

# **FORMATION TEST REPORT**



**HOME OFFICE:**

**GREAT BEND, KANSAS**

**P. O. BOX 793**

**SWift 3-7903**



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

Company **Ferguson Oil Company** Lease & Well No. **Blucher #1**  
Elevation **2683 Kelly Bushings** Formation **St. Louis** Ticket Number **8878**  
Date **April 26, 1967** Sec. **13** Twp. **35s** Range **31w** County **Seward** State **Kansas**  
Test Approved by **W. R. Atkinson** Western Representative **Roman Allen**

Formation Test No. **1** O.K.  Misrun \_\_\_\_\_ Interval Tested From **6460'** to **6475'** Total Depth **6475'**  
Size Main Hole **7 7/8** Rat Hole \_\_\_\_\_ Conv.  B.T. \_\_\_\_\_ Damaged Yes  No  Conv.  B.T. \_\_\_\_\_ Damaged Yes  No   
**\*SEE REMARKS** Packer Depth **6455** Ft. Size **6 3/4** Packer Depth **6460** Ft. Size **6 3/4**

Straddle Yes \_\_\_\_\_ No  Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No \_\_\_\_\_  
Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size **5 1/2 00** Tool Jt. Size **4 1/2 2H** Anchor Length **15** Ft. Size **5 1/2 00**

RECORDERS Depth **6468** Ft. Clock No. **6867** Depth **6471** Ft. Clock No. **6899**  
Top Make **Kuster** Cap. **4200** No. **1559** Inside **Outside** Bottom Make **Kuster** Cap. **4150** No. **2605** 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 **5158 A** M

Tool Open I.F.P. From **6:00** M to **6:30** M Hr. **30** Min. From (B) **31** P.S.I. To (C) **31** P.S.I.  
Tool Closed I.C.I.P. From **6:30** M. to **7:00** M. Hr. **30** Min. (D) **1890** P.S.I.  
Tool Open F.F.P. From **7:00** M. to **7:10** M. Hr. **10** Min. From (E) **48** P.S.I. To (F) **48** P.S.I.  
Tool Closed F.C.I.P. From **7:10** M. to **7:20** M. Hr. **10** Min. (G) **1521** P.S.I.  
Initial Hydrostatic Pressure (A) **3101** P.S.I. Final Hydrostatic Pressure (H) **3000** P.S.I.

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

BLOW **Weak 10 minutes. Intermittent 10 minutes.** Bottom Choke Size **3/4** In.  
Did Well Flow Yes  No  Recovery Total Ft. **30' drilling mud with few specks of oil**

Reversed Out Yes  No  Mud Type **chem.** Viscosity **49** Weight **9.0** Maximum Temp. **125** °F

EXTRA EQUIPMENT: Dual Packers  Safety Joint  Jars: Size **3 3/4 H** Make **Bowen** Ser. No. **1667**

Type Circ. Sub **pin** Did Tool Plug?  Where? \_\_\_\_\_ Did Packer Hold?

Length Drill Pipe **6345** ft. I.D. Drill Pipe **3.8** in Length Weight Pipe \_\_\_\_\_ ft. I.D. Weight Pipe \_\_\_\_\_ in Length Drill Collars **90** ft.

