



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No. 5059

P. O. BOX 1599 PHONE (316) 838-0601  
WICHITA, KANSAS 67201

Elevation 3006 GL. Formation Tapeka Eff. Pay      Ft.

District Wakarusa Date 5-30-80 Customer Order No.     

COMPANY NAME George R Jones

ADDRESS 125 N Market Suite 1310, Wichita, Ks. 67202

LEASE AND WELL NO. Pioneer #1 COUNTY Logan STATE Ks. Sec. 13 Twp 11S Rge 32W

Mail Invoice To Same as Above Co. Name      Address      No. Copies Requested 5

Mail Charts To 1" Reduced = 1" Address      No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3923 ft. to 4015 ft. Total Depth 4015 ft.

Packer Depth 3923 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Packer Depth 3918 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Depth of Selective Zone Set     

Top Recorder Depth (Inside) 3925 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 3928 ft. Recorder Number 13240 Cap. 4500

Below Straddle Recorder Depth      ft. Recorder Number      Cap.     

Drilling Contractor RHW Rig 1 Drill Collar Length 436' I. D. 2.25 in.

Mud Type Chemical Viscosity 42 Weight Pipe Length      I. D.      in.

Weight 9.9 Water Loss 15.2 cc. Drill Pipe Length 2467 I. D. 3.8 in.

Chlorides 5,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number      Anchor Length 92' ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7/8 in. Tool Joint Size 4 1/2 X H in.

Blow: Strong Blow Thru/out Both Openings

Recovered 2 ft. of Very Heavy Oil cut Mud

Recovered 152 ft. of Oil specked Muddy water

Recovered 1674 ft. of Muddy water

Recovered      ft. of     

Recovered 1828 ft. of Total Fluid

Remarks:     

Time Set Packer(s) 12:35 AM Time Started Off Bottom 3:05 AM Maximum Temperature 113°

Initial Hydrostatic Pressure      (A) 2088 P.S.I.

Initial Flow Period 30 Minutes (B) 186 P.S.I. to (C) 631 P.S.I.

Initial Closed In Period 45 Minutes (D) 1200 P.S.I.

Final Flow Period 30 Minutes (E) 696 P.S.I. to (F) 901 P.S.I.

Final Closed In Period 45 Minutes (G) 1147 P.S.I.

Final Hydrostatic Pressure      (H) 2067 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

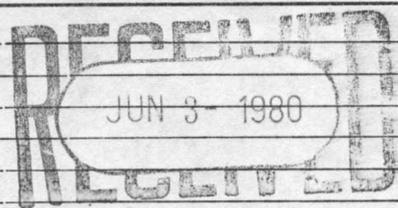
Test Approved By Jerry S. McLeod  
Signature of Customer or his authorized representative

Western Representative Steve Mitchell

FIELD INVOICE

Open Hole Test	\$ <u>600.00</u>
Misrun	\$ <u>    </u>
Straddle Test	\$ <u>    </u>
Jars	\$ <u>    </u>
Selective Zone	\$ <u>    </u>
Safety Joint	\$ <u>    </u>
Standby	\$ <u>    </u>
Evaluation	\$ <u>    </u>
Extra Packer	\$ <u>    </u>
Circ. Sub.	\$ <u>    </u>
Mileage	<u>46.50</u> <u>62 mi</u>
Fluid Sampler	\$ <u>    </u>
Extra Charts	\$ <u>    </u>

TOTAL \$ 646.50



WESTERN TESTING CO., INC.

Pressure Data

Date 5-30-80

Test Ticket No. 505-9

Recorder No. 4331

Capacity 415-0

Location 3925 Ft.

Clock No. \_\_\_\_\_

Elevation 3006 G.L.

Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2088</u>	P.S.I.	<u>12:35</u> M	
B First Initial Flow Pressure	<u>185</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>640</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1203</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>693</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>900</u>	P.S.I.		
G Final Closed-in Pressure	<u>1153</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2069</u>	P.S.I.		

PRESSURE BREAKDOWN

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

Initial Shut-In  
Breakdown: 15 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: 15 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>185</u>	0	<u>640</u>	0	<u>693</u>	0	<u>900</u>
P 2 5	<u>264</u>	3	<u>1063</u>	5	<u>711</u>	3	<u>1102</u>
P 3 10	<u>365</u>	6	<u>1089</u>	10	<u>754</u>	6	<u>1114</u>
P 4 15	<u>436</u>	9	<u>1108</u>	15	<u>795</u>	9	<u>1122</u>
P 5 20	<u>504</u>	12	<u>1125</u>	20	<u>829</u>	12	<u>1127</u>
P 6 25	<u>564</u>	15	<u>1141</u>	25	<u>864</u>	15	<u>1130</u>
P 7 30	<u>640</u>	18	<u>1157</u>	30	<u>900</u>	18	<u>1133</u>
P 8 35		21	<u>1163</u>	35		21	<u>1136</u>
P 9 40		24	<u>1171</u>	40		24	<u>1139</u>
P10 45		27	<u>1176</u>	45		27	<u>1142</u>
P11 50		30	<u>1181</u>	50		30	<u>1144</u>
P12 55		33	<u>1187</u>	55		33	<u>1146</u>
P13 60		36	<u>1192</u>	60		36	<u>1148</u>
P14		39	<u>1195</u>	65		39	<u>1150</u>
P15		42	<u>1200</u>	70		42	<u>1152</u>
P16		45	<u>1203</u>	75		45	<u>1153</u>
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	<u>1</u>

Company George R. Jones Lease & Well No. Pioneer #1  
 Elevation 3006 Ground Fire view Topeka Effective Pay -- Ft. Ticket No. 5059  
 Date 5/30/80 Sec. 13 Twp. 11S Range 32W County Logan State Kansas  
 Test Approved by Terry L. McLeod Western Representative Steve Michelich

Formation Test No. 1 Interval Tested from 3923 ft. to 4015 ft. Total Depth 4015 ft.  
 Packer Depth 3923 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3918 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3925 ft. Recorder Number 4331 Cap. 4150  
 Bottom Recorder Depth (Outside) 3928 ft. Recorder Number 13240 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -  
 Drilling Contractor R. & W. Drilling Rig #1 Drill Collar Length 436 I. D. 2.25 in.  
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 9.9 Water Loss 15.2 cc. Drill Pipe Length 2467 I. D. 3.8 in.  
 Chlorides 5,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.  
 Jars: Make None Serial Number - Anchor Length 92 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in.

Blow: Strong blow throughout both openings.

Recovered 2 ft. of very heavy oil cut mud  
 Recovered 152 ft. of oil specked muddy water  
 Recovered 1674 ft. of muddy water  
 Recovered 1828 ft. of Total fluid

Remarks: \_\_\_\_\_

Time Set Packer(s) 12:35 ~~AM~~ P.M. Time Started Off Bottom 3:05 ~~AM~~ P.M. Maximum Temperature 113°  
 Initial Hydrostatic Pressure ..... (A) 2088 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 185 P.S.I. to (C) 640 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1203 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 693 P.S.I. to (F) 900 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 1153 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2069 P.S.I.

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 5/30/80 Test Ticket No. 5059  
 Recorder No. 4331 Capacity 4150 Location 3925 Ft.  
 Clock No. - Elevation 3006 Ground Level Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2088</u>	P.S.I.	<u>12:35A</u>	<u>M</u>
B First Initial Flow Pressure	<u>185</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>640</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1203</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>693</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
F Second Final Flow Pressure	<u>900</u>	P.S.I.		
G Final Closed-in Pressure	<u>1153</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2069</u>	P.S.I.		

