



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Thomas #2

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 22777

Date 1-9-78 Sec. 12 Twp. 19S Range 29W County Lane State Kansas

Test Approved by Orlin R. Phelps Western Representative Ken Metzler

Formation Test No. 1 O.K. Misrun Interval Tested From 4076' to 4085' Total Depth 4085'

Size Main Hole 7-7/8" Rat Hole 12 1/4" Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth - Ft. Size - Bottom Packer Depth 4076 Ft. Size 6-3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 9 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4069 Ft. Clock No. 6893 Depth 4079 Ft. Clock No. 5665

Top Make Kuster Cap. 4200 No. 3354 ^{Inside} ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 2605 ^{Inside} ~~Outside~~

Below Straddle: Depth - Rec. No. - Clock No. - ^{Inside} ~~Outside~~ Depth - Ft. Rec. No. - Clock No. - ^{Inside} ~~Outside~~

Time Set Packer 11:57 P M

Tool Open I.F.P. From 12:00 A.M. to 12:30 M. - Hr. 30 Min. From (B) 44 P.S.I. To (C) 55 P.S.I.

Tool Closed I.C.I.P. From 12:30 M. to 1:30 M. 1 Hr. - Min (D) 1120 P.S.I.

Tool Open F.F.P. From 1:30 M. to 3:00 M. 1 Hr. 30 Min. From (E) 81 P.S.I. To (F) 152 P.S.I.

Tool Closed F.C.I.P. From 3:00 M. to 4:00 M. 1 Hr. - Min. (G) 1065 P.S.I.

Initial Hydrostatic Pressure (A) 2000 P.S.I. Final Hydrostatic Pressure (H) 2000 P.S.I. Maximum Temp. 124°

INFORMATION

BLOW Strong blow in 25 minutes on initial flow period.

Strong Blow in 30 minutes final flow period.

Did Well Flow Yes No Recovery Total Ft. 370' Gas in Pipe - 375' Clean Oil 5' Muddy Oil
(26% Gassy Oil - 74% Mud)

Reversed Out Yes No Mud Type Drispac Viscosity 45 Weight 9.4 Water Loss 10.4 cc. Chlorides 11,000 P.P.M.

EXTRA EQUIPMENT: Type Pin Circ. Sub. Pin Safety Joint Jars: Size - In. Make - Ser. No. -

Dual Packer No Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie #12 Length Drill Pipe? 3305 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 477 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 264 Ft. I.D. Drill Collars 2.26 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 28 Ft.

Remarks:

(Slid Tool 3' to Bottom Before Open)

TIGHT HOLE

WESTERN TESTING CO., INC.

Pressure Data

Date 1-9-78

Test Ticket No. 22777

Recorder No. 3354 Capacity 4200 Location 4069 Ft.

Clock No. 6893 Elevation - Well Temperature 124 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	2000	P.S.I.	Open Tool	11:57 P M	
B First Initial Flow Pressure	44	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	55	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1120	P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	81	P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	152	P.S.I.			
G Final Closed-in Pressure	1065	P.S.I.			
H Final Hydrostatic Mud	2000	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

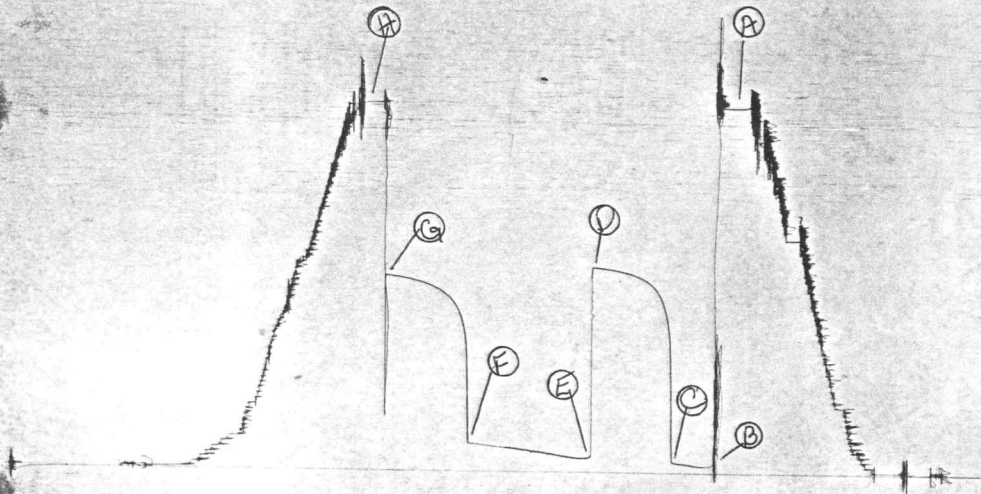
Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>44</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>81</u>	<u>0</u>	<u>152</u>
P 2 <u>5</u>	<u>34</u>	<u>3</u>	<u>688</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>658</u>
P 3 <u>10</u>	<u>35</u>	<u>6</u>	<u>851</u>	<u>10</u>	<u>75</u>	<u>6</u>	<u>812</u>
P 4 <u>15</u>	<u>40</u>	<u>9</u>	<u>935</u>	<u>15</u>	<u>80</u>	<u>9</u>	<u>876</u>
P 5 <u>20</u>	<u>46</u>	<u>12</u>	<u>981</u>	<u>20</u>	<u>85</u>	<u>12</u>	<u>918</u>
P 6 <u>25</u>	<u>51</u>	<u>15</u>	<u>1011</u>	<u>25</u>	<u>91</u>	<u>15</u>	<u>947</u>
P 7 <u>30</u>	<u>55</u>	<u>18</u>	<u>1032</u>	<u>30</u>	<u>97</u>	<u>18</u>	<u>966</u>
P 8 _____		<u>21</u>	<u>1049</u>	<u>35</u>	<u>105</u>	<u>21</u>	<u>982</u>
P 9 _____		<u>24</u>	<u>1061</u>	<u>40</u>	<u>110</u>	<u>24</u>	<u>994</u>
P10 _____		<u>27</u>	<u>1070</u>	<u>45</u>	<u>117</u>	<u>27</u>	<u>1006</u>
P11 _____		<u>30</u>	<u>1079</u>	<u>50</u>	<u>120</u>	<u>30</u>	<u>1015</u>
P12 _____		<u>33</u>	<u>1087</u>	<u>55</u>	<u>127</u>	<u>33</u>	<u>1025</u>
P13 _____		<u>36</u>	<u>1093</u>	<u>60</u>	<u>129</u>	<u>36</u>	<u>1032</u>
P14 _____		<u>39</u>	<u>1098</u>	<u>65</u>	<u>133</u>	<u>39</u>	<u>1038</u>
P15 _____		<u>42</u>	<u>1103</u>	<u>70</u>	<u>136</u>	<u>42</u>	<u>1044</u>
P16 _____		<u>45</u>	<u>1108</u>	<u>75</u>	<u>140</u>	<u>45</u>	<u>1049</u>
P17 _____		<u>48</u>	<u>1110</u>	<u>80</u>	<u>144</u>	<u>48</u>	<u>1053</u>
P18 _____		<u>51</u>	<u>1114</u>	<u>85</u>	<u>148</u>	<u>51</u>	<u>1057</u>
P19 _____		<u>54</u>	<u>1116</u>	<u>90</u>	<u>152</u>	<u>54</u>	<u>1060</u>
P20 _____		<u>57</u>	<u>1119</u>			<u>57</u>	<u>1063</u>
WTC - 4		<u>60</u>	<u>1120</u>			<u>60</u>	<u>1065</u>

