



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

13758

OK

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 262-5861

Elevation 1839 G.L. Formation \_\_\_\_\_ Eff. Pay \_\_\_\_\_ Ft.

District Pratt Date 1/12/82 Customer Order No. \_\_\_\_\_

COMPANY NAME W.L. Kirkman, Inc.

ADDRESS 453 South Webb Road P.O. Box 18611 Wichita, Ks 67207

LEASE AND WELL NO. Gibson #1 COUNTY Barber STATE Ks Sec. 20 Twp 30 Rge 15

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

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

Formation Test No. 1 Interval Tested from 3144 ft. to 3213 ft. Total Depth 3213 ft.

Packer Depth 3139 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3144 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3174 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 3174 ft. Recorder Number 3351 Cap. 4600

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Aldebaran Rig #3 Drill Collar Length 464 I. D. 2 7/8 in.

Mud Type Premix Viscosity 34 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 31.8 cc. Drill Pipe Length 2656 I. D. 3.8 in.

Chlorides 41,000 P.P.M. Test Tool Length 24 ft. Tool Size 5500 in.

Jars: Make - Serial Number - Anchor Length 69 ft. Size 5500 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: Weak increased to strong blow on first flow period

Strong blow throughout second flow period

Recovered 130 ft. of Sl. Gas Cut Mud (Few specks of oil on top of tool)

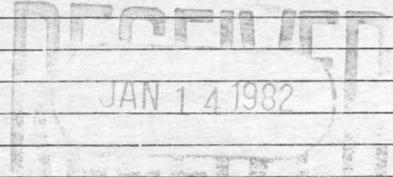
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:



Time On Location 12:00 A.M. Time Pick Up Tool 3:00 P.M. Time Off Location 12:00 A.M.

Time Set Packer(s) 6:00 A.M. Time Started Off Bottom 9:00 P.M. Maximum Temperature 109°

Initial Hydrostatic Pressure (A) 1521 P.S.I.

Initial Flow Period Minutes 30 (B) 116 P.S.I. to (C) 116 P.S.I.

Initial Closed In Period Minutes 60 (D) 254 P.S.I.

Final Flow Period Minutes 30 (E) 126 P.S.I. to (F) 116 P.S.I.

Final Closed In Period Minutes 60 (G) 381 P.S.I.

Final Hydrostatic Pressure (H) 1500 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 [Signature] Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test \$625.00, Mileage 35mi \$26.25, Fluid Sampler \$, Extra Charts \$, Insurance \$, TOTAL \$716.25.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-12 Test Ticket No. 13758  
 Recorder No. 2607 Capacity 4150 Location 3171 Ft  
 Clock No. --- Elevation 1839 Well Temperature 109 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1538</u> P.S.I.		<u>6:00</u> A M	
B First Initial Flow Pressure	<u>125</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>125</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>256</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>121</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>121</u> P.S.I.			
G Final Closed-in Pressure	<u>381</u> P.S.I.			
H Final Hydrostatic Mud	<u>1538</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>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>21</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>125</u>	0	<u>125</u>	0	<u>121</u>	0	<u>121</u>
P 2		3	<u>125</u>	5		3	<u>121</u>
P 3		6	<u>125</u>	10		6	<u>123</u>
P 4		9	<u>128</u>	15		9	<u>127</u>
P 5		12	<u>130</u>	20		12	<u>133</u>
P 6		15	<u>134</u>	25		15	<u>144</u>
P 7	<u>125</u>	18	<u>143</u>	30	<u>121</u>	18	<u>152</u>
P 8		21	<u>148</u>	35		21	<u>161</u>
P 9		24	<u>154</u>	40		24	<u>174</u>
P10		27	<u>159</u>	45		27	<u>188</u>
P11		30	<u>165</u>	50		30	<u>203</u>
P12		33	<u>171</u>	55		33	<u>214</u>
P13		36	<u>182</u>	60		36	<u>231</u>
P14		39	<u>190</u>	65		39	<u>246</u>
P15		42	<u>201</u>	70		42	<u>265</u>
P16		45	<u>210</u>	75		45	<u>282</u>
P17		48	<u>218</u>	80		48	<u>300</u>
P18		51	<u>229</u>	85		51	<u>316</u>
P19		54	<u>239</u>	90		54	<u>335</u>
P20		57	<u>250</u>			57	<u>351</u>
		60	<u>256</u>			60	<u>365</u>
						63	<u>381</u>

Company W. L. Kirkman, Inc. Lease & Well No. Gibson #1  
 Elevation 1839 Ground Level Formation - Effective Pay - Ft. Ticket No. 13758  
 Date 1/12/82 Sec. 20 Twp. 30S Range 15W County Barber State Kansas  
 Test Approved by Kurt A Deutsch Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 3144 ft. to 3213 ft. Total Depth 3213 ft.  
 Packer Depth 3139 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3144 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3171 ft. Recorder Number 2607 Cap. 4150  
 Bottom Recorder Depth (Outside) 3174 ft. Recorder Number 3351 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Aldebaran Rig #3 Drill Collar Length 464 I. D. 2 1/4 in.  
 Mud Type Premix Viscosity 34 Weight Pipe Length - I. D. - in.  
 Weight 9.3 Water Loss 31.8 cc. Drill Pipe Length 2656 I. D. 3.8 in.  
 Chlorides 41,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 69 ft. Size 5 1/2 OD 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: Weak increased to strong blow on initial flow period. Strong blow throughout final flow period.