I. D. Drill Collars **2 1/2** in Length D.S.T. Tool **45** ft.

Remarks **\*Hole size= 8-3/4 to 6339' -- 7-7/8 to 6475'**

# WESTERN TESTING CO., INC.

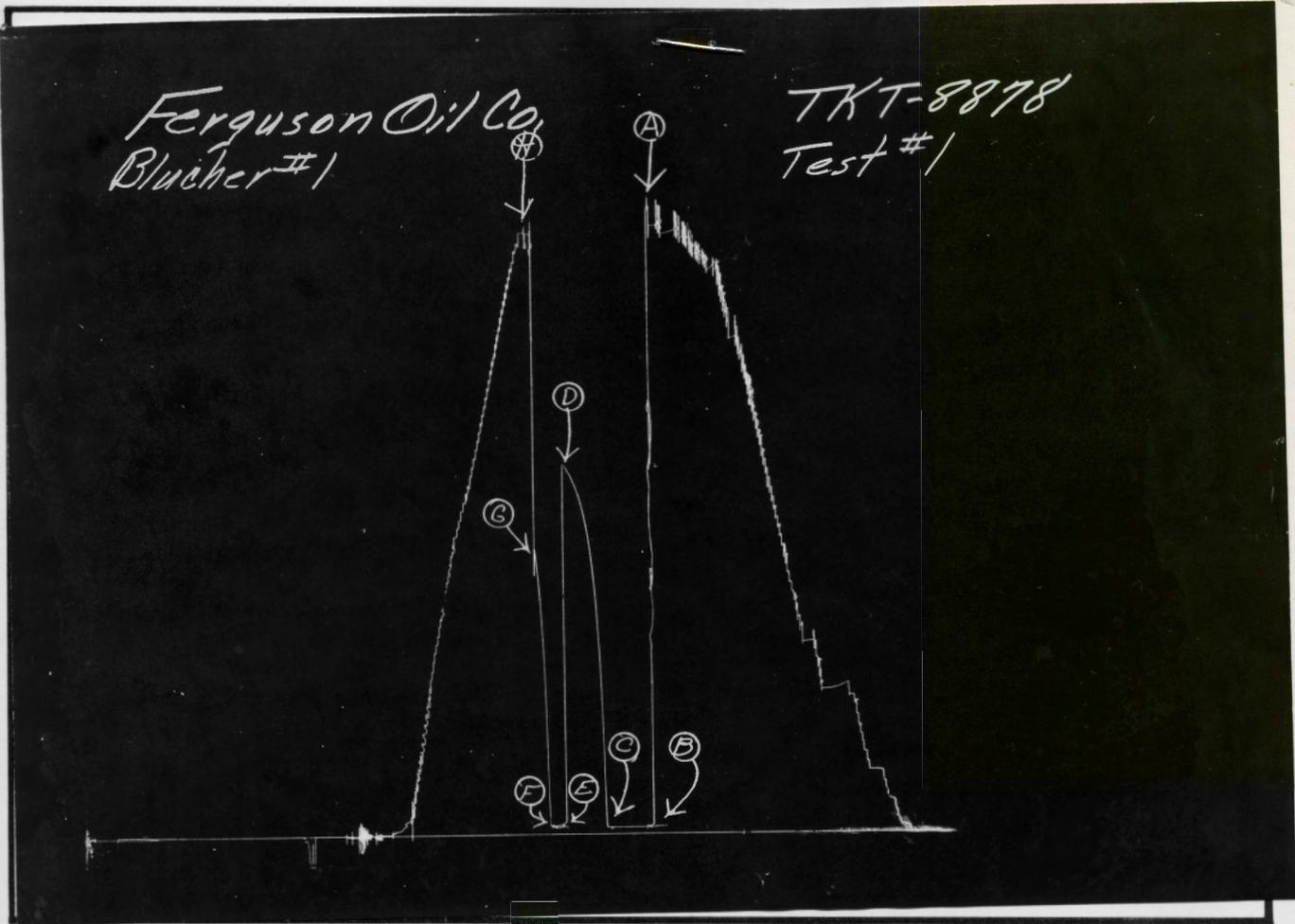
## Pressure Data

Date Apr 11 26, 1967 Recorder No. 1559 Capacity 4150 Test Ticket No. 8878  
 Clock No. 6861 Elevation 2683 Kelly Bushings Location 6468 Ft. 125  
 Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<b>3101</b>	P.S.I.	<b>5:58 A</b>	
B First Initial Flow Pressure	<b>31</b>	P.S.I.	<b>30</b>	<b>31</b>
C First Final Flow Pressure	<b>31</b>	P.S.I.	<b>30</b>	<b>30</b>
D Initial Closed-in Pressure	<b>1890</b>	P.S.I.	<b>10</b>	<b>10</b>
E Second Initial Flow Pressure	<b>48</b>	P.S.I.	<b>10</b>	<b>11</b>
F Second Final Flow Pressure	<b>48</b>	P.S.I.		
G Final Closed-in Pressure	<b>1521</b>	P.S.I.		
H Final Hydrostatic Mud	<b>3000</b>	P.S.I.		

### PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>3</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>1</u> Min.		final inc. of <u>-</u> Min.		final inc. of <u>-</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>31</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>48</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>512</u>	<u>5</u>	<u>48</u>	<u>3</u>	<u>647</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>1100</u>	<u>10</u>	<u>48</u>	<u>6</u>	<u>1252</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>1353</u>			<u>9</u>	<u>1430</u>
P 5 <u>20</u>	<u>31</u>	<u>12</u>	<u>1506</u>			<u>11</u>	<u>1521</u>
P 6 <u>25</u>	<u>31</u>	<u>15</u>	<u>1630</u>				
P 7 <u>30</u>	<u>31</u>	<u>18</u>	<u>1715</u>				
P 8 <u>31</u>	<u>31</u>	<u>21</u>	<u>1780</u>				
P 9 _____		<u>24</u>	<u>1831</u>				
P10 _____		<u>27</u>	<u>1873</u>				
P11 _____		<u>30</u>	<u>1890</u>				
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud .....	3101 PSI
(B) First Initial Flow Pressure .....	31 PSI
(C) First Final Flow Pressure .....	31 PSI
(D) Initial Closed-in Pressure .....	1890 PSI
(E) Second Initial Flow Pressure .....	48 PSI
(F) Second Final Flow Pressure .....	48 PSI
(G) Final Closed-in Pressure .....	1521 PSI
(H) Final Hydrostatic Mud .....	3000 PSI



