

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company C & G DRILLING CO.

Lease and Well No. PFANNENSTIEL #1

County NESS

State KANSAS

Date FEBRUARY 15, 1971

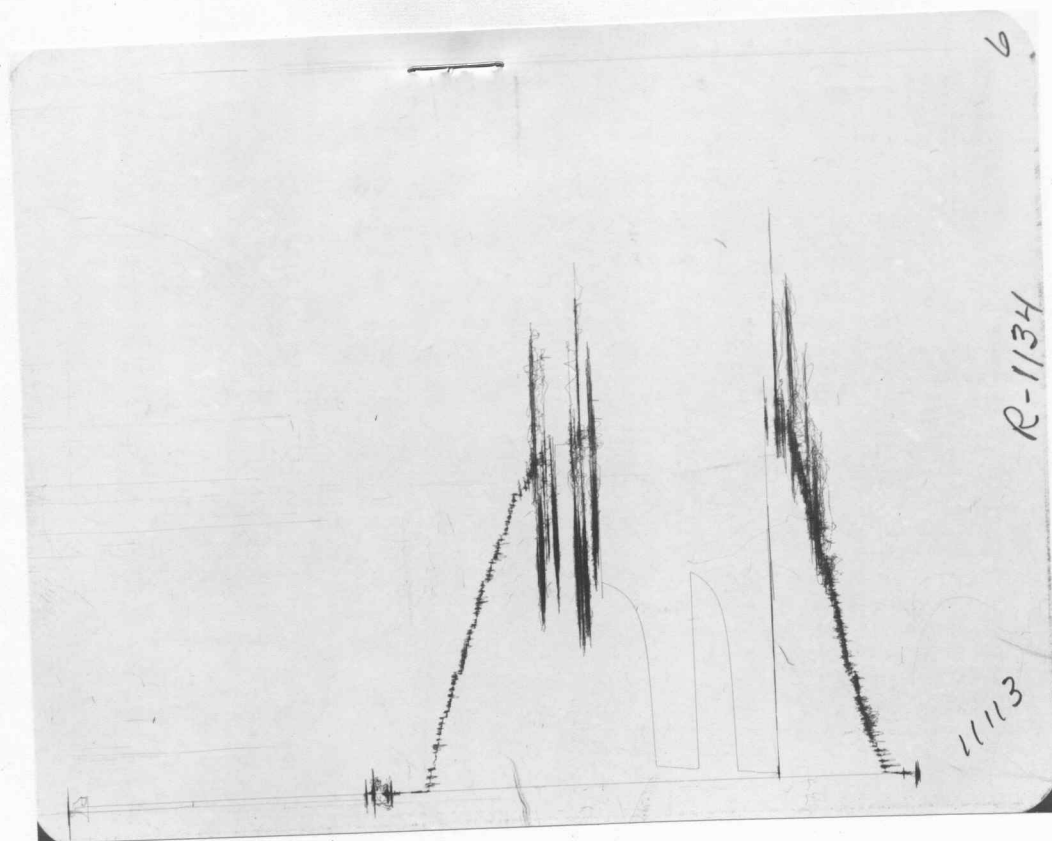
Formation Test No.	<u>1</u>	Total Depth	<u>3970</u>	Elev.	<u>2325 K.B.</u>
Interval Tested	<u>3952</u>	To	<u>3970</u>	Anchor Length	<u>18'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2 F.H.</u>	Size Packer	<u>6 3/4</u>
Mud Weight	<u>9.7</u>	Viscosity	<u>40</u>	Water Loss	<u>4.4</u> c.c.
				Bottom Hole Temp.	<u>113</u> °F
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>11113</u>
Length of Drill Collar		I. D.		Length Flexweight	<u>814</u>
				I. D.	<u>2.76</u>

RECOVERY

WEAK BLOW THROUGHOUT TEST.

