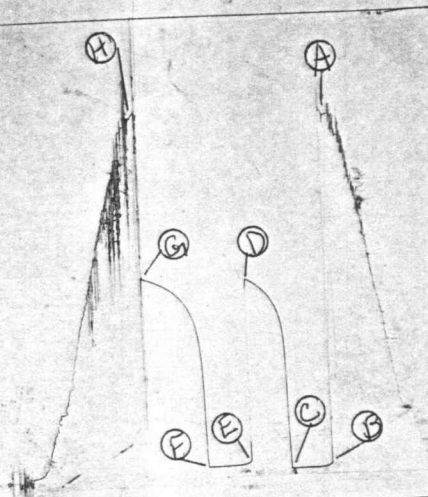


TK# 23212
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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Rains & Williamson Oil Company, Inc. Lease & Well No. Fox #1

Elevation 2025 Kelly Bush. Formation Arbuckle Effective Pay - Ft. Ticket No. 23212

Date 11-13-77 Sec. 32 Twp. 20S Range 16W County Pawnee State Kansas

Test Approved by Calvin Noah Western Representative Vernon Wondra

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3786' to 3792' Total Depth 3792'

Size Main Hole 7-7/8 Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No

Top Packer Depth 3781 Ft. Size 6-3/4 Bottom Packer Depth 3786 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 6 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3771 Ft. Clock No. 6859 Depth 3788 Ft. Clock No. 10412

Top Make Kuster Cap. 4250 No. 1051 ^{Inside} ~~Outside~~ Bottom Make Kuster Cap. 4300 No. 1567 ^{Inside} ~~Outside~~

Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ ^{Inside} ~~Outside~~ Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ ^{Inside} ~~Outside~~

Time Set Packer 2:38 A M

Tool Open I.F.P. From 2:40 M. to 3:10 M. ☐ Hr. 30 Min. From (B) 62 P.S.I. To (C) 34 P.S.I.

Tool Closed I.C.I.P. From 3:10 M. to 3:40 M. ☐ Hr. 30 Min (D) 1096 P.S.I.

Tool Open F.F.P. From 3:40 M. to 4:10 M. ☐ Hr. 30 Min. From (E) 91 P.S.I. To (F) 60 P.S.I.

Tool Closed F.C.I.P. From 4:10 M. to 4:55 M. ☐ Hr. 45 Min. (G) 1116 P.S.I.

Initial Hydrostatic Pressure (A) 2017 P.S.I. Final Hydrostatic Pressure (H) 1996 P.S.I. Maximum Temp. 116°

INFORMATION

BLOW Weak blow throughout test.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 65' Thin mud 49,000 P.P.M. Chlorides

74,000 P.P.M. Chlorides in pit

Reversed Out ☐ Yes ☒ No Mud Type Starch Viscosity 49 Weight 10.0 Water Loss 10.0 cc. Chlorides 99,850 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Yes ☐ Jars: Size 4-3/4 In. Make W.T.C. Ser. No. 402

Dual Packer ☐ Yes ☐ Did Packers Hold? ☐ Yes ☐ Did Tool Plug? ☐ No ☐ Where? ☐

DRILLING CONTRACTOR Rain & Williamson ^{Rig} #7 Length Drill Pipe? 3232 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 492 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 5" FH In. Length Drill Collars 30 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 3.8 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