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 8878

DX 793 PHONE GL 3-7903

GREAT BEND, KANSAS

Elevation..... Formation St Louis

District Augusta Date 4-26-67 Customer Order No. \_\_\_\_\_

COMPANY NAME Aerguson Oil Co ADDRESS \_\_\_\_\_

LEASE AND WELL NO. Blucher #1 COUNTY Seward STATE Kans Sec. 13 Twp. 35S Range 31W

Mail Inv. To Same Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested \_\_\_\_\_

Mail Charts To Same Address \_\_\_\_\_ No. Copies Requested \_\_\_\_\_

Formation Test No. 1  O.K. Misrun - Interval Tested From 6460 to 6475 Total Depth 6475

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

See Remarks Packer Depth 6455 Ft. Size 6 3/4 Packer Depth 6460 Ft. Size 6 3/4

Straddle - Yes  No  Conv. - B.T. Damaged - Yes - No

Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_

Tool Size 5 1/2 00 Tool Jt. Size 4 1/2 XH Anchor Length 15 Ft. Size 5 1/2 00

RECORDERS Depth 6468 Ft. Clock No. 6861 Depth 6471 Ft. Clock No. 6899

Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Kuster Cap. 4150 No. 2605 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 5:58 AM

Tool Open I.F.P. From 6:00 M. to 6:30 M. - Hr. 30 Min. From (B) 31 P.S.I. To (C) 31 P.S.I.

Tool Closed I.C.I.P. From 6:30 M. to 7:00 M. - Hr. 30 Min. (D) 1880 P.S.I.

Tool Open F.F.P. From 7:00 M. to 7:10 M. - Hr. 10 Min From (E) 42 P.S.I. To (F) 42 P.S.I.

Tool Closed F.C.I.P. From 7:10 M. to 7:20 M. - Hr. 10 Min. (G) 1564 P.S.I.

Initial Hydrostatic Pressure (A) 3109 P.S.I. Final Hydrostatic Pressure (H) 3009 P.S.I.

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

INFORMATION \_\_\_\_\_ M. \_\_\_\_\_

\_\_\_\_\_ M. \_\_\_\_\_

\_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak 10 mins intermittent 10 mins Bottom Choke Size 3/4 in.

Did Well Flow - Yes  No  Recovery Total Ft. 30 Only mud w/ few speck of oil

Reversed Out - Yes  No  Mud Type Chem Viscosity 49 Weight 9.0 Maximum Temp. 125 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint yes Jars: Size 3 1/2 FI Make Bowen Ser. No. 1667

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

Length Drill Pipe 6345 ft. I. D Drill Pipe 3.8 in. Length Weight Pipe \_\_\_\_\_ ft. I. D. Weight Pipe \_\_\_\_\_ in. Length Drill Collars 90 ft.

I. D. Drill Collars 2.4 in. Length D. S. T. Tool 45 ft.

Remarks Hole size = 8 3/4 to 6339 - 7 7/8 to 6475

COMPANY TERMS:

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

All charges subject to 6% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

INVOICE SECTION

Open Hole Test	\$ <u>200</u>
Straddle Test	\$ _____
Jars	\$ <u>117</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>no charge</u>
Misrun	\$ _____
Total	\$ _____

Approved By W.R. Aerguson Signature of Customer or his Authorized Representative

Western Representative Norman All

Operator's Time \_\_\_\_\_

# FORMATION TEST REPORT



HOME OFFICE: GREAT BEND, KANSAS  
P. O. BOX 793 SWIFT 3-7903

COMPANY \_\_\_\_\_ FERGUSON OIL COMPANY  
LEASE AND WELL NO. \_\_\_\_\_ B LUCHER #1  
SEC. \_\_\_\_\_ 13<sup>th</sup> WP 35S RGF  
TEST NO. \_\_\_\_\_ 31W  
DATE \_\_\_\_\_ 2 \_\_\_\_\_ 4