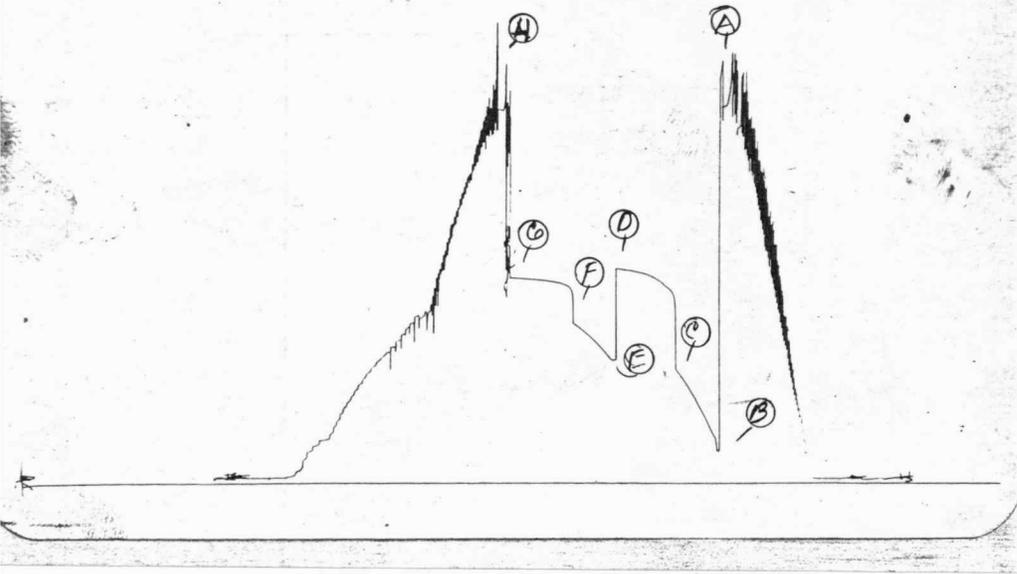
**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	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.	
	Press.	Point Minutes						
P 1	<u>185</u>	<u>0</u>	<u>640</u>	<u>0</u>	<u>693</u>	<u>0</u>	<u>900</u>	<u>0</u>
P 2	<u>264</u>	<u>3</u>	<u>1063</u>	<u>3</u>	<u>711</u>	<u>5</u>	<u>1102</u>	<u>3</u>
P 3	<u>365</u>	<u>6</u>	<u>1089</u>	<u>6</u>	<u>754</u>	<u>10</u>	<u>1114</u>	<u>6</u>
P 4	<u>436</u>	<u>9</u>	<u>1108</u>	<u>9</u>	<u>795</u>	<u>15</u>	<u>1122</u>	<u>9</u>
P 5	<u>504</u>	<u>12</u>	<u>1125</u>	<u>12</u>	<u>829</u>	<u>20</u>	<u>1127</u>	<u>12</u>
P 6	<u>564</u>	<u>15</u>	<u>1141</u>	<u>15</u>	<u>864</u>	<u>25</u>	<u>1130</u>	<u>15</u>
P 7	<u>640</u>	<u>18</u>	<u>1157</u>	<u>18</u>	<u>900</u>	<u>30</u>	<u>1133</u>	<u>18</u>
P 8		<u>21</u>	<u>1163</u>	<u>21</u>			<u>1136</u>	<u>21</u>
P 9		<u>24</u>	<u>1171</u>	<u>24</u>			<u>1139</u>	<u>24</u>
P10		<u>27</u>	<u>1176</u>	<u>27</u>			<u>1142</u>	<u>27</u>
P11		<u>30</u>	<u>1181</u>	<u>30</u>			<u>1144</u>	<u>30</u>
P12		<u>33</u>	<u>1187</u>	<u>33</u>			<u>1146</u>	<u>33</u>
P13		<u>36</u>	<u>1192</u>	<u>36</u>			<u>1148</u>	<u>36</u>
P14		<u>39</u>	<u>1195</u>	<u>39</u>			<u>1150</u>	<u>39</u>
P15		<u>42</u>	<u>1200</u>	<u>42</u>			<u>1152</u>	<u>42</u>
P16		<u>45</u>	<u>1203</u>	<u>45</u>			<u>1153</u>	<u>45</u>
P17								
P18								
P19								
P20								

74#5059

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1049  
5059





# WESTERN TESTING CO., INC.

## FORMATION TESTING

TICKET N<sup>o</sup> 5060

P. O. BOX 1599 PHONE (316) 838-0601  
WICHITA, KANSAS 67201

Elevation 3006 GL Formation KC Eff. Pay      Ft.

District Wakeeney Date 5-31-80 Customer Order No.     

COMPANY NAME George R Jones

ADDRESS 125 N Market, Suite 1310, Wichita Ks. 67202

LEASE AND WELL NO. Pioneer #1 COUNTY Logan STATE Ks Sec. 13 Twp 11s Rge 32w

Mail Invoice To Same as Above No. Copies Requested 5

Co. Name Pioneer #1 Address     

Mail Charts To      No. Copies Requested 5

Formation Test No. 2 Interval Tested from 4036 ft. to 4060 ft. Total Depth 4060 ft.

Packer Depth 4036 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Packer Depth 4031 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Depth of Selective Zone Set     

Top Recorder Depth (Inside) 4038 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 4041 ft. Recorder Number 13240 Cap. 4500

Below Straddle Recorder Depth      ft. Recorder Number      Cap.     

Drilling Contractor R&W Rig 1 Drill Collar Length 63' I. D. 2.25 in.

Mud Type Chem. Viscosity 42 Weight Pipe Length      I. D.      in.

Weight 10.2 Water Loss 14.4 cc. Drill Pipe Length 3953 I. D. 3.8 in.

Chlorides 5,000 P.P.M. Test Tool Length 19' ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number      Anchor Length 24' ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong Blow Thru/out Both Openings

Recovered 868 ft. of Gas in P. Dr

Recovered 598 ft. of Clean Gassy Oil

Recovered 124 ft. of Very Heavy Oil cut Mud

Recovered      ft. of     

Recovered 722 ft. of Total Fluid Specific Gravity 40

Remarks:     

Time Set Packer(s) 4:30 5:30 3:30

Initial Hydrostatic Pressure 8:45 A.M. Time Started Off Bottom 11:30 A.M. Maximum Temperature 113°

Initial Flow Period 30 Minutes (A) 2204 P.S.I.

Initial Closed In Period 45 Minutes (B) 98 P.S.I. to (C) 153 P.S.I.

Final Flow Period 45 Minutes (D) 1189 P.S.I.

Final Closed In Period 45 Minutes (E) 197 P.S.I. to (F) 295 P.S.I.

Final Hydrostatic Pressure 45 Minutes (G) 1211 P.S.I.

(H) 2204 P.S.I.

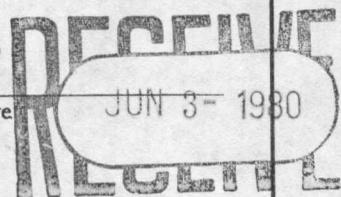
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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Larry L. McLeod  
Signature of Customer or his authorized representative

Western Representative Steve Mitchell



### FIELD INVOICE

Open Hole Test	\$ <u>600<sup>00</sup></u>
Misrun	\$ <u>    </u>
Straddle Test	\$ <u>    </u>
Jars	\$ <u>    </u>
Selective Zone	\$ <u>    </u>
Safety Joint	\$ <u>    </u>
Standby	\$ <u>    </u>
Evaluation	\$ <u>    </u>
Extra Packer	\$ <u>    </u>
Cin. Sub.	\$ <u>    </u>
Mileage	\$ <u>105<sup>00</sup></u>
Fluid Sampler	\$ <u>    </u>
Extra Charts	\$ <u>    </u>
TOTAL	\$ <u>600<sup>00</sup></u>

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

Date 5-31-80 Test Ticket No. 5060  
 Recorder No. 4331 Capacity 4150 Location 4038 Ft.  
 Clock No. \_\_\_\_\_ Elevation 3006 G.H. Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2203</u>	P.S.I.	<u>8:45 A</u>	M
B. First Initial Flow Pressure	<u>100</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C. First Final Flow Pressure	<u>155</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D. Initial Closed-in Pressure	<u>1186</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
E. Second Initial Flow Pressure	<u>207</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
F. Second Final Flow Pressure	<u>286</u>	P.S.I.		
G. Final Closed-in Pressure	<u>1207</u>	P.S.I.		
H. Final Hydrostatic Mud	<del>2203</del> <u>2178</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>15</u> Inc.	Breakdown:	<u>9</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>0</u>	<u>100</u>	<u>0</u>	<u>155</u>	<u>0</u>	<u>207</u>
P 2	<u>5</u>	<u>3</u>	<u>100</u>	<u>5</u>	<u>1085</u>	<u>3</u>	<u>200</u>
P 3	<u>10</u>	<u>6</u>	<u>100</u>	<u>10</u>	<u>1131</u>	<u>6</u>	<u>205</u>
P 4	<u>15</u>	<u>9</u>	<u>111</u>	<u>15</u>	<u>1149</u>	<u>9</u>	<u>210</u>
P 5	<u>20</u>	<u>12</u>	<u>125</u>	<u>20</u>	<u>1160</u>	<u>12</u>	<u>218</u>
P 6	<u>25</u>	<u>15</u>	<u>139</u>	<u>25</u>	<u>1168</u>	<u>15</u>	<u>234</u>
P 7	<u>30</u>	<u>18</u>	<u>155</u>	<u>30</u>	<u>1170</u>	<u>18</u>	<u>247</u>
P 8	<u>35</u>	<u>21</u>		<u>35</u>	<u>1175</u>	<u>21</u>	<u>262</u>
P 9	<u>40</u>	<u>24</u>		<u>40</u>	<u>1179</u>	<u>24</u>	<u>272</u>
P10	<u>45</u>	<u>27</u>		<u>45</u>	<u>1181</u>	<u>27</u>	<u>286</u>
P11	<u>50</u>	<u>30</u>		<u>50</u>	<u>1181</u>	<u>30</u>	
P12	<u>55</u>	<u>33</u>		<u>55</u>	<u>1183</u>	<u>33</u>	
P13	<u>60</u>	<u>36</u>		<u>60</u>	<u>1183</u>	<u>36</u>	
P14		<u>39</u>		<u>65</u>	<u>1186</u>	<u>39</u>	
P15		<u>42</u>		<u>70</u>	<u>1186</u>	<u>42</u>	
P16		<u>45</u>		<u>75</u>	<u>1186</u>	<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

Company George R. Jones Lease & Well No. Pioneer #1  
 Elevation 3006 Ground Level Formation Kansas City Effective Pay --- Ft. Ticket No. 5060  
 Date 5/31/80 Sec. 13 Twp. 11S Range 32W County Logan State Kansas  
 Test Approved by Terry L. McLeod Western Representative Steve Michellich

Formation Test No. 2 Interval Tested from 4036 ft. to 4060 ft. Total Depth 4060 ft.  
 Packer Depth 4036 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4031 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4038 ft. Recorder Number 4331 Cap. 4150  
 Bottom Recorder Depth (Outside) 4041 ft. Recorder Number 13240 Cap. 4500  
 Below Straddle Recorder Depth -- ft. Recorder Number - Cap. -

Drilling Contractor R. & W. Drilling Rig #1 Drill Collar Length 63 I. D. 2.25 in.  
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 10.2 Water Loss 14.4 cc. Drill Pipe Length 3953 I. D. 3.8 in.  
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 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong blow throughout both openings.