Recovered 130 ft. of slightly gas cut mud (few specks of oil on top of tool)  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s)	<u>6:00</u>	<del>A.M.</del> <del>P.M.</del>	Time Started Off Bottom	<u>9:00</u>	<del>A.M.</del> <del>P.M.</del>	Maximum Temperature	<u>109</u>
Initial Hydrostatic Pressure			(A)	<u>1538</u>		P.S.I.	
Initial Flow Period			Minutes <u>30</u>	(B)	<u>125</u>	P.S.I. to (C)	<u>125</u> P.S.I.
Initial Closed In Period			Minutes <u>60</u>	(D)	<u>256</u>	P.S.I.	
Final Flow Period			Minutes <u>30</u>	(E)	<u>121</u>	P.S.I. to (F)	<u>121</u> P.S.I.
Final Closed In Period			Minutes <u>63</u>	(G)	<u>381</u>	P.S.I.	
Final Hydrostatic Pressure			(H)	<u>1538</u>		P.S.I.	

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

Date 1/12/82 Test Ticket No. 13758  
 Recorder No. 2607 Capacity 4150 Location 3171 Ft.  
 Clock No. - Elevation 1839 Ground Level Well Temperature 109 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1538</u>	P.S.I.	Open Tool	<u>6:00A</u>	<u>M</u>
B First Initial Flow Pressure	<u>125</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>30</u>
C First Final Flow Pressure	<u>125</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u>	<u>60</u>
D Initial Closed-in Pressure	<u>256</u>	P.S.I.	Second Flow Pressure	<u>30</u>	<u>30</u>
E Second Initial Flow Pressure	<u>121</u>	P.S.I.	Final Closed-in Pressure	<u>60</u>	<u>63</u>
F Second Final Flow Pressure	<u>121</u>	P.S.I.			
G Final Closed-in Pressure	<u>381</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1538</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: 20 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

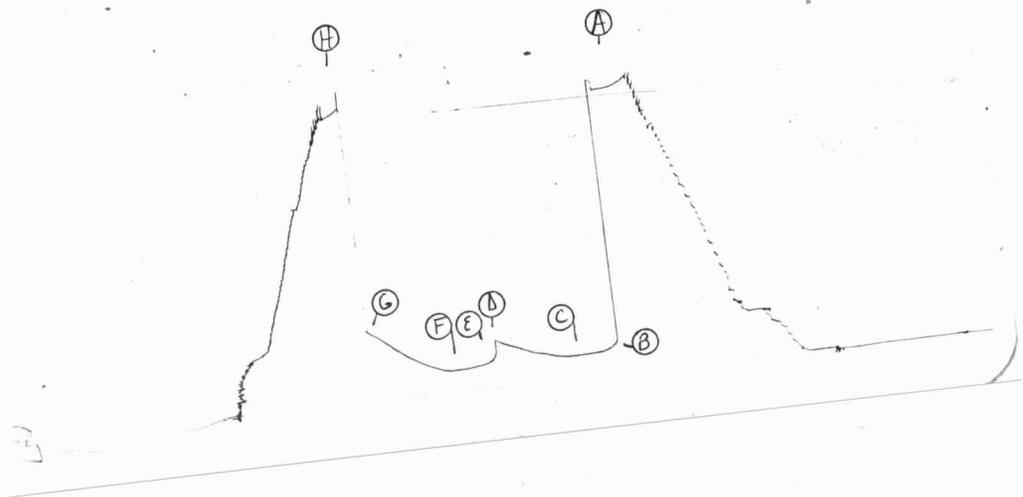
**Second Flow Pressure**  
 Breakdown: 6 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 21 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>125</u>	<u>0</u>	<u>125</u>	<u>0</u>	<u>121</u>	<u>0</u>	<u>121</u>
P 2	<u>5</u>	<u>125</u>	<u>3</u>	<u>125</u>	<u>5</u>	<u>121</u>	<u>3</u>	<u>121</u>
P 3	<u>10</u>	<u>125</u>	<u>6</u>	<u>125</u>	<u>10</u>	<u>121</u>	<u>6</u>	<u>123</u>
P 4	<u>15</u>	<u>125</u>	<u>9</u>	<u>128</u>	<u>15</u>	<u>121</u>	<u>9</u>	<u>127</u>
P 5	<u>20</u>	<u>125</u>	<u>12</u>	<u>130</u>	<u>20</u>	<u>121</u>	<u>12</u>	<u>133</u>
P 6	<u>25</u>	<u>125</u>	<u>15</u>	<u>134</u>	<u>25</u>	<u>121</u>	<u>15</u>	<u>144</u>
P 7	<u>30</u>	<u>125</u>	<u>18</u>	<u>143</u>	<u>30</u>	<u>121</u>	<u>18</u>	<u>152</u>
P 8			<u>21</u>	<u>148</u>			<u>21</u>	<u>161</u>
P 9			<u>24</u>	<u>154</u>			<u>24</u>	<u>174</u>
P10			<u>27</u>	<u>159</u>			<u>27</u>	<u>188</u>
P11			<u>30</u>	<u>165</u>			<u>30</u>	<u>203</u>
P12			<u>33</u>	<u>171</u>			<u>33</u>	<u>214</u>
P13			<u>36</u>	<u>182</u>			<u>36</u>	<u>231</u>
P14			<u>39</u>	<u>190</u>			<u>39</u>	<u>246</u>
P15			<u>42</u>	<u>201</u>			<u>42</u>	<u>265</u>
P16			<u>45</u>	<u>210</u>			<u>45</u>	<u>282</u>
P17			<u>48</u>	<u>218</u>			<u>48</u>	<u>300</u>
P18			<u>51</u>	<u>229</u>			<u>51</u>	<u>316</u>
P19			<u>54</u>	<u>239</u>			<u>54</u>	<u>335</u>
P20			<u>57</u>	<u>250</u>			<u>57</u>	<u>351</u>
			<u>60</u>	<u>256</u>			<u>60</u>	<u>365</u>
							<u>63</u>	<u>381</u>