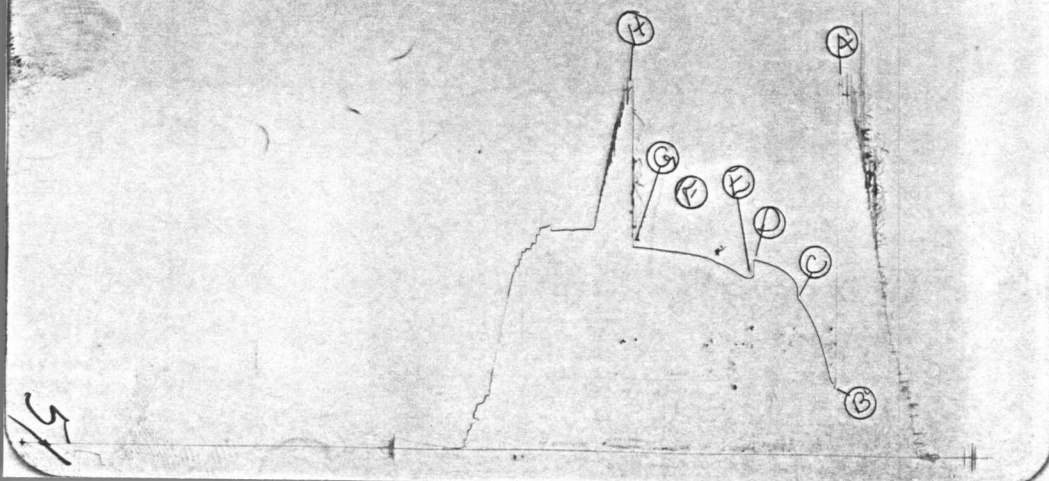
Date 11-13-77 Test Ticket No. 23212
 Recorder No. 1051 Capacity 4250 Location 3771 Ft.
 Clock No. 6859 Elevation 2025 Kelly Bushing Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2017</u> P.S.I.	Open Tool	<u>2:38 AM</u>	
B First Initial Flow Pressure	<u>62</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>34</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1096</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>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>60</u> P.S.I.			
G Final Closed-in Pressure	<u>1116</u> P.S.I.			
H Final Hydrostatic Mud	<u>1996</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>15</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>62</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>91</u>	<u>0</u>	<u>60</u>
P 2 <u>5</u>	<u>40</u>	<u>3</u>	<u>653</u>	<u>5</u>	<u>68</u>	<u>3</u>	<u>640</u>
P 3 <u>10</u>	<u>35</u>	<u>6</u>	<u>839</u>	<u>10</u>	<u>62</u>	<u>6</u>	<u>831</u>
P 4 <u>15</u>	<u>34</u>	<u>9</u>	<u>917</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>901</u>
P 5 <u>20</u>	<u>34</u>	<u>12</u>	<u>958</u>	<u>20</u>	<u>60</u>	<u>12</u>	<u>948</u>
P 6 <u>25</u>	<u>34</u>	<u>15</u>	<u>996</u>	<u>25</u>	<u>60</u>	<u>15</u>	<u>979</u>
P 7 <u>30</u>	<u>34</u>	<u>18</u>	<u>1023</u>	<u>30</u>	<u>60</u>	<u>18</u>	<u>1008</u>
P 8		<u>21</u>	<u>1047</u>			<u>21</u>	<u>1031</u>
P 9		<u>24</u>	<u>1068</u>			<u>24</u>	<u>1049</u>
P10		<u>27</u>	<u>1081</u>			<u>27</u>	<u>1063</u>
P11		<u>30</u>	<u>1096</u>			<u>30</u>	<u>1076</u>
P12						<u>33</u>	<u>1087</u>
P13						<u>36</u>	<u>1097</u>
P14						<u>39</u>	<u>1106</u>
P15						<u>42</u>	<u>1112</u>
P16						<u>45</u>	<u>1116</u>
P17							
P18							
P19							
P20							

TK# 232.13
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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Rains & Williamson Oil Co., Inc. Lease & Well No. Fox #1
Elevation 2025 Kelly Bush. Formation Arbuckle Effective Pay - Ft. Ticket No. 23213
Date 11-13-77 Sec. 32 Twp. 20S Range 16W County Pawnee State Kansas
Test Approved by Calvin Noah Western Representative Vernon Wondra
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 3788' to 3805' Total Depth 3805'
Size Main Hole 7-7/8 Bat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3783 Ft. Size 6-3/4 Bottom Packer Depth 3788 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 17 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3796 Ft. Clock No. 6859 Depth 3799 Ft. Clock No. 10412
Top Make Kuster Cap. 4250 No. 1051 ☐ Inside ☒ Outside Bottom Make Kuster Cap. 4300 No. 1567 ☐ Inside ☒ Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ ☐ Inside ☒ Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ ☐ Inside ☒ Outside
Time Set Packer 4:53P M
Tool Open I.F.P. From 4:55 M. to 5:25 M. - Hr. 30 Min. From (B) 373 P.S.I. To (C) 872 P.S.I.
Tool Closed I.C.I.P. From 5:25 M. to 5:55 M. - Hr. 30 Min (D) 1078 P.S.I.
Tool Open F.F.P. From 5:55 M. to 6:25 M. - Hr. 30 Min. From (E) 990 P.S.I. To (F) 1056 P.S.I.
Tool Closed F.C.I.P. From 6:25 M. to 7:25 M. - Hr. 60 Min. (G) 1138 P.S.I.
Initial Hydrostatic Pressure (A) 2052 P.S.I. Final Hydrostatic Pressure (H) 2006 P.S.I. Maximum Temp. 114°

