



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

Company A. L. Abercrombiek Inc. Lease & Well No. Huff C # 2
Elevation 2486 Kelly Bushing Formation Iansing Effective Pay _____ Ft. Ticket No. 13575
Date 2-7-70 Sec. 21 Twp. 1 Range 26 County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Harold Schmidt

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 3233' to 3280' Total Depth 3280'
Size Main Hole 6 3/4" at Hole _____ Conv. _____ B.T. Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No
Packer Depth 3228 Ft. Size _____ Packer Depth 3233 Ft. Size _____
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" FH Anchor Length 47 Ft. Size 4 1/2" OD

RECORDERS Depth 3271 Ft. Clock No. 9726 Depth 3274 Ft. Clock No. 9103
Top Make Kuster Cap. 4200 No. 3354 ~~Outside~~ Inside Bottom Make Kuster Cap. 4200 No. 1051 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 7:25P M
Tool Open I.F.P. From 7:28 M. to 7:58P M. Hr. 30 Min. From (B) 52 P.S.I. To (C) 59 P.S.I.
Tool Closed I.C.I.P. From 7:58 M. to 8:28P M. Hr. 30 Min. (D) 462 P.S.I.
Tool Open F.F.P. From 8:28 M. to 9:28P M. Hr. 60 Min. From (E) 67 P.S.I. To (F) 75 P.S.I.
Tool Closed F.C.I.P. From 9:28 M. to 9:58P M. Hr. 30 Min. (G) 186 P.S.I.
Initial Hydrostatic Pressure (A) 1766 P.S.I. Final Hydrostatic Pressure (H) 1741 P.S.I.

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

BLOW Weak thru out Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 65 feet slight oil cut mud

Reversed Out _____ Yes No _____ Mud Type Starch Viscosity 39 Weight 10.0 Water Loss 4.4 cc. Maximum Temp. 94 °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 2158 I.D. Drill Pipe 3.3 in. Length Weight Pipe 1055 ft. I.D. Weight Pipe 2.2 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 67 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date 2-7-70 Test Ticket No. 13575
 Recorder No. 3354 Capacity 4200 Location 3271 Ft.
 Clock No. 9726 Elevation 2486 Kelly Bushing Well Temperature 94 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1766</u>	P.S.I.	<u>7:25P</u>	<u>M</u>
B First Initial Flow Pressure	<u>52</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>59</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>462</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>67</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>75</u>	P.S.I.		
G Final Closed-in Pressure	<u>186</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1741</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Final Shut-In Breakdown: <u>10</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>0</u>	<u>59</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>75</u>
P 2	<u>5</u>	<u>3</u>	<u>62</u>	<u>5</u>	<u>67</u>	<u>3</u>	<u>75</u>
P 3	<u>10</u>	<u>6</u>	<u>67</u>	<u>10</u>	<u>67</u>	<u>6</u>	<u>80</u>
P 4	<u>15</u>	<u>9</u>	<u>76</u>	<u>15</u>	<u>67</u>	<u>9</u>	<u>86</u>
P 5	<u>20</u>	<u>12</u>	<u>88</u>	<u>20</u>	<u>70</u>	<u>12</u>	<u>94</u>
P 6	<u>25</u>	<u>15</u>	<u>114</u>	<u>25</u>	<u>70</u>	<u>15</u>	<u>100</u>
P 7	<u>30</u>	<u>18</u>	<u>143</u>	<u>30</u>	<u>71</u>	<u>18</u>	<u>106</u>
P 8		<u>21</u>	<u>208</u>	<u>35</u>	<u>71</u>	<u>21</u>	<u>123</u>
P 9		<u>24</u>	<u>259</u>	<u>40</u>	<u>72</u>	<u>24</u>	<u>139</u>
P10		<u>27</u>	<u>360</u>	<u>45</u>	<u>73</u>	<u>27</u>	<u>158</u>
P11		<u>30</u>	<u>462</u>	<u>50</u>	<u>74</u>	<u>30</u>	<u>186</u>
P12				<u>55</u>	<u>74</u>		
P13				<u>60</u>	<u>75</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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

Company A.L. Abercrombie, Inc. Lease & Well No. Huff C # 2
Elevation 2486 Kelly Bushing Formation Lansing Effective Pay _____ Ft. Ticket No. 13601
Date 2-8-70 Sec. 21 Twp. 1 Range 26 County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Harold Schmidt