TKT 13758

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No. 11900

OK

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1839 G.L. Formation MARIATON Eff. Pay Ft.

District PRATT Date 1-15-82 Customer Order No.

COMPANY NAME W.L. Kirkman, Inc.

ADDRESS P.O. Box 18611, WICHITA, KS, 67207

LEASE AND WELL NO. Gibson #1 COUNTY BARBER STATE KS Sec. 20 Twp 30S Rge 15W

Mail Invoice To #1 Gibson SAME Co. Name Address No. Copies Requested 100

Mail Charts To SAME Address No. Copies Requested 100

Formation Test No. 2 Interval Tested from 4400 ft. to 4440 ft. Total Depth 4440 ft.

Packer Depth 4395 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4400 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4430 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 4433 ft. \*Recorder Number 1565 Cap. 4900

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor ALDEBARAN #3 Drill Collar Length 556' I. D. 2.25 in.

Mud Type PREMIX Viscosity 32 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 35.6 cc. Drill Pipe Length 3821 I. D. 2.8 in.

Chlorides 11000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars Make - Serial Number - Anchor Length 40 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 in.

Blow: W.T.P. - WEAK 12" Pin BUCKET throughout test IFA - SAME

Recovered 5 ft. of mud

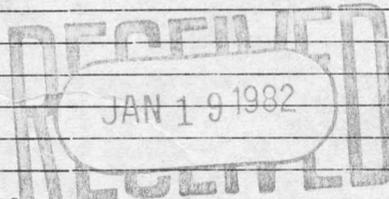
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Read outside chart



Time On Location 7:00 A.M. Time Pick Up Tool 8:00 A.M. Time Off Location 3:00 A.M.

Time Set Packer(s) 10:30 A.M. Time Started Off Bottom 12:00 A.M. Maximum Temperature 122°F

Initial Hydrostatic Pressure (A) 2038 P.S.I.

Initial Flow Period Minutes 15 (B) 37 P.S.I. to (C) 37 P.S.I.

Initial Closed In Period Minutes 30 (D) 49 P.S.I.

Final Flow Period Minutes 15 (E) 37 P.S.I. to (F) 37 P.S.I.

Final Closed In Period Minutes 30 (G) 49 P.S.I.

Final Hydrostatic Pressure (H) 2061 P.S.I.

COMPANY TERMS

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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 [Signature] Signature of Customer or his authorized representative

Western Representative Louis Spencer 37

FIELD INVOICE

Open Hole Test \$ 700.00
Miscrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$ 65.00
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage 37 \$ 27.75
Fluid Sampler \$
Extra Charts \$
Insurance \$ 792.75
TOTAL \$

WESTERN TESTING CO., INC.

\*Pressure Data

Date 1-15-82 Test Ticket No. 11900  
 Recorder No. 1565 Capacity 4900 Location 4433 Ft  
 Clock No. --- Elevation 1839 GL Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2068</u>	P.S.I.	<u>10:30 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>41</u>	P.S.I.	<u>15</u>	<u>15</u> Mins.
C First Final Flow Pressure	<u>41</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>49</u>	P.S.I.	<u>15</u>	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>41</u>	P.S.I.	<u>30</u>	<u>33</u> Mins.
F Second Final Flow Pressure	<u>41</u>	P.S.I.		
G Final Closed-in Pressure	<u>44</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2047</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>11</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>41</u>	0	<u>41</u>	0	<u>41</u>	0	<u>41</u>
P 2	<u>1</u>	3	<u>41</u>	5	<u>1</u>	3	<u>1</u>
P 3	<u>10</u>	6	<u>42</u>	10	<u>1</u>	6	<u>1</u>
P 4	<u>41</u>	9	<u>42</u>	15	<u>41</u>	9	<u>1</u>
P 5	<u>20</u>	12	<u>42</u>	20		12	<u>1</u>
P 6	<u>25</u>	15	<u>42</u>	25		15	<u>41</u>
P 7	<u>30</u>	18	<u>43</u>	30		18	<u>41</u>
P 8	<u>35</u>	21	<u>44</u>	35		21	<u>41</u>
P 9	<u>40</u>	24	<u>45</u>	40		24	<u>42</u>
P10	<u>45</u>	27	<u>47</u>	45		27	<u>42</u>
P11	<u>50</u>	30	<u>49</u>	50		30	<u>42</u>
P12	<u>55</u>	33		55		33	<u>44</u>
P13	<u>60</u>	36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Company W. L. Kirkman, Inc. Lease & Well No. #1 Gibson  
 Elevation 1839 Ground Level Marmaton Effective Pay - Ft. Ticket No. 11900  
 Date 1/15/82 Sec. 20 Twp. 30S Range 15W County Barber State Kansas  
 Test Approved by Kent A. Deutsch Western Representative Louis Spencer

