

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 040550 15209

Well Name & No. Kuhlman D # 1-35 Test No. #1 Date 12/17/10
 Company Martin Drilling Co Inc. Elevation 2990 KB 2985 GL
 Address 250 N Water St 300 Wichita, KS 67202
 Co. Rep / Geo. Jeff Christian Rig Martin #24
 Location: Sec. 35 Twp. 12S Rge. 32W Co. Logan State KS

Interval Tested 4032 4056 Zone Tested C
 Anchor Length 24 Drill Pipe Run 3897' Mud Wt. 8.7
 Top Packer Depth 4027 Drill Collars Run 121' XH Vis 54
 Bottom Packer Depth 4032 Wt. Pipe Run — WL 7.2
 Total Depth 4056 Chlorides 1200 ppm System LCM #1/2

Blow Description B.O.B. in 25 min

No return

B.O.B. in 30 min.

No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>Feet of m.c.w</u>			<u>80%</u>	<u>20%</u>
<u>300</u>	<u>Feet of water</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 390' BHT 119 Gravity — API RW 358 @ 55 °F Chlorides 25500 ppm

(A) Initial Hydrostatic 1923
 (B) First Initial Flow 14
 (C) First Final Flow 120
 (D) Initial Shut-In 1245
 (E) Second Initial Flow 138
 (F) Second Final Flow 230
 (G) Final Shut-In 1236
 (H) Final Hydrostatic 1838

☒ Test 1225'
☐ Jars
☐ Safety Joint
☒ Circ Sub N/C
☐ Hourly Standby
☒ Mileage 74 RT 92.50

T-On Location 23:30
 T-Started 00:27
 T-Open 02:51
 T-Pulled 05:51
 T-Out 08:25

Comments

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

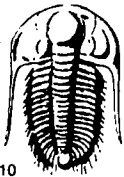
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 130.50

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1317.50
 MP/DST Disc't

Approved By Jeff Christian

Our Representative

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 of 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. 041126

Well Name & No. Kuhlman D #1-35 Test No. #2 Date 12/17/10
Company Marlin Drilling Co Inc. Elevation 2990 KB 2985 GL
Address 250N Water Ste 300 Wichita, Ks 67202
Co. Rep / Geo. Jeff Christian Rig Marlin #24
Location: Sec. 35 Twp. 12S Rge. 32W Co. Logan State Ks

Interval Tested 4072 4100 Zone Tested E
Anchor Length 28 Drill Pipe Run 3898' Mud Wt. 8.8
Top Packer Depth 4067 Drill Collars Run 181' KH Vis 55
Bottom Packer Depth 4072 Wt. Pipe Run --- WL 7.2
Total Depth 4100 Chlorides 2000 ppm System LCM # 1/2

Blow Description 8" blow
Surface return in 10 min, died in 30 min
9" blow
1/4" w + Return blow, died in 40 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>cgo</u>	<u>5</u>	<u>95</u>	<u>---</u>	<u>---</u>
<u>90</u>	<u>SO₃ wcm</u>	<u>Trace</u>	<u>10</u>	<u>25</u>	<u>65</u>
<u>121</u>	<u>SMCW</u>	<u>---</u>	<u>SCAM</u>	<u>90</u>	<u>10</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>(150' weak Gas on P.P.)</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

Rec Total 271' BHT 115° Gravity 37 API RW 292 @ 51° F Chlorides 34,500 ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>1943</u>	<u>13</u>	<u>80</u>	<u>954</u>	<u>93</u>	<u>124</u>	<u>639</u>	<u>1856</u>

☒ Test 1225'
☐ Jars
☐ Safety Joint
☒ Circ Sub N/C
☐ Hourly Standby
☒ Mileage 74 RT 92.50
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

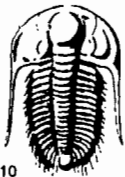
T-On Location 16:10
T-Started 14:35
T-Open 18:31
T-Pulled 22:31
T-Out 01:20
Comments

