



Home Office, Great Bend, Kansas
P. O. BOX 1599
WICHITA, KANSAS 67201

Company Rains & Williamson Oil Co., Inc. Lease & Well No. Amend #1
Elevation 1962 Ground Level Formation Topeka Effective Pay - Ft. Ticket No. 24137
Date 3-5-75 Sec. 16 Twp. 16S Range 16W County Rush State Kansas
Test Approved by Lawrence F. Gray Western Representative Bob Anthony
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 2944' to 3000' Total Depth 3000'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 2944 Ft. Size 6 3/4 Bottom Packer Depth 2945 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 56 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2928 Ft. Clock No. 8474 Depth 2931 Ft. Clock No. 6799
Top Make Kuster Cap. 4150 No. 2605 Inside Outside Bottom Make Kuster Cap. 4150 No. 964 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 10:43 A M
Tool Open I.F.P. From 10:45 A. to 11:15 A. - Hr. 30 Min. From (B) 78 P.S.I. To (C) 78 P.S.I.
Tool Closed I.C.I.P. From 11:15 A. to 11:45 A. - Hr. 30 Min (D) 146 P.S.I.
Tool Open F.F.P. From 11:45 A. M. to 12:15 M. - Hr. 30 Min. From (E) 91 P.S.I. To (F) 104 P.S.I.
Tool Closed F.C.I.P. From 12:15 M. to 12:45 P.M. - Hr. 30 Min. (G) 126 P.S.I.
Initial Hydrostatic Pressure (A) 1650 P.S.I. Final Hydrostatic Pressure (H) 1615 P.S.I. Maximum Temp. 97

INFORMATION

BLOW Very weak on first opening. Very weak blow for 15 minutes on second opening, then died.
Did Well Flow - Yes ☒ No Recovery Total Ft. 120' drilling mud.

Reversed Out ☐ Yes ☒ No Mud Type Starch Viscosity 43 Weight 10.1 Water Loss 15.2 cc. Chlorides 110,000 PPM
EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Rains & Williamson Oil Co., Inc. Length Drill Pipe? 2024 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.
Length Weight Pipe 483 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 417 Ft. I.D. Drill Collars 2 1/2 In.
Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 76 Ft.

Remarks: Slid tool 75' to bottom.

