



Home Office: Great Bend, Kansas
 P. O. Box 793 Gladstone 3-7903

Company Bowers Drilling Company Lease & Well No. Curtis #1
 Elevation 1920' D.F. Ticket Number 3819
 Date 3-28-64 Sec. 36 Twp. 21 Range 14 County Stafford State Kansas
 Test Approved by Robert E. McCann Western Representative George Tew

Formation Test No. 1 O.K. Misrun Interval Tested From 3393' to 3440' Total Depth 3440'
 Size Main Hole 7 7/8" Rat Hole None Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Packer Depth 3393 Ft. Size 6 3/4" Packer Depth 3388 Ft. Size 6 3/4"
 Straddle Yes No Conv. B.T. Damaged Yes No
 Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" IF Anchor Length 47 Ft. Size 30' D.P.
17' 5 1/2" OD Anchor

RECORDERS	Depth <u>3400</u> Ft	Clock No. <u>6861</u>	Depth <u>3403</u> Ft.	Clock No. <u>144</u>
	Top Make <u>Amerada</u> Cap. <u>4200#</u> No. <u>1558</u>	Inside <input type="checkbox"/> Outside <input type="checkbox"/>	Bottom Make <u>Western</u> Cap. <u>4000#</u> No. <u>60</u>	Inside <input type="checkbox"/> Outside <input type="checkbox"/>
Below Straddle:	Depth _____ Clock No. _____	Inside <input type="checkbox"/> Outside <input type="checkbox"/>	Depth _____ Fr. _____ Clock No. _____	Inside <input type="checkbox"/> Outside <input type="checkbox"/>
	Top Make _____ Cap. _____ No. _____	Inside <input type="checkbox"/> Outside <input type="checkbox"/>	Bottom Make _____ Cap. _____ No. _____	Inside <input type="checkbox"/> Outside <input type="checkbox"/>

Time Set Packer 12:42A M
 Tool Open I.F.P. From 12:50A M to 12:55A M - Hr. 5 Min. From (B) 25 P.S.I. To (C) 25 P.S.I.
 Tool Closed I.C.I.P. From 12:55A M. to 1:25A M. - Hr. 30 Min. (D) 924 P.S.I.
 Tool Open F.F.P. From 1:25A M. to 3:25A M. 2 Hr. - Min. From (E) 44 P.S.I. To (F) 66 P.S.I.
 Tool Closed F.C.I.P. From 3:25A M. to 3:55A M. - Hr. 30 Min. (G) 558 P.S.I.
 Initial Hydrostatic Pressure (A) 1848 P.S.I. Final Hydrostatic Pressure (H) 1826 P.S.I.

SURFACE INFORMATION	Size Choke <u>1/2</u> In.	Max. Press. P.S.I.	Time	Description of Flow
	_____	_____	_____ M.	_____
	_____	_____	_____ M.	_____
	_____	_____	_____ M.	_____

BLOW Weak blow for 3 mins. - Flushed tool - No help Bottom Choke Size 3/4 in.
 Did Well Flow Yes No Recovery Total Ft. 140' - 20' S.O.C. Mud - 120' S.O.C. Thin Mud

Reversed Out Yes No Mud Type Starch Viscosity 40 Weight 10.2 Maximum Temp. 103 °F
 EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make _____ Ser. No. _____
 Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes
 Length Drill Pipe 3253 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 120 ft.
 I. D. Drill Collars 2.25 in. Length D. S. T. Tool 67 ft.

Remarks
Long F.F.P. was due to working on rig

WESTERN TESTING CO., INC.

Pressure Data

Date 3-28-64 Test Ticket No. 3819
 Recorder No. 1558 Capacity 4200# Location 3400 Ft.
 Clock No. 6861 Elevation 1920' D.F. Well Temperature 103 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1848</u> P.S.I.	<u>12:42</u> A	<u>12:42</u> AM
B First Initial Flow Pressure	<u>25</u> P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>25</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>924</u> P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>44</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>66</u> P.S.I.		
G Final Closed-in Pressure	<u>558</u> P.S.I.		
H Final Hydrostatic Mud	<u>1826</u> P.S.I.		

