

15-135-20532



20-195-21w

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

Company B & B Drilling, Inc. Lease & Well No. Hannergardt #1
 Elevation 2261 Kelly Bushings Formation Ft. Scott Effective Pay _____ Ft. Ticket No. 15892
 Date Dec. 15, 1971 Sec. 20 Twp. 19 Range 21 County Now State Kansas
 Test Approved by Claude L. Sheats, Jr. Western Representative James W. Holloway
 Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 4260' to 4294' Total Depth 4294'
 Size Main Hole 7 7/8" Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
 Packer Depth 4255 Ft. Size 6 3/4" Packer Depth 4260 Ft. Size 6 3/4"
 Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
 Packer Depth _____ Ft. Size _____
 Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 34 Ft. Size 5 1/2" O.D.
 RECORDERS Depth 4286 Ft. Clock No. 9725 Depth 4288 Ft. Clock No. 6774
 Top Make Kuster Cap. 4150 No. 2607 Inside outside Bottom Make Kuster Cap. 4150 No. 969 Inside outside
 Below Straddle: Depth _____ Clock No. _____ Outside _____ Depth _____ Ft. Clock No. _____ Outside _____
 Top Make _____ Cap. _____ No. _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Outside _____
 Time Set Packer 1:47 A. M
 Tool Open I.F.P. From 1:50 M. to 2:20 A.M. Hr. 30 Min. From (B) 33 P.S.I. To (C) 109 P.S.I.
 Tool Closed I.C.I.P. From 2:20 M. to 3:20 A.M. Hr. 60 Min. (D) 1276 P.S.I.
 Tool Open F.F.P. From 3:20 M. to 4:50 A.M. 1 Hr. 30 Min. From (E) 158 P.S.I. To (F) 242 P.S.I.
 Tool Closed F.C.I.P. From 4:50 M. to 5:50 A.M. 1 Hr. 00 Min. (G) 1224 P.S.I.
 Initial Hydrostatic Pressure (A) 2218 P.S.I. Final Hydrostatic Pressure (H) 2183 P.S.I.
 SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
 INFORMATION _____ M. _____
 _____ M. _____
 _____ M. _____
 BLOW Strong throughout Bottom Choke Size 3/4 In.
 Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 210 feet Gas in Pipe, 120 feet Clean oil,
360 feet Groggy oil, 60 feet Heavy Oil Out Mud
 Reversed Out _____ Yes ☒ No _____ Mud Type Starch Viscosity 42 Weight 9.6 Water Loss 12.6 cc. Maximum Temp. 119 °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 3672 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 568 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
 I. D. Drill Collars _____ in. Length D.S.T. Tool 54 ft.
 Remarks _____