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 Recovered 598 ft. of clean gassy oil  
 Recovered 124 ft. of very heavy oil cut mud  
 Recovered 722 ft. of Total fluid Specific gravity 40°

Remarks: \_\_\_\_\_

Time Set Packer(s) 8:45 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 11:30 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 113°  
 Initial Hydrostatic Pressure (A) 2203 P.S.I.  
 Initial Flow Period Minutes 30 (B) 100 P.S.I. to (C) 155 P.S.I.  
 Initial Closed In Period Minutes 45 (D) 1186 P.S.I.  
 Final Flow Period Minutes 45 (E) 207 P.S.I. to (F) 286 P.S.I.  
 Final Closed In Period Minutes 45 (G) 1207 P.S.I.  
 Final Hydrostatic Pressure (H) 2178 P.S.I.

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

Date 5/31/80 Test Ticket No. 5060  
 Recorder No. 4331 Capacity 4150 Location 4038 Ft.  
 Clock No. - Elevation 3006 Ground Level Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2203</u> P.S.I.	Open Tool	<u>8:45A</u> M	
B. First Initial Flow Pressure	<u>100</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>155</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D. Initial Closed-in Pressure	<u>1186</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E. Second Initial Flow Pressure	<u>207</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F. Second Final Flow Pressure	<u>286</u> P.S.I.			
G. Final Closed-in Pressure	<u>1207</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2178</u> P.S.I.			

**PRESSURE BREAKDOWN**

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

**Initial Shut-In**  
 Breakdown: 15 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 9 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

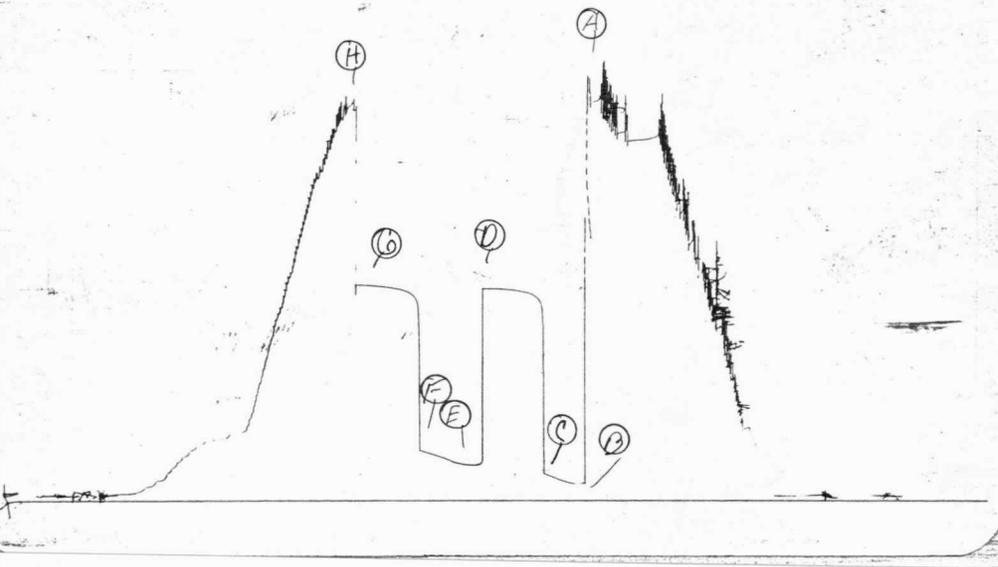
**Final Shut-In**  
 Breakdown: 15 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>100</u>	<u>0</u>	<u>155</u>	<u>0</u>	<u>207</u>	<u>0</u>	<u>286</u>
P 2 <u>5</u>	<u>100</u>	<u>3</u>	<u>1085</u>	<u>5</u>	<u>200</u>	<u>3</u>	<u>1127</u>
P 3 <u>10</u>	<u>100</u>	<u>6</u>	<u>1131</u>	<u>10</u>	<u>205</u>	<u>6</u>	<u>1155</u>
P 4 <u>15</u>	<u>111</u>	<u>9</u>	<u>1149</u>	<u>15</u>	<u>210</u>	<u>9</u>	<u>1170</u>
P 5 <u>20</u>	<u>125</u>	<u>12</u>	<u>1160</u>	<u>20</u>	<u>218</u>	<u>12</u>	<u>1176</u>
P 6 <u>25</u>	<u>139</u>	<u>15</u>	<u>1168</u>	<u>25</u>	<u>234</u>	<u>15</u>	<u>1185</u>
P 7 <u>30</u>	<u>155</u>	<u>18</u>	<u>1170</u>	<u>30</u>	<u>247</u>	<u>18</u>	<u>1187</u>
P 8 _____	_____	<u>21</u>	<u>1175</u>	<u>35</u>	<u>262</u>	<u>21</u>	<u>1191</u>
P 9 _____	_____	<u>24</u>	<u>1179</u>	<u>40</u>	<u>272</u>	<u>24</u>	<u>1194</u>
P10 _____	_____	<u>27</u>	<u>1181</u>	<u>45</u>	<u>286</u>	<u>27</u>	<u>1197</u>
P11 _____	_____	<u>30</u>	<u>1181</u>	_____	_____	<u>30</u>	<u>1200</u>
P12 _____	_____	<u>33</u>	<u>1183</u>	_____	_____	<u>33</u>	<u>1202</u>
P13 _____	_____	<u>36</u>	<u>1183</u>	_____	_____	<u>36</u>	<u>1204</u>
P14 _____	_____	<u>39</u>	<u>1186</u>	_____	_____	<u>39</u>	<u>1205</u>
P15 _____	_____	<u>42</u>	<u>1186</u>	_____	_____	<u>42</u>	<u>1206</u>
P16 _____	_____	<u>45</u>	<u>1186</u>	_____	_____	<u>45</u>	<u>1207</u>
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

4331

5060

TK#5060  
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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 5061

P. O. BOX 1599 PHONE (316) 838-0601 WICHITA, KANSAS 67201

Elevation 3000 G1 Formation KC Eff. Pay Ft.

District Wakarusa Date 6-1-80 Customer Order No. L

COMPANY NAME George R Jones ADDRESS 125 N Market, Suite 1310, Wichita, Ks, 67202

LEASE AND WELL NO. Pioneer #1 COUNTY Logan STATE KS. Sec. 13 Twp 11S Rge 32W

Mail Invoice To Same as Above Co. Name " (Pioneer) Address No. Copies Requested 5

Mail Charts To " (Pioneer) Address No. Copies Requested 5

Formation Test No. 3 Interval Tested from 4088 ft. to 4093 ft. Total Depth 4093 ft. Packer Depth 4088 ft. Size 6 3/4 in. Packer Depth 4083 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 4090 ft. Recorder Number 4331 Cap. 4150 Bottom Recorder Depth (Outside) 4093 ft. Recorder Number 13240 Cap. 4500 Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor RFW #1 Mud Type Chem. Viscosity 42 Weight 10.2 Water Loss 14.4 cc. Chlorides 8,000 P.P.M. Jars: Make Note Serial Number Did Well Flow? No Reversed Out No Drill Collar Length 63' I. D. 2.25 in. Weight Pipe Length I. D. Drill Pipe Length 4005' I. D. 3.8 in. Test Tool Length 19' ft. Tool Size 5 1/2 in. Anchor Length 15' ft. Size 5 1/2 in. Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak to Fair Blow thru/out Both Openings

Recovered 10 ft. of Clean Oil Recovered 30 ft. of Mud cut Oil 60% Oil 40% Mud Recovered 602 ft. of Mud cut Oil 55% Oil 45% Mud Recovered ft. of Recovered 102 ft. of Total Fluid

Remarks: Time Set Packer(s) 3:15 A.M. P.M. Time Started Off Bottom 6:15 A.M. P.M. Maximum Temperature 114° Initial Hydrostatic Pressure (A) 2361 P.S.I. Initial Flow Period (B) 45 Minutes (C) 87 P.S.I. Initial Closed In Period (D) 45 Minutes (E) 1062 P.S.I. Final Flow Period (F) 45 Minutes (G) 98 P.S.I. Final Closed In Period (H) 45 Minutes (H) 976 P.S.I. Final Hydrostatic Pressure 2204 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jerry L McLeod Signature of Customer or his authorized representative Western Representative Steve Michellich

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$600), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage (\$NC), Fluid Sampler, Extra Charts, and TOTAL (\$600).

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

Date 6-1-80 Test Ticket No. 5061  
 Recorder No. 4331 Capacity 4150 Location 4090 Ft.  
 Clock No. \_\_\_\_\_ Elevation 3006 G.L. Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2331</u>	P.S.I.	<u>3:15</u> AM	
B First Initial Flow Pressure	<u>92</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>91</u>	P.S.I.	<u>45</u> Mins.	<u>51</u> Mins.
D Initial Closed-in Pressure	<u>1062</u>	P.S.I.	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>109</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>104</u>	P.S.I.		
G Final Closed-in Pressure	<u>974</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2180</u>	P.S.I.		