#1

3354

TK# 22774
I.





Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Thomas #2

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 24978

Date 1-10-78 Sec. 12 Twp. 19S Range 29W County Lane State Kansas

Test Approved by Orlin R. Phelps Western Representative Don Leiker

Formation Test No. 2 O.K. Misrun Interval Tested From 4178' to 4195' Total Depth 4195'

Size Main Hole 7-7/8" Rat Hole 12 1/4" Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4173 Ft. Size 6-3/4 Bottom Packer Depth 4178 Ft. Size 6-3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 17 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4188 Ft. Clock No. 6897 Depth 4191 Ft. Clock No. 8378

Top Make Kuster Cap. 4150 No. 2608 ^{Inside} ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3473 ^{Inside} ~~Outside~~

Below Straddle: Depth Rec. No. Clock No. ^{Inside} ~~Outside~~ Depth Ft. Rec. No. Clock No. ^{Inside} ~~Outside~~

Time Set Packer 9:12 P M

Tool Open I.F.P. From 9:15 M. to 9:45 M. - Hr. 30 Min. From (B) 92 P.S.I. To (C) 85 P.S.I.

Tool Closed I.C.I.P. From 9:45 M. to 10:45 M. 1 Hr. - Min (D) 152 P.S.I.

Tool Open F.F.P. From 10:45 M. to 12:15 M. 1 Hr. 30 Min. From (E) 112 P.S.I. To (F) 114 P.S.I.

Tool Closed F.C.I.P. From 12:15 M. to 1:15 M. 1 Hr. - Min. (G) 136 P.S.I.

Initial Hydrostatic Pressure (A) 2052 P.S.I. Final Hydrostatic Pressure (H) 2029 P.S.I. Maximum Temp. 120°

INFORMATION

BLOW Good blow throughout initial flow period. Weaking to weak steady blow throughout remainder of test.

Did Well Flow Yes No Recovery Total Fr. 60' Gas 180' Clean Oil (35° Gravity)
60' slightly oil cut mud (2% Oil)

Reversed Out Yes No Mud Type Drispac Viscosity 42 Weight 9.2 Water Loss 7.2 cc. Chlorides 4,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make Ser. No.

Dual Packer Yes No Did Packers Hold? Yes No Did Tool Plug? No Where?

DRILLING CONTRACTOR Abercrombie #12 Length Drill Pipe? 3428 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 477 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 264 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 35 Ft.

Remarks:

(TIGHT HOLE)

WESTERN TESTING CO., INC.
Pressure Data

Date 1-10-78

Test Ticket No. 24978

Recorder No. 2608

Capacity 4150

Location 4188 Ft.

Clock No. 6897

Elevation -

Well Temperature 120 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>2052</u>	P.S.I.
B First Initial Flow Pressure	<u>92</u>	P.S.I.
C First Final Flow Pressure	<u>85</u>	P.S.I.
D Initial Closed-in Pressure	<u>152</u>	P.S.I.
E Second Initial Flow Pressure	<u>112</u>	P.S.I.
F Second Final Flow Pressure	<u>114</u>	P.S.I.
G Final Closed-in Pressure	<u>136</u>	P.S.I.
H Final Hydrostatic Mud	<u>2029</u>	P.S.I.

Open Tool
First Flow Pressure
Initial Closed-in Pressure
Second Flow Pressure
Final Closed-in Pressure

Time Given	Time Computed
<u>9:12</u> P M	
<u>30</u> Mins.	<u>30</u> Mins.
<u>60</u> Mins.	<u>57</u> Mins.
<u>90</u> Mins.	<u>90</u> Mins.
<u>60</u> Mins.	<u>60</u> Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

