

15-033-20545



21-33s-20w

Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Samuel Gary Oil Producer Lease & Well No. Eubank #21-10  
 Elevation 1826 Kelly Bushing Formation Pawnee Effective Pay - Ft. Ticket No. 15196  
 Date 3/10/82 Sec. 21 Twp. 33S Range 20W County Comanche State Kansas  
 Test Approved by Ray Western Representative Mike Rogers

Formation Test No. 1 Interval Tested from 5032 ft. to 5064 ft. Total Depth 5347 ft.

Packer Depth 5027 ft. Size 6 5/8 in. Packer Depth 5064 ft. Size 6 5/8 in.

Packer Depth 5032 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5036 ft. Recorder Number 1566 Cap 4300

Bottom Recorder Depth (Outside) 5040 ft. Recorder Number 1051 Cap 4100

Below Straddle Recorder Depth 5344 ft. Recorder Number 3086 Cap 4400

Drilling Contractor Gabbert-Jones Drlg. Rig #9 Drill Collar Length 175 I. D. 2.2 in.

Mud Type chemical Viscosity 68 ~~Weight~~ Tail Pipe Length 283 I. D. 2.2 in.

Weight 9.4 Water Loss 5.6 cc. Drill Pipe Length 4827 I. D. 3.8 in.

Chlorides 11,500 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.

Jars: Make WIC Serial Number 3660 Anchor Length 32 ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: One inch blow slowly building to strong in four minutes on initial flow period. Weak one half inch blow building to eight inches on final flow period.

Recovered 140 ft. of very slightly gas cut drilling mud

Recovered 60 ft. of muddy water with 25% mud; 75% water with 30,000 ppm chlorides

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Remarks:         

Time Set Packer(s)	<u>10:00</u>	<u>A.M.</u> <del>P.M.</del>	Time Started Off Bottom	<u>2:30</u>	<u>A.M.</u> <del>P.M.</del>	Maximum Temperature	<u>130°</u>
Initial Hydrostatic Pressure			(A)	<u>2592</u>		P.S.I.	
Initial Flow Period			Minutes	<u>30</u>	(B)	<u>52</u>	P.S.I. to (C) <u>56</u> P.S.I.
Initial Closed In Period			Minutes	<u>66</u>	(D)	<u>1785</u>	P.S.I.
Final Flow Period			Minutes	<u>60</u>	(E)	<u>106</u>	P.S.I. to (F) <u>106</u> P.S.I.
Final Closed In Period			Minutes	<u>135</u>	(G)	<u>1775</u>	P.S.I.
Final Hydrostatic Pressure			(H)	<u>2548</u>		P.S.I.	

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

Date 3/10/82 Test Ticket No. 15196  
 Recorder No. 1566 Capacity 4300 Location 5036 Ft.  
 Clock No. -- Elevation 1826 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2592</u> P.S.I.	Open Tool	<u>10:00A</u> M	
B. First Initial Flow Pressure	<u>52</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>56</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
D. Initial Closed-in Pressure	<u>1785</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>106</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>135</u> Mins.
F. Second Final Flow Pressure	<u>106</u> P.S.I.			
G. Final Closed-in Pressure	<u>1775</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2548</u> P.S.I.			

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**PRESSURE BREAKDOWN**

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>22</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>45</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> 52	<u>0</u> 56		<u>0</u> 106		<u>0</u> 106	
P 2	<u>5</u> 52	<u>3</u> 188		<u>5</u> 106		<u>3</u> 188	
P 3	<u>10</u> 52	<u>6</u> 392		<u>10</u> 106		<u>6</u> 352	
P 4	<u>15</u> 52	<u>9</u> 590		<u>15</u> 106		<u>9</u> 517	
P 5	<u>20</u> 52	<u>12</u> 774		<u>20</u> 106		<u>12</u> 684	
P 6	<u>25</u> 53	<u>15</u> 987		<u>25</u> 106		<u>15</u> 837	
P 7	<u>30</u> 56	<u>18</u> 1205		<u>30</u> 106		<u>18</u> 1002	
P 8		<u>21</u> 1330		<u>35</u> 106		<u>21</u> 1133	
P 9		<u>24</u> 1425		<u>40</u> 106		<u>24</u> 1221	
P10		<u>27</u> 1481		<u>45</u> 106		<u>27</u> 1298	
P11		<u>30</u> 1535		<u>50</u> 106		<u>30</u> 1354	
P12		<u>33</u> 1578		<u>55</u> 106		<u>33</u> 1397	
P13		<u>36</u> 1612		<u>60</u> 106		<u>36</u> 1431	
P14		<u>39</u> 1640				<u>39</u> 1463	
P15		<u>42</u> 1664				<u>42</u> 1489	
P16		<u>45</u> 1681				<u>45</u> 1515	
P17		<u>48</u> 1703				<u>48</u> 1539	
P18		<u>51</u> 1720				<u>51</u> 1556	
P19		<u>54</u> 1731				<u>54</u> 1573	
P20		<u>57</u> 1744				<u>57</u> 1591	
		<u>60</u> 1759				<u>60</u> 1606	
		<u>63</u> 1770					
		<u>66</u> 1785					

