



DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N. Waterfront Pkwy
Bldg 300 B
Wichita KS, 67206

ATTN: Leah Kasten

Wood Trust #2

27-21s-19w Pawnee,KS

Start Date: 2014.06.24 @ 14:06:00

End Date: 2014.06.24 @ 21:54:30

Job Ticket #: 54060 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.06.27 @ 11:06:09

CMX Inc
27-21s-19w Pawnee,KS
Wood Trust #2
DST # 1
KC Drum
2014.06.24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

CMX Inc
 1700 N. Waterfront Pkwy
 Bldg 300 B
 Wichita KS, 67206
 ATTN: Leah Kasten

27-21s-19w Pawnee, KS

Wood Trust #2

Job Ticket: 54060 **DST#: 1**

Test Start: 2014.06.24 @ 14:06:00

GENERAL INFORMATION:

Formation: **KC Drum**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:55:00
 Time Test Ended: 21:54:30
 Interval: **3804.00 ft (KB) To 3832.00 ft (KB) (TVD)**
 Total Depth: 3832.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 2076.00 ft (KB)
 2066.00 ft (CF)
 KB to GR/CF: 10.00 ft

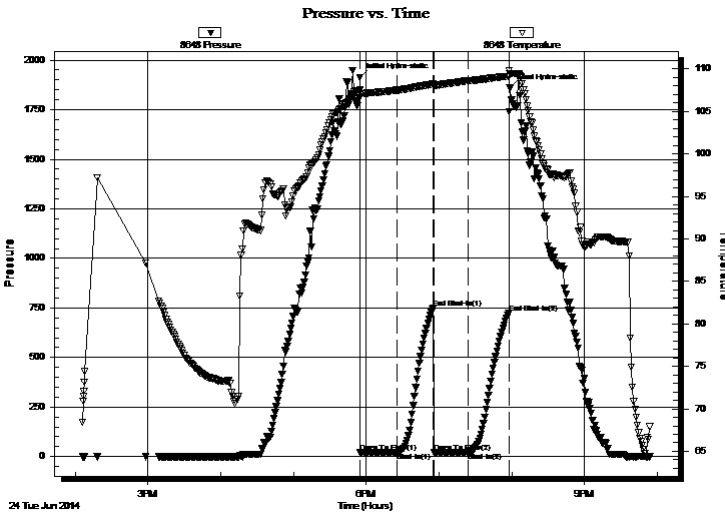
Serial #: 8648

Inside

Press@RunDepth: 21.74 psig @ 3808.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.24 End Date: 2014.06.24 Last Calib.: 2014.06.24
 Start Time: 14:06:05 End Time: 21:54:29 Time On Btm: 2014.06.24 @ 17:54:45
 Time Off Btm: 2014.06.24 @ 19:58:30

TEST COMMENT: 30 - IF- 1/4" in 7 minutes, died
 30 - IS- No return
 30 - FF- No blow
 30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.30	107.50	Initial Hydro-static
1	20.49	106.62	Open To Flow (1)
31	21.57	107.49	Shut-In(1)
61	749.97	108.20	End Shut-In(1)
61	20.98	107.91	Open To Flow (2)
90	21.74	108.61	Shut-In(2)
123	723.17	109.14	End Shut-In(2)
124	1858.50	109.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud, 100%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc
1700 N. Waterfront Pkwy
Bldg 300 B
Wichita KS, 67206
ATTN: Leah Kasten

27-21s-19w Pawnee,KS
Wood Trust #2
Job Ticket: 54060 **DST#: 1**
Test Start: 2014.06.24 @ 14:06:00

Tool Information

Drill Pipe:	Length: 3620.00 ft	Diameter: 3.80 inches	Volume: 50.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 51.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3804.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3776.00	
Shut In Tool	5.00			3781.00	
Hydraulic tool	5.00			3786.00	
Jars	5.00			3791.00	
Safety Joint	3.00			3794.00	
Packer	5.00			3799.00	29.00 Bottom Of Top Packer
Packer	5.00			3804.00	
Perforations	4.00			3808.00	
Recorder	0.00	8648	Inside	3808.00	
Recorder	0.00	8940	Outside	3808.00	
Perforations	21.00			3829.00	
Bullnose	3.00			3832.00	28.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc
1700 N. Waterfront Pkwy
Bldg 300 B
Wichita KS, 67206
ATTN: Leah Kasten