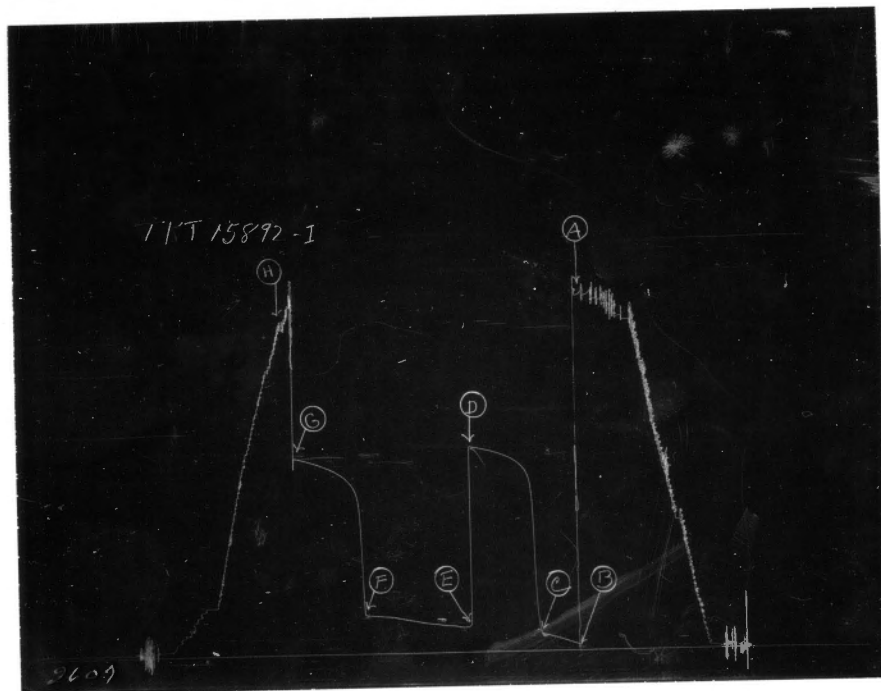
WESTERN TESTING CO., INC.
Pressure Data

Date December 15, 1971 Test Ticket No. 15892
Recorder No. 2607 Capacity 4150 Location 4286 Ft.
Clock No. 9725 Elevation 2261 Kelly Bushings Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2218</u> P.S.I.	Open Tool	<u>1:47</u> A.M.	
B First Initial Flow Pressure	<u>33</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>109</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1276</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>158</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>242</u> P.S.I.			
G Final Closed-in Pressure	<u>1224</u> P.S.I.			
H Final Hydrostatic Mud	<u>2183</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>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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>33</u>	<u>0</u>	<u>109</u>	<u>0</u>	<u>158</u>	<u>0</u>	<u>242</u>
P 2 <u>5</u>	<u>51</u>	<u>3</u>	<u>317</u>	<u>5</u>	<u>160</u>	<u>3</u>	<u>680</u>
P 3 <u>10</u>	<u>63</u>	<u>6</u>	<u>712</u>	<u>10</u>	<u>162</u>	<u>6</u>	<u>938</u>
P 4 <u>15</u>	<u>78</u>	<u>9</u>	<u>1043</u>	<u>15</u>	<u>167</u>	<u>9</u>	<u>1016</u>
P 5 <u>20</u>	<u>88</u>	<u>12</u>	<u>1114</u>	<u>20</u>	<u>171</u>	<u>12</u>	<u>1054</u>
P 6 <u>25</u>	<u>99</u>	<u>15</u>	<u>1146</u>	<u>25</u>	<u>174</u>	<u>15</u>	<u>1077</u>
P 7 <u>30</u>	<u>109</u>	<u>18</u>	<u>1169</u>	<u>30</u>	<u>178</u>	<u>18</u>	<u>1097</u>
P 8 _____		<u>21</u>	<u>1186</u>	<u>35</u>	<u>183</u>	<u>21</u>	<u>1112</u>
P 9 _____		<u>24</u>	<u>1200</u>	<u>40</u>	<u>190</u>	<u>24</u>	<u>1129</u>
P10 _____		<u>27</u>	<u>1211</u>	<u>45</u>	<u>196</u>	<u>27</u>	<u>1140</u>
P11 _____		<u>30</u>	<u>1221</u>	<u>50</u>	<u>204</u>	<u>30</u>	<u>1150</u>
P12 _____		<u>33</u>	<u>1228</u>	<u>55</u>	<u>210</u>	<u>33</u>	<u>1158</u>
P13 _____		<u>36</u>	<u>1237</u>	<u>60</u>	<u>217</u>	<u>36</u>	<u>1169</u>
P14 _____		<u>39</u>	<u>1244</u>	<u>65</u>	<u>224</u>	<u>39</u>	<u>1179</u>
P15 _____		<u>42</u>	<u>1250</u>	<u>70</u>	<u>230</u>	<u>42</u>	<u>1187</u>
P16 _____		<u>45</u>	<u>1254</u>	<u>75</u>	<u>234</u>	<u>45</u>	<u>1194</u>
P17 _____		<u>48</u>	<u>1260</u>	<u>80</u>	<u>237</u>	<u>48</u>	<u>1200</u>
P18 _____		<u>51</u>	<u>1265</u>	<u>85</u>	<u>239</u>	<u>51</u>	<u>1206</u>
P19 _____		<u>54</u>	<u>1269</u>	<u>90</u>	<u>242</u>	<u>54</u>	<u>1213</u>
P20 _____		<u>57</u>	<u>1273</u>			<u>57</u>	<u>1218</u>
		<u>60</u>	<u>1276</u>			<u>60</u>	<u>1224</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2257	2218
(B) First Initial Flow Pressure	32	33
(C) First Final Flow Pressure	106	109
(D) Initial Closed-in Pressure	1270	1276
(E) Second Initial Flow Pressure	148	150
(F) Second Final Flow Pressure	243	242
(G) Final Closed-in Pressure	1228	1224
(H) Final Hydrostatic Mud	2247	2183