Formation Test No. 2 Interval Tested from 4400 ft. to 4440 ft. Total Depth 4440 ft.  
 Packer Depth 4395 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4400 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4430 ft. Recorder Number 5673 Cap. 5400  
 Bottom Recorder Depth (Outside) 4433 ft. Recorder Number 1565 Cap. 4900  
 Below Straddle Recorder Depth - ft. Recorder Number -- Cap. -

Drilling Contractor Aldebaran Rig #3 Drill Collar Length 556 I. D. 2.25 in.  
 Mud Type Premix Viscosity 32 Weight Pipe Length - I. D. - in.  
 Weight 9.1 Water Loss 35.6 cc. Drill Pipe Length 3821 I. D. 2.8 in.  
 Chlorides 11,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 40 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 in.

Blow: Weak 1/2 inch blow in bucket throughout test.

Recovered 5 ft. of mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

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

Read outside chart

Time Set Packer(s)	<u>10:30</u>	<del>A.M.</del> P.M.	Time Started Off Bottom	<u>12:00</u>	<del>A.M.</del> P.M.	Maximum Temperature	<u>122</u>
Initial Hydrostatic Pressure			(A)	<u>2068</u>	P.S.I.		
Initial Flow Period		Minutes	<u>15</u>	(B)	<u>41</u>	P.S.I. to (C)	<u>41</u> P.S.I.
Initial Closed In Period		Minutes	<u>30</u>	(D)	<u>49</u>	P.S.I.	
Final Flow Period		Minutes	<u>15</u>	(E)	<u>41</u>	P.S.I. to (F)	<u>41</u> P.S.I.
Final Closed In Period		Minutes	<u>33</u>	(G)	<u>44</u>	P.S.I.	
Final Hydrostatic Pressure			(H)	<u>2047</u>	P.S.I.		

# WESTERN TESTING CO., INC.

## Pressure Data

Date 1/15/82 Test Ticket No. 11900  
 Recorder No. 1565 Capacity 4900 Location 4433 Ft.  
 Clock No. - Elevation 1839 Ground Level Well Temperature 122 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2068</u>	<u>P.S.I.</u>	<u>Open Tool</u>	<u>10:30A</u>	<u>M</u>
B First Initial Flow Pressure	<u>41</u>	<u>P.S.I.</u>	<u>First Flow Pressure</u>	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>41</u>	<u>P.S.I.</u>	<u>Initial Closed-in Pressure</u>	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>49</u>	<u>P.S.I.</u>	<u>Second Flow Pressure</u>	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>41</u>	<u>P.S.I.</u>	<u>Final Closed-in Pressure</u>	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>41</u>	<u>P.S.I.</u>			
G Final Closed-in Pressure	<u>44</u>	<u>P.S.I.</u>			
H Final Hydrostatic Mud	<u>2047</u>	<u>P.S.I.</u>			

### PRESSURE BREAKDOWN

**First Flow Pressure**  
 Breakdown: 3 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

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

**Second Flow Pressure**  
 Breakdown: 3 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 11 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