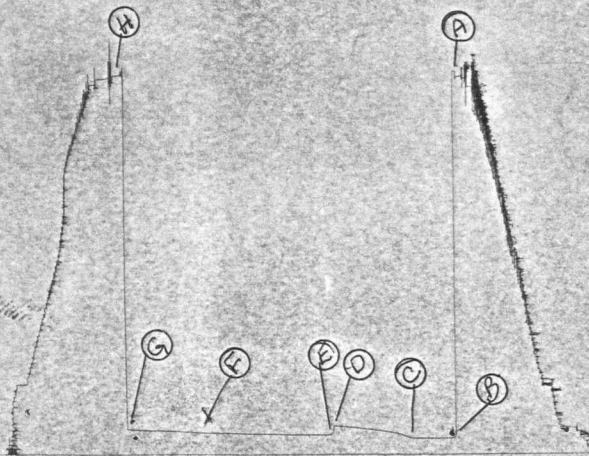
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>92</u>	<u>0</u>	<u>85</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>114</u>
P 2 <u>5</u>	<u>85</u>	<u>3</u>	<u>94</u>	<u>5</u>	<u>104</u>	<u>3</u>	<u>115</u>
P 3 <u>10</u>	<u>85</u>	<u>6</u>	<u>102</u>	<u>10</u>	<u>104</u>	<u>6</u>	<u>117</u>
P 4 <u>15</u>	<u>85</u>	<u>9</u>	<u>109</u>	<u>15</u>	<u>104</u>	<u>9</u>	<u>119</u>
P 5 <u>20</u>	<u>85</u>	<u>12</u>	<u>115</u>	<u>20</u>	<u>104</u>	<u>12</u>	<u>121</u>
P 6 <u>25</u>	<u>85</u>	<u>15</u>	<u>120</u>	<u>25</u>	<u>104</u>	<u>15</u>	<u>122</u>
P 7 <u>30</u>	<u>85</u>	<u>18</u>	<u>124</u>	<u>30</u>	<u>104</u>	<u>18</u>	<u>123</u>
P 8		<u>21</u>	<u>127</u>	<u>35</u>	<u>105</u>	<u>21</u>	<u>124</u>
P 9		<u>24</u>	<u>129</u>	<u>40</u>	<u>108</u>	<u>24</u>	<u>125</u>
P10		<u>27</u>	<u>132</u>	<u>45</u>	<u>109</u>	<u>27</u>	<u>126</u>
P11		<u>30</u>	<u>134</u>	<u>50</u>	<u>110</u>	<u>30</u>	<u>127</u>
P12		<u>33</u>	<u>137</u>	<u>55</u>	<u>110</u>	<u>33</u>	<u>128</u>
P13		<u>36</u>	<u>139</u>	<u>60</u>	<u>111</u>	<u>36</u>	<u>129</u>
P14		<u>39</u>	<u>142</u>	<u>65</u>	<u>112</u>	<u>39</u>	<u>130</u>
P15		<u>42</u>	<u>144</u>	<u>70</u>	<u>112</u>	<u>42</u>	<u>131</u>
P16		<u>45</u>	<u>146</u>	<u>75</u>	<u>113</u>	<u>45</u>	<u>132</u>
P17		<u>48</u>	<u>148</u>	<u>80</u>	<u>114</u>	<u>48</u>	<u>133</u>
P18		<u>51</u>	<u>150</u>	<u>85</u>	<u>114</u>	<u>51</u>	<u>134</u>
P19		<u>54</u>	<u>151</u>	<u>90</u>	<u>114</u>	<u>54</u>	<u>135</u>
P20		<u>57</u>	<u>152</u>			<u>57</u>	<u>136</u>
						<u>60</u>	<u>316</u>

2608

#2

TR# 24978

I.





Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Thomas #2

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 24979

Date 1-11-78 Sec. 12 Twp. 19S Range 29W County Lane State Kansas

Test Approved by Orlin R. Phelps Western Representative Don Leiker

Formation Test No. 3 O.K. - Misrun - Interval Tested From 4092' to 4102' Total Depth 4195'

Size Main Hole 7-7/8 Rat Hole 12 1/4 Conv. - B.T. X Damaged - Yes - No Conv. - B.T. X Damaged - Yes X No

Top Packer Depth 4092 Ft. Size 6-3/4 Bottom Packer Depth 4102 Ft. Size 6-3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 10 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4084 Ft. Clock No. 6897 Depth 4087 Ft. Clock No. 8378

Top Make Kuster Cap. 4150 No. 2608 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3473 ~~Inside~~ Outside

Below Straddle: Depth 4195 Rec. No. Western Clock No. 49 ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 7:12 A M MISRUN

Tool Open I.F.P. From 7:15 M. to 7:45 M. - Hr. 30 Min. From (B) 168 P.S.I. To (C) 180 P.S.I.

Tool Closed I.C.I.P. From 7:45 M. to 8:45 M. 1 Hr. - Min (D) 1564 P.S.I.

Tool Open F.F.P. From 8:45 M. to 8:53 M. - Hr. 8 Min. From (E) - P.S.I. To (F) - P.S.I.

Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.

Initial Hydrostatic Pressure (A) 1987 P.S.I. Final Hydrostatic Pressure (H) 1975 P.S.I. Maximum Temp. -

INFORMATION

BLOW Good blow on Initial flow period. Slid tool 6' to bottom - No blow on Final flow period. Flushed tool in 6 minutes. Packer Failed.

Did Well Flow - Yes X No Recovery Total Fr. 690' Mud

Reversed Out - Yes X No Mud Type Drispac Viscosity 42 Weight 9.2 Water Loss 7.2 cc. Chlorides 4,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? No Did Tool Plug? - Where? -

DRILLING CONTRACTOR Abercrombie #12 Length Drill Pipe? 3428 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 477 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 264 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 63 Ft.

Remarks:

(TIGHT HOLE)

WESTERN TESTING CO., INC.

Pressure Data

Date 1-11-78

Test Ticket No. 24979

Recorder No. 2608 Capacity 4150 Location 4084 Ft.

Clock No. 6897 Elevation - Well Temperature - °F

Point	Pressure		Open Tool	Time Given	Time Computed
		P.S.I.			
A Initial Hydrostatic Mud	1987	P.S.I.	Open Tool	7:12 A M	
B First Initial Flow Pressure	168	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	180	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1564	P.S.I.	Second Flow Pressure	- Mins.	- Mins.
E Second Initial Flow Pressure	-	P.S.I.	Final Closed-in Pressure	- Mins.	- Mins.
F Second Final Flow Pressure	-	P.S.I.			
G Final Closed-in Pressure	-	P.S.I.			
H Final Hydrostatic Mud	1975	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In

Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure

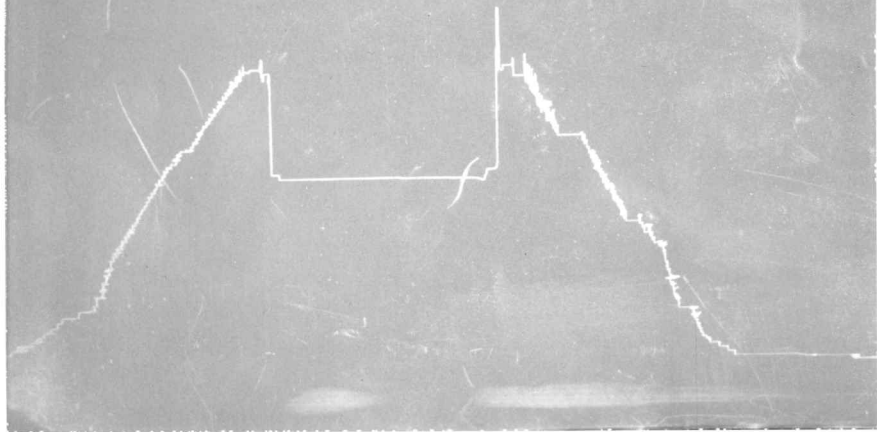
Breakdown: - Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In

Breakdown: - Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 <u>0</u>	<u>168</u>	<u>0</u>	<u>180</u>					
P 2 <u>5</u>	<u>173</u>	<u>3</u>	<u>491</u>					
P 3 <u>10</u>	<u>178</u>	<u>6</u>	<u>770</u>					
P 4 <u>15</u>	<u>178</u>	<u>9</u>	<u>934</u>					
P 5 <u>20</u>	<u>179</u>	<u>12</u>	<u>1031</u>					
P 6 <u>25</u>	<u>179</u>	<u>15</u>	<u>1105</u>					
P 7 <u>30</u>	<u>180</u>	<u>18</u>	<u>1166</u>					
P 8		<u>21</u>	<u>1214</u>					
P 9		<u>24</u>	<u>1259</u>					
P10		<u>27</u>	<u>1302</u>					
P11		<u>30</u>	<u>1346</u>					
P12		<u>33</u>	<u>1394</u>					
P13		<u>36</u>	<u>1431</u>					
P14		<u>39</u>	<u>1459</u>					
P15		<u>42</u>	<u>1483</u>					
P16		<u>45</u>	<u>1500</u>					
P17		<u>48</u>	<u>1516</u>					
P18		<u>51</u>	<u>1531</u>					
P19		<u>54</u>	<u>1544</u>					
P20		<u>57</u>	<u>1555</u>					
		<u>60</u>	<u>1564</u>					

TKT # 24979
Below Straddle

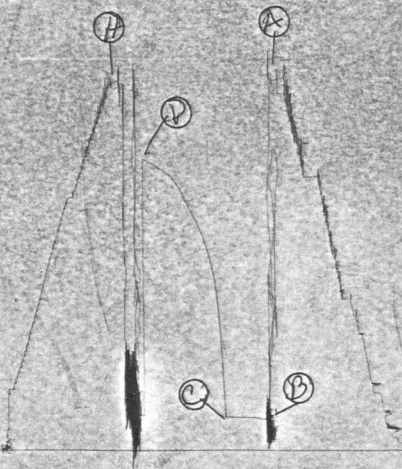


2608

#3

TKT # 24979

I.





Home Office: Wichita, Kansas 67201
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Company Abercrombie Drilling, Inc. Lease & Well No. Thomas #2
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 24980
 Date 1-12-78 Sec. 12 Twp. 19S Range 29W County Lane State Kansas
 Test Approved by Orlin R. Phelps Western Representative Don Leiker

Formation Test No. 4 O.K. Misrun - Interval Tested From 4222' to 4244' Total Depth 4244'
 Size Main Hole 7-7/8" Hole 12 1/4" Conv. B.T. Damaged - Yes No Conv. B.T. Damaged - Yes No
 Top Packer Depth 4217 Ft. Size 6-3/4 Bottom Packer Depth 4222 Ft. Size 6-3/4
 Straddle Conv. B.T. Damaged - Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 22 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4236 Ft. Clock No. 6897 Inside Depth 4239 Ft. Clock No. 8378 Inside
 Top Make Kuster Cap. 4150 No. 2608 Outside Bottom Make Kuster Cap. 4000 No. 3473 Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - Outside

Time Set Packer 6:42 A M
 Tool Open I.F.P. From 6:45 M. to 7:15 M. - Hr. 30 Min. From (B) 73 P.S.I. To (C) 54 P.S.I.
 Tool Closed I.C.I.P. From 7:15 M. to 8:15 M. 1 Hr. - Min (D) 1207 P.S.I.
 Tool Open F.F.P. From 8:15 M. to 9:45 M. 1 Hr. 30 Min. From (E) 87 P.S.I. To (F) 96 P.S.I.
 Tool Closed F.C.I.P. From 9:45 M. to 10:45 M. 1 Hr. - Min. (G) 1183 P.S.I.
 Initial Hydrostatic Pressure (A) 2046 P.S.I. Final Hydrostatic Pressure (H) 2021 P.S.I. Maximum Temp. 125

INFORMATION

BLOW Good blow during Initial flow period. Released surface pressure. No blow on Final
flow period. Flushed tool in 4 minutes. Weak blow for remainder
 Did Well Flow - Yes No Recovery Total Ft. 5' Heavy Oil Cut Mud - 30' Slightly Oil Cut Mud
100' Water with trace of Oil (Chlorides 10,000 P.P.M.)
15' Very Heavy Oil Cut Mud.

Reversed Out - Yes No Mud Type Drispac Viscosity 57 Weight 9.1 Water Loss 9.6 cc. Chlorides 11,000 P.P.M.
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -
 Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie #12 Length Drill Pipe? 3491 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe 437 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 264 Ft. I.D. Drill Collars 2.25 In.
 Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 40 Ft.

Remarks:

TIGHT HOLE

WESTERN TESTING CO., INC.