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 3298' to 3320' Total Depth 3320'
Size Main Hole 5 7/8 Rat Hole _____ Conv. _____ B.T. Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No
6 3/4 Packer Depth 3293 Ft. Size 5 1/2 Packer Depth 3298 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 Anchor Length 22 Ft. Size 4 1/4" OD

RECORDERS Depth 3314 Ft. Clock No. 9726 Depth 3317 Ft. Clock No. 9103
Top Make Kuster Cap. 4200 No. 3354 ~~Inside~~ Outside Bottom Make Kuster Cap. 4200 No. 1051 ~~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 8:02A M
Tool Open I.F.P. From 8:05 M. to 9:05A M. Hr. 60 Min. From (B) 124 P.S.I. To (C) 135 P.S.I.
Tool Closed I.C.I.P. From 9:05 M. to 9:35A M. Hr. 30 Min. (D) 991 P.S.I.
Tool Open F.F.P. From 9:35 M. to 10:05A M. Hr. 30 Min. From (E) 137 P.S.I. To (F) 143 P.S.I.
Tool Closed F.C.I.P. From 10:05 M. to 10:35A M. Hr. 30 Min. (G) 985 P.S.I.
Initial Hydrostatic Pressure (A) 1798 P.S.I. Final Hydrostatic Pressure (H) 1773 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 60 minutes Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 180 feet oil cut mud and 40 feet drilling mud

Reversed Out _____ Yes No _____ Mud Type starch Viscosity 39 Weight 10 Water Loss 4.4 cc. Maximum Temp. 98 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers yes Safety Joint _____ Did Packer Hold? yes Where? _____
Length Drill Pipe 2198 ft. I.D. Drill Pipe 3.3 in. Length Weight Pipe 1055 ft. I.D. Weight Pipe 22 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 42 ft.

Remarks Packer slid 20 feet tot bottom

WESTERN TESTING CO., INC.
Pressure Data

Date 2-8-70 Test Ticket No. 13601
 Recorder No. 3354 Capacity 4200 Location 3314 Ft.
 Clock No. 9726 Elevation 2486 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1798</u> P.S.I.	Open Tool	<u>8:02A</u> M	
B First Initial Flow Pressure	<u>124</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>62</u> Mins.
C First Final Flow Pressure	<u>135</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>991</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>137</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>143</u> P.S.I.			
G Final Closed-in Pressure	<u>985</u> P.S.I.			
H Final Hydrostatic Mud	<u>1773</u> P.S.I.			