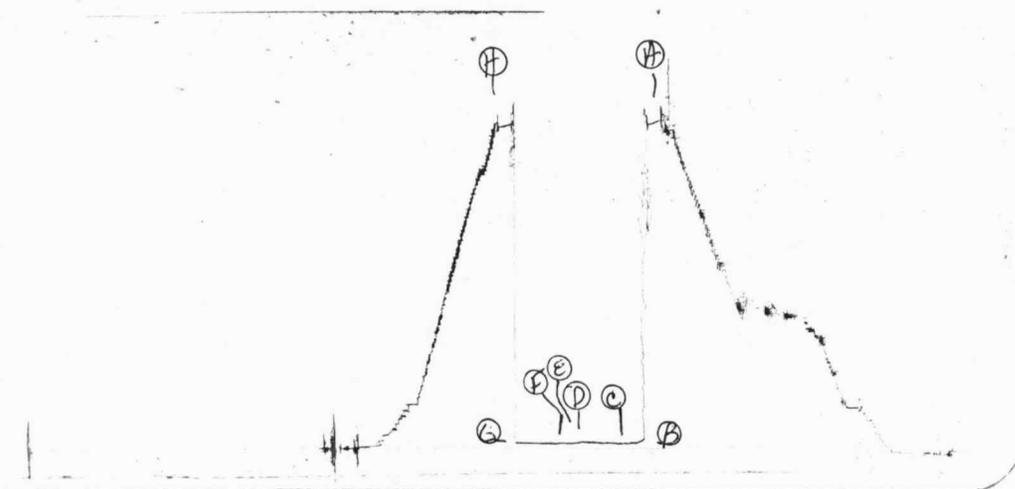
Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 <u>0</u>	<u>41</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>41</u>	<u>0</u>
P 2 <u>5</u>	<u>41</u>	<u>3</u>	<u>41</u>	<u>3</u>	<u>41</u>	<u>5</u>	<u>41</u>	<u>3</u>
P 3 <u>10</u>	<u>41</u>	<u>6</u>	<u>42</u>	<u>6</u>	<u>41</u>	<u>10</u>	<u>41</u>	<u>6</u>
P 4 <u>15</u>	<u>41</u>	<u>9</u>	<u>42</u>	<u>9</u>	<u>41</u>	<u>15</u>	<u>41</u>	<u>9</u>
P 5 _____	_____	<u>12</u>	<u>42</u>	<u>12</u>	_____	_____	<u>41</u>	<u>12</u>
P 6 _____	_____	<u>15</u>	<u>42</u>	<u>15</u>	_____	_____	<u>41</u>	<u>15</u>
P 7 _____	_____	<u>18</u>	<u>43</u>	<u>18</u>	_____	_____	<u>41</u>	<u>18</u>
P 8 _____	_____	<u>21</u>	<u>44</u>	<u>21</u>	_____	_____	<u>41</u>	<u>21</u>
P 9 _____	_____	<u>24</u>	<u>45</u>	<u>24</u>	_____	_____	<u>42</u>	<u>24</u>
P10 _____	_____	<u>27</u>	<u>47</u>	<u>27</u>	_____	_____	<u>42</u>	<u>27</u>
P11 _____	_____	<u>30</u>	<u>49</u>	<u>30</u>	_____	_____	<u>42</u>	<u>30</u>
P12 _____	_____	_____	_____	_____	_____	_____	<u>44</u>	<u>33</u>
P13 _____	_____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____	_____

DST #2

1565

JK # 11900

0





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 14701

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1839 ft. L. Formation Eff. Pay Ft.

District Praty Date 1-15-82 Customer Order No.
COMPANY NAME W.L. Kirkman, Inc.
ADDRESS P.O. Box 18611, Wichita, Ks. 67207
LEASE AND WELL NO. Gibson #1 COUNTY BARBER STATE Ks Sec. 30 Twp 30 S Rge 15 W
Mail Invoice To #1 Gibson Co. Name Address No. Copies Requested 09
Mail Charts To same Address No. Copies Requested 09

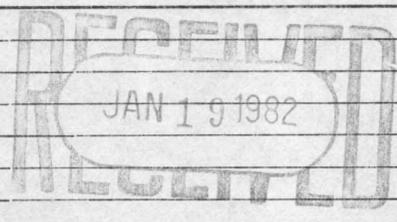
Formation Test No. 3 Interval Tested from 4450 ft. to 4470 ft. Total Depth 4470 ft.
Packer Depth 4445 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 4450 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) ft. Recorder Number 5673 Cap. 5400
Bottom Recorder Depth (Outside) ft. Recorder Number 1565 Cap. 4900
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Aldebaran #3 Drill Collar Length 556' I. D. 2.25 in.
Mud Type Premix Viscosity 40 Weight Pipe Length I. D. in.
Weight 9.2 Water Loss 11.8 cc. Drill Pipe Length 3869 I. D. 2.8 in.
Chlorides 11000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.
Jars: Make Serial Number Anchor Length 20 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: J.F.P. - Weak 1/2" 1 in SOCKET

Recovered 30 ft. of mud.
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:



Time On Location 9:45 A.M. Time Pick Up Tool 11:30 A.M. Time Off Location A.M.
Time Set Packer(s) 5:36 P.M. Time Started Off Bottom 7:10 P.M. Maximum Temperature
Initial Hydrostatic Pressure (A) 2184 P.S.I.
Initial Flow Period Minutes 30 (B) 37 P.S.I. to (C) 37 P.S.I.
Initial Closed In Period Minutes 60 (D) 185 P.S.I.
Final Flow Period Minutes 10 (E) 37 P.S.I. to (F) 37 P.S.I.
Final Closed In Period Minutes (G) P.S.I.
Final Hydrostatic Pressure (H) 2123 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 S. Kristopher Moore
Signature of Customer or his authorized representative

Western Representative S. Spencer

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$700), Safety Joint (\$65), Circ. Sub. (\$37), Mileage (\$27.75), and TOTAL (\$792.75).

WESTERN TESTING CO., INC.

Pressure Data

Date: 1-15-82 Test Ticket No. 14781  
 Recorder No. 5673 Capacity 5400 Location ---  
 Clock No. --- Elevation 1839 GL Well Temperature ---