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

Company Ferguson Oil Company Lease & Well No. Blucher #1  
 Elevation 2683 Kelly Bushings Formation Kansas City Ticket Number 3879  
 Date April 30, 1967 Sec. 13 Twp. 35s Range 31w County Seward State Kansas  
 Test Approved by W. R. Atkinson Western Representative Norman Allen

Formation Test No. 4 O.K. #2 Misrun #2 Interval Tested From 4606' to 4618' Total Depth 6770'  
 Size Main Hole 8 3/4 87-7/8 Rat Hole \_\_\_\_\_ Conv. X B.T. \_\_\_\_\_ Damaged Yes no No \_\_\_\_\_ Conv. X B.T. \_\_\_\_\_ Damaged Yes no No  
 Packer Depth 4604 Ft. Size 7 1/2 Packer Depth 4618 Ft. Size 7 1/2  
 Straddle Yes yes No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No \_\_\_\_\_ **Hook tool set @ 4638'**  
 Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 XH Anchor Length 14 Ft. Size 5 1/2 OD

RECORDERS Depth 4608 Ft. Clock No. 6861 Depth 4611 Ft. Clock No. 6899  
 Top Make Kuster Cap. 4200 No. 1559 Inside Bottom Make Kuster Cap. 4150 No. 2605 Inside  
 Below Straddle: Depth 4622 Clock No. 149 Outside Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Outside  
 Top Make Western Cap. 4000 No. 29 Inside Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside  
 Time Set Packer 6:58 P M

Tool Open I.F.P. From 7:00 M to 7:30 M Hr. 30 Min. From (B) \_\_\_\_\_ P.S.I. To (C) 282 P.S.I.  
 Tool Closed I.C.I.P. From 7:30 M. to 8:00 M. Hr. 30 Min. (D) \_\_\_\_\_ 1203 P.S.I.  
 Tool Open F.F.P. From 8:00 M. to 8:30 M. Hr. 30 Min. From (E) \_\_\_\_\_ P.S.I. To (F) 422 P.S.I.  
 Tool Closed F.C.I.P. From 8:30 M. to 9:00 M. Hr. 30 Min. (G) \_\_\_\_\_ 1261 P.S.I.  
 Initial Hydrostatic Pressure (A) 2311 P.S.I. Final Hydrostatic Pressure (H) 2320 P.S.I.

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

BLOW Strong throughout test. Gas surfaced 35 minutes. Too weak to measure. Bottom Choke Size 3/4 In.  
 Did Well Flow Gas Yes yes No \_\_\_\_\_ Recovery Total Ft. 386' gassy slightly muddy oil (oil 37' corrected)  
564' salt water slightly oil cut. Mud

Reversed Out Yes no No Mud Type starch Viscosity 63 Weight 9.2 Maximum Temp. 118 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint yes Jars: Size 3 1/2 FH Make Bowen Ser. No. 1667  
 Type Circ. Sub. pin Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 4522 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 1/2 in. Length D.S.T. Tool 65 ft.

Remarks

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

Date April 30, 1967 Test Ticket No. 8879  
 Recorder No. 1559 Capacity 4150 Location \_\_\_\_\_ Ft.  
 Clock No. 6861 Elevation 2683 Kelly Bushings Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<b>2311</b>	P.S.I.	<b>6:58P</b> M	
B First Initial Flow Pressure	<b>79</b>	P.S.I.	<b>30</b> Mins.	<b>31</b> Mins.
C First Final Flow Pressure	<b>282</b>	P.S.I.	<b>30</b> Mins.	<b>30</b> Mins.
D Initial Closed-in Pressure	<b>1203</b>	P.S.I.	<b>30</b> Mins.	<b>30</b> Mins.
E Second Initial Flow Pressure	<b>309</b>	P.S.I.	<b>30</b> Mins.	<b>32</b> Mins.
F Second Final Flow Pressure	<b>422</b>	P.S.I.		
G Final Closed-in Pressure	<b>1261</b>	P.S.I.		
H Final Hydrostatic Mud	<b>2320</b>	P.S.I.		

