



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

Company Abercrombie Drilling Inc. Lease & Well No. Smith Estate #1
Elevation Not Available Formation Viola Effective Pay --- Ft. Ticket No. 18181
Date 12-8-73 Sec. 29 Twp. 33S Range 12W County Barber State Kansas
Test Approved by Robert E. McCann Western Representative Forrest Purnell

Formation Test No. 1 O.K. Misrun Interval Tested From 4784' to 4817' Total Depth 4817'
Size Main Hole 7 7/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4779 Ft. Size 6 3/4" Bottom Packer Depth 4784 Ft. Size 6 3/4"
Straddle No 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 33 Ft. Size 5 1/2" OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4794 Ft. Clock No. 8476 Depth 4797 Ft. Clock No. 9102
Top Make Kuster Cap. 4150 No. 969 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 8:13 A. M.
Tool Open I.F.P. From 8:15 M. to 8:45 A.M. Hr. 30 Min. From (B) 51 P.S.I. To (C) 51 P.S.I.
Tool Closed I.C.I.P. From 8:45 M. to 9:15 A.M. Hr. 30 Min (D) 260 P.S.I.
Tool Open F.F.P. From 9:15 M. to 9:45 A.M. Hr. 30 Min. From (E) 57 P.S.I. To (F) 57 P.S.I.
Tool Closed F.C.I.P. From 9:45 M. to 10:15 A.M. Hr. 30 Min. (G) 204 P.S.I.
Initial Hydrostatic Pressure (A) 2527 P.S.I. Final Hydrostatic Pressure (H) 2527 P.S.I. Maximum Temp. 125

INFORMATION

BLOW Fair to weak blow throughout test

Did Well Flow Yes No Recovery Total Ft. Gas in pipe at 480 feet 105 feet of gassy very
slightly oil cut mud 30 feet gas cut thin mud with slight show of oil.
Total Fluid 135 feet

Reversed Out Yes No Mud Type Salt Viscosity 49 Weight --- Water Loss --- cc. Chlorides ---
EXTRA EQUIPMENT: Type Circ. Sub. Safety Joint No Jars: Size --- In. Make --- Ser. No. ---
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? ---

DRILLING CONTRACTOR --- Length Drill Pipe? 4343 Ft. I.D. Drill Pipe --- In. Tool Joint Size --- In.
Length Weight Pipe 420 Ft. I.D. Weight Pipe --- In. Tool Joint Size --- In. Length Drill Collars --- Ft. I.D. Drill Collars --- In.
Tool Joint Size --- In. Length D.S.T. Tool 54 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date December 8, 1973

Test Ticket No. 18181

Recorder No. 969 Capacity 4150

Location 4794 Ft.

Clock No. 8476 Elevation Not Available

Well Temperature 125 °F

Point	Pressure		Time	
			Given	Computed
A Initial Hydrostatic Mud	<u>2527</u>	P.S.I.	<u>8:13</u>	<u>A. M.</u>
B First Initial Flow Pressure	<u>51</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>51</u>	P.S.I.	<u>30</u>	Mins. <u>29</u> Mins.
D Initial Closed-in Pressure	<u>260</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>57</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
F Second Final Flow Pressure	<u>57</u>	P.S.I.		
G Final Closed-in Pressure	<u>204</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2527</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: 9 Inc.
of 3 mins. and a
final inc. of 2 Min.