180 FEET OF MUDDY WATER.

Lease and Well No. PFANNENSTIEL # 1 13-18S-24W C NW NW 150' SW
Formation Test No. 1



Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 30 min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2302</u>	<u>2032</u>
(B) Initial 1st Flow Pressure	<u>33</u>	<u>40</u>
(C) Final 1st Flow Pressure	<u>44</u>	<u>49</u>
(D) Initial Shut-in Pressure	<u>1202</u>	<u>1213</u>
(E) Initial 2nd Flow Pressure	<u>89</u>	<u>72</u>
(F) Final 2nd Flow Pressure	<u>111</u>	<u>96</u>
(G) Final Shut-in Pressure	<u>1180</u>	<u>1178</u>
(H) Final Hydrostatic Pressure	<u>2009</u>	<u>2009</u>

11113

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Lease and Well No. PFANNENSTIEL #1

County NESS State KANSAS Date FEBRUARY 16, 1971

Formation Test No.	<u>2</u>	Total Depth	<u>4130</u>	Elev.	<u>2325 K.B.</u>
Interval Tested	<u>4093</u>	To	<u>4130</u>	Anchor Length	<u>37'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2 F.H.</u>	Size Packer	<u>6 3/4</u>
Mud Weight	<u>9.7</u>	Viscosity	<u>41</u>	Water Loss	<u>9.0 c.c.</u>
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>11114</u>
Length of Drill Collar		I. D.		Length Flexweight	<u>814</u>
				I. D.	<u>2.76</u>

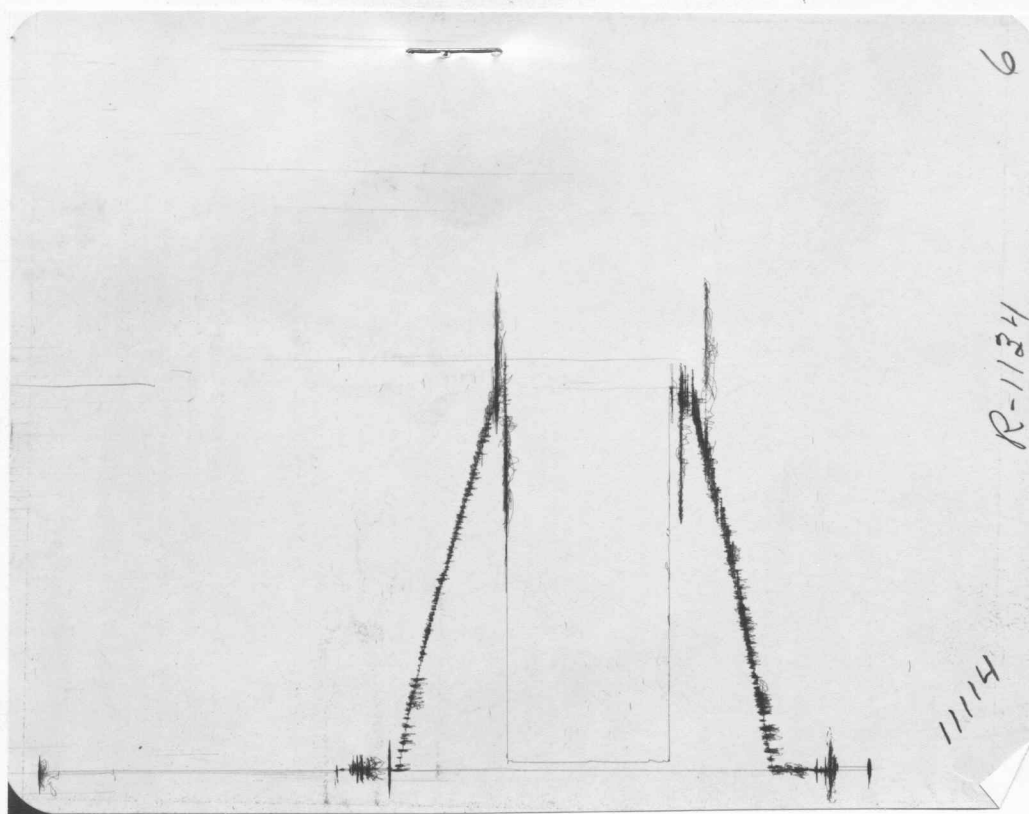
RECOVERY

WEAK BLOW FOR 11 MINUTES. NO BLOW ON SECOND OPENING.