**PRESSURE BREAKDOWN**

**First Flow Press.**  
 Breakdown: 6 Inc.  
 of 5 mins. and a  
 final inc. of 1 Min.

**Initial Shut-In**  
 Breakdown: 10 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

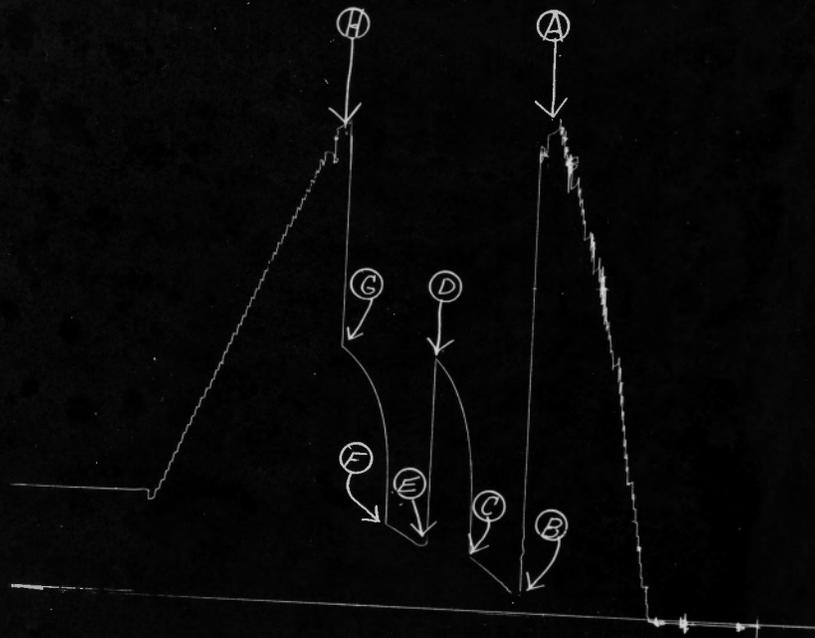
**Second Flow Pressure**  
 Breakdown: 6 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 6 Inc.  
 of 5 mins. and a  
 final inc. of 2 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
<b>0</b>	<b>79</b>	<b>0</b>	<b>282</b>	<b>0</b>	<b>309</b>	<b>0</b>	<b>422</b>
<b>5</b>	<b>104</b>	<b>3</b>	<b>772</b>	<b>5</b>	<b>319</b>	<b>3</b>	<b>853</b>
<b>10</b>	<b>142</b>	<b>6</b>	<b>905</b>	<b>10</b>	<b>344</b>	<b>6</b>	<b>960</b>
<b>15</b>	<b>177</b>	<b>9</b>	<b>985</b>	<b>15</b>	<b>369</b>	<b>9</b>	<b>1025</b>
<b>20</b>	<b>211</b>	<b>12</b>	<b>1043</b>	<b>20</b>	<b>392</b>	<b>12</b>	<b>1075</b>
<b>25</b>	<b>238</b>	<b>15</b>	<b>1094</b>	<b>25</b>	<b>411</b>	<b>15</b>	<b>1117</b>
<b>30</b>	<b>267</b>	<b>18</b>	<b>1131</b>	<b>30</b>	<b>422</b>	<b>18</b>	<b>1148</b>
<b>31</b>	<b>282</b>	<b>21</b>	<b>1165</b>			<b>21</b>	<b>1179</b>
		<b>24</b>	<b>1190</b>			<b>24</b>	<b>1200</b>
		<b>27</b>	<b>1195</b>			<b>27</b>	<b>1221</b>
		<b>30</b>	<b>1203</b>			<b>32</b>	<b>1261</b>
P 11							
P 12							
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

Ferguson Oil Co.  
Blucher #1

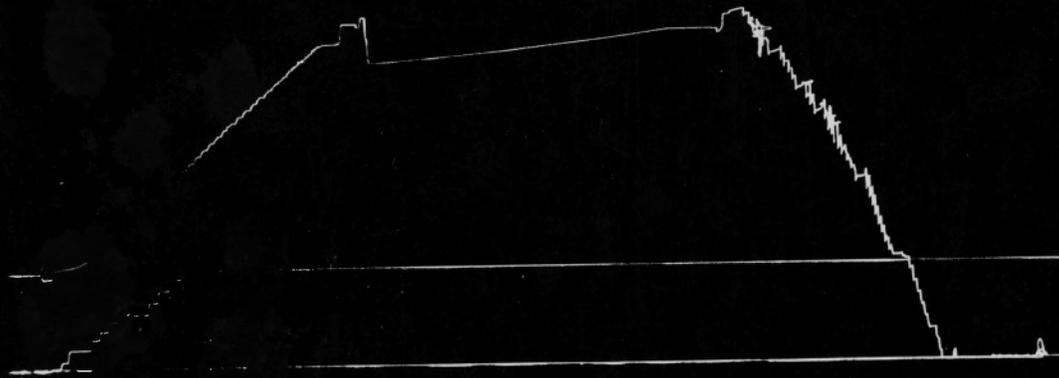
TKT-8879  
Test #2



Ferguson Oil Co.  
Blucher #1

TKT-8879  
Test #1

Blank Off





WESTERN TESTING CO., INC.