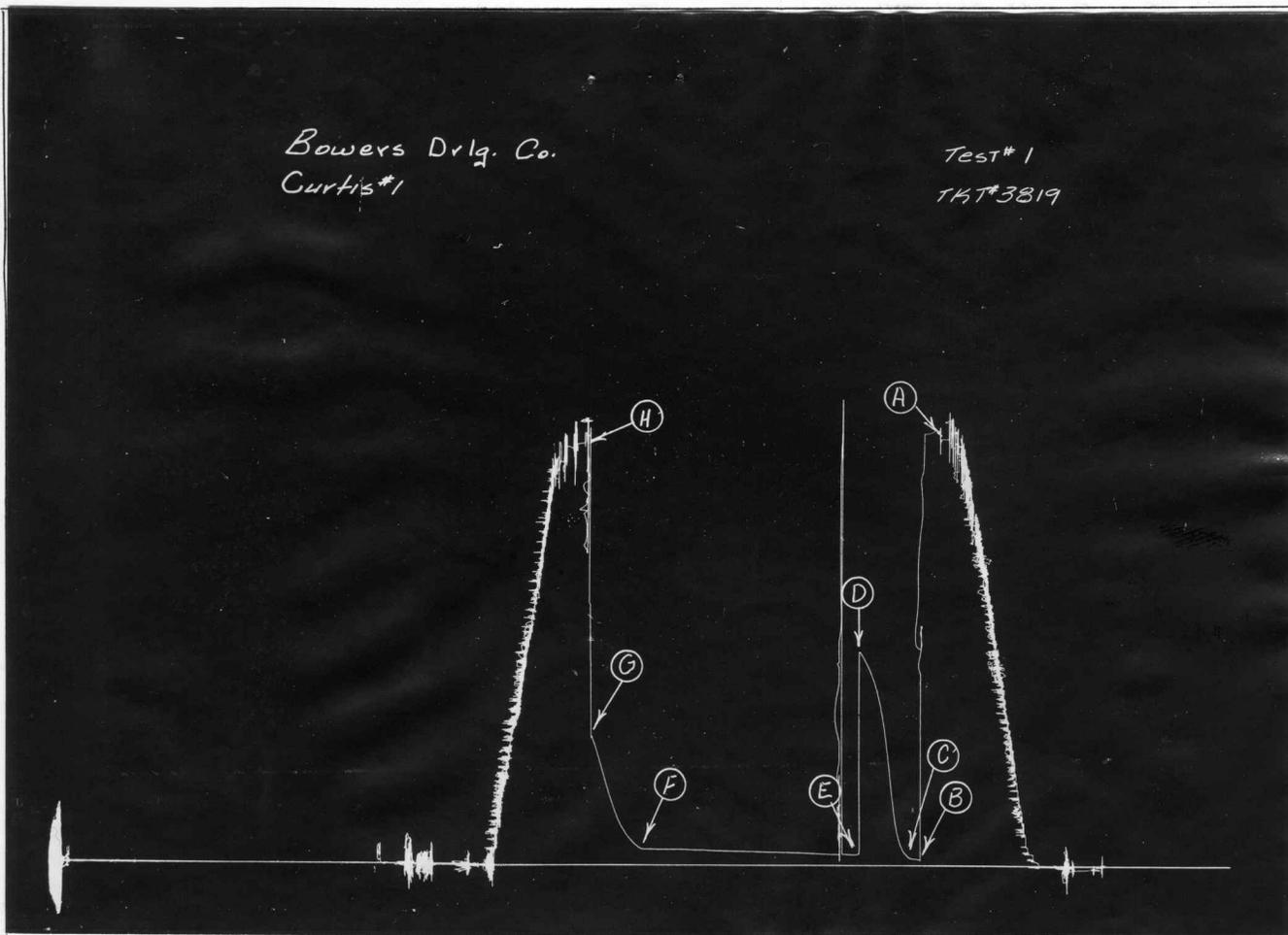
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>24</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.
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Point Mins.	First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>25</u>	<u>0</u>	<u>25</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>66</u>
P 2	<u>5</u>	<u>25</u>	<u>3</u>	<u>42</u>	<u>5</u>	<u>44</u>	<u>3</u>	<u>80</u>
P 3			<u>6</u>	<u>73</u>	<u>10</u>	<u>44</u>	<u>6</u>	<u>99</u>
P 4			<u>9</u>	<u>137</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>128</u>
P 5			<u>12</u>	<u>272</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>158</u>
P 6			<u>15</u>	<u>436</u>	<u>25</u>	<u>48</u>	<u>15</u>	<u>202</u>
P 7			<u>18</u>	<u>610</u>	<u>30</u>	<u>51</u>	<u>18</u>	<u>265</u>
P 8			<u>21</u>	<u>710</u>	<u>35</u>	<u>52</u>	<u>21</u>	<u>337</u>
P 9			<u>24</u>	<u>793</u>	<u>40</u>	<u>53</u>	<u>24</u>	<u>411</u>
P10			<u>27</u>	<u>843</u>	<u>45</u>	<u>53</u>	<u>27</u>	<u>489</u>
P11			<u>30</u>	<u>891</u>	<u>50</u>	<u>54</u>	<u>30</u>	<u>558</u>
P12			<u>33</u>	<u>924</u>	<u>55</u>	<u>55</u>		
P13					<u>60</u>	<u>56</u>		
P14					<u>65</u>	<u>56</u>		
P15					<u>70</u>	<u>57</u>		
P16					<u>75</u>	<u>58</u>		
P17					<u>80</u>	<u>59</u>		
P18					<u>85</u>	<u>61</u>		
P19					<u>90</u>	<u>62</u>		
P20					<u>95</u>	<u>63</u>		
					<u>100</u>	<u>65</u>		
					<u>105</u>	<u>66</u>		
					<u>110</u>	<u>66</u>		
					<u>115</u>	<u>66</u>		
					<u>120</u>	<u>66</u>		

