



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

Company Bowers Drilling Company Lease & Well No. Boggs #C-1  
 Elevation 1513 Derrick Floor Formation- Viola Ticket Number 4232  
 Date April 4, 1965 Sec. 9 Twp. 33s Range 12w County Barber State Kansas  
 Test Approved by Robert E. McCann Western Representative George Tew

Formation Test No. 1 O.K.  Misrun \_\_\_\_\_ Interval Tested From 4669' to 4690' Total Depth 4690'  
 Size Main Hole 7 7/8 Rat Hole None Conv. \_\_\_\_\_ B.T.  Damaged Yes  No \_\_\_\_\_ Conv.  B.T. \_\_\_\_\_ Damaged Yes  No \_\_\_\_\_  
 Packer Depth 4669 Ft. Size 6 3/4 Packer Depth 4664 Ft. Size 6 3/4  
 Straddle Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No \_\_\_\_\_  
 Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
 Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 21 Ft. Size 5 1/2 OD

RECORDERS	Depth <u>4683</u> Ft	Clock No. <u>6861</u>	Depth <u>4686</u> Ft.	Clock No. <u>105</u>
	Top Make <u>Kuster</u> Cap. <u>4200</u> No. <u>1559</u>	Inside _____ Outside _____	Bottom Make <u>Western</u> Cap. <u>4000</u> No. <u>60</u>	Inside _____ Outside _____
Below Straddle:	Depth _____	Clock No. _____	Depth _____	Clock No. _____
	Top Make _____ Cap. _____ No. _____	Inside _____ Outside _____	Bottom Make _____ Cap. _____ No. _____	Inside _____ Outside _____

Time Set Packer 1:07 P M  
 Tool Open I.F.P. From 1:10P M to 1:15P M Hr. 5 Min. From (B) 50 P.S.I. To (C) 50 P.S.I.  
 Tool Closed I.C.I.P. From 1:15P M. to 1:45 M. Hr. 30 Min. (D) 84 P.S.I.  
 Tool Open F.F.P. From 1:45P M. to 2:45 M. 1 Hr. Min. From (E) 56 P.S.I. To (F) 63 P.S.I.  
 Tool Closed F.C.I.P. From 2:45P M. to 3:15 M. Hr. 30 Min. (G) 122 P.S.I.  
 Initial Hydrostatic Pressure (A) 2591 P.S.I. Final Hydrostatic Pressure (H) 2563 P.S.I.

SURFACE	Size Choke <u>3/4</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	_____	_____	M. _____	_____
	_____	_____	M. _____	_____
	_____	_____	M. _____	_____

BLOW Fair blow throughout test. Bottom Choke Size 3/4 in.  
 Did Well Flow Yes  No  Recovery Total Ft. 80' slightly gas cut mud

Reversed Out Yes  No \_\_\_\_\_ Mud Type starch Viscosity 48 Weight 10.1 Maximum Temp. 125 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_

Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes

Length Drill Pipe 4362 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe \_\_\_\_\_ ft. I.D. Weight Pipe \_\_\_\_\_ in. Length Drill Collars 287 ft.