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

Sub Total 1317.50
Total 1317.50
MP/DST Disc't

Approved By Jeff Christian Our Representative [Signature]

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Test Ticket

NO. 041121

Well Name & No. Kuhlman D #1-35 Test No. #3 Date 12/19/10
 Company Martin Drilling Co Inc Elevation 2990 KB 2985 GL
 Address 250 N Water St 300 W Wichita, KS
 Co. Rep / Geo. Jeff Christian Rig Martin #24
 Location: Sec. 35 Twp. 12.5 Rge. 32w Co. Logan State KS

Interval Tested 4186 4232 Zone Tested I-5
 Anchor Length 46 Drill Pipe Run 4053' Mud Wt. 9.1
 Top Packer Depth 9181 Drill Collars Run 121' XH Vis 52
 Bottom Packer Depth 4186 Wt. Pipe Run WL 6.0
 Total Depth 4232 Chlorides 2200 ppm System LCM # 1/2

Blow Description 3" blow
No return
4" blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3'</u>	<u>CO</u>	<u>100</u>	<u> </u>	<u> </u>	<u> </u>
<u>148'</u>	<u>0.3 wcm</u>	<u>5</u>	<u>30</u>	<u>65</u>	<u> </u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

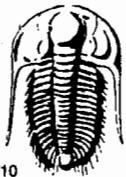
Rec Total 151' BHT 114° Gravity API RW 399 @ 45 °F Chlorides 26000 ppm
 (A) Initial Hydrostatic 2035 ☒ Test 1225' T-On Location 15:45
 (B) First Initial Flow 15 ☐ Jars T-Started 16:20
 (C) First Final Flow 50 ☐ Safety Joint T-Open 18:20
 (D) Initial Shut-In 1268 ☒ Circ Sub n/c T-Pulled 22:20
 (E) Second Initial Flow 54 ☐ Hourly Standby T-Out 00:55
 (F) Second Final Flow 83 ☒ Mileage 74 RT 92⁵⁰ Comments
 (G) Final Shut-In 1228 ☐ Sampler
 (H) Final Hydrostatic 1952 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies
☐ Extra Recorder Sub Total 0
☐ Day Standby Total 1317.50
☐ Accessibility MP/DST Disc't

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

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Test Ticket

NO. 041128

Well Name & No. Kuhlman D # 1-35 Test No. #4 Date 12/19/10
 Company Martin Drilling Co Inc. Elevation 2990 KB 2985 GL
 Address 250 N. Water Ste 300 Wichita, KS
 Co. Rep / Geo. Jeff Christian Rig Martin #24
 Location: Sec. 35 Twp. 12S Rge. 32W Co. Layan State KS

Interval Tested 4236 4270 Zone Tested K
 Anchor Length 34 Drill Pipe Run 4117' Mud Wt. 9'
 Top Packer Depth 4231 Drill Collars Run 121' XH Vis 52
 Bottom Packer Depth 4236 Wt. Pipe Run WL 6.0
 Total Depth 4270 Chlorides 2200 ppm System LCM #1/2

Blow Description B.O.B. in 11 1/2 min
No return
B.O.B. in 15 1/2 min.
1/8" in Return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>3'</u>	<u>CO</u>		<u>100%</u>		
<u>57'</u>	<u>50' smcw</u>	<u>Trace</u>	<u>3</u>	<u>67%</u>	<u>30</u>
<u>481'</u>	<u>SMCW</u>			<u>95%</u>	<u>5</u>
<u> </u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u> </u>	<u>(60' weak Gas w P.P.)</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

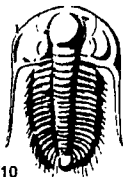
Rec Total 541' BHT 124 Gravity API RW 26.0 @ 53°F Chlorides 38,000 ppm