5 FEET OF MUD.

Lease and Well No. PFANNENSTIEL # 1 13-18S-24W C NW NW 150' SW

Formation Test No. 2



Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 30 min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2234</u>	<u>2189</u>
(B) Initial 1st Flow Pressure	<u>67</u>	<u>45</u>
(C) Final 1st Flow Pressure	<u>70</u>	<u>47</u>
(D) Initial Shut-in Pressure	<u>67</u>	<u>56</u>
(E) Initial 2nd Flow Pressure	<u>67</u>	<u>47</u>
(F) Final 2nd Flow Pressure	<u>67</u>	<u>47</u>
(G) Final Shut-in Pressure	<u>67</u>	<u>49</u>
(H) Final Hydrostatic Pressure	<u>2121</u>	<u>2178</u>

11114

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GREAT BEND, KANSAS

Company C & G DRILLING CO.

Lease and Well No. PFANNENSTIEL #1

County NESS State KANSAS Date FEBRUARY 18, 1971

Formation Test No. 3 Total Depth 4257 Elev. 2325 K.B.

Interval Tested 4230 To 4257 Anchor Length 27'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4

Mud Weight 9.9 Viscosity 40 Water Loss 11.2 c.c. Bottom Hole Temp. 116 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11115

Length of Drill Collar I. D. Length Flexweight 814 I. D. 2.76

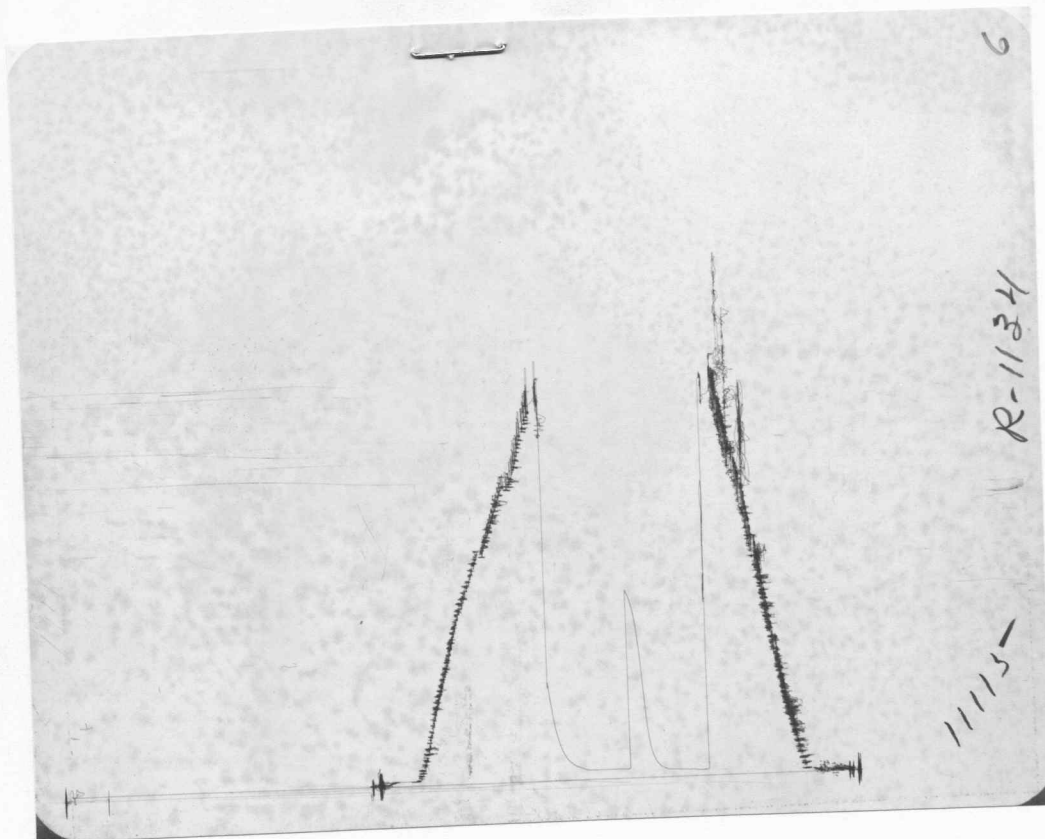