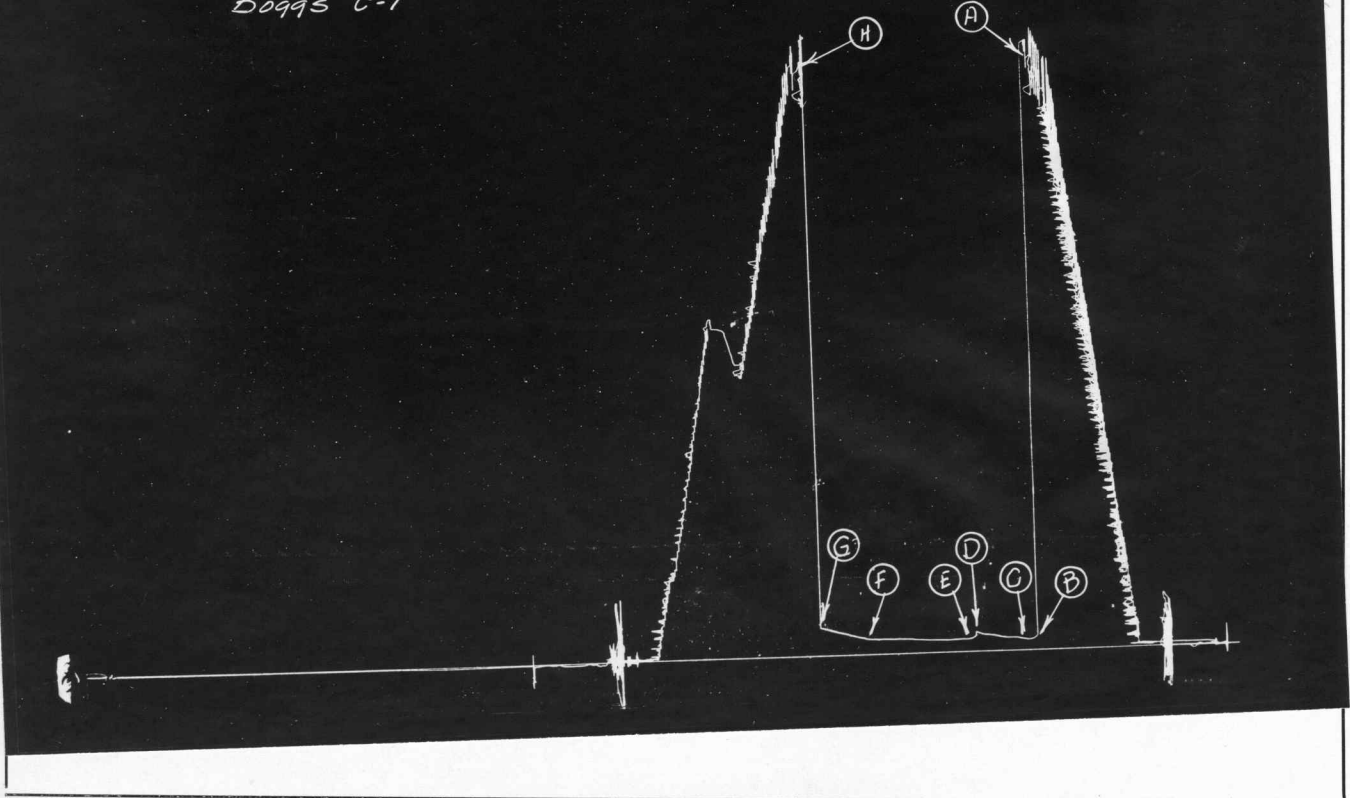
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 41 ft.

Remarks



Bowers Drlg. Co.  
Boggs #C-1

TEST #1  
TKT# 4232



This is an actual photograph of recorder chart.

**POINT**

**PRESSURE**

(A) Initial Hydrostatic Mud .....	2591	PSI
(B) First Initial Flow Pressure .....	50	PSI
(C) First Final Flow Pressure .....	50	PSI
(D) Initial Closed-in Pressure .....	84	PSI
(E) Second Initial Flow Pressure .....	56	PSI
(F) Second Final Flow Pressure .....	63	PSI
(G) Final Closed-in Pressure .....	122	PSI
(H) Final Hydrostatic Mud .....	2563	PSI



TIGHT HOLE

TIGHT HOLE

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

Company Bowers Drilling Company Lease & Well No. Boggs #C-1  
Elevation 1513 Derrick Floor; Formation- Simpson Ticket Number 4219  
Date April 6, 1965 Sec. 9 Twp. 33s Range 12w County Barber State Kansas  
Test Approved by Robert E. McCann Western Representative Guy M. Knipe

Formation Test No. 2 O.K.  Misrun \_\_\_\_\_ Interval Tested From 4769' to 4792' Total Depth 4792'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged Yes  No Conv.  B.T. \_\_\_\_\_ Damaged Yes  No  
Packer Depth 4766 Ft. Size 6 3/4 Packer Depth 4769 Ft. Size 6 3/4  
Straddle \_\_\_\_\_ Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No  
Tool Size 5 1/2 OD Packer Depth 4766 Ft. Size \_\_\_\_\_  
Tool Jt. Size 4 1/2 FH Anchor Length 23 Ft. Size 5 1/2 OD

RECORDERS Depth 4784 Ft. Clock No. 5665 Depth 4787 Ft. Clock No. 150  
Top Make Kuster Cap. 4200 No. 1558 ~~Inside~~ Bottom Make Western Cap. 4000 No. 59 ~~Inside~~  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ ~~Inside~~ Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ ~~Inside~~  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ ~~Outside~~ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ ~~Outside~~