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:	<u>9</u> Inc.	Breakdown:	<u>17</u> Inc.	Breakdown:	<u>8</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>0</u>	<u>91</u>	<u>0</u>	<u>109</u>	<u>0</u>	<u>104</u>
P 2	<u>5</u>	<u>3</u>	<u>134</u>	<u>5</u>	<u>104</u>	<u>3</u>	<u>155</u>
P 3	<u>10</u>	<u>6</u>	<u>299</u>	<u>10</u>		<u>6</u>	<u>283</u>
P 4	<u>15</u>	<u>9</u>	<u>599</u>	<u>15</u>		<u>9</u>	<u>521</u>
P 5	<u>20</u>	<u>12</u>	<u>767</u>	<u>20</u>		<u>12</u>	<u>693</u>
P 6	<u>25</u>	<u>15</u>	<u>851</u>	<u>25</u>		<u>15</u>	<u>775</u>
P 7	<u>30</u>	<u>18</u>	<u>898</u>	<u>30</u>		<u>18</u>	<u>823</u>
P 8	<u>35</u>	<u>21</u>	<u>931</u>	<u>35</u>		<u>21</u>	<u>853</u>
P 9	<u>40</u>	<u>24</u>	<u>959</u>	<u>40</u>	<u>104</u>	<u>24</u>	<u>883</u>
P10	<u>45</u>	<u>27</u>	<u>979</u>	<u>45</u>		<u>27</u>	<u>900</u>
P11	<u>50</u>	<u>30</u>	<u>997</u>	<u>50</u>		<u>30</u>	<u>918</u>
P12	<u>55</u>	<u>33</u>	<u>1010</u>	<u>55</u>		<u>33</u>	<u>931</u>
P13	<u>60</u>	<u>36</u>	<u>1021</u>	<u>60</u>		<u>36</u>	<u>943</u>
P14		<u>39</u>	<u>1031</u>	<u>65</u>		<u>39</u>	<u>957</u>
P15		<u>42</u>	<u>1041</u>	<u>70</u>		<u>42</u>	<u>967</u>
P16		<u>45</u>	<u>1048</u>	<u>75</u>		<u>45</u>	<u>974</u>
P17		<u>48</u>	<u>1055</u>	<u>80</u>		<u>48</u>	
P18		<u>51</u>	<u>1062</u>	<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

Company George R. Jones Lease & Well No. Pioneer #1  
 Elevation 3006 Ground Level Formation Kansas City Effective Pay ----- Ft. Ticket No. 5061  
 Date 6/1/80 Sec. 13 Twp. 11S Range 32W County Logan State Kansas  
 Test Approved by Terry L. McLeod Western Representative Steve Michellich

Formation Test No. 3 Interval Tested from 4088 ft. to 4093 ft. Total Depth 4093 ft.  
 Packer Depth 4088 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4083 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4090ft. Recorder Number 4331 Cap. 4150  
 Bottom Recorder Depth (Outside) 4093ft. Recorder Number 13240 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor R & W. Drilling Rig #1 Drill Collar Length 63 I. D. 2.25 in.  
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 10.2 Water Loss 14.4 cc. Drill Pipe Length 4005 I. D. 3.8 in.  
 Chlorides 8,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make None Serial Number - Anchor Length 15 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak to fair blow throughout both openings.

Recovered 10 ft. of clean oil  
 Recovered 30 ft. of mud cut oil (60% oil;40% mud)  
 Recovered 62 ft. of mud cut oil (55% oil;45% mud)  
 Recovered        ft. of         
 Recovered 102 ft. of Total fluid

Remarks:       

Time Set Packer(s) 3:15 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 6:15 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 114 °  
 Initial Hydrostatic Pressure 2331 P.S.I. (A)  
 Initial Flow Period 45 Minutes (B) 92 P.S.I. to (C) 91 P.S.I.  
 Initial Closed In Period 51 Minutes (D) 1062 P.S.I.  
 Final Flow Period 40 Minutes (E) 109 P.S.I. to (F) 104 P.S.I.  
 Final Closed In Period 45 Minutes (G) 974 P.S.I.  
 Final Hydrostatic Pressure 2180 P.S.I. (H)

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

Date 6-1-80 Test Ticket No. 5061  
 Recorder No. 4331 Capacity 4150 Location 4080 Ft.  
 Clock No. ---- Elevation 3006 Ground Level Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2331</u> P.S.I.	Open Tool	<u>3:15</u> A. M.	
B First Initial Flow Pressure	<u>92</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>91</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>51</u> Mins.
D Initial Closed-in Pressure	<u>1062</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>109</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>104</u> P.S.I.			
G Final Closed-in Pressure	<u>974</u> P.S.I.			
H Final Hydrostatic Mud	<u>2180</u> P.S.I.			

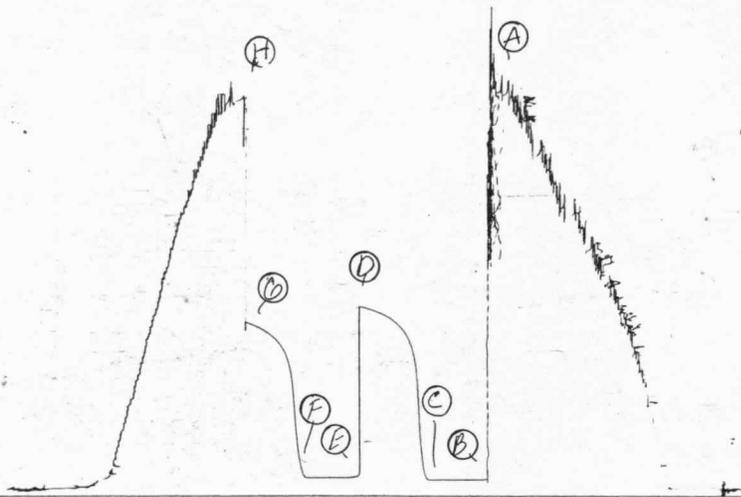
**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>17</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>92</u>	<u>0</u>	<u>91</u>	<u>0</u>	<u>109</u>	<u>0</u>	<u>104</u>
P 2 <u>5</u>	<u>91</u>	<u>3</u>	<u>134</u>	<u>5</u>	<u>104</u>	<u>3</u>	<u>155</u>
P 3 <u>10</u>	<u>91</u>	<u>6</u>	<u>299</u>	<u>10</u>	<u>104</u>	<u>6</u>	<u>283</u>
P 4 <u>15</u>	<u>91</u>	<u>9</u>	<u>599</u>	<u>15</u>	<u>104</u>	<u>9</u>	<u>521</u>
P 5 <u>20</u>	<u>91</u>	<u>12</u>	<u>767</u>	<u>20</u>	<u>104</u>	<u>12</u>	<u>693</u>
P 6 <u>25</u>	<u>91</u>	<u>15</u>	<u>851</u>	<u>25</u>	<u>104</u>	<u>15</u>	<u>775</u>
P 7 <u>30</u>	<u>91</u>	<u>28</u>	<u>898</u>	<u>30</u>	<u>104</u>	<u>18</u>	<u>823</u>
P 8 <u>35</u>	<u>91</u>	<u>21</u>	<u>931</u>	<u>35</u>	<u>104</u>	<u>21</u>	<u>855</u>
P 9 <u>40</u>	<u>91</u>	<u>24</u>	<u>959</u>	<u>40</u>	<u>104</u>	<u>24</u>	<u>883</u>
P10 <u>45</u>	<u>91</u>	<u>27</u>	<u>979</u>			<u>27</u>	<u>900</u>
P11		<u>30</u>	<u>997</u>			<u>30</u>	<u>918</u>
P12		<u>33</u>	<u>1010</u>			<u>33</u>	<u>931</u>
P13		<u>36</u>	<u>1021</u>			<u>36</u>	<u>943</u>
P14		<u>39</u>	<u>1031</u>			<u>39</u>	<u>957</u>
P15		<u>42</u>	<u>1041</u>			<u>42</u>	<u>967</u>
P16		<u>45</u>	<u>1048</u>			<u>45</u>	<u>974</u>
P17		<u>48</u>	<u>1055</u>				
P18		<u>51</u>	<u>1062</u>				
P19							
P20							

TR# 5061  
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4331  
5061





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 5062

P. O. BOX 1599 PHONE (316) 838-0601 WICHITA, KANSAS 67201

Elevation 3006 GL Formation KC Eff. Pay Ft.

District Wakeney Date 6-1-80 Customer Order No.

COMPANY NAME George R Jones

ADDRESS 125 N Market, Suite 1310, Wichita, Ks 67202

LEASE AND WELL NO. Pioneer #1 COUNTY Logan STATE Ks Sec. 13 Twp. 11s Rge. 32w

Mail Invoice To Same as Above Co. Name Address No. Copies Requested 5

Mail Charts To Pioneer #1 Address No. Copies Requested 5

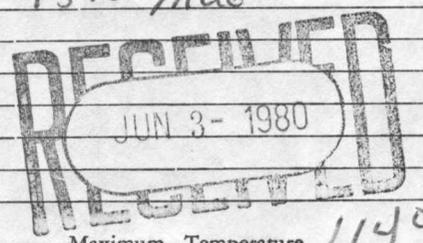
Formation Test No. 4 Interval Tested from 4138 ft. to 4186 ft. Total Depth 4186 ft. Packer Depth 4138 ft. Size 6 3/4 in. Packer Depth 4135 ft. Size 6 3/4 in. Packer Depth 4135 ft. Size 6 3/4 in. Depth of Selective Zone Set

Top Recorder Depth (Inside) 4140 ft. Recorder Number 4331 Cap. 4150 Bottom Recorder Depth (Outside) 4143 ft. Recorder Number 13240 Cap. 4500 Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor R+W Right Drill Collar Length 63' I. D. 2.25 in. Mud Type Chem. Viscosity 4/6 Weight Pipe Length I. D. in. Weight 10.1 Water Loss 12.8 cc. Drill Pipe Length 4055 I. D. 3.8 in. Chlorides 6,000 P.P.M. Test Tool Length 19' ft. Tool Size 5 1/2 in. Jars: Make None Serial Number Anchor Length 48' ft. Size 5 1/2 in. Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 7 1/4 in. Tool Joint Size 4 1/2 x H in.