P. O. BOX 793 PHONE GL 3-7903  
GREAT BEND, KANSAS

FORMATION TESTING

TICKET No 8879

Elevation 2683 KP Formation KC

District Augusta Date 4-30-67 Customer Order No. \_\_\_\_\_  
COMPANY NAME Ferguson Oil Co ADDRESS 1505 Wichita Plaza Wichita, KS  
LEASE AND WELL NO. Blucher #1 COUNTY Seward STATE Kans Sec. 13 Twp. 35S Range 31W  
Mail Inv. To Same Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested 1  
Mail Charts To Same see not attached Address \_\_\_\_\_ No. Copies Requested 9

Formation Test No. 4 O.K. #2 Misrun #2 Interval Tested From 4604 to 4618 Total Depth 6770  
Size Main Hole 8 3/4 x 7 1/2 Rat Hole \_\_\_\_\_ Conv. (No) B.T. \_\_\_\_\_ Damaged (No) Conv. (No) B.T. \_\_\_\_\_ Damaged (No)  
See not attached Packer Depth 4604 Ft. Size 7 1/2 Packer Depth 4618 Ft. Size 7 1/2  
Straddle (Yes) - No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged (No) Yes \_\_\_\_\_ No \_\_\_\_\_ hook tool set @ 4638  
Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 XH Anchor Length 14 Ft. Size 5 1/2 OD

RECORDERS Depth 4608 Ft. Clock No. 6861 Depth 4611 Ft. Clock No. 6899  
Top Make Kuster Cap. 4200 No. 1559 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Kuster Cap. 4150 No. 2605 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Below Straddle: Depth 4622 Clock No. 149 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make WTC Cap. 4000 No. 29 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 6:58 P.M.  
Tool Open I.F.P. From 7:00 M. to 7:30 M. - Hr. 30 Min. From (B) 73 P.S.I. To (C) 271 P.S.I.  
Tool Closed I.C.I.P. From 7:30 M. to 8:00 M. - Hr. 30 Min. (D) 1170 P.S.I.  
Tool Open F.F.P. From 8:00 M. to 8:30 M. - Hr. 30 Min. From (E) 303 P.S.I. To (F) 418 P.S.I.  
Tool Closed F.C.I.P. From 8:30 M. to 9:00 M. - Hr. 30 Min. (G) 1240 P.S.I.  
Initial Hydrostatic Pressure (A) 2326 P.S.I. Final Hydrostatic Pressure (H) 2316 P.S.I.

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

BLOW Strong throughout - Gas surfaced 35 mins Bottom Choke Size 3/4 in.  
Did Well Flow Yes - No \_\_\_\_\_ Recovery Total Ft. 386 Barany slightly muddy w/ oil Oil 37° correct  
564' salt water & slightly oil tint  
Reversed Out. - Yes \_\_\_\_\_ No (No) Mud Type Starch Viscosity 530 Weight 92 Maximum Temp. 118 °F  
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 3 1/2 FH Make Bowen Ser. No. 1667  
Type Circ. Sub. Pin Did Tool Plug? No Where? \_\_\_\_\_ Did Packer Hold? Yes  
Length Drill Pipe 4522 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 1/4 in. Length D. S. T. Tool 65 ft.

Remarks \_\_\_\_\_

COMPANY TERMS:  
Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.  
All charges subject to 6% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.  
Test Approved By W.K. Ferguson Western Representative Norman Allen  
Signature of Customer or his Authorized Representative Operator's Time \_\_\_\_\_

INVOICE SECTION

Open Hole Test	\$ 240.00
Straddle Test	\$
Jars	\$ 117.00
Selective Zone	\$ 100.00
Safety Joint	\$
Misrun	\$ No Charge
Total	\$ 457.00

# FORMATION TEST REPORT



HOME OFFICE: GREAT BEND, KANSAS  
P. O. BOX 793 SWIFT 3-7903

COMPANY \_\_\_\_\_ FERGUSON OIL COMPANY  
LEASE AND WELL NO. \_\_\_\_\_  
BLUCHER #1  
SEC. 13 TWP. 35c RGF  
21w TEST NO. 3  
DATE \_\_\_\_\_



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

Company **Ferguson Oil Company** Lease & Well No. **Blucher #1**  
Elevation **2683 Kelly Bushings** Formation **St. Louis** Ticket Number **8880**  
Date **April 30, 1967** Sec. **13** Twp. **30S** Range **37W** County **Seward** State **Kansas**  
Test Approved by **W. R. Atkinson** Western Representative **Norman Allen**