Time Set Packer 5:27 A M  
Tool Open I.F.P. From 5:29A M to 5:35 M Hr. 6 Min. From (B) 132 P.S.I. To (C) 132 P.S.I.  
Tool Closed I.C.I.P. From 5:35A M. to 6:05A M. Hr. 30 Min. (D) 371 P.S.I.  
Tool Open F.F.P. From 6:05A M. to 7:05A M. 1 Hr. Min. From (E) 143 P.S.I. To (F) 177 P.S.I.  
Tool Closed F.C.I.P. From 7:05A M. to 7:45A M. Hr. 40 Min. (G) 364 P.S.I.  
Initial Hydrostatic Pressure (A) 2582 P.S.I. Final Hydrostatic Pressure (H) 2572 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow  
INFORMATION \_\_\_\_\_ 21" water 5 min. 648,000 C. F.  
\_\_\_\_\_ 2 lb. 20 1,020,000 M.C.F.  
\_\_\_\_\_ 2 lb. 60 1,020,000 M.C.F.

BLOW Strong gas to surface in four minutes. Bottom Choke Size 3/4 in.  
Did Well Flow  Yes \_\_\_\_\_ No Recovery Total Ft. No Fluid.

Reversed Out \_\_\_\_\_ Yes \_\_\_\_\_ No Mud Type starch Viscosity 47 Weight 10.2 Maximum Temp. 129 °F  
EXTRA EQUIPMENT: Dual Packers yes Safety Joint yes Jars: Size 4 1/2 OD Make Bowen Ser. No. 2638  
Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? \_\_\_\_\_  
Length Drill Pipe 4627 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe \_\_\_\_\_ ft. I.D. Weight Pipe \_\_\_\_\_ in. Length Drill Collars 112 ft.  
I. D. Drill Collars 2 1/4 in. Length D. S. T. Tool 53 ft.

Remarks  
  
TIGHT HOLE



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

Date April 6, 1965 Test Ticket No. 4219  
 Recorder No. 1558 Capacity 4200 Location 4784 Ft.  
 Clock No. 5665 Elevation 1513 Derrick Floor Well Temperature 129 °F