Pressure Data

Date 1-12-78 Test Ticket No. 24980
 Recorder No. 2608 Capacity 4150 Location 4236 Ft.
 Clock No. 6897 Elevation - Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2046</u>	P.S.I.	<u>6:42</u>	<u>A M</u>
B First Initial Flow Pressure	<u>73</u>	P.S.I.	<u>30</u>	<u>Mins. 30 Mins.</u>
C First Final Flow Pressure	<u>54</u>	P.S.I.	<u>60</u>	<u>Mins. 60 Mins.</u>
D Initial Closed-in Pressure	<u>1207</u>	P.S.I.	<u>90</u>	<u>Mins. 90 Mins.</u>
E Second Initial Flow Pressure	<u>87</u>	P.S.I.	<u>60</u>	<u>Mins. 60 Mins.</u>
F Second Final Flow Pressure	<u>96</u>	P.S.I.		
G Final Closed-in Pressure	<u>1183</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2021</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 18 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

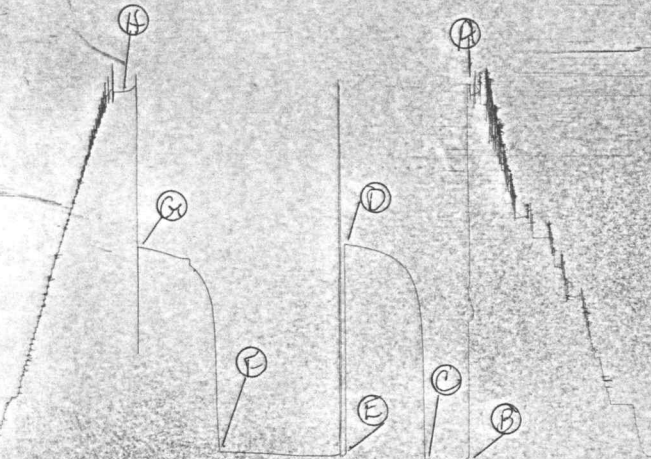
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>73</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>87</u>	<u>0</u>	<u>96</u>
P 2 <u>5</u>	<u>59</u>	<u>3</u>	<u>729</u>	<u>5</u>	<u>84</u>	<u>3</u>	<u>425</u>
P 3 <u>10</u>	<u>57</u>	<u>6</u>	<u>909</u>	<u>10</u>	<u>77</u>	<u>6</u>	<u>890</u>
P 4 <u>15</u>	<u>54</u>	<u>9</u>	<u>987</u>	<u>15</u>	<u>77</u>	<u>9</u>	<u>969</u>
P 5 <u>20</u>	<u>54</u>	<u>12</u>	<u>1039</u>	<u>20</u>	<u>77</u>	<u>12</u>	<u>1014</u>
P 6 <u>25</u>	<u>54</u>	<u>15</u>	<u>1071</u>	<u>25</u>	<u>77</u>	<u>15</u>	<u>1050</u>
P 7 <u>30</u>	<u>54</u>	<u>18</u>	<u>1096</u>	<u>30</u>	<u>77</u>	<u>18</u>	<u>1071</u>
P 8		<u>21</u>	<u>1116</u>	<u>35</u>	<u>77</u>	<u>21</u>	<u>1089</u>
P 9		<u>24</u>	<u>1130</u>	<u>40</u>	<u>78</u>	<u>24</u>	<u>1125</u>
P10		<u>27</u>	<u>1143</u>	<u>45</u>	<u>80</u>	<u>27</u>	<u>1125</u>
P11		<u>30</u>	<u>1154</u>	<u>50</u>	<u>84</u>	<u>30</u>	<u>1131</u>
P12		<u>33</u>	<u>1162</u>	<u>55</u>	<u>85</u>	<u>33</u>	<u>1139</u>
P13		<u>36</u>	<u>1170</u>	<u>60</u>	<u>86</u>	<u>36</u>	<u>1145</u>
P14		<u>39</u>	<u>1178</u>	<u>65</u>	<u>88</u>	<u>39</u>	<u>1153</u>
P15		<u>42</u>	<u>1183</u>	<u>70</u>	<u>89</u>	<u>42</u>	<u>1159</u>
P16		<u>45</u>	<u>1188</u>	<u>75</u>	<u>92</u>	<u>45</u>	<u>1166</u>
P17		<u>48</u>	<u>1193</u>	<u>80</u>	<u>94</u>	<u>48</u>	<u>1170</u>
P18		<u>51</u>	<u>1199</u>	<u>85</u>	<u>96</u>	<u>51</u>	<u>1174</u>
P19		<u>54</u>	<u>1201</u>	<u>90</u>	<u>96</u>	<u>54</u>	<u>1179</u>
P20		<u>57</u>	<u>1205</u>			<u>57</u>	<u>1182</u>
		<u>60</u>	<u>1207</u>			<u>60</u>	<u>1183</u>

2608

IIY

TK# 24980

I.





Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Thomas #2
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 24981
 Date 1-13-78 Sec. 12 Twp. 19S Range 29W County Lane State Kansas
 Test Approved by Orlin R. Phelps Western Representative Don Leiker

Formation Test No. 5 O.K. Misrun Interval Tested From 4277' to 4290' Total Depth 4290'
 Size Main Hole 7-7/8 Rat Hole 12 1/4 Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4272 Ft. Size 6-3/4 Bottom Packer Depth 4277 Ft. Size 6-3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 13 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4282 Ft. Clock No. 6897 Depth 4285 Ft. Clock No. 8378
 Top Make Kuster Cap. 4150 No. 2608 ~~Outside~~ ^{Inside} Bottom Make Kuster Cap. 4000 No. 3473 ~~Inside~~ ^{Outside}
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Outside~~ ^{Inside} Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ ^{Outside}

Time Set Packer 1:12 A M
 Tool Open I.F.P. From 1:15 M. to 1:45 M. - Hr. 30 Min. From (B) 300 P.S.I. To (C) 1011 P.S.I.
 Tool Closed I.C.I.P. From 1:45 M. to 2:45 M. 1 Hr. - Min (D) 1235 P.S.I.
 Tool Open F.F.P. From 2:45 M. to 3:45 M. 1 Hr. - Min. From (E) 1097 P.S.I. To (F) 1240 P.S.I.
 Tool Closed F.C.I.P. From 3:45 M. to 4:45 M. 1 Hr. - Min. (G) 1255 P.S.I.
 Initial Hydrostatic Pressure (A) 2065 P.S.I. Final Hydrostatic Pressure (H) 2042 P.S.I. Maximum Temp. 131°

INFORMATION

BLOW Strong blow decreasing on Final Flow Period.

