pressure	<u>32</u>	P.S.I.	<u>15</u>	<u>15</u> Mins.
C First Final Flow Pressure	<u>35</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>818</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>42</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
F Second Final Flow Pressure	<u>44</u>	P.S.I.		
G Final Closed-in Pressure	<u>99</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2112</u>	P.S.I.		

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	<b>Initial Shut-In</b> Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	<b>Second Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	<b>Final Shut-In</b> Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>32</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>44</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>48</u>	<u>5</u>	<u>42</u>	<u>3</u>	<u>45</u>
P 3 <u>10</u>	<u>34</u>	<u>6</u>	<u>103</u>	<u>10</u>	<u>42</u>	<u>6</u>	<u>46</u>
P 4 <u>15</u>	<u>35</u>	<u>9</u>	<u>217</u>	<u>15</u>	<u>42</u>	<u>9</u>	<u>47</u>
P 5 _____		<u>12</u>	<u>485</u>	<u>20</u>	<u>42</u>	<u>12</u>	<u>48</u>
P 6 _____		<u>15</u>	<u>603</u>	<u>25</u>	<u>42</u>	<u>15</u>	<u>50</u>
P 7 _____		<u>18</u>	<u>681</u>	<u>30</u>	<u>42</u>	<u>18</u>	<u>54</u>
P 8 _____		<u>21</u>	<u>729</u>	<u>35</u>	<u>43</u>	<u>21</u>	<u>57</u>
P 9 _____		<u>24</u>	<u>767</u>	<u>40</u>	<u>43</u>	<u>24</u>	<u>59</u>
P10 _____		<u>27</u>	<u>797</u>	<u>45</u>	<u>43</u>	<u>27</u>	<u>63</u>
P11 _____		<u>30</u>	<u>818</u>	<u>50</u>	<u>43</u>	<u>30</u>	<u>67</u>
P12 _____				<u>55</u>	<u>44</u>	<u>33</u>	<u>73</u>
P13 _____				<u>60</u>	<u>44</u>	<u>36</u>	<u>79</u>
P14 _____						<u>39</u>	<u>84</u>
P15 _____						<u>42</u>	<u>92</u>
P16 _____						<u>45</u>	<u>99</u>
P17 _____							
P18 _____							
P19 _____							
P20 _____							



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

Company Abercrombie Drilling Inc. Lease & Well No. Lang A-1  
Elevation 2210 Kelly Bushings Formation R.S. Effective Pay \_\_\_\_\_ Ft. Ticket No. 15378  
Date 2-3-71 Sec. 9 Twp. 14S Range 20W County Ellis State Kansas  
Test Approved by Jack K. Wharton Western Representative Harold Schmidt

Formation Test No. 4 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3820' to 3843' Total Depth 3843'  
Size Main Hole 7 7/8" Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged Yes  No Conv. \_\_\_\_\_ B.T.  Damaged Yes  No  
Top Packer Depth 3815 Ft. Size 6 3/4" Packer Depth 3820 Ft. Size 6 3/4"  
Straddle Yes \_\_\_\_\_ No  Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No

Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 23 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3836 Ft. Clock No. 5665 Depth 3839 Ft. Clock No. 6893  
Top Make Kuster Cap. 4200 No. 3354 ~~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 12:51 A.M.  
Tool Open I.F.P. From 12:55 M. to 1:05A.M. Hr. 10 Min. From (B) 40 P.S.I. To (C) 40 P.S.I.  
Tool Closed I.C.I.P. From 1:05 M. to 1:35A.M. Hr. 30 Min. (D) 883 P.S.I.  
Tool Open F.F.P. From 1:35 M. to 2:35A.M. Hr. 60 Min. From (E) 46 P.S.I. To (F) 50 P.S.I.  
Tool Closed F.C.I.P. From 2:35 M. to 3:20A.M. Hr. 45 Min. (G) 217 P.S.I.  
Initial Hydrostatic Pressure (A) 2020 P.S.I. Final Hydrostatic Pressure (H) 2006 P.S.I.