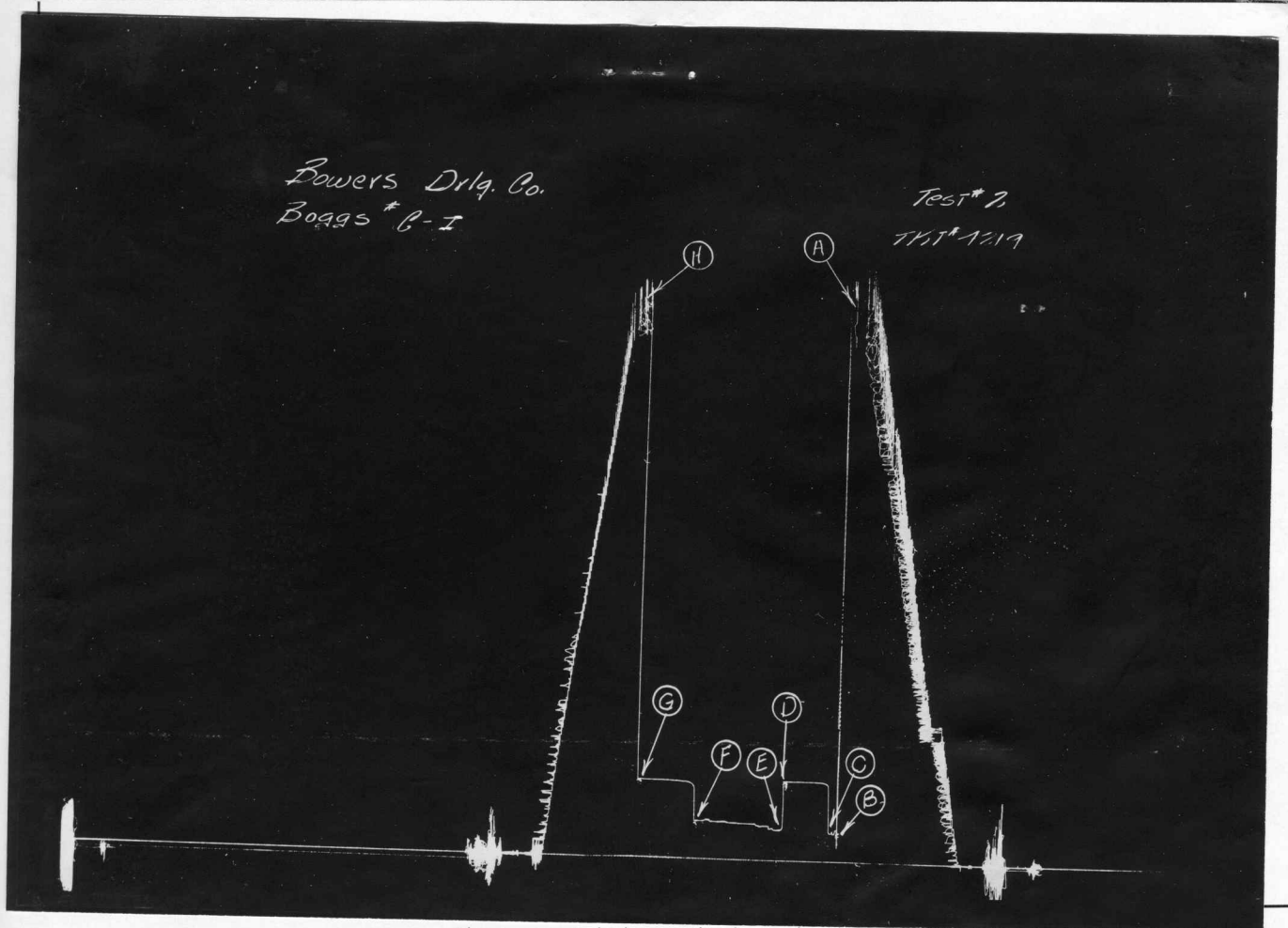
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2582</u> P.S.I.	Opened Tool	<u>5:27</u> A M	
B First Initial Flow Pressure	<u>132</u> P.S.I.	First Flow Pressure	<u>6</u> Mins.	<u>6</u> Mins.
C First Final Flow Pressure	<u>132</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
D Initial Closed-in Pressure	<u>371</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>143</u> P.S.I.	Final Closed-in Pressure	<u>40</u> Mins.	<u>38</u> Mins.
F Second Final Flow Pressure	<u>177</u> P.S.I.			
G Final Closed-in Pressure	<u>364</u> P.S.I.			
H Final Hydrostatic Mud	<u>2572</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown	Inc.	Breakdown	Inc.	Breakdown	Inc.	Breakdown	Inc.
	<u>1</u>		<u>9</u>		<u>11</u>		<u>12</u>	
	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>1</u> Min.		final inc. of <u>2</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>2</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>132</u>	<u>0</u>	<u>132</u>	<u>0</u>	<u>143</u>	<u>0</u>	<u>177</u>	
P 2 <u>5</u>	<u>132</u>	<u>3</u>	<u>369</u>	<u>5</u>	<u>149</u>	<u>3</u>	<u>358</u>	
P 3 <u>6</u>	<u>132</u>	<u>6</u>	<u>371</u>	<u>10</u>	<u>160</u>	<u>6</u>	<u>360</u>	
P 4		<u>9</u>	<u>371</u>	<u>15</u>	<u>166</u>	<u>9</u>	<u>362</u>	
P 5		<u>12</u>	<u>371</u>	<u>20</u>	<u>168</u>	<u>12</u>	<u>364</u>	
P 6		<u>15</u>	<u>371</u>	<u>25</u>	<u>168</u>	<u>15</u>	<u>364</u>	
P 7		<u>18</u>	<u>371</u>	<u>30</u>	<u>172</u>	<u>18</u>	<u>364</u>	
P 8		<u>21</u>	<u>371</u>	<u>35</u>	<u>177</u>	<u>21</u>	<u>364</u>	
P 9		<u>24</u>	<u>371</u>	<u>40</u>	<u>179</u>	<u>24</u>	<u>364</u>	
P10		<u>27</u>	<u>371</u>	<u>45</u>	<u>181</u>	<u>27</u>	<u>364</u>	
P11		<u>29</u>	<u>371</u>	<u>50</u>	<u>179</u>	<u>30</u>	<u>364</u>	
P12				<u>55</u>	<u>177</u>	<u>33</u>	<u>364</u>	
P13						<u>36</u>	<u>364</u>	
P14						<u>38</u>	<u>364</u>	
P15								
P16								
P17								
P18								
P19								
P20								

*Powers Drilg. Co.  
Boggs # C-I*

*Test # 2  
TWT # 1219*



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud .....	2582 PSI
(B) First Initial Flow Pressure .....	132 PSI
(C) First Final Flow Pressure .....	132 PSI
(D) Initial Closed-in Pressure .....	371 PSI
(E) Second Initial Flow Pressure .....	143 PSI
(F) Second Final Flow Pressure .....	177 PSI
(G) Final Closed-in Pressure .....	364 PSI
(H) Final Hydrostatic Mud .....	2572 PSI