Blow: Weak Blow Increasing To Fair Blow Thru Out Both Openings

Recovered 82 ft. of Clean Oil Recovered 218 ft. of Mud cut Oil 55% Oil 45% Mud Recovered 300 ft. of Total Fluid Recovered ft. of 250' Gas in Pipe Remarks:



Time Set Packer(s) 11:30 A.M. P.M. Time Started Off Bottom 2:30 A.M. P.M. Maximum Temperature 114° Initial Hydrostatic Pressure (A) 2291 P.S.I. Initial Flow Period Minutes 45 (B) 114 P.S.I. to (C) 114 P.S.I. Initial Closed In Period Minutes 45 (D) 1282 P.S.I. Final Flow Period Minutes 45 (E) 159 P.S.I. to (F) 159 P.S.I. Final Closed In Period Minutes 45 (G) 1214 P.S.I. Final Hydrostatic Pressure (H) 2234 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Steve Michellich Signature of Customer or his authorized representative Western Representative Terry L. McLeod

FIELD INVOICE

Table with 2 columns: Item, Price. Includes Open Hole Test \$600.00, Misc. \$, Straddle Test \$, Jars \$, Selective Zone \$, Safety Joint \$, Standby \$, Evaluation \$, Extra Packer \$, Circ. Sub. \$, Mileage \$, Fluid Sampler \$, Extra Charts \$, TOTAL \$600.00

WESTERN TESTING CO., INC.

Pressure Data

Date 6-1-80 Test Ticket No. 5062  
 Recorder No. 4331 Capacity 4150 Location 4140 Ft.  
 Clock No. \_\_\_\_\_ Elevation 3006 G. 7. Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2319</u>	P.S.I.	<u>11:30P</u>	M
B First Initial Flow Pressure	<u>76</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
C First Final Flow Pressure	<u>97</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>1297</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
E Second Initial Flow Pressure	<u>120</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
F Second Final Flow Pressure	<u>133</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
G Final Closed-in Pressure	<u>1219</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2264</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</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 0	<u>76</u>	0	<u>97</u>	0	<u>120</u>	0	<u>133</u>
P 2 5	↑ ↓	3	<u>434</u>	5	<u>115</u>	3	<u>653</u> <del>926</del>
P 3 10		6	<u>831</u>	10	<u>117</u>	6	<u>997</u> <del>1155</del>
P 4 15		9	<u>1065</u>	15	<u>121</u>	9	<u>1102</u> <del>1178</del>
P 5 20		12	<u>1163</u>	20	<u>126</u>	12	<u>1153</u> <del>1204</del>
P 6 25		15	<u>1212</u>	25	<u>128</u>	15	<u>1190</u> <del>1212</del>
P 7 30	<u>76</u>	18	<u>1238</u>	30	<u>128</u>	18	<u>1197</u> <del>1207</del>
P 8 35	<u>83</u>	21	<u>1253</u>	35	<u>128</u>	21	<u>1206</u> <del>1210</del>
P 9 40	<u>90</u>	24	<u>1265</u>	40	<u>128</u>	24	<u>1212</u> <del>1210</del>
P10 45	<u>97</u>	27	<u>1274</u>	45	<u>133</u>	27	<u>1208</u> <del>1214</del>
P11 50		30	<u>1280</u>	50		30	<u>1208</u> <del>1219</del>
P12 55		33	<u>1285</u>	55		33	<u>1208</u>
P13 60		36	<u>1289</u>	60		36	<u>1211</u>
P14		39	<u>1292</u>	65		39	<u>1213</u>
P15		42	<u>1294</u>	70		42	<u>1213</u>
P16		45	<u>1297</u>	75		45	<u>1219</u>
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

George R. Jones

Pioneer #1

Company George R. Jones Lease & Well No. Pioneer #1  
 Elevation 3006 Ground Level Kansas City Formation ----- Ft. Ticket No. 5062  
 Date 6/1/80 Sec. 13 Twp. 11S Range 32W County Logan State Kansas  
 Test Approved by Terry L. McLeod Western Representative Steve Michellich

Formation Test No. 4 Interval Tested from 4138 ft. to 4186 ft. Total Depth 4186 ft.  
 Packer Depth 4138 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4135 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4140 ft. Recorder Number 4331 Cap. 4150  
 Bottom Recorder Depth (Outside) 4143 ft. Recorder Number 13240 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor R. & W. Drilling Rig #1 Drill Collar Length 63 I. D. 2.25 in.  
 Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.  
 Weight 10.1 Water Loss 12.8 cc. Drill Pipe Length 4055 I. D. 3.8 in.  
 Chlorides 6,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make None Serial Number - Anchor Length 48 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak blow increasing to fair blow throughout both openings.

Recovered 82 ft. of clean oil  
 Recovered 218 ft. of mud cut oil (55% oil; 45% mud)  
 Recovered        ft. of         
 Recovered 300 ft. of Total fluid  
 Recovered        ft. of         
 Remarks: 250 ft. of gas in pipe

Time Set Packer(s) 11:30 AM/PM Time Started Off Bottom 2:30 AM/PM Maximum Temperature 114°  
 Initial Hydrostatic Pressure (A) 2319 P.S.I.  
 Initial Flow Period Minutes 45 (B) 76 P.S.I. to (C) 97 P.S.I.  
 Initial Closed In Period Minutes 45 (D) 1297 P.S.I.  
 Final Flow Period Minutes 45 (E) 120 P.S.I. to (F) 133 P.S.I.  
 Final Closed In Period Minutes 45 (G) 1219 P.S.I.  
 Final Hydrostatic Pressure (H) 2264 P.S.I.

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

Date 6-1-80 Test Ticket No. 5062  
 Recorder No. 4331 Capacity 4150 Location 4140 Ft.  
 Clock No. --- Elevation 3006 Ground Level Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2319</u>	P.S.I.	<u>11:30 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>76</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>97</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1297</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>120</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>133</u>	P.S.I.		
G Final Closed-in Pressure	<u>1219</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2264</u>	P.S.I.		

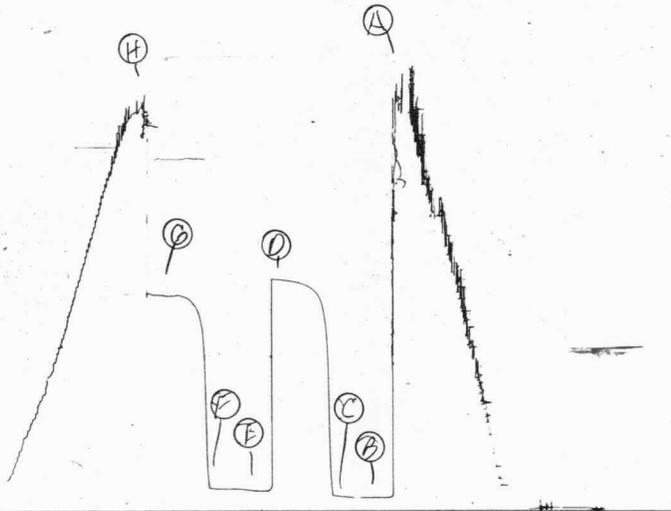
**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins.	and a final inc. of <u>0</u> Min.	of <u>3</u> mins.	and a final inc. of <u>0</u> Min.	of <u>5</u> mins.	and a final inc. of <u>0</u> Min.	of <u>3</u> mins.	and a 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>76</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>120</u>	<u>0</u>	<u>133</u>	
P 2 <u>5</u>	<u>76</u>	<u>3</u>	<u>434</u>	<u>5</u>	<u>115</u>	<u>3</u>	<u>653</u>	
P 3 <u>10</u>	<u>76</u>	<u>6</u>	<u>831</u>	<u>10</u>	<u>117</u>	<u>6</u>	<u>997</u>	
P 4 <u>15</u>	<u>76</u>	<u>9</u>	<u>1065</u>	<u>15</u>	<u>121</u>	<u>9</u>	<u>1102</u>	
P 5 <u>20</u>	<u>76</u>	<u>12</u>	<u>1163</u>	<u>20</u>	<u>126</u>	<u>12</u>	<u>1153</u>	
P 6 <u>25</u>	<u>76</u>	<u>15</u>	<u>1212</u>	<u>25</u>	<u>128</u>	<u>15</u>	<u>1180</u>	
P 7 <u>30</u>	<u>76</u>	<u>18</u>	<u>1238</u>	<u>30</u>	<u>128</u>	<u>18</u>	<u>1197</u>	
P 8 <u>35</u>	<u>83</u>	<u>21</u>	<u>1253</u>	<u>35</u>	<u>128</u>	<u>21</u>	<u>1206</u>	
P 9 <u>40</u>	<u>90</u>	<u>24</u>	<u>1265</u>	<u>40</u>	<u>128</u>	<u>24</u>	<u>1212</u>	
P10 <u>45</u>	<u>97</u>	<u>27</u>	<u>1274</u>	<u>45</u>	<u>133</u>	<u>27</u>	<u>1208</u>	
P11		<u>30</u>	<u>1280</u>			<u>30</u>	<u>1208</u>	
P12		<u>33</u>	<u>1285</u>			<u>33</u>	<u>1208</u>	
P13		<u>36</u>	<u>1289</u>			<u>36</u>	<u>1211</u>	
P14		<u>39</u>	<u>1292</u>			<u>39</u>	<u>1213</u>	
P15		<u>42</u>	<u>1294</u>			<u>42</u>	<u>1213</u>	
P16		<u>45</u>	<u>1297</u>			<u>45</u>	<u>1219</u>	
P17								
P18								
P19								
P20								

4331

5062

~~TKC # 5062~~





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 5063

P. O. BOX 1599 PHONE (316) 838-0601 WICHITA, KANSAS 67201

Elevation 3006 GL Formation KC Eff. Pay Ft.