Did Well Flow - Yes No Recovery Total Ft. 2731' Sulfur Water
(32,000 P.P.M. Chlorides)
(Reverse Circ)

Reversed Out Yes No Mud Type Drispac Viscosity 51 Weight 9.1 Water Loss 8.8 cc. Chlorides 12,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

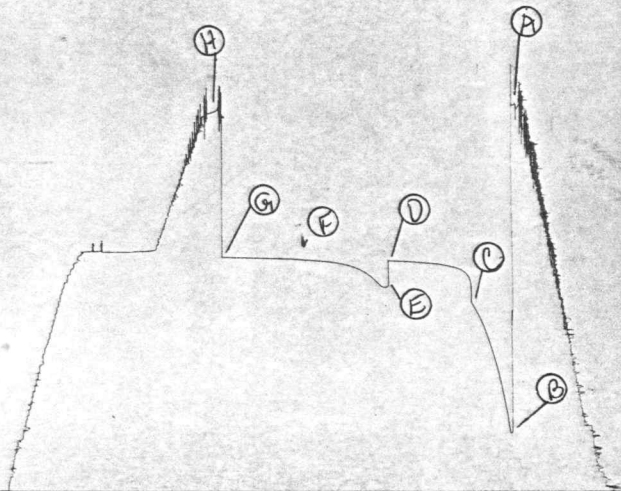
DRILLING CONTRACTOR Abercrombie #12 Length Drill Pipe? 3522 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe 437 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 214 Ft. I.D. Drill Collars 2.25 In.
 Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 31 Ft.

Remarks:

(TIGHT HOLE)

2608
#5

TKT # 24981
I.



WESTERN TESTING CO., INC.
Pressure Data

Date 1-13-78 Test Ticket No. 24981
 Recorder No. 2608 Capacity 4150 Location 4282 Ft.
 Clock No. 6897 Elevation - Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2065 P.S.I.	Open Tool	1:12 A M	
B First Initial Flow Pressure	300 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	1011 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1235 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	1097 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	1240 P.S.I.			
G Final Closed-in Pressure	1255 P.S.I.			
H Final Hydrostatic Mud	2042 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	300	0	1011	0	1097	0	1240
P 2	5	477	3	1158	5	1096	3	1243
P 3	10	640	6	1180	10	1131	6	1244
P 4	15	768	9	1192	15	1164	9	1246
P 5	20	878	12	1199	20	1185	12	1247
P 6	25	961	15	1205	25	1201	15	1247
P 7	30	1011	18	1210	30	1212	18	1248
P 8			21	1215	35	1221	21	1249
P 9			24	1218	40	1228	24	1250
P10			27	1220	45	1232	27	1250
P11			30	1222	50	1234	30	1250
P12			33	1224	55	1238	33	1250
P13			36	1226	60	1240	36	1251
P14			39	1228			39	1251
P15			42	1230			42	1252
P16			45	1231			45	1252
P17			48	1232			48	1252
P18			51	1233			51	1252
P19			54	1234			54	1253
P20			57	1234			57	1255
WTC - 4			60	1235			60	1255



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Thomas #2
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 24982
 Date 1-13-78 Sec. 12 Twp. 19S Range 29W County Lane State KS
 Test Approved by Orlin R. Phelps Western Representative Don Leiker

Formation Test No. 6 O.K. Misrun Interval Tested From 4316' to 4330' Total Depth 4330'
 Size Main Hole 7 7/8 Rat Hole 12 1/4 Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth - Ft. Size 6 3/4 Bottom Packer Depth 4316 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 14 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4321 Ft. Clock No. 6897 Depth 4324 Ft. Clock No. 8378
 Top Make Kuster Cap. 4150 No. 2608 Inside Outside Bottom Make Kuster Cap. 4000 No. 3473 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 7:42 P. M
 Tool Open I.F.P. From 7:45P M. to 8:15P M. - Hr. 30 Min. From (B) 57 P.S.I. To (C) 324 P.S.I.
 Tool Closed I.C.I.P. From 8:15P M. to 9:15P M. - Hr. 60 Min (D) 1166 P.S.I.
 Tool Open F.F.P. From 9:15P M. to 10:45P M. - Hr. 90 Min. From (E) 383 P.S.I. To (F) 740 P.S.I.
 Tool Closed F.C.I.P. From 10:45P M. to 11:45P M. - Hr. 60 Min. (G) 980 P.S.I.
 Initial Hydrostatic Pressure (A) 2082 P.S.I. Final Hydrostatic Pressure (H) 2032 P.S.I. Maximum Temp. 122

INFORMATION

BLOW Strong blow throughout test
 Did Well Flow - Yes No Recovery Total Ft. 300' gas, 2100' clean gassy oil (36 gravity)

Reversed Out - Yes No Mud Type Driscac Viscosity 45 Weight 9.0 Water Loss 9.6 cc. Chlorides 14,000 PPM
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size - In. Make - Ser. No. -
 Dual Packer No Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie Rig #12 Length Drill Pipe? 3554 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe 437 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 214 Ft. I.D. Drill Collars 2.25 In.
 Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 27 Ft.

Remarks:
 TIGHT HOLE

WESTERN TESTING CO., INC.

Pressure Data

Date 1-13-78 Test Ticket No. 24982
 Recorder No. 2608 Capacity 4150 Location 4321 Ft.
 Clock No. 6897 Elevation - Well Temperature 122 °F

