

# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

SEP 28 2010

NO. 37389 14797

Well Name & No. Cramer 2-22 Test No. 1 Date 9-14-10  
 Company Larson Engineering Elevation 2867 KB 2862 GL  
 Address 582 W ST Rd 4 Olmitz ks 67564  
 Co. Rep / Geo. Vern Schrag Rig H&D #3  
 Location: Sec. 22 Twp. 17s Rge. 30w Co. Lane State Ks

Interval Tested 4110-4131 Zone Tested H  
 Anchor Length 21 Drill Pipe Run 3930 Mud Wt. 9.0  
 Top Packer Depth 4105 Drill Collars Run 169 Vis 52  
 Bottom Packer Depth 4110 Wt. Pipe Run 2 WL 7.2  
 Total Depth 4131 Chlorides 2200 ppm System LCM 1#

Blow Description IF-weak surface blow died after 5min  
ISE-NO Blowback  
FE-NO Blow  
FSE-NO Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OCM</u>		<u>35</u>		<u>65</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

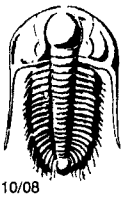
Rec Total 40 BHT 114.65 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2027.50</u>	<input checked="" type="checkbox"/> Test <u>1225.00</u>	T-On Location <u>9:30 AM</u>
(B) First Initial Flow <u>16.86</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>10:30 AM</u>
(C) First Final Flow <u>19.94</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>12:25 pm</u>
(D) Initial Shut-In <u>691.27</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2:05 pm</u>
(E) Second Initial Flow <u>23.67</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:00 pm</u>
(F) Second Final Flow <u>27.35</u>	<input checked="" type="checkbox"/> Mileage <u>47 RT 5875</u>	Comments _____
(G) Final Shut-In <u>156.89</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2060.60</u>	<input type="checkbox"/> Straddle _____	_____

Initial Open 15  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 15  Extra Packer \_\_\_\_\_  
 Final Shut-In 30  Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1608.75 Sub Total 1608.75  
 Total 1608.75 Total \_\_\_\_\_

Approved By Vernon C Schrag Our Representative [Signature]

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



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 37390

SEP 28 2010

Well Name & No. Comec 2-22 Test No. 2 Date 9-15-10  
 Company Lozen Engineering Elevation 2867 KB 2862 GL  
 Address 562 W ST RD 4 Olmitz, KS 67564  
 Co. Rep / Geo. Worm Strong Rig \_\_\_\_\_  
 Location: Sec. 22 Twp. 17S Rge. 30W Co. Lane State KS

Interval Tested 4147-4198 Zone Tested "I, J"  
 Anchor Length 51 Drill Pipe Run 3965.0 Mud Wt. 9.1  
 Top Packer Depth 4142 Drill Collars Run 169.0 Vis 52  
 Bottom Packer Depth 4147 Wt. Pipe Run 8 WL 7.2  
 Total Depth 4198 Chlorides 2500 ppm System LCM 1#  
 Blow Description IF - Weak building blow, 8 inches in 15 min  
ISF - NO blow back  
FF - Strong building blow, BOB in 22 min  
FSE - NO blow back

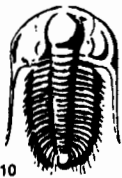
Rec	Feet of	%gas	%oil	%water	%mud
<u>444</u>	<u>WCM</u>			<u>40</u>	<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 444 BHT 119.09 Gravity \_\_\_\_\_ API RW .20 @ 85 °F Chlorides 32000 ppm

(A) Initial Hydrostatic <u>2075.21</u>	<input checked="" type="checkbox"/> Test <u>1225.00</u>	T-On Location <u>9:30 AM</u>
(B) First Initial Flow <u>25.00</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>10:30 AM</u>
(C) First Final Flow <u>114.00</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>12:35 PM</u>
(D) Initial Shut-In <u>893.60</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2:50 PM</u>
(E) Second Initial Flow <u>123.10</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>5:10 PM</u>
(F) Second Final Flow <u>212.89</u>	<input checked="" type="checkbox"/> Mileage <u>47 RT 58.75</u>	Comments _____
(G) Final Shut-In <u>893.64</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2068.10</u>	<input type="checkbox"/> Straddle _____	_____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1608.75</u>
	Sub Total <u>1608.75</u>	

Approved By Jerron C. Schuy Our Representative MSRP

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
SEP 21 2010

## Test Ticket

NO. 040214

4/10

Well Name & No. <u>Cramer 2-22</u>	Test No. <u>3</u>	Date <u>9-16-10</u>
Company <u>Larson Engineering, Inc.</u>	Elevation <u>2867</u>	KB <u>2860</u> GL
Address <u>562 W. St. Rd. 4 Omitz, KS 67564</u>		
Co. Rep / Geo. <u>Vern Shrag</u>	Rig <u>HD#3</u>	
Location: Sec. <u>22</u> Twp. <u>17</u> Rge. <u>30</u> Co. <u>Lane</u> State <u>KS</u>		

Interval Tested <u>4244-4260</u>	Zone Tested <u>LKC 'L'</u>
Anchor Length <u>16</u>	Drill Pipe Run <u>4056 4084</u> Mud Wt. <u>9.4</u>
Top Packer Depth <u>4240</u>	Drill Collars Run <u>141</u> Vis <u>.53</u>
Bottom Packer Depth <u>4244</u>	Wt. Pipe Run <u>0</u> WL <u>7.2</u>
Total Depth <u>4260</u>	Chlorides <u>2900</u> ppm System LCM <u>1</u>

Blow Description IF: No blow.  
ISI: No return.  
FF: No blow.  
FSI: No return.

