

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 040682 15428

Well Name & No. HARRIS Unit #1-20 Test No. 1 Date 2-11-11
 Company LARSON Engineering, Inc Elevation 2896 KB 2889 GL
 Address 562 West State Rd 4 Olmitz KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD#3
 Location: Sec. 20 Twp. 18S Rge. 30W Co. Lane State KS

Interval Tested 4110-4145 Zone Tested Lansing "H"
 Anchor Length 35' Drill Pipe Run 3994 Mud Wt. 9.2
 Top Packer Depth 4106 Drill Collars Run 112 Vis 6.2
 Bottom Packer Depth 4110 Wt. Pipe Run Ø WL 6.8
 Total Depth 4145 Chlorides 1900 ppm System LCM 2
 Blow Description IF: ~~BOD~~ Built to 10" Blow
ID: No Return Blow
FF: BOD in 23 min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>				
<u>360</u>	<u>SW</u>				

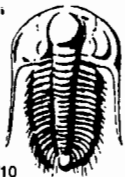
Rec Total 361 BHT Gravity ✓ API RW 38.6 @ 523 °F Chlorides 11,500 ppm
 (A) Initial Hydrostatic 2046 ☒ Test 1225.09 T-On Location 13:30
 (B) First Initial Flow 24 ☒ Jars 250.09 T-Started 15:43
 (C) First Final Flow 104 ☒ Safety Joint 75.00 T-Open 17:49
 (D) Initial Shut-In 1081 ☒ Circ Sub 80 T-Pulled 20:05
 (E) Second Initial Flow 102 ☒ Hourly Standby ✓ T-Out 22:09
 (F) Second Final Flow 191 ☒ Mileage 30 RT = 37.50 Comments
 (G) Final Shut-In 1080
 (H) Final Hydrostatic 2061

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60

☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility 1637.50
 Sub Total 1587.50

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total Ø
 Total 1587.50 1637.50
 MP/DST Disc't

Approved By [Signature] Our Representative Mike Roberts
 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.



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Test Ticket

NO. 040683

Well Name & No. HARRIS Unit #1-20 Test No. 2 Date 2-12-11
 Company LARSON Engineering Elevation 2896 KB 2889 GL
 Address 562 West State Rd. 4 Olmitz KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD#3
 Location: Sec. 20 Twp. 18S Rge. 30W Co. LANE State KS

Interval Tested 4125-4190 Zone Tested Lansing "I"
 Anchor Length 15' Drill Pipe Run 4044 Mud Wt. 9.2
 Top Packer Depth 4171 Drill Collars Run 112 Vis 64
 Bottom Packer Depth 4175 Wt. Pipe Run 0 WL 6.8
 Total Depth 4190 Chlorides 3000 ppm System LCM 1.5

Blow Description IF: Built to 4" Blow
IS: No Return Blow
FF: Built to
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Feet of Free oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>142</u>	<u>Feet of MCSW</u>	<u>0</u>	<u>70</u>	<u>30</u>	<u>0</u>

Rec Total	BHT	Gravity	API RW	°F	Chlorides	ppm
<u>145</u>	<u>2087</u>	<u>1225.00</u>	<u>38.1</u>	<u>57.7</u>	<u>12,100</u>	

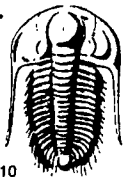
(A) Initial Hydrostatic 2087 ☒ Test 1225.00 T-On Location 07:00
 (B) First Initial Flow 21 ☒ Jars 250.00 T-Started 08:45 11:08
 (C) First Final Flow 57 ☒ Safety Joint 75.00 T-Open 12:40
 (D) Initial Shut-In 863 ☒ Circ Sub NC T-Pulled 14:55
 (E) Second Initial Flow 61 ☐ Hourly Standby NC T-Out 16:57
 (F) Second Final Flow 88 ☒ Mileage 30 RT = 37.50/- Comments Started Recorders
 (G) Final Shut-In 856 ☐ Sampler NC at 8:45, Rig Broke down
 (H) Final Hydrostatic 2066 ☐ Straddle NC Reprogrammed + started Again

Initial Open	Initial Shut-In	Final Flow	Final Shut-In	Sub Total	Total	MP/DST Disc't
<u>15</u>	<u>30</u>	<u>30</u>	<u>60</u>	<u>8</u>	<u>1587.50</u>	