District W. Keeney Date 6-2-80 Customer Order No.

COMPANY NAME George R. Jones

ADDRESS 125 N. Market, Suite 1310, Wichita Ks 67202

LEASE AND WELL NO. Pioneer #1 of COUNTY Logan STATE Ks Sec. 13 Twp 11S Rge 32W

Mail Invoice To Same as Above Co. Name Address No. Copies Requested 5

Mail Charts To Address No. Copies Requested 5

Formation Test No. 5 Interval Tested from 4202 ft. to 4240 ft. Total Depth 4240 ft.

Packer Depth 4202 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4197 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4204 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 4207 ft. Recorder Number 13240 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor R & W #1 Drill Collar Length 63' I. D. 2.25 in.

Mud Type Chem. Viscosity 42 Weight Pipe Length I. D. in.

Weight 10 Water Loss 12 cc. Drill Pipe Length 4157 I. D. 3.8 in.

Chlorides 2,000 P.P.M. Test Tool Length 19' ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number Anchor Length 38' ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak Blow Increasing To Good Blow Thru/out Both openings

Recovered 15' ft. of Clean Oil

Recovered 62' ft. of Mud cut Oil 60% Oil 40% Mud

Recovered 77' ft. of Total Fluid

Recovered ft. of

Remarks:

4:30 5:30 2:00

Time Set Packer(s) 7:05 AM P.M. Time Started Off Bottom 10:05 AM P.M. Maximum Temperature 114°

Initial Hydrostatic Pressure (A) 2298 P.S.I.

Initial Flow Period Minutes 45 (B) 66 P.S.I. to (C) 66 P.S.I.

Initial Closed In Period Minutes 45 (D) 866 P.S.I.

Final Flow Period Minutes 45 (E) 87 P.S.I. to (F) 87 P.S.I.

Final Closed In Period Minutes 45 (G) 1168 P.S.I.

Final Hydrostatic Pressure (H) 2267 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jerry L. McLeod Signature of Customer or his authorized representative

Western Representative Steve Michellish

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test \$600.00, Misc. \$, Straddle Test \$, Jars \$, Selective Zone \$, Safety Joint \$, Standby \$, Evaluation \$, Extra Packer \$, Circ. Sub. \$, Mileage \$, Fluid Sampler \$, Extra Charts \$, TOTAL \$600.00

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

Date 6-2-80 Test Ticket No. 5063  
 Recorder No. 4331 Capacity 4150 Location 4204 Ft.  
 Clock No. — Elevation 3006 GL Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2300</u> P.S.I.	Open Tool	<u>7:05 P.M.</u>	
B. First Initial Flow Pressure	<u>74</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C. First Final Flow Pressure	<u>66</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D. Initial Closed-in Pressure	<u>958</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>50</u> Mins.
E. Second Initial Flow Pressure	<u>90</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F. Second Final Flow Pressure	<u>83</u> P.S.I.			
G. Final Closed-in Pressure	<u>1168</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2265</u> P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>16</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>16</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>74</u>	0	<u>66</u>	0	<u>90</u>	0	<u>83</u>
P 2	<u>70</u>	3	<u>72</u>	5	<u>84</u>	3	<u>88</u>
P 3	<u>66</u>	6	<u>91</u>	10	<u>83</u>	6	<u>114</u>
P 4		9	<u>127</u>	15		9	<u>148</u>
P 5		12	<u>188</u>	20		12	<u>205</u>
P 6		15	<u>321</u>	25		15	<u>319</u>
P 7		18	<u>519</u>	30		18	<u>485</u>
P 8		21	<u>726</u>	35		21	<u>709</u>
P 9		24	<u>821</u>	40		24	<u>894</u>
P10	<u>66</u>	27	<u>894</u>	45		27	<u>1002</u>
P11		30	<u>929</u>	50	<u>83</u>	30	<u>1054</u>
P12		33	<u>936</u>	55		33	<u>1085</u>
P13		36	<u>938</u>	60		36	<u>1109</u>
P14		39	<u>944</u>	65		39	<u>1128</u>
P15		42	<u>950</u>	70		42	<u>1143</u>
P16		45	<u>956</u> <del>958</del>	75		45	<u>1157</u>
P17		48	<u>958</u> <del>958</del>	80		48	<u>1168</u>
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Company George R. Jones Lease & Well No. Pioneer #1  
 Elevation 3006 Ground Level Formation Kansas City Effective Pay - Ft. Ticket No. 5063  
 Date 6-2-80 Sec. 13 Twp. 11S Range 32W County Logan State Kansas  
 Test Approved by Terry L. McLeod Western Representative Steve Michellich

Formation Test No. 5 Interval Tested from 4202 ft. to 4240 ft. Total Depth 4240 ft.  
 Packer Depth 4202 ft. Size 6 3/4 in. Packer Depth 4197 ft. Size 6 3/4 in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4204 ft. Recorder Number 4331 Cap. 4150  
 Bottom Recorder Depth (Outside) 4207 ft. Recorder Number 13240 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson (#1) Drill Collar Length 63 I. D. 2.25 in.  
 Mud Type Chemical Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 10. Water Loss 12. cc. Drill Pipe Length 4157 I. D. 3.8 in.  
 Chlorides 7,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 38 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak blow increasing to good blow throughout test.

Recovered 15 ft. of clean oil  
 Recovered 62 ft. of mud cut oil (60% oil, 40% mud)  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered 77 ft. of total fluid

Remarks: \_\_\_\_\_

Time Set Packer(s) 7:05 ~~AM~~ P.M. Time Started Off Bottom 10:05 ~~AM~~ P.M. Maximum Temperature 114  
 Initial Hydrostatic Pressure ..... (A) 2300 P.S.I.  
 Initial Flow Period ..... Minutes 45 (B) 74 P.S.I. to (C) 66 P.S.I.  
 Initial Closed In Period ..... Minutes 48 (D) 958 P.S.I.  
 Final Flow Period ..... Minutes 50 (E) 90 P.S.I. to (F) 83 P.S.I.  
 Final Closed In Period ..... Minutes 48 (G) 1168 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2265 P.S.I.

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

Date 6-2-80 Recorder No. 4331 Capacity 4150 Test Ticket No. 5063  
 Location 4204 Ft.  
 Clock No. ----- Elevation 3006 Ground Level Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2300</u> P.S.I.	Open Tool	<u>7:05</u> P. M.	
B First Initial Flow Pressure	<u>74</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>66</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>958</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>50</u> Mins.
E Second Initial Flow Pressure	<u>90</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure	<u>83</u> P.S.I.			
G Final Closed-in Pressure	<u>1168</u> P.S.I.			
H Final Hydrostatic Mud	<u>2265</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 9 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Initial Shut-In**  
 Breakdown: 16 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

