



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

Company Catt Drilling Co. Lease & Well No. Pierce #3  
Elevation 1188 Kelly Bushings Formation Laton Effective Pay \_\_\_\_\_ Ft. Ticket No. 15532  
Date 6-5-71 Sec. 24 Twp. 31 Range 4E County Cowley State Kansas  
Test Approved by Robert R. Boley Western Representative George Tew  
Formation Test No. 1 O.K.  Misrun \_\_\_\_\_ Interval Tested From 2225' to 2240' Total Depth 2240'  
Size Main Hole 7 7/8" Rat Hole None Conv.  B.T. \_\_\_\_\_ Damaged Yes  No Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No  
Packer Depth 2225 Ft. Size 6 3/4" Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Straddle Yes \_\_\_\_\_ No  Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" X.H. Anchor Length 15 Ft. Size 5 1/2" O.D.  
RECORDERS Depth 2232 Ft. Clock No. 68WB96 Depth 2235 Ft. Clock No. 4864  
Top Make Kuster Cap. 4500 No. 3086 Inside Outside Bottom Make Kuster Cap. 4300 No. 1566 Inside Outside  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 1:22 A. M  
Tool Open I.F.P. From 1:25 M. to 2:25A. M. 1 Hr. Min. From (B) 9 P.S.I. To (C) 11 P.S.I.  
Tool Closed I.C.I.P. From \_\_\_\_\_ M. to \_\_\_\_\_ M. Hr. \_\_\_\_\_ Min. (D) \_\_\_\_\_ P.S.I.  
Tool Open F.F.P. From \_\_\_\_\_ M. to \_\_\_\_\_ M. Hr. \_\_\_\_\_ Min. From (E) \_\_\_\_\_ P.S.I. To (F) \_\_\_\_\_ P.S.I.  
Tool Closed F.C.I.P. From 2:25 M. to 2:55A. M. 30 Hr. Min. (G) 451 P.S.I.  
Initial Hydrostatic Pressure (A) 1176 P.S.I. Final Hydrostatic Pressure (H) 1146 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak to dead in 30 min. Bottom Choke Size 3/4 In.  
Did Well Flow Yes  No \_\_\_\_\_ Recovery Total Ft. 20 feet thin mud with few specks of oil

Reversed Out Yes  No \_\_\_\_\_ Mud Type Gel Viscosity 35 Weight 8.8 Water Loss 16 cc. Maximum Temp. 98 °F  
Type Circ. Sub. Plug Did Tool Plug?  Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers  Safety Joint  Did Packer Hold?  Where? \_\_\_\_\_  
Length Drill Pipe 2060 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe \_\_\_\_\_ ft. I.D. Weight Pipe \_\_\_\_\_ in. Length Drill Collars 150 ft.  
I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 30 ft.

Remarks \_\_\_\_\_  
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WESTERN TESTING CO., INC.

Pressure Data

Date 6-5-71  
 Recorder No. 3086  
 Clock No. 6896

Capacity 4500

Test Ticket No. 2232  
 Location 98  
 Well Temperature 98

Elevation 1188 Kelly Bushings

Point	Pressure	
A Initial Hydrostatic Mud	<u>1176</u>	P.S.I.
B First Initial Flow Pressure	<u>9</u>	P.S.I.
C First Final Flow Pressure	<u>11</u>	P.S.I.
D Initial Closed-in Pressure	<u>Not taken</u>	P.S.I.
E Second Initial Flow Pressure	<u>" "</u>	P.S.I.
F Second Final Flow Pressure	<u>" "</u>	P.S.I.
G Final Closed-in Pressure	<u>451</u>	P.S.I.
H Final Hydrostatic Mud	<u>1146</u>	P.S.I.

Open Tool  
 First Flow Pressure  
 Initial Closed-in Pressure  
 Second Flow Pressure  
 Final Closed-in Pressure

Time Given	Time Computed
<u>1:25 A.</u>	<u>M</u>
<u>60</u>	<u>60</u>
<u>Not Taken</u>	<u>Not Taken</u>
<u>30</u>	<u>30</u>

PRESSURE BREAKDOWN

**First Flow Pressure**  
 Breakdown: 12 Inc.  
 of 5 mins. and a  
 final inc. of \_\_\_\_\_ Min.

**Initial Shut-In**  
 Breakdown: \_\_\_\_\_ Inc.  
 of \_\_\_\_\_ mins. and a  
 final inc. of \_\_\_\_\_ Min.

**Second Flow Pressure**  
 Breakdown: \_\_\_\_\_ Inc.  
 of \_\_\_\_\_ 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.	Initial Shut-In		Second Flow Pressure		Final Shut-In	
		Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
0	9	Not Taken		Not Taken		0	11
P 1	9					3	13
P 2	9					6	16
P 3	9					9	28
P 4	9					12	61
P 5	10					15	135
P 6	10					18	203
P 7	10					21	277
P 8	11					24	343
P 9	11					27	400
P10	11					30	451
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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T.K.T. 15532  
Inside