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2185</u>	P.S.I.	<u>5:30 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>35</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>35</u>	P.S.I.	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>194</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
E Second Initial Flow Pressure	<u>38</u>	P.S.I.	<u>---</u> Mins.	<u>12</u> Mins.
F Second Final Flow Pressure	<u>38</u>	P.S.I.		
G Final Closed-in Pressure	<u>119</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2108</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>21</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>4</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>35</u>	0	<u>35</u>	0	<u>38</u>	0	<u>38</u>
P 2 5		3	<u>36</u>	5	<u>38</u>	3	<u>71</u>
P 3 10		6	<u>37</u>	10	<u>38</u>	6	<u>85</u>
P 4 15		9	<u>38</u>	15		9	<u>98</u>
P 5 20		12	<u>40</u>	20		12	<u>119</u>
P 6 25		15	<u>42</u>	25		15	
P 7 30	<u>35</u>	18	<u>46</u>	30		18	
P 8 35		21	<u>52</u>	35		21	
P 9 40		24	<u>57</u>	40		24	
P10 45		27	<u>65</u>	45		27	
P11 50		30	<u>71</u>	50		30	
P12 55		33	<u>81</u>	55		33	
P13 60		36	<u>91</u>	60		36	
P14		39	<u>101</u>	65		39	
P15		42	<u>108</u>	70		42	
P16		45	<u>116</u>	75		45	
P17		48	<u>133</u>	80		48	
P18		51	<u>147</u>	85		51	
P19		54	<u>158</u>	90		54	
P20		57	<u>174</u>			57	
		60	<u>190</u>			60	
		<u>63</u>	<u>196</u>				

Company W. L. Kirkman, Inc. Lease & Well No. #1 Gibson  
 Elevation 1839 Ground Level Formation - Effective Pay - Ft. Ticket No. 14701  
 Date 1/15/82 Sec. 20 Twp. 30S Range 15W County Barber State Kansas  
 Test Approved by L. Kristopher Moore Western Representative Louis Spencer

Formation Test No. 3 Interval Tested from 4450 ft. to 4470 ft. Total Depth 4470 ft.  
 Packer Depth 4445 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4450 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) - ft. Recorder Number 5673 Cap. 5400  
 Bottom Recorder Depth (Outside) - ft. Recorder Number 1565 Cap. 4900  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Aldebaran Rig #3 Drill Collar Length 556 I. D. 2.25 in.  
 Mud Type Premix Viscosity 40 Weight Pipe Length - I. D. - in.  
 Weight 9.2 Water Loss 11.8 cc. Drill Pipe Length 3869 I. D. 2.8 in.  
 Chlorides 11,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 20 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 in.

Blow: Initial flow period weak 1/2 inch in bucket.

Recovered 30 ft. of mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s) 5:30 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 7:10 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature -  
 Initial Hydrostatic Pressure 2185 (A)     P.S.I.  
 Initial Flow Period 30 (B) 35 P.S.I. to (C) 35 P.S.I.  
 Initial Closed In Period 63 (D) 196 P.S.I.  
 Final Flow Period 10 (E) 38 P.S.I. to (F) 38 P.S.I.  
 Final Closed In Period 12 (G) 119 P.S.I.  
 Final Hydrostatic Pressure 2108 (H)     P.S.I.

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

14701

Date 1/15/82 Test Ticket No. \_\_\_\_\_  
 Recorder No. 5673 Capacity 5400 Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation 1839 Ground Level Well Temperature \_\_\_\_\_ °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	2185	P.S.I.	Open Tool	5:30A	M
B First Initial Flow Pressure	35	P.S.I.	First Flow Pressure	30	30
C First Final Flow Pressure	35	P.S.I.	Initial Closed-in Pressure	60	63
D Initial Closed-in Pressure	196	P.S.I.	Second Flow Pressure	10	10
E Second Initial Flow Pressure	38	P.S.I.	Final Closed-in Pressure	-	12
F Second Final Flow Pressure	38	P.S.I.			
G Final Closed-in Pressure	119	P.S.I.			
H Final Hydrostatic Mud	2108	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: 21 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 2 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

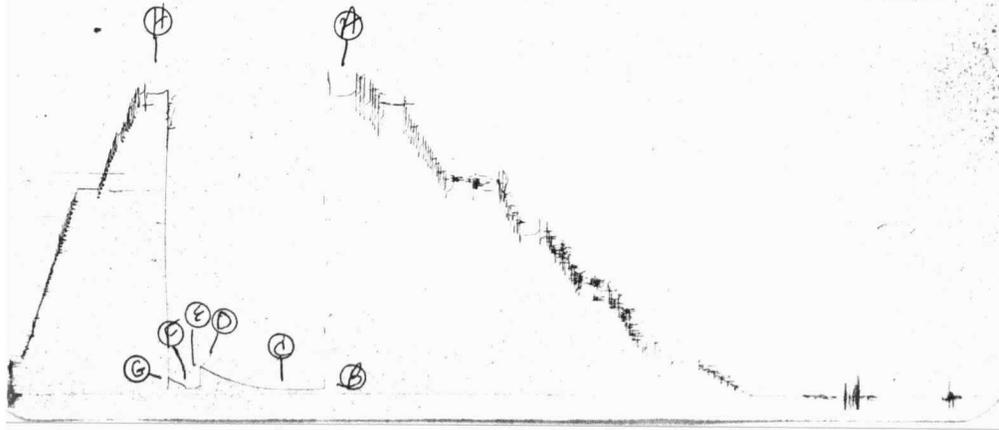
**Final Shut-In**  
 Breakdown: 4 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 2	5	35	3	36	5	38	3
P 3	10	35	6	37	10	38	6
P 4	15	35	9	38			9
P 5	20	35	12	40			12
P 6	25	35	15	42			
P 7	30	35	18	46			
P 8			21	52			
P 9			24	57			
P10			27	65			
P11			30	71			
P12			33	81			
P13			36	91			
P14			39	101			
P15			42	108			
P16			45	116			
P17			48	133			
P18			51	147			
P19			54	158			
P20			57	174			
			60	190			
			63	196			

5673

JG #14701

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 14702

OK

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1839.62 Formation Cherokee Eff. Pay Ft.