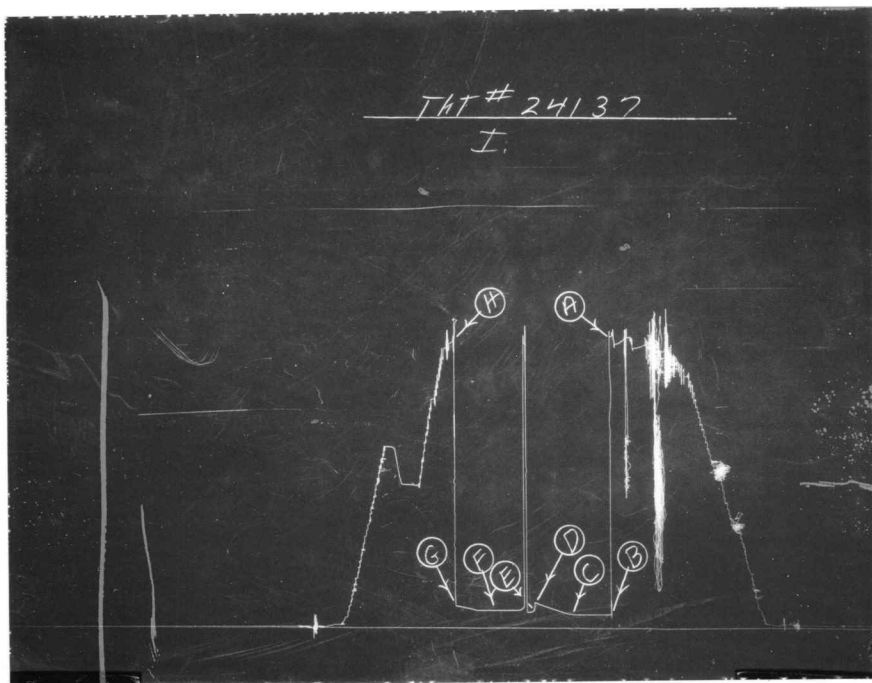
WESTERN TESTING CO., INC.
Pressure Data

Date 3-5-75 Test Ticket No. 24137
Recorder No. 2605 Capacity 4150 Location 2928 Ft.
Clock No. 8474 Elevation 1962 Ground Level Well Temperature 97 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1650</u> P.S.I.	Open Tool	<u>10:43 A</u> M	
B First Initial Flow Pressure	<u>78</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>78</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>146</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>91</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>104</u> P.S.I.			
G Final Closed-in Pressure	<u>126</u> P.S.I.			
H Final Hydrostatic Mud	<u>1615</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 <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		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>78</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>91</u>	<u>0</u>	<u>104</u>
P 2 <u>5</u>	<u>78</u>	<u>3</u>	<u>82</u>	<u>5</u>	<u>91</u>	<u>3</u>	<u>104</u>
P 3 <u>10</u>	<u>78</u>	<u>6</u>	<u>89</u>	<u>10</u>	<u>104</u> flushed tool	<u>6</u>	<u>104</u>
P 4 <u>15</u>	<u>78</u>	<u>9</u>	<u>95</u>	<u>15</u>	<u>104</u>	<u>9</u>	<u>104</u>
P 5 <u>20</u>	<u>78</u>	<u>12</u>	<u>101</u>	<u>20</u>	<u>104</u>	<u>12</u>	<u>104</u>
P 6 <u>25</u>	<u>78</u>	<u>15</u>	<u>109</u>	<u>25</u>	<u>104</u>	<u>15</u>	<u>104</u>
P 7 <u>30</u>	<u>78</u>	<u>18</u>	<u>116</u>	<u>30</u>	<u>104</u>	<u>18</u>	<u>109</u>
P 8		<u>21</u>	<u>125</u>			<u>21</u>	<u>113</u>
P 9		<u>24</u>	<u>131</u>			<u>24</u>	<u>117</u>
P10		<u>27</u>	<u>142</u>			<u>27</u>	<u>123</u>
P11		<u>30</u>	<u>146</u>			<u>30</u>	<u>126</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	1617	1650	PSI
(B) First Initial Flow Pressure	51	78	PSI
(C) First Final Flow Pressure	111	78	PSI
(D) Initial Closed-in Pressure	658	146	PSI
(E) Second Initial Flow Pressure	623	91	PSI
(F) Second Final Flow Pressure	76	104	PSI
(G) Final Closed-in Pressure	102	126	PSI
(H) Final Hydrostatic Mud	1613	1615	PSI