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 2350' Water (Chl. 33,000 P.P.M.)

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 54 Weight 9.9 Water Loss 12.0 cc. Chlorides 99,850 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☒ Yes ☐ Jars: Size 4-3/4 OD In. Make W.T.C. Ser. No. 402

Dual Packer ☒ Yes Did Packers Hold? ☒ Yes Did Tool Plug? ☐ No Where? -

DRILLING CONTRACTOR Rains & Williamson Rig. #7 Length Drill Pipe? 3237 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 492 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 5" FH In. Length Drill Collars 30 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 46 Ft.

Remarks:

(Reversed Out)

WESTERN TESTING CO., INC.

Pressure Data

Date 11-13-77 Test Ticket No. 23213
 Recorder No. 1051 Capacity 4250 Location 3796 Ft.
 Clock No. 6859 Elevation 2025 Kelly Bushing Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2052</u> P.S.I.	Open Tool	<u>4:53P</u> M	
B First Initial Flow Pressure	<u>373</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>872</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1078</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
E Second Initial Flow Pressure	<u>990</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1056</u> P.S.I.			
G Final Closed-in Pressure	<u>1138</u> P.S.I.			
H Final Hydrostatic Mud	<u>2006</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>5</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 Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>373</u>	<u>0</u>	<u>872</u>	<u>0</u>	<u>990</u>	<u>0</u>	<u>1056</u>
P 2 <u>5</u>	<u>449</u>	<u>3</u>	<u>972</u>	<u>5</u>	<u>980</u>	<u>3</u>	<u>1068</u>
P 3 <u>10</u>	<u>584</u>	<u>6</u>	<u>998</u>	<u>10</u>	<u>996</u>	<u>6</u>	<u>1080</u>
P 4 <u>15</u>	<u>693</u>	<u>9</u>	<u>1015</u>	<u>15</u>	<u>1019</u>	<u>9</u>	<u>1089</u>
P 5 <u>20</u>	<u>775</u>	<u>12</u>	<u>1030</u>	<u>20</u>	<u>1038</u>	<u>12</u>	<u>1095</u>
P 6 <u>25</u>	<u>836</u>	<u>15</u>	<u>1042</u>	<u>25</u>	<u>1056</u>	<u>15</u>	<u>1099</u>
P 7 <u>30</u>	<u>872</u>	<u>18</u>	<u>1052</u>			<u>18</u>	<u>1104</u>
P 8		<u>21</u>	<u>1059</u>			<u>21</u>	<u>1108</u>
P 9		<u>24</u>	<u>1066</u>			<u>24</u>	<u>1112</u>
P10		<u>27</u>	<u>1073</u>			<u>27</u>	<u>1114</u>
P11		<u>30</u>	<u>1078</u>			<u>30</u>	<u>1117</u>
P12						<u>33</u>	<u>1119</u>
P13						<u>36</u>	<u>1121</u>
P14						<u>39</u>	<u>1123</u>
P15						<u>42</u>	<u>1126</u>
P16						<u>45</u>	<u>1129</u>
P17						<u>48</u>	<u>1131</u>
P18						<u>51</u>	<u>1133</u>
P19						<u>54</u>	<u>1136</u>
P20						<u>57</u>	<u>1137</u>
						<u>60</u>	<u>1138</u>