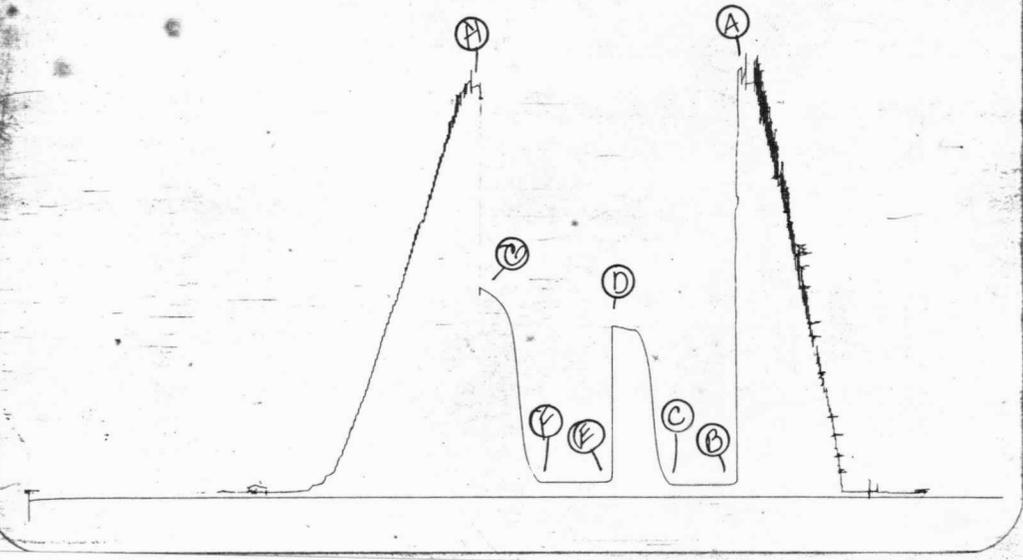
**Second Flow Pressure**  
 Breakdown: 10 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 16 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>47</u>	<u>0</u>	<u>66</u>	<u>0</u>	<u>90</u>	<u>0</u>	<u>83</u>
P 2 <u>5</u>	<u>70</u>	<u>3</u>	<u>72</u>	<u>5</u>	<u>84</u>	<u>3</u>	<u>88</u>
P 3 <u>10</u>	<u>66</u>	<u>6</u>	<u>91</u>	<u>10</u>	<u>83</u>	<u>6</u>	<u>114</u>
P 4 <u>15</u>	<u>66</u>	<u>9</u>	<u>127</u>	<u>15</u>	<u>83</u>	<u>9</u>	<u>148</u>
P 5 <u>20</u>	<u>66</u>	<u>12</u>	<u>188</u>	<u>20</u>	<u>83</u>	<u>12</u>	<u>205</u>
P 6 <u>25</u>	<u>66</u>	<u>15</u>	<u>321</u>	<u>25</u>	<u>83</u>	<u>15</u>	<u>319</u>
P 7 <u>30</u>	<u>66</u>	<u>18</u>	<u>519</u>	<u>30</u>	<u>83</u>	<u>18</u>	<u>485</u>
P 8 <u>35</u>		<u>21</u>	<u>726</u>	<u>35</u>	<u>83</u>	<u>21</u>	<u>709</u>
P 9 <u>40</u>		<u>24</u>	<u>821</u>	<u>40</u>	<u>83</u>	<u>24</u>	<u>894</u>
P10 <u>45</u>		<u>27</u>	<u>894</u>	<u>45</u>	<u>83</u>	<u>27</u>	<u>1002</u>
P11		<u>30</u>	<u>929</u>	<u>50</u>	<u>83</u>	<u>30</u>	<u>1054</u>
P12		<u>33</u>	<u>936</u>	<u>55</u>		<u>33</u>	<u>1085</u>
P13		<u>36</u>	<u>938</u>	<u>60</u>		<u>36</u>	<u>1109</u>
P14		<u>39</u>	<u>944</u>			<u>39</u>	<u>1128</u>
P15		<u>42</u>	<u>950</u>			<u>42</u>	<u>1143</u>
P16		<u>45</u>	<u>956</u>			<u>45</u>	<u>1157</u>
P17		<u>48</u>	<u>958</u>			<u>48</u>	<u>1168</u>
P18							
P19							
P20							

TX# 5063  
I

7001  
5063





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 4691

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 838-0601

Elevation 3013 KB Formation Marmaton Eff. Pay Ft.

District Wakeeney Date 6-4-80 Customer Order No.

COMPANY NAME George R. Jones

ADDRESS 125 N. Market, Suite 1310 Wichita, Ks. 67202

LEASE AND WELL NO. Pioneer #1 COUNTY Logan STATE KS Sec. 13 Twp 11 Rge 32w

Mail Invoice To Same Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 6 Interval Tested from 4458 ft. to 4525 ft. Total Depth 4525 ft.
Packer Depth 4453 ft. Size 6 3/4 in. Packer Depth 4458 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 4516 ft. Recorder Number 1564 Cap. 3150
Bottom Recorder Depth (Outside) 4519 ft. Recorder Number 3085 Cap. 4500
Below Straddle Recorder Depth Recorder Number Cap.

Drilling Contractor R+W Rig #1 Drill Collar Length 63 I. D. 2.26 in.
Mud Type Chem Viscosity 42 Weight Pipe Length I. D. in.
Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 4442 I. D. 3.8 in.
Chlorides 5,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.
Jars: Make NO Serial Number Anchor Length 67 ft. Size 5 1/2 in.
Did Well Flow? G.T.S. Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7/8 in. Tool Joint Size 4 1/2 Fb in.

Blow: Very Strong Blow Thru Out Both Opens.

Recovered ft. of Gas To Surface
Recovered 310 ft. of Clean Gassy Oil (45 Gravity)
Recovered 120 ft. of Oil + Gas Cut Mud (Top 70% G-17% O-12% W-12% M)
Recovered ft. of (Bot 12% G-38% O-50% M)

Remarks: on Loc. 6:30 AM Pick up Tool 7:30 Leave Loc. 3:30 PM.

Gas To Surface 10 min into 2nd Shut In

Table with 4 columns: Time Set, Packer(s), A.M. P.M., Time Started Off Bottom, A.M. P.M., Maximum Temperature. Rows include Initial Hydrostatic Pressure, Initial Flow Period, Initial Closed In Period, Final Flow Period, Final Closed In Period, Final Hydrostatic Pressure.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made...

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

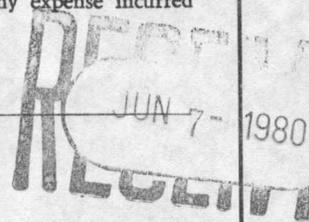
Test Approved By: Larry L. McLeod
Signature of Customer or his authorized representative

Western Representative: Ken Metzger

Thank You!

FIELD INVOICE

Table with 2 columns: Item, Price. Items include Open Hole Test (\$600.00), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Midge, Fluid Sampler, Extra Charts, TOTAL (\$600.00).



WESTERN TESTING CO., INC.

Pressure Data

Date 6-4-80 Test Ticket No. 4691  
 Recorder No. 1564 Capacity 3150 Location 4516 Ft.  
 Clock No. — Elevation 3013 KB Well Temperature 127 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2503</u> P.S.I.		<u>9:12</u> A M	
B First Initial Flow Pressure	<u>105</u> P.S.I.	First Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>115</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1137</u> P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>174</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>185</u> P.S.I.			
G Final Closed-in Pressure	<u>1103</u> P.S.I.			
H Final Hydrostatic Mud	<u>2447</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure  
 Breakdown: 4 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

Initial Shut-In  
 Breakdown: 15 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Second Flow Pressure  
 Breakdown: 4 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

Final Shut-In  
 Breakdown: 14 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>105</u>	0	<u>115</u>	0	<u>174</u>	0	<u>185</u>
P 2 5	<u>99</u>	3	<u>171</u>	5	<u>171</u>	3	<u>239</u>
P 3 10	<u>99</u>	6	<u>545</u>	10	<u>168</u>	6	<u>978</u>
P 4 15	<u>105</u>	9	<u>1030</u>	15	<u>174</u>	9	<u>1019</u>
P 5 20	<u>115</u>	12	<u>1060</u>	20	<u>185</u>	12	<u>1038</u>
P 6 25		15	<u>1077</u>	25		15	<u>1052</u>
P 7 30		18	<u>1092</u>	30		18	<u>1062</u>
P 8 35		21	<u>1101</u>	35		21	<u>1072</u>
P 9 40		24	<u>1109</u>	40		24	<u>1079</u>
P10 45		27	<u>1115</u>	45		27	<u>1084</u>
P11 50		30	<u>1120</u>	50		30	<u>1088</u>
P12 55		33	<u>1125</u>	55		33	<u>1094</u>
P13 60		36	<u>1128</u>	60		36	<u>1098</u>
P14		39	<u>1131</u>	65		39	<u>1101</u>
P15		42	<u>1134</u>	70		42	<u>1103</u>
P16		45	<u>1137</u>	75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Company George R. Jones Lease & Well No. Pioneer #1  
 Elevation 3013 Kelly Bushing Formation Marmaton Effective Pay - Ft. Ticket No. 4691  
 Date 6/4/80 Sec. 13 Twp. 11S Range 32W County Logan State Kansas  
 Test Approved by Terry L. McLeod Western Representative Ken Metzler

Formation Test No. 6 Interval Tested from 4458 ft. to 4525 ft. Total Depth 4525 ft.  
 Packer Depth 4453 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4458 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4516 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 4519 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor R. & W. Drilling Rig #1 Drill Collar Length 63 I. D. 2.26 in.  
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 4442 I. D. 3.8 in.  
 Chlorides 5,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make NO Serial Number - Anchor Length 67 ft. Size 5 1/2 in.  
 Did Well Flow? Gas to surface Reversed Out Mp Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very strong blow throughout both openings.

Recovered ft. of Gas to surface  
 Recovered 310 ft. of clean gassy oil (45° gravity)  
 Recovered 120 ft. of oil and gas cut mud (Top:70% gas;17% oil;1% water;12% mud)  
 Recovered ft. of (Bottom:12% gas;38% oil;50% mud)  
 Recovered ft. of

Remarks: Gas to surface ten minutes into second shut-in.

Time Set Packer(s) 9:12 A.M. Time Started Off Bottom 11:25 A.M. Maximum Temperature 127°  
P.M. P.M.  
 Initial Hydrostatic Pressure ..... (A) 2503 P.S.I.  
 Initial Flow Period ..... Minutes 20 (B) 105 P.S.I. to (C) 115 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1137 P.S.I.  
 Final Flow Period ..... Minutes 20 (E) 174 P.S.I. to (F) 185 P.S.I.  
 Final Closed In Period ..... Minutes 42 (G) 1103 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2447 P.S.I.