Bowers Drilg. Co.
Curtis #1

Test # 1
TKT 3819



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	1848	PSI
(B) First Initial Flow Pressure	25	PSI
(C) First Final Flow Pressure	25	PSI
(D) Initial Closed-in Pressure	924	PSI
(E) Second Initial Flow Pressure	44	PSI
(F) Second Final Flow Pressure	66	PSI
(G) Final Closed-in Pressure	558	PSI
(H) Final Hydrostatic Mud	1826	PSI



Home Office: Great Bend, Kansas
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Company Bowers Drilling Co. Lease & Well No. Curtis #1
 Elevation 1920' D.F. Ticket Number 3820
 Date 3-28-64 Sec. 31 Twp. 21 Range 14 County Stafford State Kansas
 Test Approved by Robert McGann Western Representative George Tew

Formation Test No. 2 O.K. Misrun Interval Tested From 3507' to 3538' Total Depth 3538'
 Size Main Hole 7 7/8" Rat Hole None Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Packer Depth 3507 Ft. Size 6 3/4" Packer Depth 3502 Ft. Size 6 3/4"
 Straddle Yes No Conv. B.T. Damaged Yes No
 Packer Depth 3507 Ft. Size 6 3/4"
 Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" IF Anchor Length 31 Ft. Size 5 1/2" OD

RECORDERS Depth 3531 Ft. Clock No. 6861 Depth 3534 Ft. Clock No. 144
 Top Make Amerada Cap. 4200# No. 1558 Inside Outside Bottom Make Western Cap. 4000# No. 60 Inside Outside
 Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside
 Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 10:52P M
 Tool Open I.F.P. From 11:00P M to 11:05P M - Hr. 5 Min. From (B) 35 P.S.I. To (C) 35 P.S.I.
 Tool Closed I.C.I.P. From 11:05P M. to 11:25P M. - Hr. 20 Min. (D) 1010 P.S.I.
 Tool Open F.F.P. From 11:25P M. to 11:55P M. - Hr. 30 Min. From (E) 40 P.S.I. To (F) 46 P.S.I.
 Tool Closed F.C.I.P. From 11:55P M. to 12:15A M. - Hr. 20 Min. (G) 320 P.S.I.
 Initial Hydrostatic Pressure (A) 1881 P.S.I. Final Hydrostatic Pressure (H) 1871 P.S.I.

SURFACE Size Choke 1/2 In. Max. Press. P.S.I. Time Description of Flow
 INFORMATION M.
 M.
 M.

BLOW Few bubbles when tool opened-Flushed tool-No Help Bottom Choke Size 3/4 in.
 Did Well Flow Yes No Recovery Total Ft. 30' Drilling Mud

Reversed Out Yes No Mud Type Starch Viscosity 40 Weight 10. Maximum Temp. 103 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make Ser. No.
 Type Circ. Sub. Plug Did Tool Plug? No Where? Did Packer Hold? Yes
 Length Drill Pipe 3427 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 60 ft.
 I. D. Drill Collars 2.25 in. Length D. S. T. Tool 51 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 3-28-64 Test Ticket No. 3820
 Recorder No. 1558 Capacity 4200# Location 3531 Ft.
 Clock No. 6861 Elevation 1920' D.F. Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1881</u> P.S.I.	Opened Tool	<u>10:52 P</u> M	<u>10:52 PM</u>
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>35</u> P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>23</u> Mins.
D Initial Closed-in Pressure	<u>1010</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>40</u> P.S.I.	Final Closed-in Pressure	<u>20</u> Mins.	<u>21</u> Mins.
F Second Final Flow Pressure	<u>46</u> P.S.I.			
G Final Closed-in Pressure	<u>320</u> P.S.I.			
H Final Hydrostatic Mud	<u>1871</u> P.S.I.			