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

Date 3/10/82 Test Ticket No. 15196  
 Recorder No. 1566 Capacity 4300 Location 5036 Ft.  
 Clock No. -- Elevation 1826 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2592</u> P.S.I.	Open Tool	<u>10:00A</u> M	
B First Initial Flow Pressure	<u>52</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>56</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
D Initial Closed-in Pressure	<u>1785</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>106</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>135</u> Mins.
F Second Final Flow Pressure	<u>106</u> P.S.I.			
G Final Closed-in Pressure	<u>1775</u> P.S.I.			
H Final Hydrostatic Mud	<u>2548</u> P.S.I.			

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**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>22</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>45</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1619
P 2						66	1630
P 3						69	1640
P 4						72	1651
P 5						75	1662
P 6						78	1673
P 7						81	1681
P 8						84	1687
P 9						87	1694
P10						90	1703
P11						93	1707
P12						96	1714
P13						99	1722
P14						102	1733
P15						105	1736
P16						108	1739
P17						111	1742
P18						114	1747
P19						117	1753
P20						120	1757

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

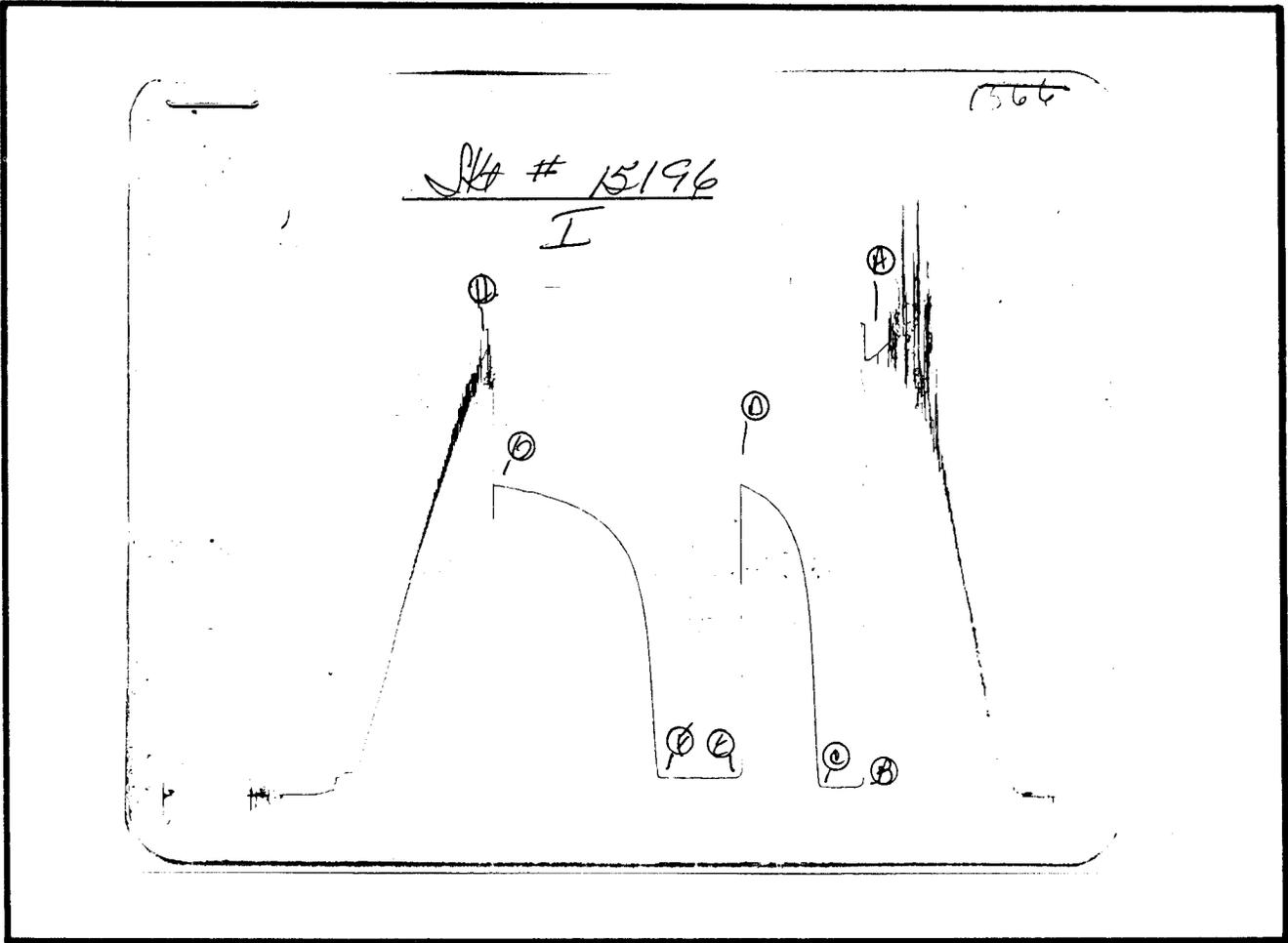
Date 3/10/82 Test Ticket No. 15196  
 Recorder No. 1566 Capacity 4300 Location 5036 Ft.  
 Clock No. -- Elevation 1826 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given 10:00A	Time Computed
A Initial Hydrostatic Mud	<u>2592</u> P.S.I.	Open Tool	<u>30</u> M	<u>30</u> Mins.
B First Initial Flow Pressure	<u>52</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>66</u> Mins.
C First Final Flow Pressure	<u>56</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1785</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>135</u> Mins.
E Second Initial Flow Pressure	<u>106</u> P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure	<u>106</u> P.S.I.			
G Final Closed-in Pressure	<u>1775</u> P.S.I.			
H Final Hydrostatic Mud	<u>2548</u> P.S.I.			