RECOVERY

WEAK BLOW THROUGHOUT TEST.

60 FEET OF GAS.

60 FEET OF GAS CUT MUD WITH OIL SPECKS.

Lease and Well No. PFANNENSTIEL # 1 13-18S-24W C NW NW 150' SW Formation Test No. 3



Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 30 min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2324</u>	<u>2325</u>
(B) Initial 1st Flow Pressure	<u>44</u>	<u>34</u>
(C) Final 1st Flow Pressure	<u>67</u>	<u>45</u>
(D) Initial Shut-in Pressure	<u>1068</u>	<u>1091</u>
(E) Initial 2nd Flow Pressure	<u>67</u>	<u>56</u>
(F) Final 2nd Flow Pressure	<u>67</u>	<u>56</u>
(G) Final Shut-in Pressure	<u>579</u>	<u>569</u>
(H) Final Hydrostatic Pressure	<u>2211</u>	<u>2257</u>

11115

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Lease and Well No. PFANNENSTIEL #1

County NESS State KANSAS

Date FEBRUARY 19, 1971

Formation Test No. 4 Total Depth 4337 Elev. 2325 K.B.
 Interval Tested 4299 To 4337 Anchor Length 38'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
 Mud Weight 9.9 Viscosity 43 Water Loss 10.8 c.c. Bottom Hole Temp. 116 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 11116
 Length of Drill Collar I. D. Length Flexweight 814 I. D. 2.76