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

Company B & B Drilling Inc. Lease & Well No. Hinnergardt #1
Elevation 2261 Kelly Bushings Formation Cherokee Effective Pay _____ Ft. Ticket No. 15893
Date Dec. 15, 1971 Sec. 20 Twp. 19S Range 21W County Ness State Kansas
Test Approved by Claude L. Sheats, Jr. Western Representative Jim Holloway
Formation Test No. 2 O.K. ☒ Misrun _____ Interval Tested From 4297' to 4320' Total Depth 4320'
Size Main Hole 7 7/8" Rat Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth 4292 Ft. Size 6 3/4" Packer Depth 4297 Ft. Size 6 3/4"
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" P.H. Anchor Length 23 Ft. Size 5 1/2" O.D.
RECORDERS Depth 4312 Ft. Clock No. 9725 Depth 4314 Ft. Clock No. 6774
Top Make Kuster Cap. 4150 No. 2607 Inside _____ Outside _____ Bottom Make Kuster Cap. 4150 No. 969 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Time Set Packer 8:12 P. M.
Tool Open I.F.P. From 8:15 M. to 8:45 M. Hr. 30 Min. From (B) 12 P.S.I. To (C) 12 P.S.I.
Tool Closed I.C.I.P. From 8:45 M. to 9:15 M. Hr. 30 Min. (D) 21 P.S.I.
Tool Open F.F.P. From 9:15 M. to 9:45 M. Hr. 30 Min. From (E) 16 P.S.I. To (F) 16 P.S.I.
Tool Closed F.C.I.P. From 9:45 M. to 10:15 M. Hr. 30 Min. (G) 19 P.S.I.
Initial Hydrostatic Pressure (A) 2184 P.S.I. Final Hydrostatic Pressure (H) 2169 P.S.I.
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Very Weak for 16 minutes Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 10 feet Mud
Reversed Out _____ Yes ☒ No _____ Mud Type Starch Viscosity 41 Weight 916 Water Loss 14.0 cc. Maximum Temp. 118 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint 00 Did Packer Hold? Yes Where? _____
Length Drill Pipe 3709 ft. I.D. Drill Pipe 3.3 in. Length Weight Pipe 568 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 43 ft.
Remarks _____

WESTERN TESTING CO., INC.