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 6/4/80 Test Ticket No. 4691  
 Recorder No. 1564 Capacity 3150 Location 4516 Ft.  
 Clock No. -- Elevation 3013 Kelly Bushing Well Temperature 127 °F

Point	Pressure			Time Given	M	Time Computed
		P.S.I.				
A Initial Hydrostatic Mud	2503	P.S.I.	Open Tool	9:12A		
B First Initial Flow Pressure	105	P.S.I.	First Flow Pressure	20	Mins.	20 Mins.
C First Final Flow Pressure	115	P.S.I.	Initial Closed-in Pressure	45	Mins.	45 Mins.
D Initial Closed-in Pressure	1137	P.S.I.	Second Flow Pressure	20	Mins.	20 Mins.
E Second Initial Flow Pressure	174	P.S.I.	Final Closed-in Pressure	45	Mins.	42 Mins.
F Second Final Flow Pressure	185	P.S.I.				
G Final Closed-in Pressure	1103	P.S.I.				
H Final Hydrostatic Mud	2447	P.S.I.				

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	4		15		4		14	
	of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
	final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	105	0	115	0	174	0	185	
P 2 5	99	3	171	5	171	3	239	
P 3 10	99	6	545	10	168	6	978	
P 4 15	105	9	1030	15	174	9	1019	
P 5 20	115	12	1060	20	185	12	1038	
P 6		15	1077			15	1052	
P 7		18	1092			18	1062	
P 8		21	1101			21	1072	
P 9		24	1109			24	1079	
P10		27	1115			27	1084	
P11		30	1120			30	1088	
P12		33	1125			33	1094	
P13		36	1128			36	1098	
P14		39	1131			39	1101	
P15		42	1134			42	1103	
P16		45	1137					
P17								
P18								
P19								
P20								





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 4692

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 838-0601

Elevation 3013 KB Formation Cherokee Eff. Pay Ft.

District Wakeeney Date 6-5-80 Customer Order No.

COMPANY NAME George R. Jones

ADDRESS 125 N. Market, Suite 1310, Wichita, Ks. 67202

LEASE AND WELL NO. Pioneer #1 COUNTY Logan STATE Ks. Sec. 13 Twp 11s Rge 32w

Mail Invoice To Same Co. Name Same Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 7 Interval Tested from 4529 ft. to 4600 ft. Total Depth 4600 ft.

Packer Depth 4524 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4529 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4592 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 4595 ft. Recorder Number 3085 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor R+W Rig #1 Drill Collar Length 63 I. D. 2.26 in.

Mud Type chem Viscosity 42 Weight Pipe Length I. D. in.

Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 4491 I. D. 3.8 in.

Chlorides 5,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number Anchor Length 71 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very Weak Blow Dried in 10 min 1st Open

Recovered 10 ft. of Oil Specked Mud show Free Oil in Tool.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: On Loc. 2:00 AM Pickup Tool 4:00 Leave Loc. 12:00 NOON

Time Set Packer(s) 6:12 A.M. Time Started Off Bottom 8:45 A.M. Maximum Temperature 132°

Initial Hydrostatic Pressure (A) 2516 P.S.I.

Initial Flow Period Minutes 30 (B) 70 P.S.I. to (C) 70 P.S.I.

Initial Closed In Period Minutes 45 (D) 928 P.S.I.

Final Flow Period Minutes 30 (E) 70 P.S.I. to (F) 70 P.S.I.

Final Closed In Period Minutes 45 (G) 732 P.S.I.

Final Hydrostatic Pressure (H) 2500 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Terry L. McLeod Signature of Customer or his authorized representative

Western Representative Ken Metzler Metzler

Thank You!

FIELD INVOICE

Open Hole Test \$ 600.00

Misrun \$

Straddle Test \$

Jars \$

Selective Zone \$

Safety Joint \$

standby \$

Evaluation \$

Extra Packer \$

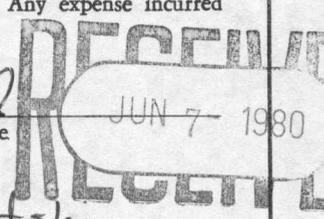
Circ. Sub. \$

Mileage \$

Fluid Sampler \$

Extra Charts \$

TOTAL \$ 600.00



WESTERN TESTING CO., INC.

Pressure Data

Date 6-5-80 Test Ticket No. 4692  
 Recorder No. 1564 Capacity 3150 Location 4592 Ft.  
 Block No.        Elevation 3013 KB Well Temperature 132 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	<u>2576</u>	P.S.I.		<u>6:12 A.M.</u>	
First Initial Flow Pressure	<u>95</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
First Final Flow Pressure	<u>71</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
Initial Closed-in Pressure	<u>926</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Second Initial Flow Pressure	<u>99</u>	P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
Second Final Flow Pressure	<u>74</u>	P.S.I.			
Final Closed-in Pressure	<u>734</u>	P.S.I.			
Final Hydrostatic Mud	<u>2500</u>	P.S.I.			

PRESSURE BREAKDOWN

Point ins.	First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Point Minutes	Press.	Point Minutes	Press.
1	0	<u>95</u>	0	<u>71</u>
2	5	<u>88</u>	3	<u>72</u>
3	10	<u>78</u>	6	<u>95</u>
4	15	<u>73</u>	9	<u>160</u>
5	20	<u>71</u>	12	<u>280</u>
6	25	<u>71</u>	15	<u>416</u>
7	30	<u>71</u>	18	<u>572</u>
8	35		21	<u>587</u>
9	40		24	<u>650</u>
0	45		27	<u>710</u>
1	50		30	<u>762</u>
2	55		33	<u>787</u>
3	60		36	<u>848</u>
4			39	<u>885</u>
5			42	<u>915</u>
6			45	<u>926</u>
7			48	
8			51	
9			54	
0			57	
			60	

Company George R. Jones Lease & Well No. Pioneer #1  
 Elevation 3013 Kelly Bushing Formation Cherokee Effective Pay -- Ft. Ticket No. 4692  
 Date 6/5/80 Sec. 13 Twp. 11S Range 32W County Logan State Kansas  
 Test Approved by Terry L. McLeod Western Representative Ken Metzler

Formation Test No. 7 Interval Tested from 4529 ft. to 4600 ft. Total Depth 4600 ft.  
 Packer Depth 4524 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4529 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4592 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 4595 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth -- ft. Recorder Number - Cap. -

Drilling Contractor R. & W. Rig #1 Drill Collar Length 63 I. D. 2.26 in.  
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 4491 I. D. 3.8 in.  
 Chlorides 5,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 71 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out N O Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very weak blow died in ten minutes on first opening.

Recovered 10 ft. of oil specked mud show free oil in tool  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s) 6:12 A.M. Time Started Off Bottom 8:45 A.M. Maximum Temperature 132°  
P.M. P.M.  
 Initial Hydrostatic Pressure (A) 2516 P.S.I.  
 Initial Flow Period Minutes 30 (B) 95 P.S.I. to (C) 71 P.S.I.  
 Initial Closed In Period Minutes 45 (D) 926 P.S.I.  
 Final Flow Period Minutes 30 (E) 99 P.S.I. to (F) 74 P.S.I.  
 Final Closed In Period Minutes 42 (G) 734 P.S.I.  
 Final Hydrostatic Pressure (H) 2500 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 6-5-80 Test Ticket No. 4692  
 Recorder No. 1564 Capacity 3150 Location 4592 Ft.  
 Clock No. --- Elevation 3013 Kelly Bushing Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2516</u>	P.S.I.	<u>6:12 A M</u>	
B First Initial Flow Pressure	<u>95</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>71</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>926</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>99</u>	P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>74</u>	P.S.I.		
G Final Closed-in Pressure	<u>734</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2500</u>	P.S.I.		

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a 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>95</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>99</u>	<u>0</u>	<u>74</u>	
P 2 <u>5</u>	<u>88</u>	<u>3</u>	<u>73</u>	<u>5</u>	<u>96</u>	<u>3</u>	<u>74</u>	
P 3 <u>10</u>	<u>78</u>	<u>6</u>	<u>95</u>	<u>10</u>	<u>84</u>	<u>6</u>	<u>78</u>	
P 4 <u>15</u>	<u>73</u>	<u>9</u>	<u>160</u>	<u>15</u>	<u>78</u>	<u>9</u>	<u>90</u>	
P 5 <u>20</u>	<u>71</u>	<u>12</u>	<u>280</u>	<u>20</u>	<u>74</u>	<u>12</u>	<u>114</u>	
P 6 <u>25</u>	<u>71</u>	<u>15</u>	<u>416</u>	<u>25</u>	<u>74</u>	<u>15</u>	<u>157</u>	
P 7 <u>30</u>	<u>71</u>	<u>18</u>	<u>512</u>	<u>30</u>	<u>74</u>	<u>18</u>	<u>208</u>	
P 8		<u>21</u>	<u>587</u>			<u>21</u>	<u>280</u>	
P 9		<u>24</u>	<u>650</u>			<u>24</u>	<u>360</u>	
P10		<u>27</u>	<u>710</u>			<u>27</u>	<u>438</u>	
P11		<u>30</u>	<u>762</u>			<u>30</u>	<u>511</u>	
P12		<u>33</u>	<u>787</u>			<u>33</u>	<u>580</u>	
P13		<u>36</u>	<u>848</u>			<u>36</u>	<u>640</u>	
P14		<u>39</u>	<u>885</u>			<u>39</u>	<u>686</u>	
P15		<u>42</u>	<u>915</u>			<u>42</u>	<u>734</u>	
P16		<u>45</u>	<u>926</u>					
P17								
P18								
P19								
P20								

RR # 4692  
I

