



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JUL 14 2011

Test Ticket

NO. 042914 **16015**

Well Name & No. Miller #1 Test No. 1 Date 7-14-11
Company TDI Inc Elevation 2198 KB 2188 GL
Address 1310 Bison RD Hays KS 67601
Co. Rep / Geo. Herb Deines Rig Southwind #1
Location: Sec. 19 Twp. 12s Rge. 18w Co. Ellis State KS

Interval Tested 3464-3524 Zone Tested LKC "A-C"
Anchor Length 60 Drill Pipe Run 3454 Mud Wt. 9.0
Top Packer Depth 3459 Drill Collars Run - Vis 53
Bottom Packer Depth 3464 Wt. Pipe Run - WL 6.4
Total Depth 3524 Chlorides 2800 ppm System LCM 1

Blow Description IF: Bled off surge blow at 4min, Blow built to 3 3/4"
ISI: No blowback
FF: Blow started at 6min, built to 5 3/4"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>78</u>	<u>OCM</u>	<u>1</u>	<u>11</u>	<u>-</u>	<u>88</u>
<u>63</u>	<u>501mw</u>	<u>3</u>	<u>2</u>	<u>54</u>	<u>41</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 141 BHT 110 Gravity - API RW 184 @ 94.9 °F Chlorides 28,000 ppm

(A) Initial Hydrostatic 1638
(B) First Initial Flow 34
(C) First Final Flow 54
(D) Initial Shut-In 384
(E) Second Initial Flow 58
(F) Second Final Flow 79
(G) Final Shut-In 372
(H) Final Hydrostatic 1615

☐ Test 1125
☒ Jars
☒ Safety Joint
☒ Circ Sub NA
☒ Hourly Standby 39.20
☐ Mileage 28RT (8000)
☒ Sampler
☒ Straddle
☒ Shale Packer
☒ Extra Packer
☒ Extra Recorder
☒ Day Standby
☒ Accessibility
Sub Total 1164.20

T-On Location 11:40
T-Started 12:15
T-Open 14:03
T-Pulled 17:16
T-Out 19:00
Comments Tool chased 10' to bottom
lost 15' mud - 3 1/2" surge blow

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

☒ Ruined Shale Packer
☐ Ruined Packer * 2605
☒ Extra Copies
Sub Total 2160
Total 1424.20
MP/DST Disc't

Approved By

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 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. 45180

Well Name & No. Miller #1 Test No. 2 Date 7-15-11
 Company TPI inc. Elevation 2198 KB 2188 GL
 Address 1310 Brson Rd, Hays KS, 67601
 Co. Rep / Geo. Herb Deines Rig Southwind 1
 Location: Sec. 19 Twp. 12S Rge. 18E Co. Ellis State KS

Interval Tested 3524 - 3574 Zone Tested KC "D-6"
 Anchor Length 50' Drill Pipe Run 3517 Mud Wt. 9.0
 Top Packer Depth 3519 Drill Collars Run — Vis 53
 Bottom Packer Depth 3524 Wt. Pipe Run — WL 6.4
 Total Depth 3574 Chlorides 2800 ppm System LCM

Blow Description ±F-4" blow
±SI- No blow back
FF-2" blow
FSI- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>MW - oil scum</u>		<u>60</u>	<u>40</u>	
<u>62</u>	<u>VSOCWM</u>	<u>5</u>	<u>10</u>	<u>85</u>	
<u>20</u>	<u>Free oil</u>	<u>100</u>			

Rec Total 144' BHT 110° Gravity 27 API RW .13 @ 101 °F Chlorides 34,000 ppm
 (A) Initial Hydrostatic 1725 ☒ Test 1125 T-On Location 3:25am
 (B) First Initial Flow 34 ☐ Jars T-Started 3:42am
 (C) First Final Flow 56 ☐ Safety Joint T-Open 5:34am
 (D) Initial Shut-In 829 ☐ Circ Sub T-Pulled 8:49am
 (E) Second Initial Flow 60 ☐ Hourly Standby T-Out 11:03am
 (F) Second Final Flow 90 ☒ Mileage 14X2 28RT 39.20 Comments
 (G) Final Shut-In 798 ☐ Sampler
 (H) Final Hydrostatic 1700 ☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