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

BLOW Weak intermittent blow Bottom Choke Size 3/4 In.  
Did Well Flow Yes  No \_\_\_\_\_ Recovery Total Ft. 30 feet drilling mud - 2 feet clean oil

Reversed Out Yes  No \_\_\_\_\_ Mud Type Starch Viscosity 41 Weight 10.3 Water Loss 13.2 cc. Maximum Temp. 118 °F  
Type Circ. Sub. Pin 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 2975 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 825 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 43 ft.

Remarks \_\_\_\_\_

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

Date 2-3-71 Test Ticket No. 15378  
 Recorder No. 3354 Capacity 4200 Location 3836 Ft.  
 Clock No. 5665 Elevation 2210 Kelly Bushings Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2020</u> P.S.I.	Open Tool	<u>12:51 A.M.</u>	
B First Initial Flow Pressure	<u>40</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>12</u> Mins.
C First Final Flow Pressure	<u>40</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>883</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>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>50</u> P.S.I.			
G Final Closed-in Pressure	<u>217</u> P.S.I.			
H Final Hydrostatic Mud	<u>2006</u> P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of <u>2</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	<b>Second Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	<b>Final Shut-In</b> Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.
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Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	<u>0</u>	<u>40</u>	P 1	<u>0</u>	<u>40</u>	P 1	<u>0</u>	<u>50</u>
P 2	<u>5</u>	<u>40</u>	P 2	<u>3</u>	<u>206</u>	P 2	<u>3</u>	<u>51</u>
P 3	<u>10</u>	<u>40</u>	P 3	<u>6</u>	<u>411</u>	P 3	<u>6</u>	<u>52</u>
P 4	<u>12</u>	<u>40</u>	P 4	<u>9</u>	<u>611</u>	P 4	<u>9</u>	<u>55</u>
P 5			P 5	<u>12</u>	<u>685</u>	P 5	<u>12</u>	<u>59</u>
P 6			P 6	<u>15</u>	<u>748</u>	P 6	<u>15</u>	<u>63</u>
P 7			P 7	<u>18</u>	<u>793</u>	P 7	<u>18</u>	<u>71</u>
P 8			P 8	<u>21</u>	<u>824</u>	P 8	<u>21</u>	<u>76</u>
P 9			P 9	<u>24</u>	<u>850</u>	P 9	<u>24</u>	<u>84</u>
P 10			P 10	<u>27</u>	<u>869</u>	P 10	<u>27</u>	<u>88</u>
P 11			P 11	<u>30</u>	<u>883</u>	P 11	<u>30</u>	<u>107</u>
P 12			P 12			P 12	<u>33</u>	<u>123</u>
P 13			P 13			P 13	<u>36</u>	<u>143</u>
P 14			P 14			P 14	<u>39</u>	<u>170</u>
P 15			P 15			P 15	<u>42</u>	<u>200</u>
P 16			P 16			P 16	<u>45</u>	<u>217</u>
P 17			P 17			P 17		
P 18			P 18			P 18		
P 19			P 19			P 19		
P 20			P 20			P 20		



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Company Abercrombie Drilling Inc. Lease & Well No. Lang A-1  
Elevation 2210 Kelly Bushings Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. 15379  
Date 2-3-71 Sec. 9 Twp. 14S Range 20W County Ellis State Kansas  
Test Approved by Jack K. Wharton Western Representative Harold Schmidt

Formation Test No. 5 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3820' to 3847' Total Depth 3847'  
Size Main Hole 7 7/8" Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No  
Top Packer Depth 3815 Ft. Size 6 3/4" Packer Depth 3820 Ft. Size 6 3/4"  
Straddle \_\_\_\_\_ Yes \_\_\_\_\_ No  Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No

Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 27 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3840 Ft. Clock No. 5665 Depth 3843 Ft. Clock No. 6893  
Top Make Kuster Cap. 4200 No. 3354 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 1:18 P. M.  
Tool Open I.F.P. From 1:22 M. to 1:37P.M. Hr. 15 Min. From (B) 31 P.S.I. To (C) 37 P.S.I.  
Tool Closed I.C.I.P. From 1:37 M. to 2:07P.M. Hr. 30 Min. (D) 854 P.S.I.  
Tool Open F.F.P. From 2:07 M. to 3:07P.M. Hr. 60 Min. From (E) 44 P.S.I. To (F) 51 P.S.I.  
Tool Closed F.C.I.P. From 3:07 M. to 3:52P.M. Hr. 45 Min. (G) 297 P.S.I.  
Initial Hydrostatic Pressure (A) 2153 P.S.I. Final Hydrostatic Pressure (H) 2122 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 30 min. Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 30 feet drilling mud - 2 feet clean oil

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type Starch Viscosity 39 Weight 10.2 Water Loss 13.8 cc. Maximum Temp. 118 °F  
Type Circ. Sub. Pin 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 2975 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 825 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 47 ft.