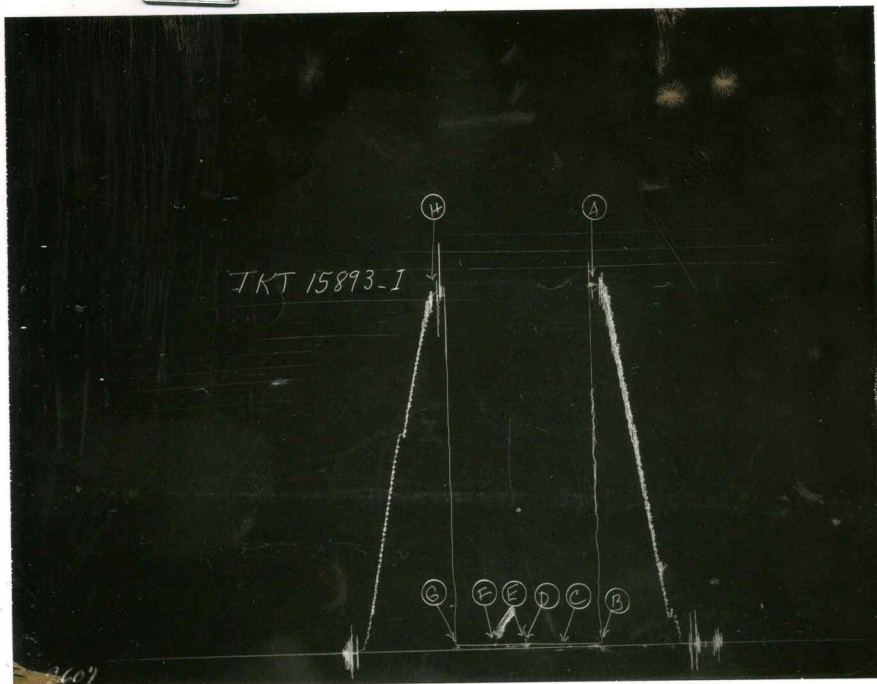
Pressure Data

Date Dec. 15, 1971 Test Ticket No. 15893
 Recorder No. 2607 Capacity 4150 Location 4312 Ft.
 Clock No. 9725 Elevation 2261 Kelly Bushings Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2184</u> P.S.I.	Open Tool	<u>8:12 P.</u> M	
B First Initial Flow Pressure	<u>12</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>12</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>21</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>16</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>16</u> P.S.I.			
G Final Closed-in Pressure	<u>19</u> P.S.I.			
H Final Hydrostatic Mud	<u>2169</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>6</u> Inc.		Breakdown: <u>10</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>12</u>	<u>0</u>	<u>12</u>	<u>0</u>	<u>16</u>	<u>0</u>	<u>16</u>
P 2 <u>5</u>	<u>12</u>	<u>3</u>	<u>12</u>	<u>5</u>	<u>16</u>	<u>3</u>	<u>16</u>
P 3 <u>10</u>	<u>12</u>	<u>6</u>	<u>13</u>	<u>10</u>	<u>16</u>	<u>6</u>	<u>16</u>
P 4 <u>15</u>	<u>12</u>	<u>9</u>	<u>13</u>	<u>15</u>	<u>16</u>	<u>9</u>	<u>17</u>
P 5 <u>20</u>	<u>12</u>	<u>12</u>	<u>14</u>	<u>20</u>	<u>16</u>	<u>12</u>	<u>17</u>
P 6 <u>25</u>	<u>12</u>	<u>15</u>	<u>15</u>	<u>25</u>	<u>16</u>	<u>15</u>	<u>17</u>
P 7 <u>30</u>	<u>12</u>	<u>18</u>	<u>16</u>	<u>30</u>	<u>16</u>	<u>18</u>	<u>18</u>
P 8 _____		<u>21</u>	<u>17</u>			<u>21</u>	<u>18</u>
P 9 _____		<u>24</u>	<u>18</u>			<u>24</u>	<u>18</u>
P10 _____		<u>27</u>	<u>19</u>			<u>27</u>	<u>19</u>
P11 _____		<u>30</u>	<u>21</u>			<u>30</u>	<u>19</u>
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	2257	2184	PSI
(B) First Initial Flow Pressure	15	12	PSI
(C) First Final Flow Pressure	15	12	PSI
(D) Initial Closed-in Pressure	26	21	PSI
(E) Second Initial Flow Pressure	15	16	PSI
(F) Second Final Flow Pressure	15	16	PSI
(G) Final Closed-in Pressure	21	19	PSI
(H) Final Hydrostatic Mud	2246	2169	PSI



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

Company B & B Drilling Inc. Lease & Well No. Hinnergardt #1
Elevation 2261 Kelly Bushings Formation Conglomerate Effective Pay _____ Ft. Ticket No. 15894
Date Dec. 16, 1971 Sec. 20 Twp. 19S Range 21W County Ness State Kansas
Test Approved by Claude L. Sheats, Jr. Western Representative James W. Holloway
Formation Test No. 3 O.K. ☒ Misrun _____ Interval Tested From 4339' to 4381' Total Depth 4381'
Size Main Hole 7 7/8" Cat Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth 4334 Ft. Size 6 3/4" Packer Depth 4339 Ft. Size 6 3/4"
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 42 Ft. Size 5 1/2" O.D.
RECORDERS Depth 4373 Ft. Clock No. 9725 Depth 4375 Ft. Clock No. 6774
Top Make Kuster Cap. 4150 No. 2607 Inside _____ Outside _____ Bottom Make Kuster Cap. 4150 No. 969 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Time Set Packer 12:06 P. M
Tool Open I.F.P. From 12:09 M. to 12:39 M. Hr. 30 Min. From (B) 32 P.S.I. To (C) 32 P.S.I.
Tool Closed I.C.I.P. From 12:39 M. to 1:09 M. Hr. 30 Min. (D) 48 P.S.I.
Tool Open F.F.P. From 1:09 M. to 1:39 M. Hr. 30 Min. From (E) 35 P.S.I. To (F) 35 P.S.I.
Tool Closed F.C.I.P. From 1:39 M. to 2:09 M. Hr. 30 Min. (G) 39 P.S.I.
Initial Hydrostatic Pressure (A) 2211 P.S.I. Final Hydrostatic Pressure (H) 2201 P.S.I.
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Very Weak 19 minutes Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 15 feet Mud
Reversed Out _____ Yes ☒ No _____ Mud Type Starch Viscosity 45 Weight 9.7 Water Loss 12.2 cc. Maximum Temp. 116 °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 3751 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 568 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 62 ft.
Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date December 16, 1971

Test Ticket No. 15894

Recorder No. 2607

Capacity 4150

Location 4373 Ft.

Clock No. 9725

Elevation 2261 Kelly Bushings

Well Temperature 116 °F

Point

Pressure

Time Given

Time Computed

A Initial Hydrostatic Mud 2211 P.S.I.
 B First Initial Flow Pressure 32 P.S.I.
 C First Final Flow Pressure 32 P.S.I.
 D Initial Closed-in Pressure 48 P.S.I.
 E Second Initial Flow Pressure 35 P.S.I.
 F Second Final Flow Pressure 35 P.S.I.
 G Final Closed-in Pressure 39 P.S.I.
 H Final Hydrostatic Mud 2201 P.S.I.

Open Tool

12:06 P. M.