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

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Initial Shut-In		Second Flow Pressure		Final Shut-In	
		Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>51</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>57</u>	<u>0</u>	<u>57</u>
P 2 <u>5</u>	<u>51</u>	<u>3</u>	<u>67</u>	<u>5</u>	<u>57</u>	<u>3</u>	<u>69</u>
P 3 <u>10</u>	<u>51</u>	<u>6</u>	<u>79</u>	<u>10</u>	<u>57</u>	<u>6</u>	<u>83</u>
P 4 <u>15</u>	<u>51</u>	<u>9</u>	<u>95</u>	<u>15</u>	<u>57</u>	<u>9</u>	<u>97</u>
P 5 <u>20</u>	<u>51</u>	<u>12</u>	<u>112</u>	<u>20</u>	<u>57</u>	<u>12</u>	<u>108</u>
P 6 <u>25</u>	<u>51</u>	<u>15</u>	<u>137</u>	<u>25</u>	<u>57</u>	<u>15</u>	<u>118</u>
P 7 <u>30</u>	<u>51</u>	<u>18</u>	<u>157</u>	<u>30</u>	<u>57</u>	<u>18</u>	<u>133</u>
P 8 _____	_____	<u>21</u>	<u>182</u>	_____	_____	<u>21</u>	<u>145</u>
P 9 _____	_____	<u>24</u>	<u>206</u>	_____	_____	<u>24</u>	<u>163</u>
P10 _____	_____	<u>27</u>	<u>240</u>	_____	_____	<u>27</u>	<u>178</u>
P11 _____	_____	<u>29</u>	<u>260</u>	_____	_____	<u>30</u>	<u>204</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



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Company Abercrombie Drilling Inc. Lease & Well No. Smith Estate #1
 Elevation Not Available Formation Simpson Effective Pay --- Ft. Ticket No. 18182
 Date 12-9-73 Sec. 29 Twp. 33S Range 12W County Barber State Kansas
 Test Approved by Robert E. McCann Western Representative Forrest Purnell

Formation Test No. 2 O.K. Misrun Interval Tested From 4869' to 4884' Total Depth 4884'
 Size Main Hole 87/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4864 Ft. Size 6 3/4" Bottom Packer Depth 4869 Ft. Size 6 3/4"
 Straddle No 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 4874 Ft. Clock No. 8476 Depth 4877 Ft. Clock No. 9102
 Top Make Kuster Cap. 4150 No. 969 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 8:13 A. M
 Tool Open I.F.P. From 8:15 M. to 8:45 A.M. Hr. 30 Min. From (B) 20 P.S.I. To (C) 20 P.S.I.
 Tool Closed I.C.I.P. From 8:45 M. to 9:15 A.M. Hr. 30 Min (D) 117 P.S.I.
 Tool Open F.F.P. From 9:15 M. to 10:15 A.M. Hr. 60 Min. From (E) 30 P.S.I. To (F) 32 P.S.I.
 Tool Closed F.C.I.P. From 10:15 M. to 11:00 A.M. Hr. 45 Min. (G) 167 P.S.I.
 Initial Hydrostatic Pressure (A) 2591 P.S.I. Final Hydrostatic Pressure (H) 2559 P.S.I. Maximum Temp. 129

INFORMATION

BLOW Weak Blow throughout Initial Flow Period increase to Fair Blow throughout Final Flow Period

Did Well Flow Yes No Recovery Total Ft. 60 feet of slightly oil cut mud

Reversed Out Yes No Mud Type Salt Viscosity 52 Weight 9.9 Water Loss 80 8.0 cc. Chlorides ---

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

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

DRILLING CONTRACTOR --- Length Drill Pipe? 4429 Ft. I.D. Drill Pipe --- In. Tool Joint Size --- In.

Length Weight Pipe 420 Ft. I.D. Weight Pipe 3.8 In. Tool Joint Size --- In. Length Drill Collars --- Ft. I.D. Drill Collars --- In.

Tool Joint Size --- In. Length D.S.T. Tool 35 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date December 9, 1973

Test Ticket No. 18182

Recorder No. 969 Capacity 4150 Location 4874 Ft.

