

# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket  
MAY 18 2010 NO. 37532 14245

Well Name & No. J&J Kuhlman 2-4 Test No. 1 Date 5-12-10  
 Company Murfin Drilling Co, Inc. Elevation 3051 KB 3041 GL  
 Address 250 N Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Tom Funk Rig Murfin #14  
 Location: Sec. 4 Twp. 13 Rge. 32 Co. Logan State KS

Interval Tested 4211-4270 Zone Tested KC I&J  
 Anchor Length 59 Drill Pipe Run 3647 Mud Wt. 9.2  
 Top Packer Depth 4206 Drill Collars Run 541 Vis 52  
 Bottom Packer Depth 4211 Wt. Pipe Run N.A. WL 6.0  
 Total Depth 4270 Chlorides 3,300 ppm System LCM 1.5#  
 Blow Description IF: 10 inches in 30 min, strong building blow  
ISB: No blow back  
FP: BOB 40 min, strong building blow  
FST: No blow back

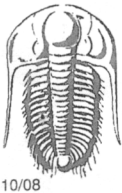
Rec	Feet of	%gas	%oil	%water	%mud
<u>630</u>	<u>muddy water</u>			<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 630 BHT 116 Gravity \_\_\_\_\_ API RW .141 @ 69 °F Chlorides 55,000 ppm

(A) Initial Hydrostatic 2072  Test CONV. 1225- T-On Location 1500  
 (B) First Initial Flow 38  Jars 250- T-Started 1600  
 (C) First Final Flow 165  Safety Joint 75- T-Open 1800  
 (D) Initial Shut-In 1260  Circ Sub \_\_\_\_\_ T-Pulled 2200  
 (E) Second Initial Flow 170  Hourly Standby \_\_\_\_\_ T-Out 2400  
 (F) Second Final Flow 308  Mileage 60 75- Comments 26753 (1613)  
 (G) Final Shut-In 1234  Sampler \_\_\_\_\_ #8374 (1615)  
 (H) Final Hydrostatic 2079  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Total 1525  
 Sub Total 1525

Approved By [Signature] 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.



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## Test Ticket

No. 37533

10/08

BY: \_\_\_\_\_

Well Name & No. J+J Kuhlman 2-4 Test No. 2 Date 5-13-10  
 Company Martin Drilling Co., Inc. Elevation 3051 KB 3041 GL  
 Address 250 N Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Tom Frank Rig Martin #14  
 Location: Sec. 4 Twp. 13 Rge. 32 Co. Logan State KS

Interval Tested 4270-4330 Zone Tested KC K-L  
 Anchor Length 60' Drill Pipe Run 3710 Mud Wt. 9.2  
 Top Packer Depth 4265 Drill Collars Run 541 Vis 52  
 Bottom Packer Depth 4270 Wt. Pipe Run N/A. WL 6.0  
 Total Depth 4330 Chlorides 3300 ppm System LCM .5  
 Blow Description IF: 7 inches in 30 min, fair building blow  
FSI: No blow back  
FF: 9 inches in 60 min, fair building blow  
FSI: No blow back

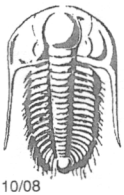
Rec	Feet of	%gas	%oil	%water	%mud
<u>450</u>	<u>oil spotted watery mud</u>	<u>5000</u>		<u>45</u>	<u>55</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 450 BHT 115 Gravity \_\_\_\_\_ API RW .149 @ 70 ° F Chlorides 52,000 ppm

(A) Initial Hydrostatic 2050  Test conv. 1225 T-On Location 0830  
 (B) First Initial Flow 43  Jars 250 T-Started 0900  
 (C) First Final Flow 115  Safety Joint 75 T-Open 1115  
 (D) Initial Shut-In 1262  Circ Sub \_\_\_\_\_ T-Pulled 1515  
 (E) Second Initial Flow 121  Hourly Standby \_\_\_\_\_ T-Out 1700  
 (F) Second Final Flow 231  Mileage 40 50 Comments #6053 (8.45)  
 (G) Final Shut-In 1255  Sampler \_\_\_\_\_ #8374 (8.44)  
 (H) Final Hydrostatic 2052  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Total 1600  
 Sub Total 1600

Approved By [Signature] Our Representative [Signature]

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## Test Ticket

NO. 37534

10/08

BY: \_\_\_\_\_

Well Name & No. J&J Kuhlman 2-4 Test No. 3 Date 5-14-10

Company Martin Drilling Co, Inc. Elevation 3051 KB 3041 GL

Address 250 N Water STE 300 Wichita, KS 67202

Co. Rep / Geo. Tom Funk Rig Martin #14

Location: Sec. 4 Twp. 13 Rge. 32 Co. Logan State KS

Interval Tested 4385-4495 Zone Tested Altament - Pawnee

Anchor Length 110' Drill Pipe Run 3838 Mud Wt. 9.2

Top Packer Depth 4380 Drill Collars Run 541 Vis 59

Bottom Packer Depth 4385 Wt. Pipe Run N.A. WL 6.0

Total Depth 4495 Chlorides 3300 ppm System LCM 1.5

Blow Description IF: 2.5 inches in 30 min, weak surface blow  
ISD: No blow back  
FP: 4.0 inches in 60 min, weak building blow  
FSD: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>275</u>	<u>oily mud</u>		<u>5</u>		<u>95</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 275 BHT 115 Gravity \_\_\_\_\_ API RW 272 @ 80 °F Chlorides 22,000 ppm