(A) Initial Hydrostatic	<u>2067</u>	☒ Test	<u>1225</u>	T-On Location	<u>07:55</u>
(B) First Initial Flow	<u>33</u>	☐ Jars		T-Started	<u>08:55</u>
(C) First Final Flow	<u>167</u>	☐ Safety Joint		T-Open	<u>11:09</u>
(D) Initial Shut-In	<u>1283</u>	☒ Circ Sub	<u>N/C</u>	T-Pulled	<u>14:09</u>
(E) Second Initial Flow	<u>175</u>	☐ Hourly Standby		T-Out	<u>16:30</u>
(F) Second Final Flow	<u>272</u>	☒ Mileage	<u>74 RT 92.50</u>	Comments	
(G) Final Shut-In	<u>1264</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2012</u>	☐ Straddle			

Initial Open	<u>30</u>	☐ Ruined Shale Packer	
Initial Shut-In	<u>60</u>	☐ Ruined Packer	
Final Flow	<u>30</u>	☐ Extra Packer	
Final Shut-In	<u>60</u>	☐ Extra Recorder	
		☐ Day Standby	
		☐ Accessibility	
Sub Total	<u>1317.50</u>	MP/DST Disc't	

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Test Ticket

NO. 041129

Well Name & No. Kuhlman D #1-35 Test No. #5 Date 12/21/10
 Company Murfin Drilling Co Inc Elevation 2990 KB 2985 GL
 Address 250 N Water St 300 Wichita, KS
 Co. Rep / Geo. Jeff Christian Rig Murfin #24
 Location: Sec. 35 Twp. 12.5 Rge. 32w Co. Logan State KS

Interval Tested 4546 4590 Zone Tested Johnson
 Anchor Length 44 Drill Pipe Run 4428 Mud Wt. 9.1
 Top Packer Depth 4541 Drill Collars Run 121' XH Vis 32
 Bottom Packer Depth 4546 Wt. Pipe Run — WL 6.8
 Total Depth 4590 Chlorides 3100 ppm System LCM #1

Blow Description B.O.B. in 4 min
B.O.B. in 17 min (Return)
B.O.B. @ open
B.O.B. in 40 min. (Return)

Rec	Feet of	%gas	%oil	%water	%mud
<u>420</u>	<u>c90</u>	<u>20%</u>	<u>80%</u>		
<u>90</u>	<u>gmco</u>	<u>20%</u>	<u>50%</u>		<u>30</u>
<u>60</u>	<u>gocm</u>	<u>25%</u>	<u>30%</u>		<u>45</u>
		%gas	%oil	%water	%mud
	<u>1410' GAS IN P.Pc</u>	%gas	%oil	%water	%mud

Rec Total 570' BHT 126 Gravity 29 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2269</u>	☒ Test	<u>1225'</u>	T-On Location	<u>18:20</u>
(B) First Initial Flow	<u>53</u>	☐ Jars		T-Started	<u>19:00</u>
(C) First Final Flow	<u>144</u>	☐ Safety Joint		T-Open	<u>20:56</u>
(D) Initial Shut-In	<u>370</u>	☒ Circ Sub	<u>w/c</u>	T-Pulled	<u>00:56</u>
(E) Second Initial Flow	<u>165</u>	☐ Hourly Standby		T-Out	<u>04:25</u>
(F) Second Final Flow	<u>236</u>	☒ Mileage	<u>74RT 92.50</u>	Comments	
(G) Final Shut-In	<u>350</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2192</u>	☐ Straddle		☐ Ruined Shale Packer	

Initial Open	<u>30</u>	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	<u>60</u>	☐ Extra Recorder	Sub Total <u>0</u>
Final Flow	<u>60</u>	☐ Day Standby	Total <u>1317.50</u>
Final Shut-In	<u>90</u>	☐ Accessibility	MP/DST Disc't

Approved By Jeff Christian Our Representative [Signature]
 Sub Total 1317.50

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