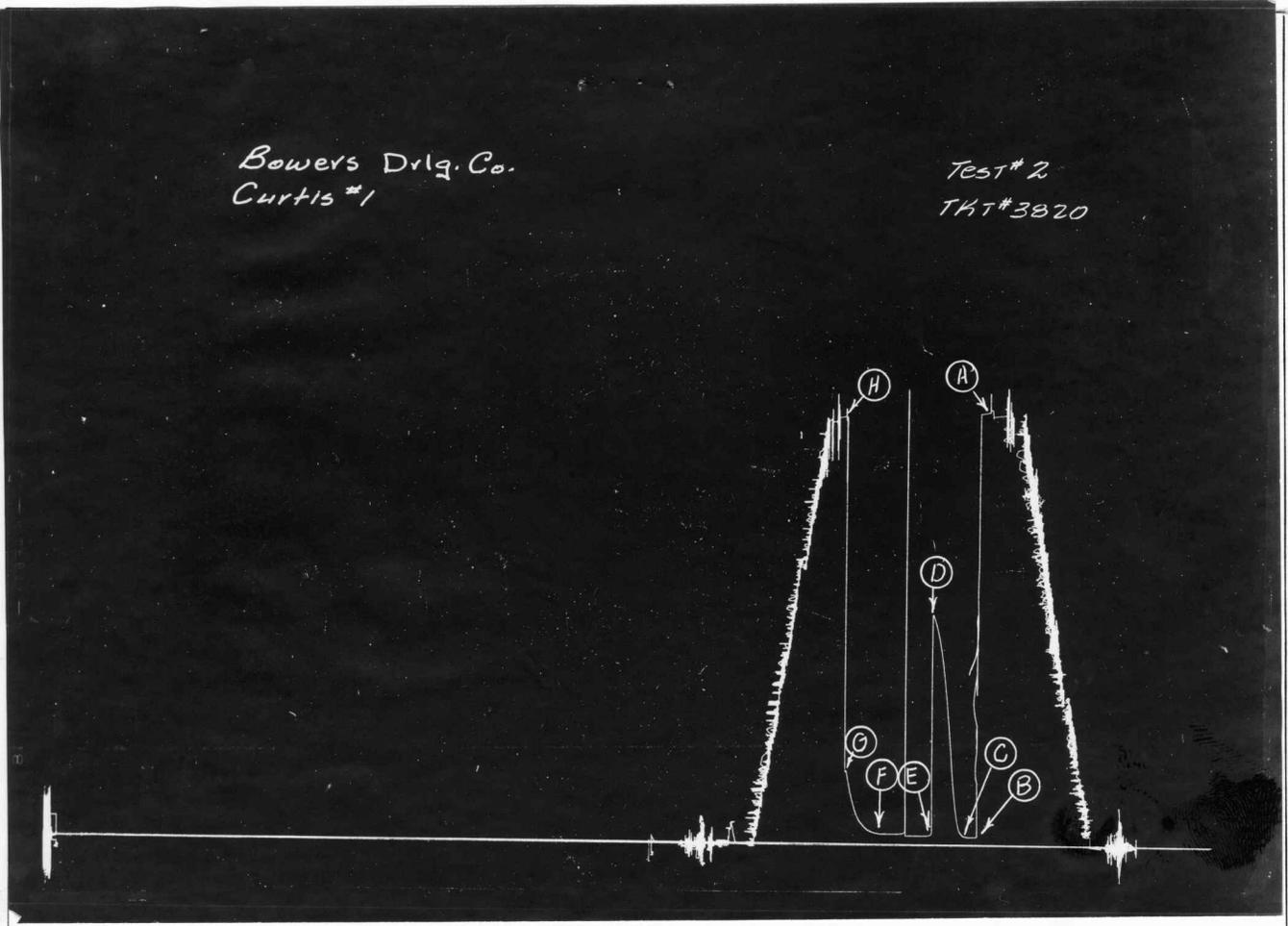
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>7</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>7</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>35</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>46</u>
P 2 <u>5</u>	<u>35</u>	<u>3</u>	<u>44</u>	<u>5</u>	<u>40</u>	<u>3</u>	<u>50</u>
P 3		<u>6</u>	<u>105</u>	<u>10</u>	<u>40</u>	<u>6</u>	<u>56</u>
P 4		<u>9</u>	<u>280</u>	<u>15</u>	<u>40</u>	<u>9</u>	<u>67</u>
P 5		<u>12</u>	<u>518</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>90</u>
P 6		<u>15</u>	<u>712</u>	<u>25</u>	<u>46</u>	<u>15</u>	<u>130</u>
P 7		<u>18</u>	<u>864</u>	<u>30</u>	<u>46</u>	<u>18</u>	<u>198</u>
P 8		<u>21</u>	<u>970</u>			<u>21</u>	<u>320</u>
P 9		<u>23</u>	<u>1010</u>				
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Bowers Drilg. Co.
Curtis #1