(A) Initial Hydrostatic 2152  Test conv. 1225 T-On Location 0600

(B) First Initial Flow 62  Jars 250 T-Started 0630

(C) First Final Flow 105  Safety Joint 75' T-Open 0830

(D) Initial Shut-In 1073  Circ Sub \_\_\_\_\_ T-Pulled 1230

(E) Second Initial Flow 107  Hourly Standby \_\_\_\_\_ T-Out 1430

(F) Second Final Flow 170  Mileage A 40 50' Comments \_\_\_\_\_

(G) Final Shut-In 1057  Sampler \_\_\_\_\_ #6753 (0624)

(H) Final Hydrostatic 2148  Straddle \_\_\_\_\_ #8374 (0626)

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Shut-In 60  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Final Flow 60  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_

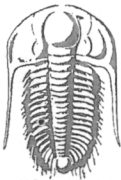
Final Shut-In 90  Day Standby \_\_\_\_\_ Sub Total \_\_\_\_\_

Accessibility \_\_\_\_\_ Total 1545 1600

Sub Total 1545 1600

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RECEIVED  
MAY 18 2010  
BY: \_\_\_\_\_

## Test Ticket

No. 37535

Well Name & No. 525 Kuhlman 2-4 Test No. 4 Date 5-15-10  
 Company Murfin Drilling CO, Inc. Elevation 3051 KB 3041 GL  
 Address 250 N Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Tom Funk Rig Murfin #14  
 Location: Sec. 4 Twp. 13 Rge. 32 Co. Logan State KS

Interval Tested 4499-4580 Zone Tested Myrick Station, Fort Scott  
 Anchor Length 81 Drill Pipe Run 3962 Mud Wt. 9.2  
 Top Packer Depth 4494 Drill Collars Run 541 Vis 4.9  
 Bottom Packer Depth ~~4413~~ 4489 Wt. Pipe Run N.A. WL 6.4  
 Total Depth 4580 Chlorides 3200 ppm System LCM 1.5 # LCM  
 Blow Description IF: 1 inche in 30 min, weak surface blow  
ISL: No blow back  
FF: Weak surface blow  
FSD: No blow back

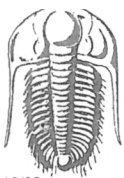
Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>oil spotted mud</u>		<u>Spot</u>	<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 100 BHT 118 Gravity \_\_\_\_\_ API RW .524 @ 70 ° F Chlorides 13,000 ppm

(A) Initial Hydrostatic 2184  Test CONV. 1225 T-On Location ~~0015~~  
 (B) First Initial Flow 30  Jars 250' T-Started 0030  
 (C) First Final Flow 51  Safety Joint 75 T-Open 0250  
 (D) Initial Shut-In 686  Circ Sub \_\_\_\_\_ T-Pulled 0650  
 (E) Second Initial Flow 53  Hourly Standby \_\_\_\_\_ T-Out 0845  
 (F) Second Final Flow 173  Mileage X40 50 Comments #6753 (0032)  
 (G) Final Shut-In 658  Sampler \_\_\_\_\_ #8374 (0034)  
 (H) Final Hydrostatic 2182  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies 7  
 Day Standby \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Total 1518 1100  
 Sub Total 1515 1100

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

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MAY 18 2010

## Test Ticket

NO. 37536

Well Name & No. J&J Kuhlman 2nd BY: \_\_\_\_\_ Test No. 5 Date 5-15-10  
 Company Murfin Drilling Co, Inc. Elevation 3051 KB 3041 GL \_\_\_\_\_  
 Address 250 N Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Tom Finkle Rig Murfin #14  
 Location: Sec. 4 Twp. 13 Rge. 32 Co. Logan State KS

Interval Tested 4578-4630 Zone Tested Johnson  
 Anchor Length 52 Drill Pipe Run 4028 Mud Wt. 9.1  
 Top Packer Depth 4573 Drill Collars Run 541 Vis 65  
 Bottom Packer Depth 4578 Wt. Pipe Run N.A. WL 6.4  
 Total Depth 4630 Chlorides 3800 ppm System LCM 3#  
 Blow Description IF: BOB 8 min, strong building blow  
1st: No blow back  
FP: BOB 10 min, strong steady blow  
FST: Blow back in 4 min, 1.5 inches in 90 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1006</u>	<u>oily muddy water</u>	<u>5</u>	<u>90</u>	<u>5</u>	
<u>10</u>	<u>oil</u>	<u>100</u>			
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 1016 BHT 127 Gravity 26 API RW .093 @ 72 °F Chlorides 85,000 ppm

(A) Initial Hydrostatic 2241  Test 1275 T-On Location 1630  
 (B) First Initial Flow 58  Jars 250 T-Started 1700  
 (C) First Final Flow 307  Safety Joint 75 T-Open 1830  
 (D) Initial Shut-In 856  Circ Sub \_\_\_\_\_ T-Pulled 2230  
 (E) Second Initial Flow 314  Hourly Standby \_\_\_\_\_ T-Out 0100  
 (F) Second Final Flow 484  Mileage 40KT 50' Comments 16755 (1649)  
28374 (1650)  
 (G) Final Shut-In 847  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2239  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Accessibility \_\_\_\_\_ Total 1100  
 Final Flow 60 Sub Total 1515 1600

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