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

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1164.28
 MP/DST Disc't

Approved By

Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45181

Well Name & No. Miller #1 Test No. 3 Date 7-16-11
 Company T D I Inc Elevation 2198 KB 2188 GL
 Address 1310 Bison Rd, Hays KS, 67601
 Co. Rep / Geo. Herb Dernes Rig Southwind #1
 Location: Sec. 19 Twp. 12S Rge. 18W Co. Ellis State KS

Interval Tested 3600-3720 Zone Tested KC "H-L"
 Anchor Length 120' Drill Pipe Run 3613 Mud Wt. 9.0
 Top Packer Depth 3595 Drill Collars Run — Vis 53
 Bottom Packer Depth 3600 Wt. Pipe Run — WL 6.4
 Total Depth 3720 Chlorides 2800 ppm System LCM —

Blow Description IF-B.O.B. in 6 Min
ISI- 1/2" blow, died in 22 Min.
FF-B.O.B. in 8 Min
FSI- 7" blow

Rec	Feet of	%gas	%oil	%water	%mud
62	60	10	90		
62	60	40	60		
62	60 CM	20	10		70
31	6 MCO	35	60		5
	17 stand 6 IP				

Rec Total 217' BHT 1110 Gravity 33 API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 1807. ☒ Test 1125 T-On Location 12:10 am
 (B) First Initial Flow 69 ☐ Jars — T-Started 12:34 am
 (C) First Final Flow 104 ☐ Safety Joint — T-Open 3:06 am
 (D) Initial Shut-In 934 ☐ Circ Sub — T-Pulled 5:51 am
 (E) Second Initial Flow 128 ☐ Hourly Standby — T-Out 8:17 am
 (F) Second Final Flow 140 ☒ Mileage 14 X 2 28 39 ²⁰ Comments Gravity: 35 @ 80°
 (G) Final Shut-In 930 ☐ Sampler —
 (H) Final Hydrostatic 1794 ☐ Straddle — ☐ Ruined Shale Packer —
☐ Shale Packer — ☐ Ruined Packer —
☐ Extra Packer — ☐ Extra Copies —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —

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

Sub Total 1164.20

Approved By —

Our Representative Cody Bloedorn

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45182

Well Name & No. Miller #1 Test No. 4 Date 7-16-11
 Company TDI Inc. Elevation 2198 KB 2188 GL
 Address 1310 Bison Rd, Hays KS, 67601
 Co. Rep / Geo. Herb Deines Rig Southwind Rig #1
 Location: Sec. 19 Twp. 12S Rge. 18W Co. Ellis State KS

Interval Tested 3756 - 3785 Zone Tested CG Sand
 Anchor Length 29' Drill Pipe Run 3738 Mud Wt. 9.2
 Top Packer Depth 3751 Drill Collars Run — Vis 41
 Bottom Packer Depth 3756 Wt. Pipe Run — WL 11.2
 Total Depth 3785 Chlorides 5,500 ppm System LCM
 Blow Description IF - B.O.B. in 15 Min.
ISI - Weak surface blow
FF - B.O.B. in 18 Min. 30 Sec.
FSI - Surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>G MCO</u>	<u>15</u>	<u>75</u>	<u>10</u>	<u>10</u>
<u>124</u>	<u>G HOCM</u>	<u>40</u>	<u>50</u>	<u>10</u>	<u>10</u>
<u>155</u>	<u>GO</u>	<u>5</u>	<u>95</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 341' BHT 115° Gravity 18 API RW 20 @ 80° F Chlorides — ppm
 (A) Initial Hydrostatic 1825 ☒ Test 1125 T-On Location 4:20 pm
 (B) First Initial Flow 33 ☒ Jars 250 T-Started 4:31 pm
 (C) First Final Flow 98 ☒ Safety Joint 75 T-Open 7:10 pm
 (D) Initial Shut-In 1031 ☐ Circ Sub T-Pulled 9:25 pm
 (E) Second Initial Flow 105 ☐ Hourly Standby T-Out 12:00 am
 (F) Second Final Flow 156 ☒ Mileage 14X2 39²⁰ Comments Gravity 20@80°=18
 (G) Final Shut-In 1603 ☐ Sampler ☐ Ruined Shale Packer
 (H) Final Hydrostatic 1799 ☐ Straddle ☐ Ruined Packer
☐ Shale Packer ☐ Extra Copies

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

☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1489.20

Sub Total 8
 Total 1489.20
 MP/DST Disc't

Approved By

Our Representative

Cody Bloodorn

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