Remarks \_\_\_\_\_

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

Date 2-3-71 Test Ticket No. 15379  
 Recorder No. 3354 Capacity 4200 Location 3840 Ft.  
 Clock No. 5665 Elevation 2210 Kelly Bushings Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2153</u>	P.S.I.	<u>1:18</u>	<u>P. M</u>
B First Initial Flow Pressure	<u>31</u>	P.S.I.	<u>15</u>	<u>15</u>
C First Final Flow Pressure	<u>37</u>	P.S.I.	<u>30</u>	<u>30</u>
D Initial Closed-in Pressure	<u>854</u>	P.S.I.	<u>60</u>	<u>60</u>
E Second Initial Flow Pressure	<u>44</u>	P.S.I.	<u>45</u>	<u>45</u>
F Second Final Flow Pressure	<u>51</u>	P.S.I.		
G Final Closed-in Pressure	<u>297</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2122</u>	P.S.I.		

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 3 Inc.  
 of 5 mins. and a  
 final inc. of \_\_\_\_\_ Min.

**Initial Shut-In**  
 Breakdown: 10 Inc.  
 of 3 mins. and a  
 final inc. of \_\_\_\_\_ Min.

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

**Final Shut-In**  
 Breakdown: 15 Inc.  
 of 3 mins. and a  
 final inc. of \_\_\_\_\_ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>31</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>51</u>
P 2 <u>5</u>	<u>35</u>	<u>3</u>	<u>147</u>	<u>5</u>	<u>44</u>	<u>3</u>	<u>52</u>
P 3 <u>10</u>	<u>37</u>	<u>6</u>	<u>440</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>56</u>
P 4 <u>15</u>	<u>37</u>	<u>9</u>	<u>597</u>	<u>15</u>	<u>46</u>	<u>9</u>	<u>61</u>
P 5 _____		<u>12</u>	<u>668</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>66</u>
P 6 _____		<u>15</u>	<u>719</u>	<u>25</u>	<u>47</u>	<u>15</u>	<u>73</u>
P 7 _____		<u>18</u>	<u>753</u>	<u>30</u>	<u>48</u>	<u>18</u>	<u>82</u>
P 8 _____		<u>21</u>	<u>748</u>	<u>35</u>	<u>49</u>	<u>21</u>	<u>97</u>
P 9 _____		<u>24</u>	<u>818</u>	<u>40</u>	<u>50</u>	<u>24</u>	<u>112</u>
P10 _____		<u>27</u>	<u>839</u>	<u>45</u>	<u>50</u>	<u>27</u>	<u>135</u>
P11 _____		<u>30</u>	<u>854</u>	<u>50</u>	<u>50</u>	<u>30</u>	<u>160</u>
P12 _____				<u>55</u>	<u>51</u>	<u>33</u>	<u>194</u>
P13 _____				<u>60</u>	<u>51</u>	<u>36</u>	<u>223</u>
P14 _____						<u>39</u>	<u>257</u>
P15 _____						<u>42</u>	<u>218</u>
P16 _____						<u>45</u>	<u>297</u>
P17 _____							
P18 _____							
P19 _____							
P20 _____							



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Company Abercrombie Drilling Inc. Lease & Well No. Lang A-1  
Elevation 2210 Kelly Bushings Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. 15380  
Date 2-4-71 Sec. 9 Twp. 14S Range 20W County Ellis State Kansas  
Test Approved by Jack K. Wharton Western Representative Harold Schmidt

Formation Test No. 6 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3819' to 3859' Total Depth 3859'  
Size Main Hole 7 7/8" Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged Yes  No Conv. \_\_\_\_\_ B.T.  Damaged Yes  No  
Top Packer Depth 3814 Ft. Size 6 3/4" Packer Depth 3819 Ft. Size 6 3/4"  
Straddle Yes \_\_\_\_\_ No  Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No

Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 40 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3852 Ft. Clock No. 5665 Depth 3855 Ft. Clock No. 6893  
Top Make Kuster Cap. 4200 No. 3354 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Kuster Cap. 4150 No. 1558 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 4:56 A.M.  
Tool Open I.F.P. From 5:00 M. to 5:05 A.M. Hr. 5 Min. From (B) 274 P.S.I. To (C) 632 P.S.I.  
Tool Closed I.C.I.P. From 5:05 M. to 5:35 A.M. Hr. 30 Min. (D) 1186 P.S.I.  
Tool Open F.F.P. From 5:35 M. to 6:35 A.M. Hr. 60 Min. From (E) 664 P.S.I. To (F) 1181 P.S.I.  
Tool Closed F.C.I.P. From 6:35 M. to 7:05 A.M. Hr. 30 Min. (G) 1185 P.S.I.  
Initial Hydrostatic Pressure (A) 2091 P.S.I. Final Hydrostatic Pressure (H) 2081 P.S.I.

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

BLOW Good thru out Bottom Choke Size 3/4 In.  
Did Well Flow Yes  No \_\_\_\_\_ Recovery Total Ft. 2362 feet water

Reversed Out  Yes \_\_\_\_\_ No \_\_\_\_\_ Mud Type Starch Viscosity 39 Weight 10.2 Water Loss 13.8 cc. Maximum Temp. 126 °F  
Type Circ. Sub. Pin 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 2974 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 825 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars -- ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 60 ft.

Remarks \_\_\_\_\_

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

Date 2-4-71

Test Ticket No. 15380

Recorder No. 3354 Capacity 4200 Location 3852 Ft.

Clock No. 5665 Elevation 2210 Kelly Bushings Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2091</u> P.S.I.	Open Tool	<u>4:56</u> A.M.	
B First Initial Flow Pressure	<u>274</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>632</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1186</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>664</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>1181</u> P.S.I.			
G Final Closed-in Pressure	<u>1185</u> P.S.I.			
H Final Hydrostatic Mud	<u>2081</u> P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Pressure  
Breakdown: 1 Inc.  
of 5 mins. and a  
final inc. of \_\_\_\_\_ Min.

Initial Shut-In  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of \_\_\_\_\_ Min.

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

Final Shut-In  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of \_\_\_\_\_ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>274</u>	<u>0</u>	<u>632</u>	<u>0</u>	<u>664</u>	<u>0</u>	<u>1181</u>
P 2 <u>5</u>	<u>632</u>	<u>3</u>	<u>1173</u>	<u>5</u>	<u>816</u>	<u>3</u>	<u>1183</u>
P 3 _____		<u>6</u>	<u>1177</u>	<u>10</u>	<u>932</u>	<u>6</u>	<u>1185</u>
P 4 _____		<u>9</u>	<u>1179</u>	<u>15</u>	<u>1021</u>	<u>9</u>	<u>1185</u>
P 5 _____		<u>12</u>	<u>1180</u>	<u>20</u>	<u>1084</u>	<u>12</u>	<u>1185</u>
P 6 _____		<u>15</u>	<u>1181</u>	<u>25</u>	<u>1122</u>	<u>15</u>	<u>1185</u>
P 7 _____		<u>18</u>	<u>1182</u>	<u>30</u>	<u>1147</u>	<u>18</u>	<u>1185</u>
P 8 _____		<u>21</u>	<u>1183</u>	<u>35</u>	<u>1162</u>	<u>21</u>	<u>1185</u>
P 9 _____		<u>24</u>	<u>1184</u>	<u>40</u>	<u>1170</u>	<u>24</u>	<u>1185</u>
P 10 _____		<u>27</u>	<u>1185</u>	<u>45</u>	<u>1175</u>	<u>27</u>	<u>1185</u>
P 11 _____		<u>30</u>	<u>1186</u>	<u>50</u>	<u>1179</u>	<u>30</u>	<u>1185</u>
P 12 _____				<u>55</u>	<u>1180</u>		
P 13 _____				<u>60</u>	<u>1181</u>		
P 14 _____							
P 15 _____							
P 16 _____							
P 17 _____							
P 18 _____							
P 19 _____							
P 20 _____							