

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

AUG 03 2011

Test Ticket

NO. 43925 16116

Well Name & No. Lucq #4 Test No. 1 Date 7/31/11
 Company Downing-Nelson Oil Co Inc. Elevation 2260 KB 2252 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 1 Twp. 14 Rge. 21 Co. Trego State KS

Interval Tested 3538-3570 Zone Tested LAC "A"
 Anchor Length 32 Drill Pipe Run 3517 Mud Wt. 8.6
 Top Packer Depth 3533 Drill Collars Run 30 Vis 73
 Bottom Packer Depth 3538 Wt. Pipe Run — WL 7.8
 Total Depth 3570 Chlorides 1000 ppm System LCM 17

Blow Description FF - 2 3/4 in blow
ISI - No blow
FF - very weak surface blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>MCU</u>			<u>85</u>	<u>15</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 65 BHT 113 Gravity — API RW .10 @ 92 ° F Chlorides 60,000 ppm

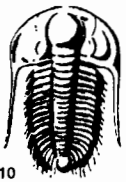
(A) Initial Hydrostatic 1,674 Test 1125 T-On Location 3:35
 (B) First Initial Flow 14 Jars — T-Started 4:25
 (C) First Final Flow 34 Safety Joint — T-Open 6:20
 (D) Initial Shut-In 961 Circ Sub — T-Pulled 8:50
 (E) Second Initial Flow 38 Hourly Standby — T-Out 10:25
 (F) Second Final Flow 48 Mileage 27x 2 3/4 RT 75.60 Comments —
 (G) Final Shut-In 888 Sampler —
 (H) Final Hydrostatic 1,642 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder —

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

Sub Total 1200.60
 Total 1200.60
 MP/DST Disc't —

Approved By _____ Our Representative Paul Durbin

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

AUG 03 2011

NO. 43926

Well Name & No. Luca #4 Test No. 2 Date 7/31/11
 Company Downing - Nelson Oil Co Inc. Elevation 2260 KB 2252 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 1 Twp. 14 Rge. 21 Co. Trego State KS

Interval Tested 3567-3592 Zone Tested LRC & C"
 Anchor Length 25 Drill Pipe Run 3548 Mud Wt. ~~8.6~~ 9.0
 Top Packer Depth 3562 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 3567 Wt. Pipe Run — WL —
 Total Depth 3592 Chlorides — ppm System LCM —
 Blow Description IF 3 1/2 in blow
ISF - No blow
FF - 3 in blow
FSF - No blow

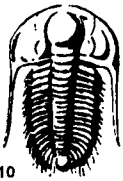
Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>oil spotted MCW</u>		<u>70</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120 BHT 114 Gravity — API RW .15 @ 75 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic <u>1,703</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>16:10</u>
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars	T-Started <u>16:25</u>
(C) First Final Flow <u>45</u>	<input type="checkbox"/> Safety Joint	T-Open <u>18:40</u>
(D) Initial Shut-In <u>840</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>21:40</u>
(E) Second Initial Flow <u>48</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:25</u>
(F) Second Final Flow <u>72</u>	<input checked="" type="checkbox"/> Mileage <u>27x254RT75.100</u>	Comments <u>—</u>
(G) Final Shut-In <u>836</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1,665</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1200-100</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't <u>—</u>
	Sub Total <u>1200.60</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

AUG 08 2011

NO. 44277

Well Name & No. L ueg #4 Test No. 3 Date 8/1/11
 Company Downing-Nelson Oil Co Inc. Elevation 2260 KB 2252 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 1 Twp. 14 Rge. 21 Co. Trego State KS

Interval Tested 3609-3626 Zone Tested LKC "E"
 Anchor Length 17 Drill Pipe Run _____ Mud Wt. 8.8
 Top Packer Depth 3604 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3609 Wt. Pipe Run — WL 8.0
 Total Depth 3626 Chlorides 3,800 ppm System LCM 1 3/4 #
 Blow Description IF - 3 3/4 in blow
IS2 - No blow
FF - 3 in blow
FS2 - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>114</u>	<u>M CW</u>			<u>80%</u>	<u>20</u>
<u>1</u>	<u>Free Oil</u>				
_____	_____				
_____	_____				
_____	_____				