Clock No. 8476 Elevation Not Available Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2591</u> P.S.I.	Open Tool	<u>8:13</u> A. M.	
B First Initial Flow Pressure	<u>20</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>20</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>117</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>30</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>32</u> P.S.I.			
G Final Closed-in Pressure	<u>167</u> P.S.I.			
H Final Hydrostatic Mud	<u>2559</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: 10 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: 15 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> 20	<u>0</u> 20	<u>0</u> 20	<u>0</u> 30	<u>0</u> 32	<u>0</u> 32	<u>0</u> 32
P 2	<u>5</u> 20	<u>3</u> 22	<u>5</u> 28	<u>5</u> 28	<u>3</u> 33	<u>3</u> 33	<u>3</u> 33
P 3	<u>10</u> 20	<u>6</u> 28	<u>10</u> 26	<u>10</u> 26	<u>6</u> 40	<u>6</u> 40	<u>6</u> 40
P 4	<u>15</u> 20	<u>9</u> 36	<u>15</u> 23	<u>15</u> 23	<u>9</u> 46	<u>9</u> 46	<u>9</u> 46
P 5	<u>20</u> 20	<u>12</u> 46	<u>20</u> 23	<u>20</u> 23	<u>12</u> 55	<u>12</u> 55	<u>12</u> 55
P 6	<u>25</u> 20	<u>15</u> 57	<u>25</u> 26	<u>25</u> 26	<u>15</u> 64	<u>15</u> 64	<u>15</u> 64
P 7	<u>30</u> 20	<u>18</u> 67	<u>30</u> 28	<u>30</u> 28	<u>18</u> 71	<u>18</u> 71	<u>18</u> 71
P 8		<u>21</u> 79	<u>35</u> 32	<u>35</u> 32	<u>21</u> 81	<u>21</u> 81	<u>21</u> 81
P 9		<u>24</u> 85	<u>40</u> 32	<u>40</u> 32	<u>24</u> 92	<u>24</u> 92	<u>24</u> 92
P10		<u>27</u> 100	<u>45</u> 32	<u>45</u> 32	<u>27</u> 100	<u>27</u> 100	<u>27</u> 100
P11		<u>30</u> 117	<u>50</u> 32	<u>50</u> 32	<u>30</u> 108	<u>30</u> 108	<u>30</u> 108
P12			<u>55</u> 32	<u>55</u> 32	<u>33</u> 118	<u>33</u> 118	<u>33</u> 118
P13			<u>60</u> 32	<u>60</u> 32	<u>36</u> 129	<u>36</u> 129	<u>36</u> 129
P14					<u>39</u> 140	<u>39</u> 140	<u>39</u> 140
P15					<u>42</u> 153	<u>42</u> 153	<u>42</u> 153
P16					<u>45</u> 167	<u>45</u> 167	<u>45</u> 167
P17							
P18							
P19							
P20							



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Company Abercrombie Drilling Inc. Lease & Well No. Smith Estate #1
 Elevation Not Available Formation Simpson Effective Pay --- Ft. Ticket No. 18183
 Date 12-10-73 Sec. 29 Twp. 33S Range 12W County Barber State Kansas
 Test Approved by Robert E. McCann Western Representative Forrest Funnell

Formation Test No. 3 O.K. Misrun Interval Tested From 4869' to 4889' Total Depth 4889'
 Size Main Hole 7 7/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4864 Ft. Size 6 3/4" Bottom Packer Depth 4869 Ft. Size 6 3/4"
 Straddle No 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 20 Ft. Size 5 1/2"OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4882 Ft. Clock No. 8476 Depth 4885 Ft. Clock No. 9102
 Top Make Kuster Cap. 4150 No. 969 ~~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 2:58 A. M
 Tool Open I.F.P. From 3:00 M. to 3:30 A.M. Hr. 30 Min. From (B) 20 P.S.I. To (C) 32 P.S.I.
 Tool Closed I.C.I.P. From 3:30 M. to 4:00 A.M. Hr. 30 Min (D) 87 P.S.I.
 Tool Open F.F.P. From 4:00 M. to 5:00 A.M. Hr. 60 Min. From (E) 34 P.S.I. To (F) 34 P.S.I.
 Tool Closed F.C.I.P. From 5:00 M. to 5:45 A.M. Hr. 45 Min. (G) 124 P.S.I.
 Initial Hydrostatic Pressure (A) 2593 P.S.I. Final Hydrostatic Pressure (H) 2557 P.S.I. Maximum Temp. 129

INFORMATION

BLOW Weak Blow increase to Fair throughout test

Did Well Flow Yes No Recovery Total Ft. 60 feet of Slightly Oil Cut Mud

Reversed Out Yes No Mud Type Salt Viscosity 50 Weight 9.9 Water Loss 8 cc. Chlorides ---

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

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

DRILLING CONTRACTOR Length Drill Pipe? 4423 Ft. I.D. Drill Pipe --- In. Tool Joint Size --- In.