Sub Total \$1587.50/-

Approved By [Signature] Our Representative Mike Bokich

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Test Ticket

NO. 040684

Well Name & No. HARRIS # Unit #1-20 Test No. 3 Date 2-13-11
 Company Larson Engineering, Inc Elevation 2896 KB 2889 GL
 Address 562 West State Rd Olmitz KS 67544
 Co. Rep / Geo. Bob Lewellyn Rig HD #3
 Location: Sec. 20 Twp. 18S Rge. 30W Co. LANE State KS

Interval Tested 4218-4234 Zone Tested housing "K"
 Anchor Length 16' Drill Pipe Run 4086 Mud Wt. 9.2
 Top Packer Depth 4214 Drill Collars Run 112 Vis 64
 Bottom Packer Depth 4218 Wt. Pipe Run Ø WL 6.8
 Total Depth 4234 Chlorides 3000 ppm System LCM 1.5
 Blow Description IFI Built to 5" Blow
IS: NO Return Blow
FFI Built to 4" blow
FS: NO Return

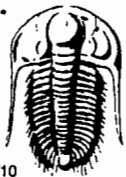
Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>Free Oil</u>				
<u>49</u>	<u>MCO</u>		<u>20</u>	<u>30</u>	
<u>112</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	

Rec Total 236 BHT 122 Gravity 36 API RW ✓ @ ✓ °F Chlorides ✓ ppm
 (A) Initial Hydrostatic 2114 ☒ Test 1225 T-On Location 03:15
 (B) First Initial Flow 24 ☒ Jars 250 T-Started 04:11
 (C) First Final Flow 66 ☒ Safety Joint 75 T-Open 06:45
 (D) Initial Shut-In 801 ☒ Circ Sub _____ T-Pulled 09:00
 (E) Second Initial Flow 71 ☐ Hourly Standby _____ T-Out 11:21
 (F) Second Final Flow 102 ☒ Mileage 30 RT = 32.50 Comments _____
 (G) Final Shut-In 259 ☐ Sampler _____
 (H) Final Hydrostatic 2104 ☐ Straddle _____

☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
 Initial Open 15 ☐ Extra Packer _____
 Initial Shut-In 30 ☐ Extra Recorder _____
 Final Flow 30 ☐ Day Standby _____
 Final Shut-In 60 ☐ Accessibility _____
 Sub Total 1587.50 Sub Total Ø
 Total 1587.50 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]

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Test Ticket

NO. 040685

Well Name & No. HARRIS Unit # 1-20 Test No. 4 Date 2-14-11
 Company Larson Engineering, Inc. Elevation 2896 KB 2889 GL
 Address 562 West State Rd 4 Olin, KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD #3
 Location: Sec. 20 Twp. 18S Rge. 30W Co. LANE State KS

Interval Tested 4258-4279 Zone Tested Lansing "2"
 Anchor Length 21 Drill Pipe Run 4149 Mud Wt. 9.3
 Top Packer Depth 4254 Drill Collars Run 112 Vis 45
 Bottom Packer Depth ~~4279~~ 4258 Wt. Pipe Run 0 WL 7.2
 Total Depth 4279 Chlorides 3000 ppm System LCM 1

Blow Description IF: Built to 2" Blow
IS: No Return Blow
FF: Built to 2" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Feet of Free Oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>112</u>	<u>Feet of SW</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 114 BHT 116 Gravity 1 API RW 721 @ 30 °F Chlorides 20,000 ppm
 (A) Initial Hydrostatic 2117 ☒ Test 1225.00 T-On Location 23:00
 (B) First Initial Flow 24 ☒ Jars 250.00 T-Started 12:39
 (C) First Final Flow 57 ☒ Safety Joint 75.00 T-Open 02:33
 (D) Initial Shut-In 834 ☒ Circ Sub NC T-Pulled 04:48
 (E) Second Initial Flow 59 ☐ Hourly Standby _____ T-Out 07:04
 (F) Second Final Flow 93 ☒ Mileage 30 RT = 37.50 Comments _____
 (G) Final Shut-In 834 ☐ Sampler _____
 (H) Final Hydrostatic 2096 ☐ Straddle _____

Initial Open 15 ☐ Shale Packer _____ ☐ Ruined Shale Packer _____
 Initial Shut-In 30 ☐ Extra Packer _____ ☐ Ruined Packer _____
 Final Flow 30 ☐ Extra Recorder _____ ☐ Extra Copies _____
 Final Shut-In 60 ☐ Day Standby _____ Sub Total 8
☐ Accessibility _____ Total 1587.50
 Sub Total 1587.50 MP/DST Disc't _____