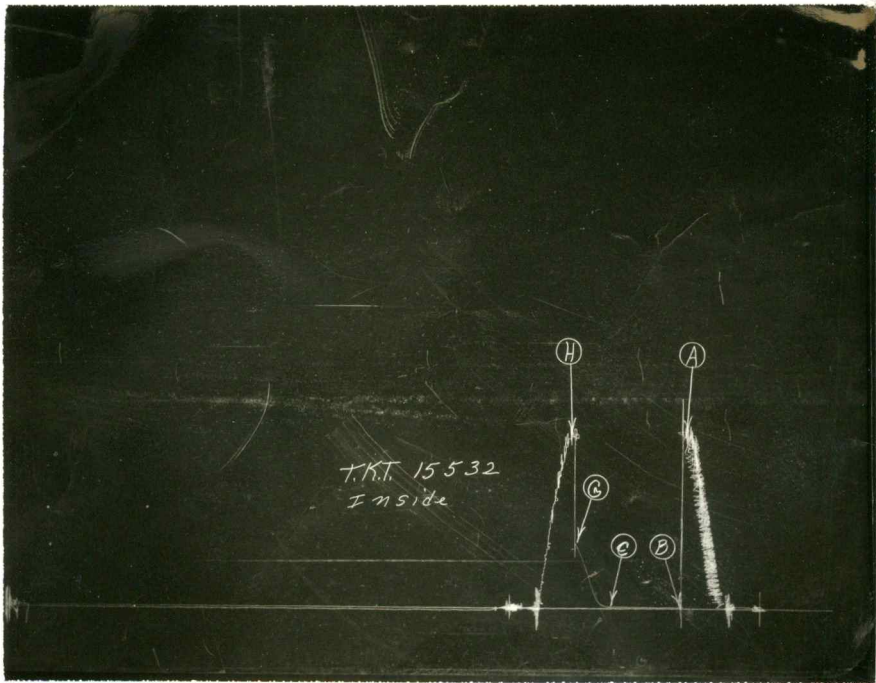
H

A

C

a

b





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P. O. Box 793 (316) 793-7903

Company Catt Drilling Co. Lease & Well No. Pierce #3  
Elevation 1188 Kelly Bushings Formation Layton Effective Pay \_\_\_\_\_ Ft. Ticket No. 15533  
Date 6-5-71 Sec. 24 Twp. 31 Range 4E County Cowley State Kansas  
Test Approved by Robert R. Boley Western Representative George Tew

Formation Test No. 2 O.K.  Misrun \_\_\_\_\_ Interval Tested From 2240' to 2250' Total Depth 2250'  
Size Main Hole 7 7/8" Rat Hole None Conv.  B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes  No Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No  
Packer Depth 2240 Ft. Size 6 3/4" Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
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 10 Ft. Size 5 1/2" O.D.

RECORDERS Depth 2244 Ft. Clock No. 6896 Depth 2247 Ft. Clock No. 4864  
Top Make Kuster Cap. 4500 No. 3086 Inside Outside Bottom Make Kuster Cap. 4300 No. 1566 Inside Outside  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 7:42 A.M.  
Tool Open I.F.P. From 7:45 M. to 8:15A. M. Hr. 30 Min. From (B) 11 P.S.I. To (C) 13 P.S.I.  
Tool Closed I.C.I.P. From \_\_\_\_\_ M. to \_\_\_\_\_ M. Hr. \_\_\_\_\_ Min. (D) \_\_\_\_\_ P.S.I.  
Tool Open F.F.P. From \_\_\_\_\_ M. to \_\_\_\_\_ M. Hr. \_\_\_\_\_ Min. From (E) \_\_\_\_\_ P.S.I. To (F) \_\_\_\_\_ P.S.I.  
Tool Closed F.C.I.P. From 8:15 M. to 8:45A. M. Hr. 30 Min. (G) 143 P.S.I.  
Initial Hydrostatic Pressure (A) 1191 P.S.I. Final Hydrostatic Pressure (H) 1187 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak to dead in 15 min. Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 10 feet mud with show of oil

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type Gel Viscosity 35 Weight 8.8 Water Loss 16 cc. Maximum Temp. 98 °F  
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2075 ft. I.D. Drill Pipe 3.3 in. Length Weight Pipe \_\_\_\_\_ ft. I.D. Weight Pipe \_\_\_\_\_ in. Length Drill Collars 150 ft.  
I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 25 ft.

Remarks \_\_\_\_\_

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

Date 6-5-71 Recorder No. 3086 Capacity 4500 Test Ticket No. 15533  
 Clock No. 6896 Elevation 1188 Kelly Bushings Location 2244 Ft. 98  
 Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1191</u>	P.S.I.	<u>7:45 A.</u>	
B First Initial Flow Pressure	<u>11</u>	P.S.I.	<u>30</u>	<u>30</u>
C First Final Flow Pressure	<u>13</u>	P.S.I.	<u>Not</u>	<u>Taken</u>
D Initial Closed-in Pressure	<u>Not Taken</u>	P.S.I.	<u>"</u>	<u>"</u>
E Second Initial Flow Pressure	<u>" "</u>	P.S.I.	<u>30</u>	<u>30</u>
F Second Final Flow Pressure	<u>" "</u>	P.S.I.		
G Final Closed-in Pressure	<u>143</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1187</u>	P.S.I.		

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of _____ mins. and a		of _____ 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. Taken	Point Minutes	Press. Taken	Point Minutes	Press.
P 1 <u>0</u>	<u>11</u>	<u>Not</u>	<u>Taken</u>	<u>Not</u>	<u>Taken</u>	<u>0</u>	<u>13</u>
P 2 <u>5</u>	<u>11</u>					<u>3</u>	<u>13</u>
P 3 <u>10</u>	<u>12</u>					<u>6</u>	<u>13</u>
P 4 <u>15</u>	<u>12</u>					<u>9</u>	<u>15</u>
P 5 <u>20</u>	<u>13</u>					<u>12</u>	<u>19</u>
P 6 <u>25</u>	<u>13</u>					<u>15</u>	<u>25</u>
P 7 <u>30</u>	<u>13</u>					<u>18</u>	<u>31</u>
P 8 _____						<u>21</u>	<u>46</u>
P 9 _____						<u>24</u>	<u>67</u>
P10 _____						<u>27</u>	<u>91</u>
P11 _____						<u>30</u>	<u>143</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

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T.K.T.# 15533  
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