Rec Total 115 BHT 115 Gravity _____ API RW .06 @ 100 °F Chlorides 90,000 ppm
 Test 1125
 Jars _____
 Safety Joint _____
 Circ Sub _____
 Hourly Standby _____
 Mileage 27x2 75.60
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby 1 day + 6 1/4 hrs
 Accessibility _____
 Sub Total 1200.60

T-On Location 6:50
 T-Started 6:55
 T-Open 9:05
 T-Pulled 12:05
 T-Out 13:45
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 208.38
 Total 1408.98
 MP/DST Disc't _____

Approved By _____ Our Representative Burt Dickerson

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TRIOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 44278

AUG 08 2011

Well Name & No. Luca #4 Test No. 4 Date 8/2/11
 Company Downing-Nelson Oil Co Inc. Elevation 2260 KB 2252 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 1 Twp. 14 Rge. 21 Co. Trego State KS

Interval Tested 3890-3925 Zone Tested Arb
 Anchor Length 35 Drill Pipe Run 3865 Mud Wt. 9.1
 Top Packer Depth 3885, 3890 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 3925 Wt. Pipe Run — WL 8.8
 Total Depth 3999 Chlorides 3000 ppm System LCM
 Blow Description IF - 3/4 in blow died back to meat surface = blow
ISI - No blow
IF - 1/2 in died in 23 min
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>MCO</u>	<u>65</u>		<u>35</u>	
<u>60</u>	<u>OCM</u>	<u>40</u>		<u>60</u>	

Rec Total 95 BHT 118 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,947 Test 1125 T-On Location 20:00
 (B) First Initial Flow 24 Jars _____ T-Started 20:45
 (C) First Final Flow 43 Safety Joint _____ T-Open 23:32
 (D) Initial Shut-In 818 Circ Sub _____ T-Pulled 1:32
 (E) Second Initial Flow 47 Hourly Standby _____ T-Out 3:45
 (F) Second Final Flow 59 Mileage 27x 275.60 Comments _____
 (G) Final Shut-In 729 Sampler _____
 (H) Final Hydrostatic 1,840 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 8
 Day Standby _____ Total 1800.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1800.60

Approved By _____ Our Representative Bruce

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

AUG 03 2011

NO. 44279

Well Name & No. Luca #4 Test No. 5 Date 8/13/11
 Company Downing - Nelson Oil Co Inc Elevation 2260 KB 2252 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 1 Twp. 14 Rge. 21 Co. Trego State KS

Interval Tested 3925 - 3946 Zone Tested Arb.
 Anchor Length 21 Drill Pipe Run 3896 Mud Wt. 9.1
 Top Packer Depth 3920, 3925 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 3946 Wt. Pipe Run — WL 8.8
 Total Depth 3999 Chlorides 3,000 ppm System LCM
 Blow Description IF - in blow died to 4 in
ISF - No blow
FF - No blow flush tool very weak surface blow
ESI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>				
<u>89</u>	<u>Oil spotted mcn</u>		<u>60</u>	<u>40</u>	

Rec Total 90 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides 32,000 ppm

- (A) Initial Hydrostatic 1958
- (B) First Initial Flow 17
- (C) First Final Flow 41
- (D) Initial Shut-In 972
- (E) Second Initial Flow 48
- (F) Second Final Flow 38
- (G) Final Shut-In 894
- (H) Final Hydrostatic 1,897

- Test 1125
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage ~~222~~
- Sampler
- Straddle 1000
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1725

- T-On Location _____
- T-Started 4:55
- T-Open 6:18
- T-Pulled 6:18
- T-Out 10:00
- Comments _____
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1725
- MP/DST Disc't _____

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

Approved By _____ Our Representative Burt D... [Signature]

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