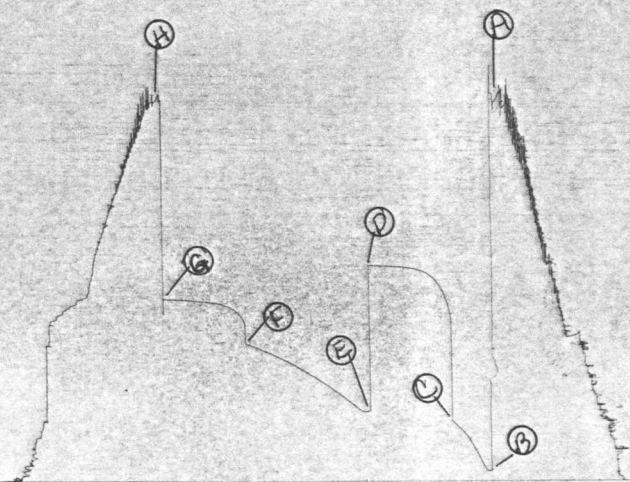
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2082	P.S.I.	7.42P	M
B First Initial Flow Pressure	57	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	324	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1166	P.S.I.	90	Mins. 90 Mins.
E Second Initial Flow Pressure	383	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	740	P.S.I.		
G Final Closed-in Pressure	980	P.S.I.		
H Final Hydrostatic Mud	2032	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In		
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>20</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>0</u> Min.		final inc. of <u>0</u> Min.		
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	57	0	324	0	383	0	740
P 2	5	74	3	935	5	377	3	885
P 3	10	140	6	1002	10	399	6	911
P 4	15	207	9	1051	15	429	9	929
P 5	20	256	12	1083	20	456	12	940
P 6	25	295	15	1106	25	483	15	948
P 7	30	324	18	1122	30	510	18	954
P 8			21	1133	35	532	21	959
P 9			24	1141	40	558	24	962
P 10			27	1146	45	580	27	964
P 11			30	1151	50	602	30	966
P 12			33	1154	55	625	33	968
P 13			36	1156	60	644	36	970
P 14			39	1158	65	661	39	972
P 15			42	1159	70	680	42	974
P 16			45	1161	75	696	45	975
P 17			48	1161	80	711	48	977
P 18			51	1162	85	727	51	978
P 19			54	1164	90	740	54	979
P 20			57	1165			57	980
			60	1166			60	980

2408
#6

TKT # 24982.
I.





Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Thomas #2

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 24983

Date 1-14-78 Sec. 12 Twp. 19S Range 29W County Lane State Kansas

Test Approved by Orlin R. Phelps Western Representative Don Leiker

Formation Test No. 7 O.K. Misrun Interval Tested From 4364' to 4379' Total Depth 4379'

Size Main Hole 7 7/8 Rat Hole 12 1/4 Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4359 Ft. Size 6 3/4 Bottom Packer Depth 4364 Ft. Size 6 3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 15 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4370 Ft. Clock No. 6897 Depth 4373 Ft. Clock No. 8378

Top Make Kuster Cap. 4150 No. 2608 Inside Outside Bottom Make Kuster Cap. 4000 No. 3473 Inside Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 2:57P M

Tool Open I.F.P. From 3:00 M. to 3:30 M. - Hr. 30 Min. From (B) 73 P.S.I. To (C) 294 P.S.I.

Tool Closed I.C.I.P. From 3:30 M. to 4:30 M. - Hr. 60 Min (D) 1251 P.S.I.

Tool Open F.F.P. From 4:30 M. to 5:30 M. - Hr. 60 Min. From (E) 366 P.S.I. To (F) 597 P.S.I.

Tool Closed F.C.I.P. From 5:30 M. to 6:30 M. - Hr. 60 Min. (G) 1227 P.S.I.

Initial Hydrostatic Pressure (A) 2114 P.S.I. Final Hydrostatic Pressure (H) 2083 P.S.I. Maximum Temp. 122

INFORMATION

BLOW Strong blow, gas to surface in 15 minutes of final flow period.

Did Well Flow Yes No Recovery Total Ft. 1580' clean gassy oil, (37 gravity)
120' muddy gassy oil.

Reversed Out Yes No Mud Type Drispa Viscosity 44 Weight 8.8 Water Loss 8.0 cc. Chlorides 12,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie #12 Length Drill Pipe? 3616 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 437 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 214 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 33 Ft.

Remarks: TIGHT HOLE

WESTERN TESTING CO., INC.
Pressure Data

Date 1-14-78 Test Ticket No. 24983
 Recorder No. 2608 Capacity 4150 Location 4370 Ft.
 Clock No. 6897 Elevation - Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2114</u> P.S.I.	Open Tool	<u>2:57P</u> M	
B First Initial Flow Pressure	<u>73</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>294</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1251</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>366</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>597</u> P.S.I.			
G Final Closed-in Pressure	<u>1227</u> P.S.I.			
H Final Hydrostatic Mud	<u>2083</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