District PPATT Date 1-16-82 Customer Order No.

COMPANY NAME W.L. KIRKMAN, Inc.

ADDRESS P.O. Box 18611, Wichita, Ks. 67207

LEASE AND WELL NO. Gibson #1 COUNTY BARBER STATE Ks. Sec. 20 Twp. 30S Rge. 15W

Mail Invoice To #1 Gibson Co. Name Address No. Copies Requested 09

Mail Charts To some Address No. Copies Requested 09

Formation Test No. 4 Interval Tested from 4465 ft. to 4515 ft. Total Depth 4515 ft.

Packer Depth 4460 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4465 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4477 ft. Recorder Number 1560 Cap. 4500

Bottom Recorder Depth (Outside) 4513 ft. Recorder Number 11019 Cap. 4500

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor ALDEBARAN #3 Drill Collar Length 527' I. D. 2.25 in.

Mud Type Premix Viscosity 47 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss cc. Drill Pipe Length 3915 I. D. 2.8 in.

Chlorides P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 50 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 3 1/2 in.

Blow: T.F.P. GAS TO SURFACE IN 5 min - see gas slow start attached check for gas

Recovered 30 ft. of 0.5 mud cut oil

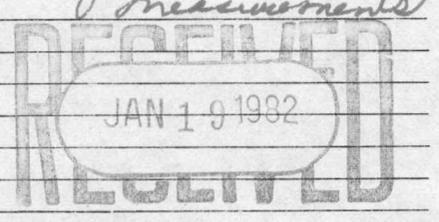
Recovered 1100 ft. of oil specific gravity - 36

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:



Time On Location 7:30 AM P.M. Time Pick Up Tool 11:10 AM P.M. Time Off Location 12:30 AM P.M.

Time Set Packer(s) 3:05 AM P.M. Time Started Off Bottom 6:05 AM P.M. Maximum Temperature 1250 F

Initial Hydrostatic Pressure (A) 2219 P.S.I.

Initial Flow Period Minutes 30 (B) 196 P.S.I. to (C) 243 P.S.I.

Initial Closed In Period Minutes 60 (D) 1173 P.S.I.

Final Flow Period Minutes 30 (E) 324 P.S.I. to (F) 370 P.S.I.

Final Closed In Period Minutes 60 (G) 1376 P.S.I.

Final Hydrostatic Pressure (H) 2174 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 L. Kristopher Moore Signature of Customer or his authorized representative

Western Representative Louis Spencer

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test (\$100), Safety Joint (\$65), Mileage (\$27.75), and TOTAL (\$792.75).



No 2768

**GAS FLOW REPORT**

Date 1-16-82 Ticket 14702 Company W.L. Kirkman  
 Well Name and No. GIBSON #1 Dst No. 4 Interval Tested 4465-4515  
 County BARBER State Ks Sec. 20 Twp. 30 Rg. 15

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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**PRE FLOW**

5	5	1/4"			20,700 cu ft. p.d.
10	8	1/4"			27,000 " "
20	7	1/4"			25,000 " "
30	5	1/4"			20,700 " "

**SECOND FLOW**

Inches WATER					
10	15	1/4"			6,850 cu ft p.d.
15	10	1/4"			5,320 " "
20	8	1/4"			4,760 " "
25	8	1/4"			4,760 " "
30	8	1/4"			4,760 " "

*[Handwritten signature]*

**GAS BOTTLE**

Serial No. \_\_\_\_\_ Date Bottle Filled \_\_\_\_\_ Date to be Invoiced \_\_\_\_\_

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME \_\_\_\_\_  
 Authorized by \_\_\_\_\_

WESTERN TESTING CO., INC.

Pressure Data

Date: 1-16-82 Test Ticket No. 14702  
 Recorder No. 1560 Capacity 4500 Location 4477 Ft  
 Clock No. --- Elevation 1839 GL Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2128</u>	P.S.I.	<u>3:05 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>193</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>237</u>	P.S.I.	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>1174</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>324</u>	P.S.I.	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>370</u>	P.S.I.		
G Final Closed-in Pressure	<u>1364</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2128</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: 19 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: 18 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>193</u>	0		0	<u>324</u>	0	<u>370</u>
P 2 5	<u>193</u>	3	<u>570</u>	5	<u>324</u>	3	<u>662</u>
P 3 10	<u>193</u>	6	<u>746</u>	10	<u>324</u>	6	<u>768</u>
P 4 15	<u>206</u>	9	<u>813</u>	15	<u>333</u>	9	<u>854</u>
P 5 20	<u>214</u>	12	<u>869</u>	20	<u>347</u>	12	<u>899</u>
P 6 25	<u>227</u>	15	<u>908</u>	25	<u>361</u>	15	<u>982</u>
P 7 30	<u>237</u>	18	<u>939</u>	30	<u>370</u>	18	<u>1058</u>
P 8 35		21	<u>964</u>	35		21	<u>1103</u>
P 9 40		24	<u>989</u>	40		24	<u>1159</u>
P10 45		27	<u>1009</u>	45		27	<u>1207</u>
P11 50		30	<u>1029</u>	50		30	<u>1243</u>
P12 55		33	<u>1049</u>	55		33	<u>1267</u>
P13 60		36	<u>1069</u>	60		36	<u>1288</u>
P14		39	<u>1090</u>	65		39	<u>1305</u>
P15		42	<u>1105</u>	70		42	<u>1319</u>
P16		45	<u>1118</u>	75		45	<u>1331</u>
P17		48	<u>1133</u>	80		48	<u>1342</u>
P18		51	<u>1149</u>	85		51	<u>1353</u>
P19		54	<u>1166</u>	90		54	<u>1364</u>
P20		57	<u>1176</u>			<u>57</u>	
		<u>60</u>				<u>60</u>	