Formation Test No. **5** O.K. **#2** Misrun **#3** Interval Tested From **6564'** to **6615'** Total Depth **6770'**  
Size Main Hole **7 7/8** Rat Hole \_\_\_\_\_ Conv. **X** B.T. \_\_\_\_\_ Damaged Yes **yes** No \_\_\_\_\_ Conv. **X** B.T. \_\_\_\_\_ Damaged Yes **yes** No \_\_\_\_\_  
Packer Depth **6564** Ft. Size **6 3/4** Packer Depth **6615** Ft. Size **6 3/4**  
Straddle Yes **yes** No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No \_\_\_\_\_

Tool Size **5 1/2 OD** Tool Jt. Size **4 1/2 XII** Anchor Length **61 & 188** Ft. Size **5 1/2 OD & DC**  
RECORDERS Depth **6572** Ft. Clock No. **6867** Depth **6575** Ft. Clock No. **6899**  
Top Make **Kuster** Cap. **4200** No. **1559** Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make **Kuster** Cap. **4150** No. **2605** Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Below Straddle: Depth \_\_\_\_\_ Clock No. **149** Inside \_\_\_\_\_ Outside \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make **Western** Cap. **4000** No. **29** Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Time Set Packer **12:08 P** M \_\_\_\_\_

Tool Open I.F.P. From **12:10** M to **12:40** M Hr. **30** Min. From (B) \_\_\_\_\_ P.S.I. To (C) **20** P.S.I.  
Tool Closed I.C.I.P. From **12:40** M. to **1:10** M. Hr. **30** Min. (D) \_\_\_\_\_ P.S.I.  
Tool Open F.F.P. From **1:10** M. to \_\_\_\_\_ M. Hr. \_\_\_\_\_ Min. From (E) \_\_\_\_\_ P.S.I. To (F) \_\_\_\_\_ P.S.I.  
Tool Closed F.C.I.P. From \_\_\_\_\_ M. to \_\_\_\_\_ M. Hr. \_\_\_\_\_ Min. (G) \_\_\_\_\_ P.S.I.  
Initial Hydrostatic Pressure (A) **3265** P.S.I. Final Hydrostatic Pressure (H) **3232** P.S.I.

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

BLOW **Very weak 30 minutes. Packer seat washed out at end of I.F.P.'** Bottom Choke Size \_\_\_\_\_ In.  
Did Well Flow Yes **no** No Recovery Total Ft. **450' mud**

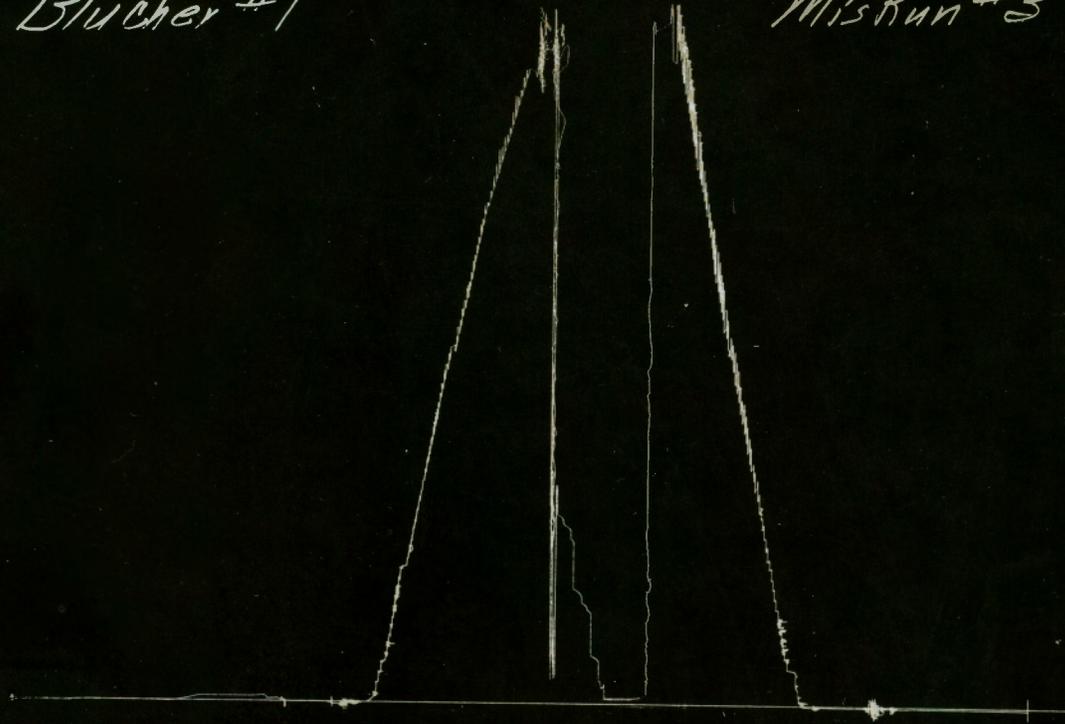
Reversed Out Yes **no** No Mud Type **starch** Viscosity **53** Weight **9.2** Maximum Temp. **141** °F  
EXTRA EQUIPMENT: Dual Packers **yes** Safety Joint **yes** Jars: Size **3 1/2 FH** Make **Bowen** Ser. No. **1667**