PRESSURE BREAKDOWN

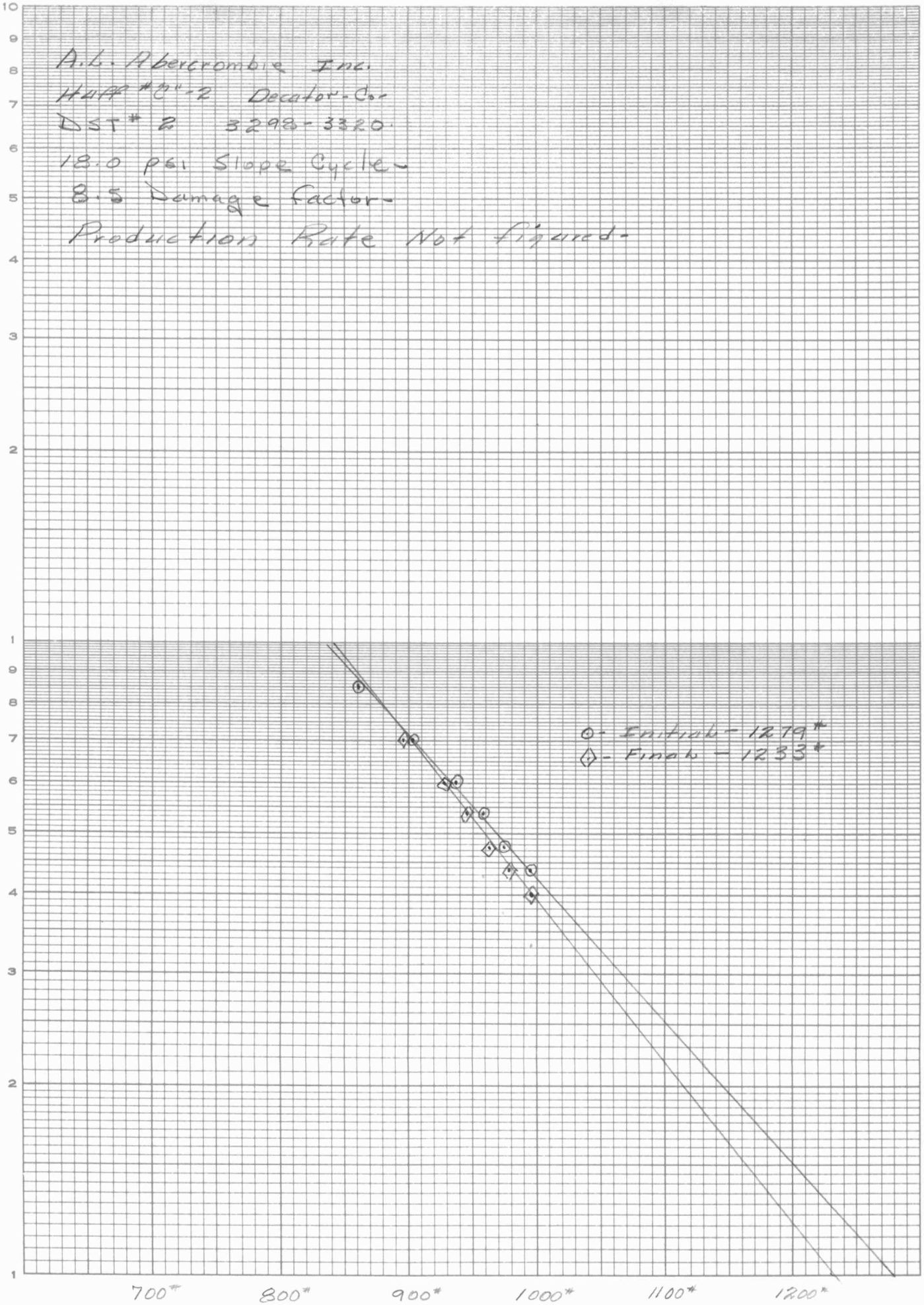
First Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Initial Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Final Shut-In Breakdown: <u>10</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>124</u>	<u>0</u>	<u>135</u>	<u>0</u>	<u>137</u>	<u>0</u>	<u>143</u>
P 2	<u>5</u>	<u>126</u>	<u>3</u>	<u>265</u>	<u>5</u>	<u>137</u>	<u>3</u>	<u>327</u>
P 3	<u>10</u>	<u>126</u>	<u>6</u>	<u>573</u>	<u>10</u>	<u>137</u>	<u>6</u>	<u>645</u>
P 4	<u>15</u>	<u>128</u>	<u>9</u>	<u>776</u>	<u>15</u>	<u>139</u>	<u>9</u>	<u>797</u>
P 5	<u>20</u>	<u>128</u>	<u>12</u>	<u>860</u>	<u>20</u>	<u>141</u>	<u>12</u>	<u>860</u>
P 6	<u>25</u>	<u>128</u>	<u>15</u>	<u>902</u>	<u>25</u>	<u>143</u>	<u>15</u>	<u>896</u>
P 7	<u>30</u>	<u>128</u>	<u>18</u>	<u>936</u>	<u>30</u>	<u>143</u>	<u>18</u>	<u>926</u>
P 8	<u>35</u>	<u>128</u>	<u>21</u>	<u>957</u>			<u>21</u>	<u>945</u>
P 9	<u>40</u>	<u>128</u>	<u>24</u>	<u>974</u>			<u>24</u>	<u>962</u>
P10	<u>45</u>	<u>130</u>	<u>27</u>	<u>985</u>			<u>27</u>	<u>978</u>
P11	<u>50</u>	<u>132</u>	<u>28</u>	<u>991</u>			<u>30</u>	<u>985</u>
P12	<u>55</u>	<u>132</u>						
P13	<u>60</u>	<u>132</u>						
P14	<u>62</u>	<u>135</u>						
P15								
P16								
P17								
P18								
P19								
P20								

A.L. Abercrombie Inc.
 Huff #01-2 Decator-Cor
 DST# 2 3298-3320
 18.0 psi Slope Cycle
 8.5 Damage Factor
 Production Rate Not figured

EUGENE DIETZGEN CO.
 MADE IN U. S. A.