Company W. L. Kirkman, Inc. Lease & Well No. #1 Gibson  
 Elevation 1839 Ground Level Formation Cherokee Effective Pay - Ft. Ticket No. 14702  
 Date 1/16/82 Sec. 20 Twp. 30S Range 15W County Barber State Kansas  
 Test Approved by L. Kristopher Moore Western Representative Louis Spencer

Formation Test No. 4 Interval Tested from 4465 ft. to 4515 ft. Total Depth 4515 ft.  
 Packer Depth 4460 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4465 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4477 ft. Recorder Number 1560 Cap. 4500  
 Bottom Recorder Depth (Outside) 4513 ft. Recorder Number 11019 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Aldebaran Rig #3 Drill Collar Length 527 I. D. 2.25 in.  
 Mud Type Premix Viscosity 47 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss - cc. Drill Pipe Length 3915 I. D. 2.8 in.  
 Chlorides - P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 50 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 3 1/2 in.

Blow: Initial flow period gas to surface in 5 minutes. See attached sheet for gas measurements

Recovered 30 ft. of very slightly mud cut oil  
 Recovered 1100 ft. of oil specific gravity 36  
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

Remarks:     

Time Set Packer(s) 3:05 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 6:05 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 125  
 Initial Hydrostatic Pressure (A) 2128 P.S.I.  
 Initial Flow Period Minutes 30 (B) 193 P.S.I. to (C) 237 P.S.I.  
 Initial Closed In Period Minutes 57 (D) 1176 P.S.I.  
 Final Flow Period Minutes 30 (E) 324 P.S.I. to (F) 370 P.S.I.  
 Final Closed In Period Minutes 54 (G) 1364 P.S.I.  
 Final Hydrostatic Pressure (H) 2128 P.S.I.

## GAS FLOW REPORT

Date 1/16/82 Ticket 14702 Company W. L. Kirkman, Inc.  
 Well Name and No. #1 Gibson Dst No. 4 Interval Tested 4465-4515  
 County Barber State Kansas Sec. 20 Twp. 30S Rg. 15W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
<b>PRE FLOW</b>						
	5 Min	5 PSIG	¼" Orifice			20,700 C.F.P.D.
	10 Min	8 PSIG	¼" Orifice			27,000 C.F.P.D.
	20 Min	7 PSIG	¼" Orifice			25,000 C.F.P.D.
	30 Min	5 PSIG	¼" Orifice			20,700 C.F.P.D.

<b>SECOND FLOW</b>						
	10 Min	15" water	¼" Orifice			6,550 C.F.P.D.
	15 Min	10" water	¼" Orifice			5,320 C.F.P.D.
	20 Min	8" Water	¼" Orifice			4,760 C.F.P.D.
	25 Min	8" water	¼" Orifice			4,760 C.F.P.D.
	30 Min	8" water	¼" Orifice			4,760 C.F.P.D.

### GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 1/16/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME W. L. Kirkman, Inc.  
 Authorized by L. Kristopher Moore

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 1/16/82

Test Ticket No. 14702

Recorder No. 1560

Capacity 4500

Location 4477 Ft.

Block No. - Elevation 1839 Ground Level

Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	2128 P.S.I.	Open Tool	3:05A	M
First Initial Flow Pressure	193 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
First Final Flow Pressure	237 P.S.I.	Initial Closed-in Pressure	60 Mins.	57 Mins.
Initial Closed-in Pressure	1176 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
Second Initial Flow Pressure	324 P.S.I.	Final Closed-in Pressure	60 Mins.	54 Mins.
Second Final Flow Pressure	370 P.S.I.			
Final Closed-in Pressure	1364 P.S.I.			
Final Hydrostatic Mud	2128 P.S.I.			

**PRESSURE BREAKDOWN**

Point ins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>18</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
0	193	0	237	0	324	0	370
1	193	3	570	5	324	3	662
2	193	6	746	10	324	6	768
3	206	9	813	15	333	9	854
4	214	12	869	20	347	12	899
5	227	15	908	25	361	15	982
6	237	18	939	30	370	18	1058
7		21	964			21	1103
8		24	989			24	1159
9		27	1009			27	1207
0		30	1029			30	1243
1		33	1049			33	1267
2		36	1069			36	1288
3		39	1090			39	1305
4		42	1105			42	1319
5		45	1118			45	1331
6		48	1133			48	1342
7		51	1149			51	1353
8		54	1166			54	1364
9		57	1176				

DST #4

1560

JK # 14702

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