Home Office P. O. BOX 1599 Kansas
P. O. Box WICHITA, KANSAS 67201

Company **Rains & Williamson Oil Co., Inc.** Lease & Well No. **Amend #1**
Elevation **1962 Ground Level** Formation **-** Effective Pay **-** Ft. Ticket No. **24138**
Date **3-8-75** Sec. **16** Twp. **16S** Range **16W** County **Rush** State **Kansas**
Test Approved by **Lawrence F. Gray** Western Representative **Bob Anthony**
Formation Test No. **#2** O.K. **X** Misrun **-** Interval Tested From **3289'** to **3325'** Total Depth **3325'**
Size Main Hole **7 7/8** Rat Hole **-** Conv. **X** B.T. **-** Damaged **-** Yes **X** No Conv. **-** B.T. **-** Damaged **-** Yes **-** No
Top Packer Depth **3284** Ft. Size **6 3/4** Bottom Packer Depth **3289** Ft. Size **6 3/4**
Straddle **-** Conv. **-** B.T. **-** Damaged **-** Yes **-** No Packer Depth **-** Ft. Size **-**
Tool Size **5 1/2 OD** Tool Joint Size **4 1/2 FH** Anchor Length **36** Ft. Size **5 1/2 OD** Surface Choke Size **3/4** In. Bottom Choke Size **3/4** In.
RECORDERS Depth **3320** Ft. Clock No. **8474** Depth **3323** Ft. Clock No. **6799**
Top Make **Kuster** Cap. **4150** No. **2605** **xx** Inside Outside Bottom Make **Kuster** Cap. **4150** No. **969** Inside Outside
Below Straddle: Depth **-** Rec. No. **-** Clock No. **-** Inside Outside Depth **-** Ft. Rec. No. **-** Clock No. **-** Inside Outside
Time Set Packer **9:28 P.** M
Tool Open I.F.P. From **9:30P** M. to **10:00P** M. Hr. **30** Min. From (B) **51** P.S.I. To (C) **324** P.S.I.
Tool Closed I.C.I.P. From **10:00P** M. to **10:30P** M. Hr. **30** Min (D) **1062** P.S.I.
Tool Open F.F.P. From **10:30P** M. to **11:00P** M. Hr. **30** Min. From (E) **345** P.S.I. To (F) **595** P.S.I.
Tool Closed F.C.I.P. From **11:00P** M. to **11:30P** M. Hr. **30** Min. (G) **1062** P.S.I.
Initial Hydrostatic Pressure (A) **1546** P.S.I. Final Hydrostatic Pressure (H) **1504** P.S.I. Maximum Temp. **89**

INFORMATION

No blow
BLOW **-**
Did Well Flow **-** Yes **X** No Recovery Total Ft. **10' drilling mud**
Reversed Out **-** Yes **X** No Mud Type **starch** Viscosity **45** Weight **9.9** Water Loss **12.8** cc. Chlorides **90,000 P.P.M.**
EXTRA EQUIPMENT: Type Circ. Sub. **Pin** Safety Joint **-** Jars: Size **-** In. Make **-** Ser. No. **-**
Dual Packer **Yes** Did Packers Hold? **Yes** Did Tool Plug? **No** Where? **-**
DRILLING CONTRACTOR **Rains & Williamson Oil Co.** Length Drill Pipe? **2365** Ft. I.D. Drill Pipe **3.8** In. Tool Joint Size **4 1/2 FH** In.
Length Weight Pipe **-** Ft. I.D. Weight Pipe **2.8** In. Tool Joint Size **4 1/2 FH** In. Length Drill Collars **-** Ft. I.D. Drill Collars **2.7** In.
Tool Joint Size **4 1/2 FH** In. Length D.S.T. Tool **56** Ft.
Remarks:

WESTERN TESTING CO., INC.