Type Circ. Sub. **pin** Did Tool Plug? **no** Where? \_\_\_\_\_ Did Packer Hold? **See Above**  
Length Drill Pipe **6490** 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 1/2** in Length D.S.T. Tool **220** ft.

Remarks \_\_\_\_\_

Ferguson Oil Co.  
Blucher #1

TKT-8880  
MisRun #3



Ferguson Oil Co.  
Blucher #1

TKT-8880  
MisRun #3

Blank OFF





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 8880

P. O. BOX 793 PHONE GL 3-7903 GREAT BEND, KANSAS

Elevation 2683 KC Formation 21 Louis

District Augusta Date 4-30-67 Customer Order No.
COMPANY NAME Ferguson Oil Co ADDRESS 1505 21st Wichita Playa Wichita, K
LEASE AND WELL NO. Blucher #1 COUNTY Sedgewood STATE Kansas Sec. 13 Twp. 35S Range 31W
Mail Inv. To Same Co. Name Address No. Copies Requested 1
Mail Charts To Same @ DST #1 - See Remarks Address No. Copies Requested 9

Formation Test No. 5 O.K. #2 Misrun #3 Interval Tested From 6564 to 6615 Total Depth 6770
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 6564 Ft. Size 6 3/4 Packer Depth 6615 Ft. Size 6 3/4
Straddle Yes No Conv. B.T. Damaged Yes No
Packer Depth Ft. Size
Tool Size 5 1/2 00 Tool Jt. Size 4 1/2 x H Anchor Length 518 155 Ft. Size 5 1/2 00 & 0 C

RECORDERS Depth 6572 Ft. Clock No. 6861 Depth 6575 Ft. Clock No. 6899
Top Make Knater Cap. 4200 No. 1559 Inside Outside Bottom Make Knater Cap. 4150 No. 2605 Inside Outside
Below Straddle: Depth -6625 Clock No. 149 Inside Outside Depth Ft. Clock No. Inside Outside
Top Make WTC Cap. 4000 No. 29 Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 12:08 PM
Tool Open I.F.P. From 12:10 M. to 12:40 M. Hr. 30 Min. From (B) 20 P.S.I. To (C) 20 P.S.I.
Tool Closed I.C.I.P. From 12:40 M. to 1:10 M. Hr. 30 Min. (D) P.S.I.
Tool Open F.F.P. From 1:10 M. to M. Hr. Min From (E) P.S.I. To (F) P.S.I.
Tool Closed F.C.I.P. From M. to M. Hr. Min. (G) P.S.I.
Initial Hydrostatic Pressure (A) 3265 P.S.I. Final Hydrostatic Pressure (H) 3232 P.S.I.

SURFACE Size Choke In. Max. Press. P.S.I. Time Description of Flow
INFORMATION See Note attached M.
M.
M.

BLOW Very weak 30 mins. Packer seat washed out @ end of IFP Bottom Choke Size in
Did Well Flow Yes No Recovery Total Ft. 450 mud

Reversed Out Yes No Mud Type Starch Viscosity 53 Weight 9.2 Maximum Temp. 141 F
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 3 3/4 Make Bower Ser. No. 1667
Type Circ. Sub Pen Did Tool Plug? No Where? Did Packer Hold? See above
Length Drill Pipe 6490 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 1/4 in. Length D. S. T. Tool 220 ft.

Remarks Process charts on this test @ distribute same as DST #1

COMPANY TERMS:
Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.
All charges subject to 6% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.
Test Approved By W. R. Johnson Western Representative Norman Allen
Signature of Customer or his Authorized Representative Operator's Time Hrs.

INVOICE SECTION
Open Hole Test \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Misrun 215 \$ 75
Total \$ 75