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**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>5</u> mins. and a	final inc. of <u>0</u> Min.	of <u>3</u> mins. and a	final inc. of <u>0</u> Min.	of <u>5</u> mins. and a	final inc. of <u>0</u> Min.	of <u>3</u> mins. and a	final inc. of <u>0</u> Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1						<u>123</u>	<u>1761</u>	
P 2						<u>126</u>	<u>1766</u>	
P 3						<u>129</u>	<u>1771</u>	
P 4						<u>132</u>	<u>1774</u>	
P 5						<u>135</u>	<u>1775</u>	
P 6								
P 7								
P 8								
P 9								
P10								
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2591	2592	PSI
(B) First Initial Flow Pressure	64	52	PSI
(C) First Final Flow Pressure	64	56	PSI
(D) Initial Closed-in Pressure	1776	1785	PSI
(E) Second Initial Flow Pressure	108	106	PSI
(F) Second Final Flow Pressure	108	106	PSI
(G) Final Closed-in Pressure	1776	1775	PSI
(H) Final Hydrostatic Mud	2591	2548	PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company Samuel Gary Oil Producer Lease & Well No. Eubank #21-10  
 Elevation 1826 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 15197  
 Date 3/ 11/82 Sec. 21 Twp. 33S Range 20W County Comanche State Kansas  
 Test Approved by J. Copeland Landes Western Representative Mike Rogers

Formation Test No. 2 Interval Tested from 5205 ft. to 5285 ft. Total Depth 5347 ft.  
 Packer Depth 5200 ft. Size 6 5/8 in. Packer Depth 5285 ft. Size 6-5/8 in.  
 Packer Depth 5205 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 5267 ft. Recorder Number 1566 Cap 4300  
 Bottom Recorder Depth (Outside) 5270 ft. Recorder Number 1051 Cap 4100  
 Below Straddle Recorder Depth 5343 ft. Recorder Number 3086 Cap 4400

Drilling Contractor Gabbert-Jones Drlg. Rig #9 Drill Collar Length 350 I. D. 2.2 in.  
 Mud Type chemical Viscosity 65 ~~Weight~~ Pipe Length 62 I. D. 2.2 in.  
 Weight 9.4 Water Loss 9.0 cc. Drill Pipe Length 4825 I. D. 3.8 in.  
 Chlorides 16,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 3660 Anchor Length 80 ft. Size 5 1/2 OD in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Weak one half inch blow throughout test. Flushed tool on final flow period.

Recovered 150 ft. of drilling mud  
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

Remarks:     

Time Set Packer(s) 4:15 A.M. P.M. Time Started Off Bottom 8:15 A.M. P.M. Maximum Temperature 130°  
 Initial Hydrostatic Pressure 2732 (A) P.S.I.  
 Initial Flow Period 30 Minutes (B) 119 P.S.I. to (C) 134 P.S.I.  
 Initial Closed In Period 57 Minutes (D) 403 P.S.I.  
 Final Flow Period 30 Minutes (E) 177 P.S.I. to (F) 173 P.S.I.  
 Final Closed In Period 111 Minutes (G) 465 P.S.I.  
 Final Hydrostatic Pressure 2710 (H) P.S.I.