Length Weight Pipe 420 Ft. I.D. Weight Pipe 3.8 In. Tool Joint Size --- In. Length Drill Collars --- Ft. I.D. Drill Collars --- In.

Tool Joint Size --- In. Length D.S.T. Tool 41 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date December 10, 1973

Test Ticket No. 18183

Recorder No. 969 Capacity 4150 Location 4882 Ft.

Clock No. 8476 Elevation Not Available Well Temperature 129 °F

Point	Pressure		Time	
			Given	Computed
A Initial Hydrostatic Mud	<u>2593</u>	P.S.I.	<u>2:58</u>	<u>A. M.</u>
B First Initial Flow Pressure	<u>20</u>	P.S.I.	<u>30</u>	<u>Mins. 30 Mins.</u>
C First Final Flow Pressure	<u>32</u>	P.S.I.	<u>30</u>	<u>Mins. 30 Mins.</u>
D Initial Closed-in Pressure	<u>87</u>	P.S.I.	<u>60</u>	<u>Mins. 60 Mins.</u>
E Second Initial Flow Pressure	<u>34</u>	P.S.I.	<u>45</u>	<u>Mins. 45 Mins.</u>
F Second Final Flow Pressure	<u>34</u>	P.S.I.		
G Final Closed-in Pressure	<u>124</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2557</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: 10 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: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Mins.	Press.	Minutes	Press.	Minutes	Press.	Minutes	Press.
P 1	<u>0</u>	<u>20</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>34</u>
P 2	<u>5</u>	<u>22</u>	<u>3</u>	<u>32</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>46</u>
P 3	<u>10</u>	<u>24</u>	<u>6</u>	<u>34</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>49</u>
P 4	<u>15</u>	<u>26</u>	<u>9</u>	<u>37</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>50</u>
P 5	<u>20</u>	<u>28</u>	<u>12</u>	<u>40</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>52</u>
P 6	<u>25</u>	<u>30</u>	<u>15</u>	<u>46</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>54</u>
P 7	<u>30</u>	<u>32</u>	<u>18</u>	<u>52</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>57</u>
P 8			<u>21</u>	<u>57</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>62</u>
P 9			<u>24</u>	<u>63</u>	<u>40</u>	<u>34</u>	<u>24</u>	<u>69</u>
P10			<u>27</u>	<u>69</u>	<u>45</u>	<u>34</u>	<u>27</u>	<u>74</u>
P11			<u>30</u>	<u>87</u>	<u>50</u>	<u>34</u>	<u>30</u>	<u>81</u>
P12					<u>55</u>	<u>34</u>	<u>33</u>	<u>90</u>
P13					<u>60</u>	<u>34</u>	<u>36</u>	<u>97</u>
P14							<u>39</u>	<u>104</u>
P15							<u>42</u>	<u>112</u>
P16							<u>45</u>	<u>124</u>
P17								
P18								
P19								
P20								



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Company Abercrombie Drilling Inc. Lease & Well No. Smith Estate #1
 Elevation Not Available Formation Simpson Effective Pay --- Ft. Ticket No. 18184
 Date 12-10-73 Sec. 29 Twp. 33S Range 12W County Barber State Kansas
 Test Approved by Robert E. McCann Western Representative Forrest Purnell