TEST # 2
TKT # 3820



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	1881	PSI
(B) First Initial Flow Pressure	35	PSI
(C) First Final Flow Pressure	35	PSI
(D) Initial Closed-in Pressure	1010	PSI
(E) Second Initial Flow Pressure	40	PSI
(F) Second Final Flow Pressure	46	PSI
(G) Final Closed-in Pressure	320	PSI
(H) Final Hydrostatic Mud	1871	PSI



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Bowers Drilling Company Lease & Well No. Curtis #1
Elevation 1920' D.F. Ticket Number 3821
Date 3-29-64 Sec. 31 Twp. 21 Range 14 County Stafford State Kansas
Test Approved by Robert E. McCann Western Representative George Tew

Formation Test No. 3 O.K. Misrun Interval Tested From 3540' to 3585' Total Depth 3585'
Size Main Hole 7 7/8" Rat Hole None Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 3540 Ft. Size 6 3/4" Packer Depth 3535 Ft. Size 6 3/4"
Straddle Yes No Conv. B.T. Damaged Yes No
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" IF Anchor Length 45 Ft. Size 5 1/2" OD

RECORDERS Depth 3543 Ft. Clock No. 6861 Depth 3546 Ft. Clock No. 144
Top Make Amerada Cap. 4200# No. 1558 Inside Outside Bottom Make Western Cap. 4000# No. 60 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside Outside Depth _____ Ft. Clock No. _____ Inside Outside
Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer 11:02A M
Tool Open I.F.P. From 11:10A M to 11:15A M - Hr. 5 Min. From (B) 21 P.S.I. To (C) 21 P.S.I.
Tool Closed I.C.I.P. From 11:15A M. to 11:45A M. - Hr. 30 Min. (D) 1240 P.S.I.
Tool Open F.F.P. From 11:45A M. to 12:45P M. 1 Hr. - Min. From (E) 37 P.S.I. To (F) 37 P.S.I.
Tool Closed F.C.I.P. From 12:45P M. to 1:15P M. - Hr. 30 Min. (G) 1010 P.S.I.
Initial Hydrostatic Pressure (A) 0 1877 P.S.I. Final Hydrostatic Pressure (H) 1858 P.S.I.

SURFACE Size Choke 1/2 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak for 3 mins. - Flushed tool - No help Bottom Choke Size 3/4 in.
Did Well Flow Yes No Recovery Total Ft. 70' Mud with specks of oil

Reversed Out Yes No Mud Type Starch Viscosity 42 Weight 10. Maximum Temp. 103 °F

EXTRA EQUIPMENT: Dual Packers Safety Joint Jars: Size No Make _____ Ser. No. _____
Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes
Length Drill Pipe 3462 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 58 ft.
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 65 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date 3-29-64 Test Ticket No. 3821
 Recorder No. 1558 Capacity 4200# Location 3543 Ft.
 Clock No. 6861 Elevation 1920' D.F. Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1877</u> P.S.I.	Opened Tool	<u>11:02 A</u>	<u>M 11:02 AM</u>
B First Initial Flow Pressure	<u>21</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>21</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1240</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>37</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>37</u> P.S.I.			
G Final Closed-in Pressure	<u>1010</u> P.S.I.			
H Final Hydrostatic Mud	<u>1858</u> P.S.I.			