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

Date 3/11/82 Test Ticket No. 15197  
 Recorder No. 1566 Capacity 4300 Location 5270 Ft.  
 Clock No. -- Elevation 1826 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2732</u> P.S.I.	Open Tool	<u>4:15</u>	<u>M</u>
B First Initial Flow Pressure	<u>119</u> P.S.I.	First Flow Pressure	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>134</u> P.S.I.	Initial Closed-in Pressure	<u>60</u>	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>403</u> P.S.I.	Second Flow Pressure	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>177</u> P.S.I.	Final Closed-in Pressure	<u>120</u>	<u>111</u> Mins.
F Second Final Flow Pressure	<u>173</u> P.S.I.			
G Final Closed-in Pressure	<u>465</u> P.S.I.			
H Final Hydrostatic Mud	<u>2710</u> P.S.I.			

**PRESSURE BREAKDOWN**

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>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>37</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>119</u>	<u>0</u>	<u>134</u>	<u>0</u>	<u>177</u>	<u>0</u>	<u>173</u>
P 2 <u>5</u>	<u>119</u>	<u>3</u>	<u>140</u>	<u>5</u>	<u>177</u>	<u>3</u>	<u>173</u>
P 3 <u>10</u>	<u>121</u>	<u>6</u>	<u>143</u>	<u>10</u>	<u>177</u>	<u>6</u>	<u>173</u>
P 4 <u>15</u>	<u>127</u>	<u>9</u>	<u>145</u>	<u>15</u>	<u>177</u>	<u>9</u>	<u>173</u>
P 5 <u>20</u>	<u>130</u>	<u>12</u>	<u>149</u>	<u>20</u>	<u>177</u>	<u>12</u>	<u>173</u>
P 6 <u>25</u>	<u>133</u>	<u>15</u>	<u>160</u>	<u>25</u>	<u>179</u>	<u>15</u>	<u>173</u>
P 7 <u>30</u>	<u>134</u>	<u>18</u>	<u>171</u>	<u>30</u>	<u>173</u>	<u>18</u>	<u>176</u>
P 8		<u>21</u>	<u>186</u>			<u>21</u>	<u>179</u>
P 9		<u>24</u>	<u>197</u>			<u>24</u>	<u>184</u>
P10		<u>27</u>	<u>212</u>			<u>27</u>	<u>189</u>
P11		<u>30</u>	<u>229</u>			<u>30</u>	<u>195</u>
P12		<u>33</u>	<u>244</u>			<u>33</u>	<u>201</u>
P13		<u>36</u>	<u>259</u>			<u>36</u>	<u>204</u>
P14		<u>39</u>	<u>279</u>			<u>39</u>	<u>205</u>
P15		<u>42</u>	<u>292</u>			<u>42</u>	<u>205</u>
P16		<u>45</u>	<u>311</u>			<u>45</u>	<u>205</u>
P17		<u>48</u>	<u>332</u>			<u>48</u>	<u>210</u>
P18		<u>51</u>	<u>367</u>			<u>51</u>	<u>216</u>
P19		<u>54</u>	<u>378</u>			<u>54</u>	<u>222</u>
P20		<u>57</u>	<u>403</u>			<u>57</u>	<u>231</u>
						<u>60</u>	<u>238</u>

Flushed tool

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 3/11/82 Test Ticket No. 15197  
 Recorder No. 1566 Capacity 4300 Location 5270 Ft.  
 Clock No. -- Elevation 1826 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2732</u>	P.S.I.	<u>4:15</u>	<u>M</u>
B. First Initial Flow Pressure	<u>119</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C. First Final Flow Pressure	<u>134</u>	P.S.I.	<u>60</u>	<u>57</u> Mins.
D. Initial Closed-in Pressure	<u>403</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>177</u>	P.S.I.	<u>120</u>	<u>111</u> Mins.
F. Second Final Flow Pressure	<u>173</u>	P.S.I.		
G. Final Closed-in Pressure	<u>465</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>2710</u>	P.S.I.		