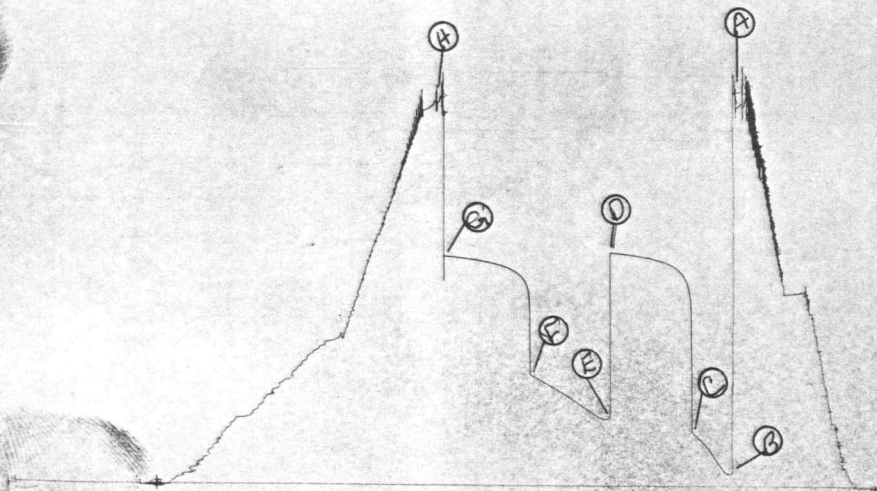
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 21 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> <u>73</u>	<u>0</u> <u>294</u>	<u>0</u> <u>366</u>	<u>0</u> <u>597</u>			
P 2	<u>5</u> <u>73</u>	<u>3</u> <u>1063</u>	<u>5</u> <u>360</u>	<u>3</u> <u>1071</u>			
P 3	<u>10</u> <u>117</u>	<u>6</u> <u>1118</u>	<u>10</u> <u>375</u>	<u>6</u> <u>1118</u>			
P 4	<u>15</u> <u>173</u>	<u>9</u> <u>1148</u>	<u>15</u> <u>400</u>	<u>9</u> <u>1134</u>			
P 5	<u>20</u> <u>221</u>	<u>12</u> <u>1167</u>	<u>20</u> <u>425</u>	<u>12</u> <u>1150</u>			
P 6	<u>25</u> <u>260</u>	<u>15</u> <u>1180</u>	<u>25</u> <u>450</u>	<u>15</u> <u>1161</u>			
P 7	<u>30</u> <u>294</u>	<u>18</u> <u>1190</u>	<u>30</u> <u>473</u>	<u>18</u> <u>1171</u>			
P 8	<u> </u> <u> </u>	<u>21</u> <u>1200</u>	<u>35</u> <u>497</u>	<u>21</u> <u>1178</u>			
P 9	<u> </u> <u> </u>	<u>24</u> <u>1207</u>	<u>40</u> <u>517</u>	<u>24</u> <u>1184</u>			
P10	<u> </u> <u> </u>	<u>27</u> <u>1214</u>	<u>45</u> <u>539</u>	<u>27</u> <u>1188</u>			
P11	<u> </u> <u> </u>	<u>30</u> <u>1219</u>	<u>50</u> <u>560</u>	<u>30</u> <u>1195</u>			
P12	<u> </u> <u> </u>	<u>33</u> <u>1224</u>	<u>55</u> <u>580</u>	<u>33</u> <u>1199</u>			
P13	<u> </u> <u> </u>	<u>36</u> <u>1229</u>	<u>60</u> <u>597</u>	<u>36</u> <u>1203</u>			
P14	<u> </u> <u> </u>	<u>39</u> <u>1233</u>	<u> </u> <u> </u>	<u>39</u> <u>1207</u>			
P15	<u> </u> <u> </u>	<u>42</u> <u>1236</u>	<u> </u> <u> </u>	<u>42</u> <u>1210</u>			
P16	<u> </u> <u> </u>	<u>45</u> <u>1239</u>	<u> </u> <u> </u>	<u>45</u> <u>1213</u>			
P17	<u> </u> <u> </u>	<u>48</u> <u>1242</u>	<u> </u> <u> </u>	<u>48</u> <u>1215</u>			
P18	<u> </u> <u> </u>	<u>51</u> <u>1244</u>	<u> </u> <u> </u>	<u>51</u> <u>1218</u>			
P19	<u> </u> <u> </u>	<u>54</u> <u>1246</u>	<u> </u> <u> </u>	<u>54</u> <u>1221</u>			
P20	<u> </u> <u> </u>	<u>57</u> <u>1249</u>	<u> </u> <u> </u>	<u>57</u> <u>1224</u>			
	<u> </u> <u> </u>	<u>60</u> <u>1251</u>	<u> </u> <u> </u>	<u>60</u> <u>1226</u>			
	<u> </u> <u> </u>	<u> </u> <u> </u>	<u> </u> <u> </u>	<u>63</u> <u>1227</u>			

2608
#7

TKT# 24983
I.





Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Thomas #2
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 24984
 Date 1-15-78 Sec. 12 Twp. 19S Range 29W County Lane State Kansas
 Test Approved by Orlin R. Phelps Western Representative Don Leiker
 Formation Test No. 8 O.K. Misrun Interval Tested From 4382' to 4400' Total Depth 4400'
 Size Main Hole 7 7/8 Rat Hole 12 1/4 Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4377 Ft. Size 6 3/4 Bottom Packer Depth 4382 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth = Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 18 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 4391 Ft. Clock No. 6897 Depth 4394 Ft. Clock No. 8378
 Top Make Kuster Cap. 4150 No. 2608 Inside Outside Bottom Make Kuster Cap. 4000 No. 3473 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
 Time Set Packer 8:42A M
 Tool Open I.F.P. From 8:45 M. to 9:15 M. - Hr. 30 Min. From (B) 43 P.S.I. To (C) 35 P.S.I.
 Tool Closed I.C.I.P. From 9:15 M. to 10:15 M. - Hr. 60 Min (D) 35 P.S.I.
 Tool Open F.F.P. From 10:15 M. to 11:45 M. - Hr. 90 Min. From (E) 35 P.S.I. To (F) 35 P.S.I.
 Tool Closed F.C.I.P. From 11:45 M. to 12:45 M. - Hr. 60 Min. (G) 38 P.S.I.
 Initial Hydrostatic Pressure (A) 2125 P.S.I. Final Hydrostatic Pressure (H) 2081 P.S.I. Maximum Temp. 122

INFORMATION

BLOW Weak steady blow throughout test.
 Did Well Flow - Yes No Recovery Total Ft. 45' very slight oil cut mud.
 Reversed Out - Yes No Mud Type Drispac Viscosity 56 Weight 8.7 Water Loss 6.8 cc. Chlorides 11,000 ppm
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -
 Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -
 DRILLING CONTRACTOR Abercrombie #12 Length Drill Pipe? 3647 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe 437 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 214 Ft. I.D. Drill Collars 2.25 In.
 Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 36 Ft.
 Remarks: TIGHT HOLE

WESTERN TESTING CO., INC.
Pressure Data

Date 1-15-78 Test Ticket No. 24984
 Recorder No. 2608 Capacity 4150 Location 4391 Ft.
 Clock No. 6897 Elevation - Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2125 P.S.I.	Open Tool	8:42A M	
B First Initial Flow Pressure	43 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	35 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	35 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	35 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	35 P.S.I.			
G Final Closed-in Pressure	38 P.S.I.			
H Final Hydrostatic Mud	2081 P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</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.	Point Minutes
P 1	43	0	35	0	35	0	35	0
P 2	37	3	35	3	35	5	36	3
P 3	37	6	35	6	35	10	36	6
P 4	37	9	35	9	35	15	37	9
P 5	35	12	35	12	35	20	38	12
P 6	35	15	35	15	35	25	38	15
P 7	35	18	35	18	35	30	38	18
P 8		21	35	21	35	35	38	21
P 9		24	35	24	35	40	38	24
P10		27	35	27	35	45	38	27
P11		30	35	30	35	50	38	30
P12		33	35	33	35	55	38	33
P13		36	35	36	35	60	38	36
P14		39	35	39	35	65	38	39
P15		42	35	42	35	70	38	42
P16		45	35	45	35	75	38	45
P17		48	35	48	35	80	38	48
P18		51	35	51	35	85	38	51
P19		54	35	54	35	90	38	54
P20		57	35	57			38	57
		60	35	60			38	60

2608
#8

TKT # 24984

I.