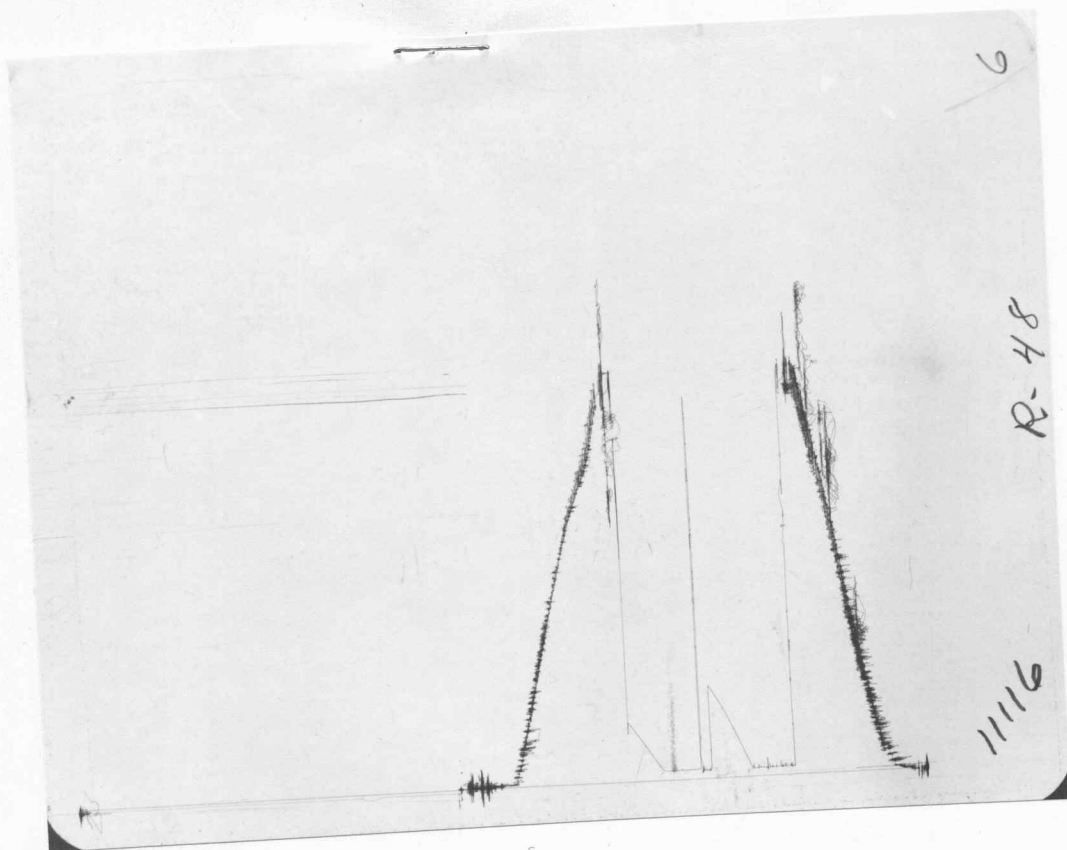
RECOVERY

WEAK BLOW FOR 28 MINUTES. FLUSHED TOOL IN 5 MINUTES ON SECOND
 OPENING. NO BLOW.

20 FEET OF MUD.

Lease and Well No. PFANNENSTIEL # 1 13-18S-24W C NW NW 150' SW

Formation Test No. 4



Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 30 min: Shut-in Final hr. 30 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2392</u>	<u>2347</u>
(B) Initial 1st Flow Pressure	<u>44</u>	<u>47</u>
(C) Final 1st Flow Pressure	<u>56</u>	<u>52</u>
(D) Initial Shut-in Pressure	<u>535</u>	<u>542</u>
(E) Initial 2nd Flow Pressure	<u>44</u>	<u>52</u>
(F) Final 2nd Flow Pressure	<u>56</u>	<u>56</u>
(G) Final Shut-in Pressure	<u>334</u>	<u>346</u>
(H) Final Hydrostatic Pressure	<u>2347</u>	<u>2325</u>

11116

MILLER TESTING COMPANY

BGX 547

GREAT BEND, KANSAS

Company C & G DRILLING CO.

Lease and Well No. PFANNENSTIEL #1

County NESS

State KANSAS

Date FEBRUARY 19, 1971

Formation Test No.	<u>5</u>	Total Depth	<u>4345</u>	Elev.	<u>2325 K.B.</u>
Interval Tested	<u>4336</u>	To	<u>4345</u>	Anchor Length	<u>9'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2 F.H.</u>	Size Packer	<u>6 3/4</u>
Mud Weight	<u>9.9</u>	Viscosity	<u>41</u>	Water Loss	<u>9.9</u> c.c.
				Bottom Hole Temp.	<u>117</u> °F
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>11117</u>
Length of Drill Collar		I. D.		Length Flexweight	<u>814</u>
				I. D.	<u>2.76</u>

RECOVERY

GOOD BLOW THROUGHOUT TEST.

240 FEET OF FREE OIL.

240 FEET OF VERY HEAVY OIL AND GAS CUT MUD.

Lease and Well No. PFANNENSTIEL #1 13-18S-24W C NW NW 150' SW Formation Test No. 5

DATE FEBRUARY 19, 1971

TEST NO. 5

TICKET NO. 11117

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2336
INITIAL CLOSED IN PRESSURE	30 MINS.	1191
INITIAL FLOW	30 MINS.	45 to 112
FINAL FLOW	30 MINS.	123 to 179
FINAL CLOSED IN PRESSURE	30 MINS.	1164
FINAL HYDRO MUD PRESSURE		2336