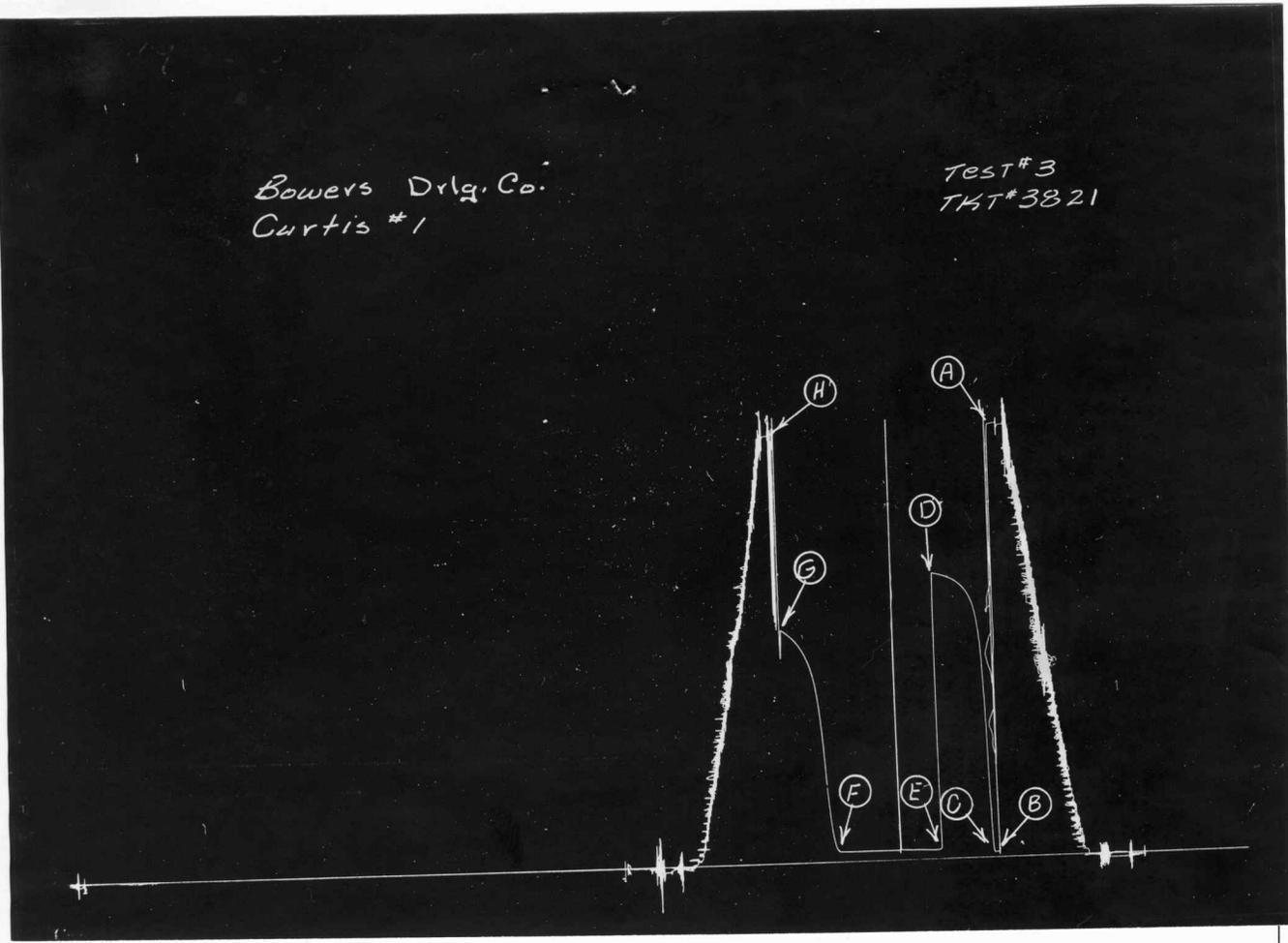
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> <u>21</u>	<u>0</u> <u>21</u>	<u>0</u> <u>37</u>	<u>0</u> <u>37</u>	<u>0</u> <u>37</u>	<u>0</u> <u>37</u>	
P 2	<u>5</u> <u>21</u>	<u>3</u> <u>455</u>	<u>5</u> <u>37</u>	<u>5</u> <u>37</u>	<u>3</u> <u>99</u>	<u>3</u> <u>99</u>	
P 3		<u>6</u> <u>882</u>	<u>10</u> <u>37</u>	<u>10</u> <u>37</u>	<u>6</u> <u>263</u>	<u>6</u> <u>263</u>	
P 4		<u>9</u> <u>1045</u>	<u>15</u> <u>37</u>	<u>15</u> <u>37</u>	<u>9</u> <u>508</u>	<u>9</u> <u>508</u>	
P 5		<u>12</u> <u>1129</u>	<u>20</u> <u>37</u>	<u>20</u> <u>37</u>	<u>12</u> <u>693</u>	<u>12</u> <u>693</u>	
P 6		<u>15</u> <u>1167</u>	<u>25</u> <u>37</u>	<u>25</u> <u>37</u>	<u>15</u> <u>818</u>	<u>15</u> <u>818</u>	
P 7		<u>18</u> <u>1192</u>	<u>30</u> <u>37</u>	<u>30</u> <u>37</u>	<u>18</u> <u>885</u>	<u>18</u> <u>885</u>	
P 8		<u>21</u> <u>1206</u>	<u>35</u> <u>37</u>	<u>35</u> <u>37</u>	<u>21</u> <u>926</u>	<u>21</u> <u>926</u>	
P 9		<u>24</u> <u>1219</u>	<u>40</u> <u>37</u>	<u>40</u> <u>37</u>	<u>24</u> <u>958</u>	<u>24</u> <u>958</u>	
P10		<u>27</u> <u>1229</u>	<u>45</u> <u>37</u>	<u>45</u> <u>37</u>	<u>27</u> <u>977</u>	<u>27</u> <u>977</u>	
P11		<u>30</u> <u>1236</u>	<u>50</u> <u>37</u>	<u>50</u> <u>37</u>	<u>30</u> <u>995</u>	<u>30</u> <u>995</u>	
P12		<u>33</u> <u>1240</u>	<u>55</u> <u>37</u>	<u>55</u> <u>37</u>	<u>33</u> <u>1010</u>	<u>33</u> <u>1010</u>	
P13			<u>60</u> <u>37</u>	<u>60</u> <u>37</u>			
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Bowers Drilg. Co.
Curtis #1