**PRESSURE BREAKDOWN**

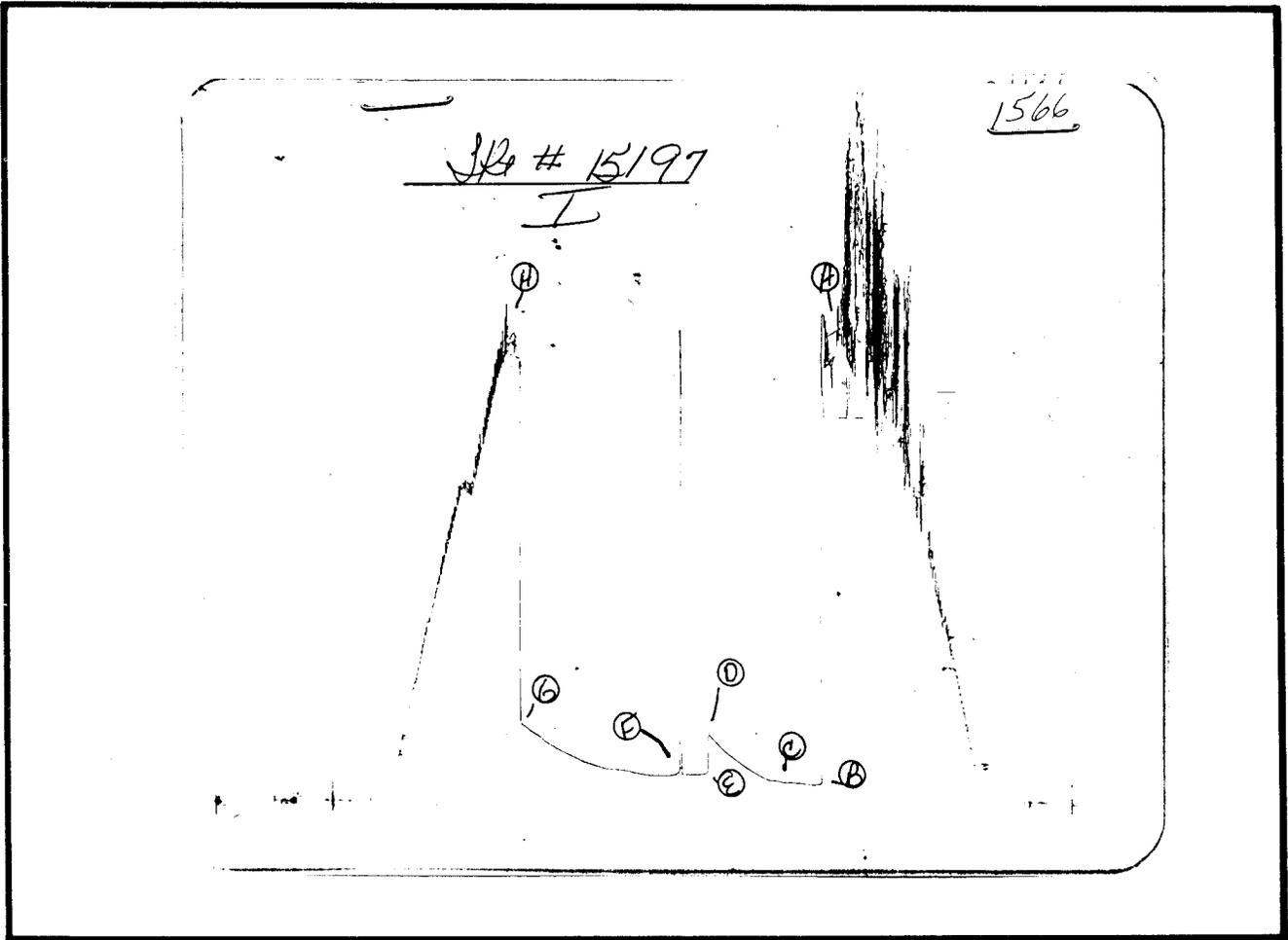
**First Flow Pressure**  
 Breakdown: 6 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

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

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

**Final Shut-In**  
 Breakdown: 37 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						63	243
P 2						66	251
P 3						69	261
P 4						72	272
P 5						75	285
P 6						78	296
P 7						81	307
P 8						84	318
P 9						87	331
P10						90	344
P11						93	357
P12						96	374
P13						99	396
P14						102	409
P15						105	422
P16						108	439
P17						111	465
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2701	2732	PSI
(B) First Initial Flow Pressure	118	119	PSI
(C) First Final Flow Pressure	129	134	PSI
(D) Initial Closed-in Pressure	411	403	PSI
(E) Second Initial Flow Pressure	183	177	PSI
(F) Second Final Flow Pressure	162	173	PSI
(G) Final Closed-in Pressure	465	465	PSI
(H) Final Hydrostatic Mud	2679	2710	PSI