TOTAL DEPTH 4345

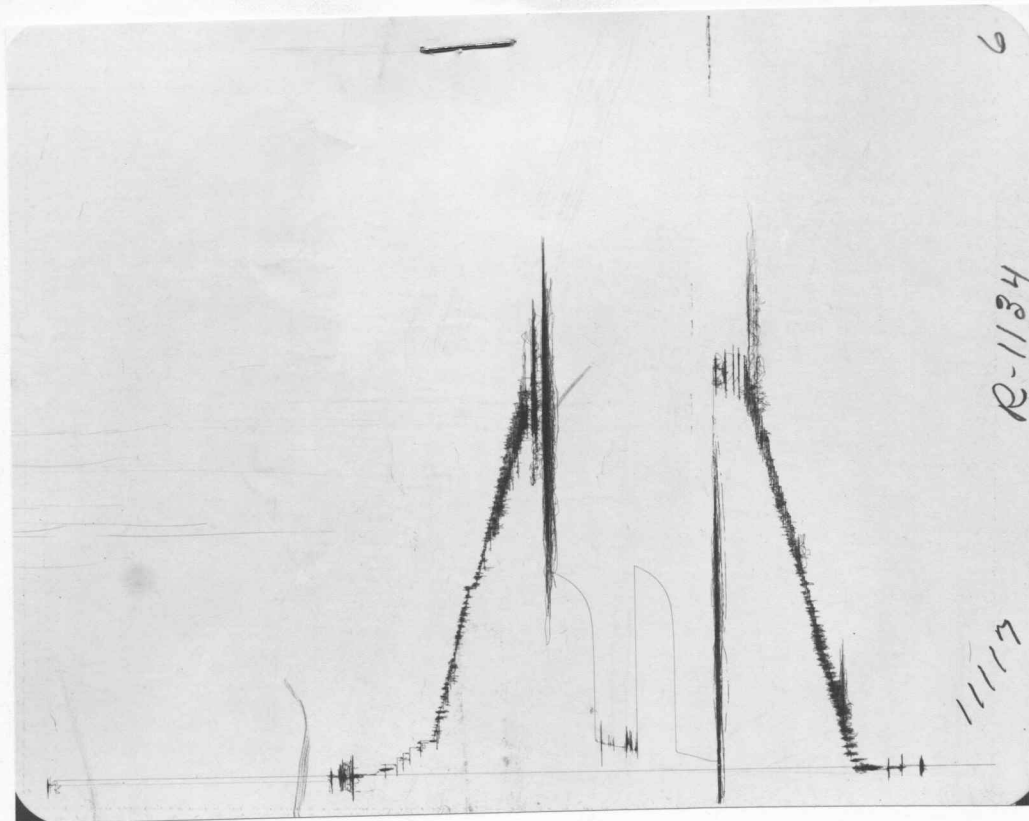
PACKER DEPTH 4336

BT. NO. 1134 DEPTH 4340

1ST FLOW PRESSURE			INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
		45		112		123		179
		78		1024		145		1019
		112		1080		179		1064
				1124				1097
				1151				1126
				1176				1144
				1191				1164
	15	MINUTE INTERVAL	5	MINUTE INTERVAL	15	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS

SPECIAL PRESSURE DATA



Tool Open: 1st Flow 30 mins: Shut-in Initial 30 min: 2nd Flow 30 min: Shut-in Final 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2336</u>	<u>2336</u>
(B) Initial 1st Flow Pressure	<u>22</u>	<u>45</u>
(C) Final 1st Flow Pressure	<u>44</u>	<u>112</u>
(D) Initial Shut-in Pressure	<u>1202</u>	<u>1191</u>
(E) Initial 2nd Flow Pressure	<u>134</u>	<u>123</u>
(F) Final 2nd Flow Pressure	<u>178</u>	<u>179</u>
(G) Final Shut-in Pressure	<u>1157</u>	<u>1164</u>
(H) Final Hydrostatic Pressure	<u>2234</u>	<u>2336</u>

11117