TEST # 3
TKT # 3821



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	1877 PSI
(B) First Initial Flow Pressure	21 PSI
(C) First Final Flow Pressure	21 PSI
(D) Initial Closed-in Pressure	1240 PSI
(E) Second Initial Flow Pressure	37 PSI
(F) Second Final Flow Pressure	37 PSI
(G) Final Closed-in Pressure	1010 PSI
(H) Final Hydrostatic Mud	1858 PSI



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Bowers Drilling Company Lease & Well No. Curtis #1
Elevation 1920' D.F. Ticket Number 3923
Date 3-30-64 Sec. 36 Twp. 21 Range 14 County Stafford State Kansas
Test Approved by Robert E. McCann Western Representative W. M. Nething

Formation Test No. 4 O.K. Misrun Interval Tested From 3753' to 3766' Total Depth 3766'
Size Main Hole 7 7/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 3753 Ft. Size 6 3/4" Packer Depth 3748 Ft. Size 6 3/4"
Straddle Yes No Conv. B.T. Damaged Yes No
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" IF Anchor Length 13 Ft. Size 5 1/2" OD

RECORDERS Depth 3756 Ft. Clock No. 6859 Depth 3758 Ft. Clock No. 143
Top Make Amerada Cap. 3150# No. 1564 Inside Outside Bottom Make Western Cap. 4000# No. 17 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside Outside
Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer 6:25P M
Tool Open I.F.P. From 6:28P M to 6:33P M - Hr. 5 Min. From (B) 63 P.S.I. To (C) 89 P.S.I.
Tool Closed I.C.I.P. From 6:33P M. to 6:53P M. - Hr. 20 Min. (D) 1178 P.S.I.
Tool Open F.F.P. From 6:53P M. to 7:23P M. - Hr. 30 Min. From (E) 114 P.S.I. To (F) 342 P.S.I.
Tool Closed F.C.I.P. From 7:23P M. to 7:43P M. - Hr. 20 Min. (G) 1121 P.S.I.
Initial Hydrostatic Pressure (A) 1998 P.S.I. Final Hydrostatic Pressure (H) 1990 P.S.I.

SURFACE Size Choke 1/2 in. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Good blow throughout test Bottom Choke Size 3/4 in.
Did Well Flow Yes No Recovery Total Ft. 793' Sulphur Water with scum of oil

Reversed Out. Yes No Mud Type Starch Viscosity 41 Weight 10 Maximum Temp. 114 °F

EXTRA EQUIPMENT: Dual Packers Dual Safety Joint No Jars: Size No Make _____ Ser. No. _____
Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes
Length Drill Pipe 3673 ft. I.D. Drill Pipe _____ in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 60 ft.
I. D. Drill Collars 2 1/4" in. Length D. S. T. Tool 33 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 3-30-64 Test Ticket No. 3923
 Recorder No. 1564 Capacity 3150# Location 3756 Ft.
 Clock No. 6859 Elevation 1920' D.F. Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1998</u> P.S.I.	Opened Tool	<u>6:25</u> P	<u>6:25</u> PM
B First Initial Flow Pressure	<u>63</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>89</u> P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>21</u> Mins.
D Initial Closed-in Pressure	<u>1178</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>114</u> P.S.I.	Final Closed-in Pressure	<u>20</u> Mins.	<u>24</u> Mins.
F Second Final Flow Pressure	<u>342</u> P.S.I.			
G Final Closed-in Pressure	<u>1121</u> P.S.I.			
H Final Hydrostatic Mud	<u>1990</u> P.S.I.			