Formation Test No. 4 O.K. Misrun Interval Tested From 4885' to 4898' Total Depth 4898'
 Size Main Hole 7/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4880 Ft. Size 6 3/4" Bottom Packer Depth 4885 Ft. Size 6 3/4"
 Straddle No 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 4889 Ft. Clock No. 8476 Depth 4892 Ft. Clock No. 9102
 Top Make Kuster Cap. 4150 No. 969 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 7:13 P. M.
 Tool Open I.F.P. From 7:15 M. to 7:45 P.M. Hr. 30 Min. From (B) 16 P.S.I. To (C) 99 P.S.I.
 Tool Closed I.C.I.P. From 7:45 M. to 8:15 P.M. Hr. 30 Min (D) 1799 P.S.I.
 Tool Open F.F.P. From 8:15 M. to 9:15 P.M. Hr. 60 Min. From (E) 112 P.S.I. To (F) 249 P.S.I.
 Tool Closed F.C.I.P. From 9:15 M. to 10:00 P.M. Hr. 45 Min. (G) 1799 P.S.I.
 Initial Hydrostatic Pressure (A) 2569 P.S.I. Final Hydrostatic Pressure (H) 2559 P.S.I. Maximum Temp. 137

INFORMATION

BLOW Weak to Fair Blow throughout Test

Did Well Flow Yes No Recovery Total Ft. 210 feet very slightly oil and gas cut muddy water
300 feet slightly muddy water with spots of oil

Reversed Out Yes No Mud Type Salt Viscosity 52 Weight 9.9 Water Loss 8.0 cc. Chlorides ---

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

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

DRILLING CONTRACTOR --- Length Drill Pipe? 4444 Ft. I.D. Drill Pipe --- In. Tool Joint Size --- In.

Length Weight Pipe 420 Ft. I.D. Weight Pipe 3.8 In. Tool Joint Size --- In. Length Drill Collars --- Ft. I.D. Drill Collars --- In.
 Tool Joint Size --- In. Length D.S.T. Tool 34 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date December 10, 1973 Test Ticket No. 18184
 Recorder No. 969 Capacity 4150 Location 4889 Ft.
 Clock No. 8476 Elevation Not Available Well Temperature 137 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2569</u> P.S.I.	Open Tool	<u>7:13</u> P. M.	
B First Initial Flow Pressure	<u>16</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>99</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1799</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>112</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>43</u> Mins.
F Second Final Flow Pressure	<u>249</u> P.S.I.			
G Final Closed-in Pressure	<u>1799</u> P.S.I.			
H Final Hydrostatic Mud	<u>2559</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>14</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>1</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>16</u>	<u>0</u>	<u>99</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>249</u>
P 2 <u>5</u>	<u>22</u>	<u>3</u>	<u>436</u>	<u>5</u>	<u>116</u>	<u>3</u>	<u>651</u>
P 3 <u>10</u>	<u>34</u>	<u>6</u>	<u>1516</u>	<u>10</u>	<u>131</u>	<u>6</u>	<u>1518</u>
P 4 <u>15</u>	<u>51</u>	<u>9</u>	<u>1727</u>	<u>15</u>	<u>145</u>	<u>9</u>	<u>1688</u>
P 5 <u>20</u>	<u>67</u>	<u>12</u>	<u>1755</u>	<u>20</u>	<u>157</u>	<u>12</u>	<u>1736</u>
P 6 <u>25</u>	<u>81</u>	<u>15</u>	<u>1773</u>	<u>25</u>	<u>170</u>	<u>15</u>	<u>1757</u>
P 7 <u>30</u>	<u>99</u>	<u>18</u>	<u>1785</u>	<u>30</u>	<u>182</u>	<u>18</u>	<u>1769</u>
P 8 _____	_____	<u>21</u>	<u>1790</u>	<u>35</u>	<u>192</u>	<u>21</u>	<u>1777</u>
P 9 _____	_____	<u>24</u>	<u>1794</u>	<u>40</u>	<u>202</u>	<u>24</u>	<u>1784</u>
P10 _____	_____	<u>27</u>	<u>1797</u>	<u>45</u>	<u>215</u>	<u>27</u>	<u>1790</u>
P11 _____	_____	<u>30</u>	<u>1799</u>	<u>50</u>	<u>225</u>	<u>30</u>	<u>1791</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>235</u>	<u>33</u>	<u>1791</u>
P13 _____	_____	_____	_____	<u>60</u>	<u>249</u>	<u>36</u>	<u>1793</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>1796</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>1798</u>
P16 _____	_____	_____	_____	_____	_____	<u>43</u>	<u>1799</u>
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____