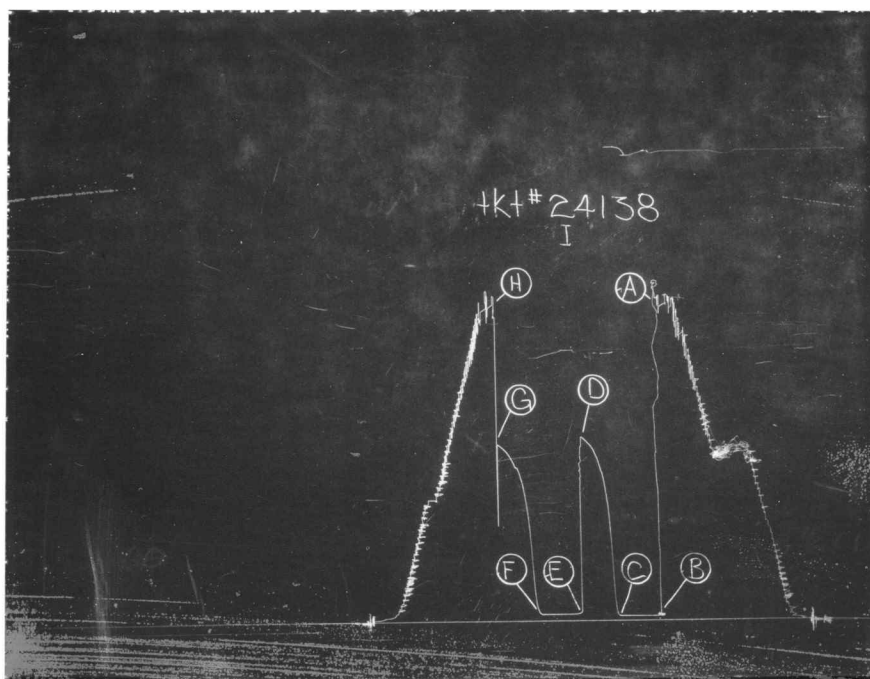
Pressure Data

Date 3-8-75 Test Ticket No. 24138
 Recorder No. 2605 Capacity 4150 Location 89 Ft.
 Clock No. 8474 Elevation 1962 Ground Level Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1546 P.S.I.	8:29 P.	
B First Initial Flow Pressure	51 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	324 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1062 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	345 P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	595 P.S.I.		
G Final Closed-in Pressure	1062 P.S.I.		
H Final Hydrostatic Mud	1504 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>12</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 <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point	Press.	Point	Press.	Point	Press.	Point	Press.
Mins.		Minutes		Minutes		Minutes	
P 1 <u>0</u>	<u>51</u>	<u>0</u>	<u>324</u>	<u>0</u>	<u>345</u>	<u>0</u>	<u>595</u>
P 2 <u>5</u>	<u>82</u>	<u>3</u>	<u>890</u>	<u>5</u>	<u>372</u>	<u>3</u>	<u>1008</u>
P 3 <u>10</u>	<u>140</u>	<u>6</u>	<u>1010</u>	<u>10</u>	<u>398</u>	<u>6</u>	<u>1033</u>
P 4 <u>15</u>	<u>193</u>	<u>9</u>	<u>1037</u>	<u>15</u>	<u>419</u>	<u>9</u>	<u>1043</u>
P 5 <u>20</u>	<u>241</u>	<u>12</u>	<u>1048</u>	<u>20</u>	<u>441</u>	<u>12</u>	<u>1048</u>
P 6 <u>25</u>	<u>282</u>	<u>15</u>	<u>1052</u>	<u>25</u>	<u>461</u>	<u>15</u>	<u>1052</u>
P 7 <u>30</u>	<u>324</u>	<u>18</u>	<u>1058</u>	<u>30</u>	<u>483</u>	<u>18</u>	<u>1054</u>
P 8 _____		<u>21</u>	<u>1059</u>	<u>35</u>	<u>504</u>	<u>21</u>	<u>1055</u>
P 9 _____		<u>24</u>	<u>1060</u>	<u>40</u>	<u>525</u>	<u>24</u>	<u>1055</u>
P10 _____		<u>27</u>	<u>1061</u>	<u>45</u>	<u>543</u>	<u>27</u>	<u>1056</u>
P11 _____		<u>30</u>	<u>1062</u>	<u>50</u>	<u>564</u>	<u>30</u>	<u>1056</u>
P12 _____				<u>55</u>	<u>581</u>	<u>33</u>	<u>1057</u>
P13 _____				<u>60</u>	<u>595</u>	<u>36</u>	<u>1057</u>
P14 _____						<u>39</u>	<u>1058</u>
P15 _____						<u>42</u>	<u>1058</u>
P16 _____						<u>45</u>	<u>1059</u>
P17 _____						<u>48</u>	<u>1059</u>
P18 _____						<u>51</u>	<u>1060</u>
P19 _____						<u>54</u>	<u>1060</u>
P20 _____						<u>57</u>	<u>1061</u>
						<u>60</u>	<u>1062</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1822	1546	PSI
(B) First Initial Flow Pressure	41	51	PSI
(C) First Final Flow Pressure	45	324	PSI
(D) Initial Closed-in Pressure	1045	1062	PSI
(E) Second Initial Flow Pressure	41	345	PSI
(F) Second Final Flow Pressure	41	595	PSI
(G) Final Closed-in Pressure	1025	1062	PSI
(H) Final Hydrostatic Mud	1770	1504	PSI