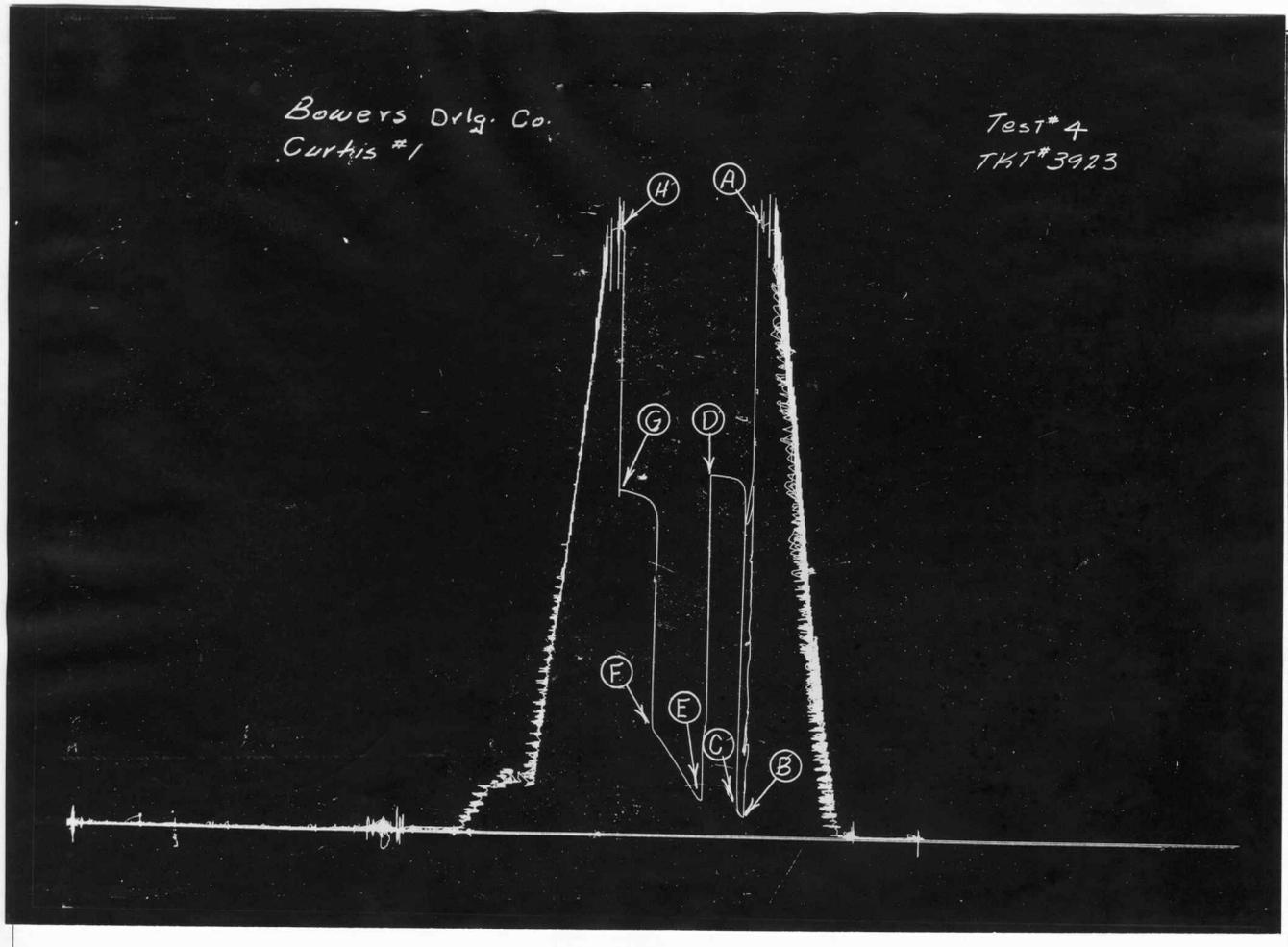
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>7</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>8</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>63</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>114</u>	<u>0</u>	<u>342</u>
P 2 <u>5</u>	<u>89</u>	<u>3</u>	<u>1148</u>	<u>5</u>	<u>138</u>	<u>3</u>	<u>1067</u>
P 3		<u>6</u>	<u>1164</u>	<u>10</u>	<u>181</u>	<u>6</u>	<u>1090</u>
P 4		<u>9</u>	<u>1169</u>	<u>15</u>	<u>225</u>	<u>9</u>	<u>1101</u>
P 5		<u>12</u>	<u>1172</u>	<u>20</u>	<u>266</u>	<u>12</u>	<u>1107</u>
P 6		<u>15</u>	<u>1175</u>	<u>25</u>	<u>305</u>	<u>15</u>	<u>1112</u>
P 7		<u>18</u>	<u>1178</u>	<u>30</u>	<u>342</u>	<u>18</u>	<u>1116</u>
P 8		<u>21</u>	<u>1178</u>			<u>21</u>	<u>1120</u>
P 9						<u>24</u>	<u>1121</u>
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Bowers Drilg. Co.
Curtis #1

Test # 4
TKT # 3923



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	1998	PSI
(B) First Initial Flow Pressure	63	PSI
(C) First Final Flow Pressure	89	PSI
(D) Initial Closed-in Pressure	1178	PSI
(E) Second Initial Flow Pressure	114	PSI
(F) Second Final Flow Pressure	342	PSI
(G) Final Closed-in Pressure	1121	PSI
(H) Final Hydrostatic Mud	1990	PSI