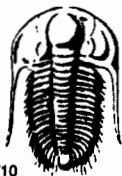
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>M with oil spots in tool</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total <u>1</u>	BHT <u>112</u>	Gravity <u>—</u>	API RW <u>—</u>	@ <u>—</u> °F	Chlorides <u>—</u> ppm

(A) Initial Hydrostatic <u>2126</u>	<input type="checkbox"/> Test <u>1,225</u>	T-On Location <u>6:00</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars <u>250</u>	T-Started <u>6:59</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:47</u>
(D) Initial Shut-In <u>16</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>10:17</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:07</u>
(F) Second Final Flow <u>17</u>	<input type="checkbox"/> Mileage <u>47RT 58<sup>25</sup></u>	Comments
(G) Final Shut-In <u>18</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2102</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>8</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1608.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1608.75</u>	

Approved By Vern C. Shrag Our Representative Chuck Smith

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P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
SEP 21 2010

## Test Ticket

NO. 040215

4/10

Well Name & No. CRAMER 2-22 Test No. 4 Date 9-17-10  
 Company LARSON ENGINEERING, INC Elevation 2867 KB 2860 GL  
 Address 562 W. ST RD 4 OLMITZ, KS 67564  
 Co. Rep / Geo. VERN SHRAG Rig HO #3  
 Location: Sec. 22 Twp. 17 Rge. 30 Co. 30 LANE State KS

Interval Tested 4286 - 4390 Zone Tested MARKATON  
 Anchor Length 104 Drill Pipe Run 4147 Mud Wt. 9.6  
 Top Packer Depth 4284 Drill Collars Run 141 Vis 54  
 Bottom Packer Depth 4286 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4390 Chlorides 2900 ppm System LCM 1/2  
 Blow Description IF: SURFACE BLOW, DIED AT 11 MIN.  
ISI: NO RETURN.  
FF: NO BLOW.  
FSI: NO RETURN.

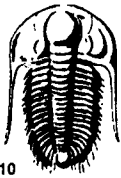
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud 1'</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT 115 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2213  Test 12.25 T-On Location 09:45  
 (B) First Initial Flow 21  Jars 250 T-Started 11:39  
 (C) First Final Flow 23  Safety Joint 75 T-Open 13:46  
 (D) Initial Shut-In 8:23  Circ Sub N/C T-Pulled 15:18  
 (E) Second Initial Flow 25  Hourly Standby \_\_\_\_\_ T-Out 17:36  
 (F) Second Final Flow 25  Mileage 47 RT 58.75 Comments \_\_\_\_\_  
 (G) Final Shut-In 6:89  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2222  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_  
 Final Flow 15  Day Standby \_\_\_\_\_  
 Final Shut-In 30  Accessibility \_\_\_\_\_  
 Sub Total 1858.75 Sub Total \_\_\_\_\_  
 Total 1858.75 Total \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_

Approved By Vernon C. Schrey Our Representative Chuck Smith

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## Test Ticket

NO. 040216

RECEIVED  
SEP 21 2010

Well Name & No. CRAMER 2-22 Test No. 5 Date 9/18/2010  
 Company LARSON ENGINEERING INC Elevation 2867 KB 2860 GL  
 Address 562 W. ST RD 4 OLMITZ, KS 67564  
 Co. Rep / Geo. VERN SHRAG Rig HD #3  
 Location: Sec. 22 Twp. 17 Rge. 30 Co. LANE State KS

Interval Tested 4395 - 4534 Zone Tested CHEROKEE  
 Anchor Length 139' Drill Pipe Run 4243 Mud Wt. 9.4  
 Top Packer Depth 4395 4391 Drill Collars Run 141 Vis 50  
 Bottom Packer Depth 4395 Wt. Pipe Run 0 WL 8  
 Total Depth 4534 Chlorides 2500 ppm System LCM 1\*  
 Blow Description IF: 8" AT 15 MIN.  
ISI: NO RETURN.  
FF: B.O.B. AT 29 MIN.  
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>G50M</u>	<u>5</u>	<u>2</u>	<u>93</u>	
<u>119</u>	<u>G0CM</u>	<u>10</u>	<u>3</u>	<u>87</u>	
<u>111</u>	<u>G0WCM</u>	<u>10</u>	<u>5</u>	<u>10</u>	<u>75</u>
<u>60</u>	<u>G0SWM</u>	<u>5</u>		<u>15</u>	<u>80</u>

Rec Total 310 BHT 121 Gravity — API RW .280 @ 55 °F Chlorides 3200 ppm

(A) Initial Hydrostatic <u>2266</u>	<input type="checkbox"/> Test <u>1225</u>	T-On Location <u>15:45</u>
(B) First Initial Flow <u>42</u>	<input type="checkbox"/> Jars <u>250</u>	T-Started <u>16:41</u>
(C) First Final Flow <u>98</u>	<input type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:50</u>
(D) Initial Shut-In <u>1087</u>	<input type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>21:10</u>
(E) Second Initial Flow <u>102</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:40</u>
(F) Second Final Flow <u>149</u>	<input type="checkbox"/> Mileage <u>47 RT 58.75</u>	Comments <u>Tool slid 2 feet</u>
(G) Final Shut-In <u>1043</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2230</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility	Total <u>1858.75</u>
Final Shut-In <u>60</u>	Sub Total <u>1858.75</u>	MP/DST Disc't

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