NO. 341-L210 DIETZGEN GRAPH PAPER
 SEMI-LOGARITHMIC
 2 CYCLES X 10 DIVISIONS PER INCH



O - Initial - 1279*
 D - Final - 1233*



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Company A. L. Abercrombie, Inc. Lease & Well No. Huff C # 2
 Elevation 2486 Kelly Bushing Formation Lansing Effective Pay _____ Ft. Ticket No. 13602
 Date 2-9-70 Sec. 21 Twp. 1 Range 26 County Decatur State Kansas
 Test Approved by Jack K. Wharton Western Representative Harold J. Schmidt
 Formation Test No. 3 O.K. Misrun _____ Interval Tested From 3327' to 3390' Total Depth 3390'
 Size Main Hole 6 3/4 Rat Hole _____ Conv. _____ B.T. Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No
 Packer Depth 3322 Ft. Size 5 1/2 Packer Depth 3327 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" IFH Anchor Length 63 Ft. Size 4 1/4" OD

RECORDERS Depth 3384 Ft. Clock No 9726 Depth 3387 Ft. Clock No. 9103
 Top Make Kuster Cap. 4200 No. 3354 Inside Outside Bottom Make Kuster Cap. 4200 No. 1051 Inside Outside
 Below Straddle: Depth _____ Clock No. _____ Inside _____ Depth _____ Ft. Clock No. _____ Inside _____
 Top Make _____ Cap. _____ No. _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Outside _____

Time Set Packer 1:08A M
 Tool Open I.F.P. From 1:10 M. to 1:25A M. Hr. 15 Min. From (B) 70 P.S.I. To (C) 70 P.S.I.
 Tool Closed I.C.I.P. From 1:25 M. to 1:55A M. Hr. 30 Min. (D) 298 P.S.I.
 Tool Open F.F.P. From 1:55 M. to 2:25A M. Hr. 30 Min. From (E) 76 P.S.I. To (F) 81 P.S.I.
 Tool Closed F.C.I.P. From 2:25 M. to 2:55A M. Hr. 30 Min. (G) 560 P.S.I.
 Initial Hydrostatic Pressure (A) 1879 P.S.I. Final Hydrostatic Pressure (H) 1872 P.S.I.

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

BLOW Weak for 10 minutes Bottom Choke Size 3/4 In.
 Did Well Flow _____ Yes No _____ Recovery Total Ft. 30 feet drilling mud

Reversed Out _____ Yes No _____ Mud Type starch Viscosity 36 Weight 10.2 Water Loss 7.2 cc. Maximum Temp. 96 °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 2268 ft. I.D. Drill Pipe 3.3 in. Length Weight Pipe 1055 ft. I.D. Weight Pipe 2.2 in. Length Drill Collars _____ ft.
 I. D. Drill Collars _____ in. Length D.S.T. Tool 83 ft.

Remarks Flushed on final flow

WESTERN TESTING CO., INC.
Pressure Data

Date 2-9-70 Test Ticket No. 13602
 Recorder No. 3354 Capacity 4200 Location 3384 Ft.
 Clock No. 9726 Elevation 2486 Kelly Bushing Well Temperature 96 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1879</u>	P.S.I.	<u>1:08A</u>	<u>M</u>
B First Initial Flow Pressure	<u>70</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>70</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>298</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>76</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>81</u>	P.S.I.		
G Final Closed-in Pressure	<u>560</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1872</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Final Shut-In Breakdown: <u>10</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>0</u>	<u>70</u>	<u>0</u>	<u>76</u>	<u>0</u>	<u>81</u>
P 2	<u>5</u>	<u>3</u>	<u>70</u>	<u>5</u>	<u>72</u>	<u>3</u>	<u>150</u>
P 3	<u>10</u>	<u>6</u>	<u>73</u>	<u>10</u>	<u>72</u>	<u>6</u>	<u>188</u>
P 4	<u>15</u>	<u>9</u>	<u>85</u>	<u>15</u>	<u>82</u>	<u>9</u>	<u>233</u>
P 5		<u>12</u>	<u>94</u>	<u>20</u>	<u>82</u>	<u>12</u>	<u>276</u>
P 6		<u>15</u>	<u>114</u>	<u>25</u>	<u>81</u>	<u>15</u>	<u>324</u>
P 7		<u>18</u>	<u>144</u>	<u>30</u>	<u>81</u>	<u>18</u>	<u>377</u>
P 8		<u>21</u>	<u>180</u>			<u>21</u>	<u>411</u>
P 9		<u>24</u>	<u>230</u>			<u>24</u>	<u>457</u>
P10		<u>27</u>	<u>282</u>			<u>27</u>	<u>499</u>
P11		<u>30</u>	<u>298</u>			<u>30</u>	<u>560</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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Company A. L. Abercrombie, Inc. Lease & Well No. Huff C # 2
Elevation 2486 Kelly Bushing Formation Lansing Effective Pay _____ Ft. Ticket No. 13604
Date 2-9-70 Sec. 21 Twp. 1 Range 26 County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Harold J. Schmidt