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Test Ticket

NO. 040686

Well Name & No. HARRIS Unit #1-20 Test No. 5 Date 2-14-11
 Company LARSON Engineering, Inc Elevation 2896 KB 2889 GL
 Address 562 West State Rd 4 Olmitz KS 67564
 Co. Rep / Geo. Bob Lewellen Rig HD#3
 Location: Sec. 20 Twp. 18S Rge. 30W Co. LANE State KS

Interval Tested 4267-4291 Zone Tested Lansing "L"
 Anchor Length 24 Drill Pipe Run 4151 Mud Wt. 9.2
 Top Packer Depth 4263 Drill Collars Run 112 Vis 42
 Bottom Packer Depth 4267 Wt. Pipe Run Ø WL 7.2
 Total Depth 4291 Chlorides 3000 ppm System LCM 1

Blow Description IF: Built to 5" Blow
IS: No Return Blow
FF: Built to 3" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Feet of Free Oil</u>				
<u>172</u>	<u>Feet of WCM</u>		<u>30</u>	<u>70</u>	

Rec Total 174 BHT 121 Gravity 1 API RW 1 @ 1 °F Chlorides 1 ppm

(A) Initial Hydrostatic 2079
 (B) First Initial Flow 21
 (C) First Final Flow 75
 (D) Initial Shut-In 429
 (E) Second Initial Flow 75
 (F) Second Final Flow 112
 (G) Final Shut-In 415
 (H) Final Hydrostatic 2087

☒ Test 1225.00
☒ Jars 250.00
☒ Safety Joint 75.00
☒ Circ Sub NL
☐ Hourly Standby
☒ Mileage 30 RT = 37.50
☐ Sampler
☐ Straddle
☒ Shale Packer # 250.00
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1837.50/-

T-On Location 16:00
 T-Started 16:29
 T-Open 18:15
 T-Pulled 20:30
 T-Out 22:45
 Comments
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total Ø
 Total 1837.50
 MP/DST Disc't

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60

Approved By [Signature] Our Representative Mike Rolato

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Test Ticket

NO. 040681

Well Name & No. HARRIS Unit #1-20 Test No. 806 Date 2-15-11
 Company LARSON Engineering, Inc. Elevation 2896 KB 2889 GL
 Address 562 West State Rd 4 Olmitz KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD #3
 Location: Sec. 20 Twp. 18S Rge. 30W Co. LANE State KS

Interval Tested 4298-4374 Zone Tested Marmaton
 Anchor Length 76 Drill Pipe Run 4169 Mud Wt. 9.2
 Top Packer Depth 4294 Drill Collars Run 112 Vis 42
 Bottom Packer Depth 4298 Wt. Pipe Run 0 WL 7.2
 Total Depth 4374 Chlorides 3000 ppm System LCM 1
 Blow Description IF: Built to 6" Blow
IS: No Return Blow
FF: Built to 7" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>298</u>	<u>Mud with oil spots</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 Total 298 BHT 121 Gravity 1 API RW 1 @ 1 °F Chlorides 1 ppm

(A) Initial Hydrostatic	<u>2162</u>	☒ Test	<u>1225</u>	T-On Location	<u>11:00</u>
(B) First Initial Flow	<u>31</u>	☒ Jars	<u>250</u>	T-Started	<u>11:21</u>
(C) First Final Flow	<u>86</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>14:27</u>
(D) Initial Shut-In	<u>862</u>	☒ Circ Sub		T-Pulled	<u>17:27</u>
(E) Second Initial Flow	<u>90</u>	☐ Hourly Standby		T-Out	<u>18:30</u>
(F) Second Final Flow	<u>140</u>	☒ Mileage	<u>30 RT = 37.50</u>	Comments	<u>(75) Mileage X 2</u>
(G) Final Shut-In	<u>821</u>	☐ Sampler		☒ Ruined Shale Packer	<u>280.00</u>
(H) Final Hydrostatic	<u>2131</u>	☐ Straddle		☐ Ruined Packer	

Initial Open 13
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 90

Sub Total 1875

Sub Total 280
 Total 2155
 MP/DST Disc't

Approved By [Signature]

Our Representative [Signature]

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