First Flow Pressure

30 Mins. 30 Mins.

Initial Closed-in Pressure

30 Mins. 30 Mins.

Second Flow Pressure

30 Mins. 30 Mins.

Final Closed-in Pressure

30 Mins. 30 Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 6 Inc.

of 5 mins. and a

final inc. of _____ Min.

Initial Shut-In

Breakdown: 10 Inc.

of 3 mins. and a

final inc. of _____ Min.

Second Flow Pressure

Breakdown: 6 Inc.

of 5 mins. and a

final inc. of _____ Min.

Final Shut-In

Breakdown: 10 Inc.

of 3 mins. and a

final inc. of _____ Min.

Point Mins.

Press.

Point Minutes

Press.

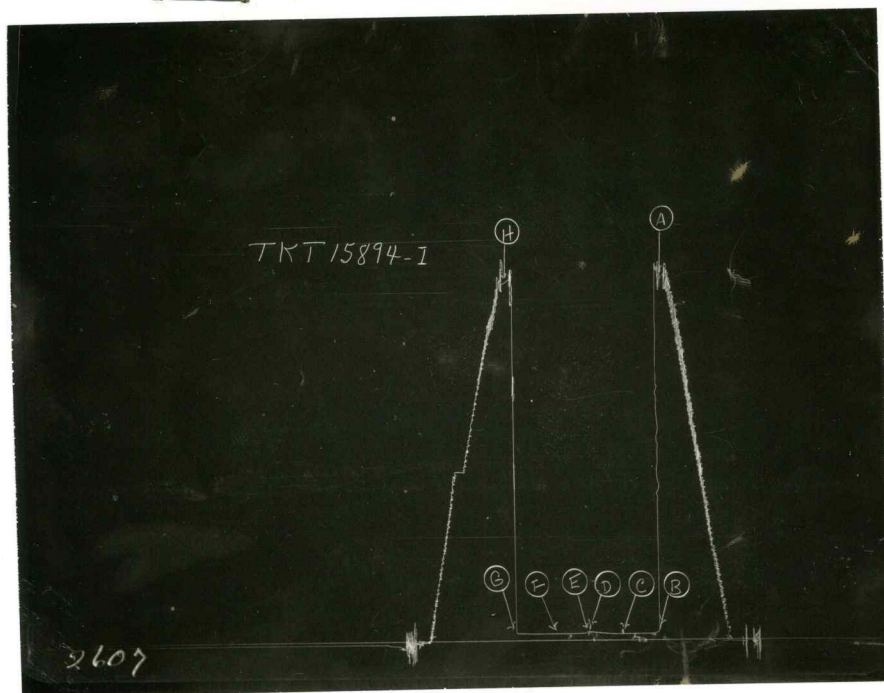
Point Minutes

Press.

Point Minutes

Press.

P 1	<u>0</u>	<u>32</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>35</u>
P 2	<u>5</u>	<u>32</u>	<u>3</u>	<u>32</u>	<u>5</u>	<u>35</u>	<u>3</u>	<u>35</u>
P 3	<u>10</u>	<u>32</u>	<u>6</u>	<u>34</u>	<u>10</u>	<u>35</u>	<u>6</u>	<u>35</u>
P 4	<u>15</u>	<u>32</u>	<u>9</u>	<u>36</u>	<u>15</u>	<u>35</u>	<u>9</u>	<u>35</u>
P 5	<u>20</u>	<u>32</u>	<u>12</u>	<u>38</u>	<u>20</u>	<u>35</u>	<u>12</u>	<u>36</u>
P 6	<u>25</u>	<u>32</u>	<u>15</u>	<u>39</u>	<u>25</u>	<u>35</u>	<u>15</u>	<u>36</u>
P 7	<u>30</u>	<u>32</u>	<u>18</u>	<u>40</u>	<u>30</u>	<u>35</u>	<u>18</u>	<u>37</u>
P 8			<u>21</u>	<u>42</u>			<u>21</u>	<u>37</u>
P 9			<u>24</u>	<u>44</u>			<u>24</u>	<u>38</u>
P10			<u>27</u>	<u>46</u>			<u>27</u>	<u>38</u>
P11			<u>30</u>	<u>48</u>			<u>30</u>	<u>39</u>
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

PRESSURE

POINT

	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2268	2211	PSI
(B) First Initial Flow Pressure	36	32	PSI
(C) First Final Flow Pressure	36	32	PSI
(D) Initial Closed-in Pressure	53	48	PSI
(E) Second Initial Flow Pressure	36	35	PSI
(F) Second Final Flow Pressure	36	35	PSI
(G) Final Closed-in Pressure	42	39	PSI
(H) Final Hydrostatic Mud	2257	2201	PSI