Formation Test No. 4 O.K. Misrun _____ Interval Tested From 3386' to 3470' Total Depth 3470'
Size Main Hole 6 3/4" Rat Hole _____ Conv. _____ B.T. Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No
Packer Depth 3381 Ft. Size 5 1/2" Packer Depth 3386 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 Packer Depth _____ Ft. Size _____
Anchor Length 84 Ft. Size 4 1/4" od

RECORDERS Depth 3464 Ft. Clock No. 9726 Depth 3467 Ft. Clock No. 9103
Top Make Kuster Cap. 4200 No. 3354 ~~Inside~~ Outside Bottom Make Kuster Cap. 4200 No. 1051 ~~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 8:57P M
Tool Open I.F.P. From 9:00 M. to 9:05P M. Hr. 5 Min. From (B) 312 P.S.I. To (C) 340 P.S.I.
Tool Closed I.C.I.P. From 9:05 M. to 9:36P M. Hr. 30 Min. (D) 813 P.S.I.
Tool Open F.F.P. From 9:35 M. to 10:35P M. Hr. 60 Min. From (E) 370 P.S.I. To (F) 517 P.S.I.
Tool Closed F.C.I.P. From 10:35M to 11:05P M. Hr. 30 Min. (G) 525 P.S.I.
Initial Hydrostatic Pressure (A) 1925 P.S.I. Final Hydrostatic Pressure (H) 1910 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 Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 90 feet drilling mud-- 780 feet muddy water with few spots
_____ of oil _____

Reversed Out _____ Yes No _____ Mud Type starch Viscosity 42 Weight 10 Water Loss 5.2 cc. Maximum Temp. 96 °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 2348 ft. I.D. Drill Pipe 3.3 in. Length Weight Pipe 1055 ft. I.D. Weight Pipe 2.2 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 10 1/4 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date 2-9-70 Test Ticket No. 13604
 Recorder No. 3354 Capacity 4200 Location 3464 Ft.
 Clock No. 9726 Elevation 2486 Kelly Bushing Well Temperature 96 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1925</u> P.S.I.	Open Tool	<u>8:57^P</u> M	
B First Initial Flow Pressure	<u>312</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>340</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>813</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>370</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>525</u> P.S.I.			
G Final Closed-in Pressure	<u>1910</u> P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Final Shut-In Breakdown: <u>10</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>312</u>	<u>0</u>	<u>340</u>	<u>0</u>	<u>370</u>	<u>0</u>	<u>517</u>
P 2 <u>5</u>	<u>340</u>	<u>3</u>	<u>772</u>	<u>5</u>	<u>427</u>	<u>3</u>	<u>518</u>
P 3 _____	_____	<u>6</u>	<u>784</u>	<u>10</u>	<u>474</u>	<u>6</u>	<u>518</u>
P 4 _____	_____	<u>9</u>	<u>795</u>	<u>15</u>	<u>495</u>	<u>9</u>	<u>519</u>
P 5 _____	_____	<u>12</u>	<u>800</u>	<u>20</u>	<u>504</u>	<u>12</u>	<u>519</u>
P 6 _____	_____	<u>15</u>	<u>803</u>	<u>25</u>	<u>509</u>	<u>15</u>	<u>520</u>
P 7 _____	_____	<u>18</u>	<u>804</u>	<u>30</u>	<u>511</u>	<u>18</u>	<u>520</u>
P 8 _____	_____	<u>21</u>	<u>810</u>	<u>35</u>	<u>513</u>	<u>21</u>	<u>523</u>
P 9 _____	_____	<u>24</u>	<u>811</u>	<u>40</u>	<u>515</u>	<u>24</u>	<u>523</u>
P10 _____	_____	<u>27</u>	<u>812</u>	<u>45</u>	<u>515</u>	<u>27</u>	<u>524</u>
P11 _____	_____	<u>30</u>	<u>813</u>	<u>50</u>	<u>516</u>	<u>30</u>	<u>525</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>516</u>	_____	_____
P13 _____	_____	_____	_____	<u>60</u>	<u>517</u>	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



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

Company A. L. Abercrombie Inc. Lease & Well No. Huff "C" #2
Elevation 2486 Kelly Bushings Formation Lansing Effective Pay _____ Ft. Ticket No. 13605
Date 2-10-70 Sec. 21 Twp. 1 Range 26 County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Gerald Schmidt

Formation Test No. 5 O.K. Misrun _____ Interval Tested From 3276' to 3312' Total Depth 3573'
Size Main Hole 6 3/4 Rat Hole _____ Conv. _____ B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 3271 Ft. Size 5 1/2" Packer Depth 3276 Ft. Size 5 1/2"
Straddle Yes No _____ Conv. B.T. Damaged Yes No
Packer Depth 3312 Ft. Size 5 1/2"

Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 36 Ft. Size 4 1/4" O.D.

RECORDERS Depth 3306 Ft. Clock No. 9726 Depth 3309 Ft. Clock No. 9103
Top Make Kuster Cap. 4200 No. 3354 ~~Inside~~ Outside Bottom Make Kuster Cap. 4200 No. 1051 ~~Inside~~ Outside
Below Straddle: Depth 3315 Clock No. 22 ~~Inside~~ Outside Depth 3573 Ft. Clock No. _____ ~~Inside~~ Outside
Top Make WTC Cap. _____ No. _____ ~~Inside~~ Outside Bottom Make WTC Cap. _____ No. _____ ~~Inside~~ Outside

Time Set Packer 8:52 P. M
Tool Open I.F.P. From 8:55 M. to 9:10P. M. Hr. 15 Min. From (B) 54 P.S.I. To (C) 51 P.S.I.
Tool Closed I.C.I.P. From 9:10 M. to 9:55P. M. Hr. 45 Min. (D) 1044 P.S.I.
Tool Open F.F.P. From 9:55 M. to 10:55P. M. Hr. 60 Min. From (E) 61 P.S.I. To (F) 69 P.S.I.
Tool Closed F.C.I.P. From 10:55 M. to 11:40P. M. Hr. 45 Min. (G) 493 P.S.I.
Initial Hydrostatic Pressure (A) 1830 P.S.I. Final Hydrostatic Pressure (H) 1802 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 50 minutes Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 40 feet slightly oil cut mud - Good show in tool

Reversed Out Yes No _____ Mud Type Starch Viscosity 41 Weight 10.2 Water Loss 7.2 cc. Maximum Temp. _____ °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? 3276
Length Drill Pipe 2451 ft. I.D. Drill Pipe 3.3 in. Length Weight Pipe 1055 ft. I.D. Weight Pipe 2.2 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 317 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 2-10-70 Test Ticket No. 13605
 Recorder No. 3354 Capacity 4200 Location 3306 Ft.
 Clock No. 9726 Elevation 2486 Kelly Bushings Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1830 P.S.I.	Open Tool	8:52 P.M.	
B First Initial Flow Pressure	54 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	51 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1044 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	61 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	69 P.S.I.			
G Final Closed-in Pressure	493 P.S.I.			
H Final Hydrostatic Mud	1802 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Final Shut-In 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	0	54	0	51	0	61	69
P 2	5	51	3	52	5	62	71
P 3	10	51	6	59	10	62	73
P 4	15	51	9	119	15	63	78
P 5			12	240	20	64	86
P 6			15	398	25	65	94
P 7			18	579	30	66	106
P 8			21	715	35	66	119
P 9			24	794	40	67	132
P10			27	873	45	67	159
P11			30	916	50	68	182
P12			33	952	55	69	213
P13			36	981	60	69	275
P14			39	1000			336
P15			42	1021			402
P16			45	1044			493
P17							
P18							
P19							
P20							