27-21s-19w Pawnee,KS
Wood Trust #2
Job Ticket: 54060 **DST#: 1**
Test Start: 2014.06.24 @ 14:06:00

Mud and Cushion Information

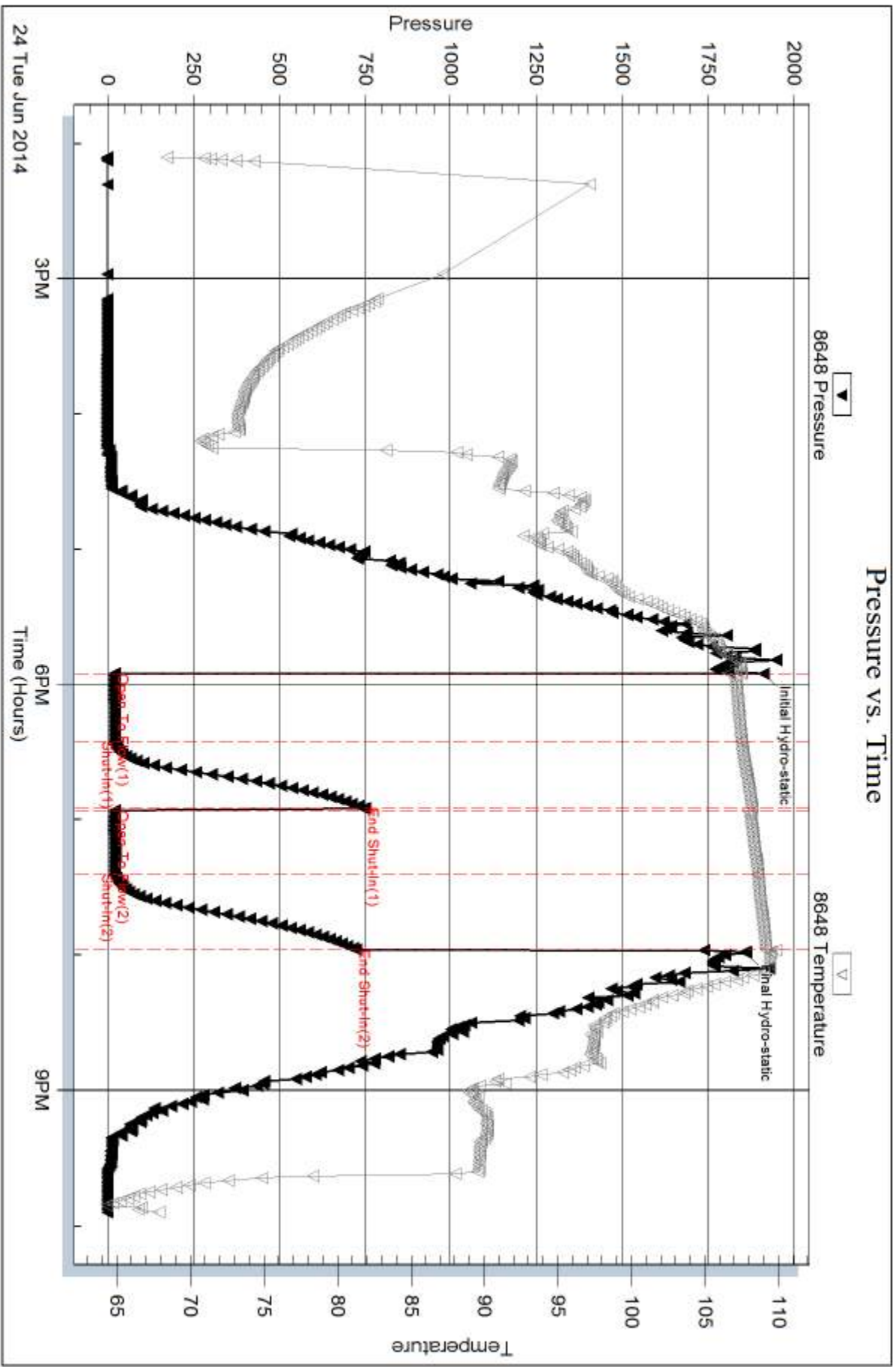
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud, 100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

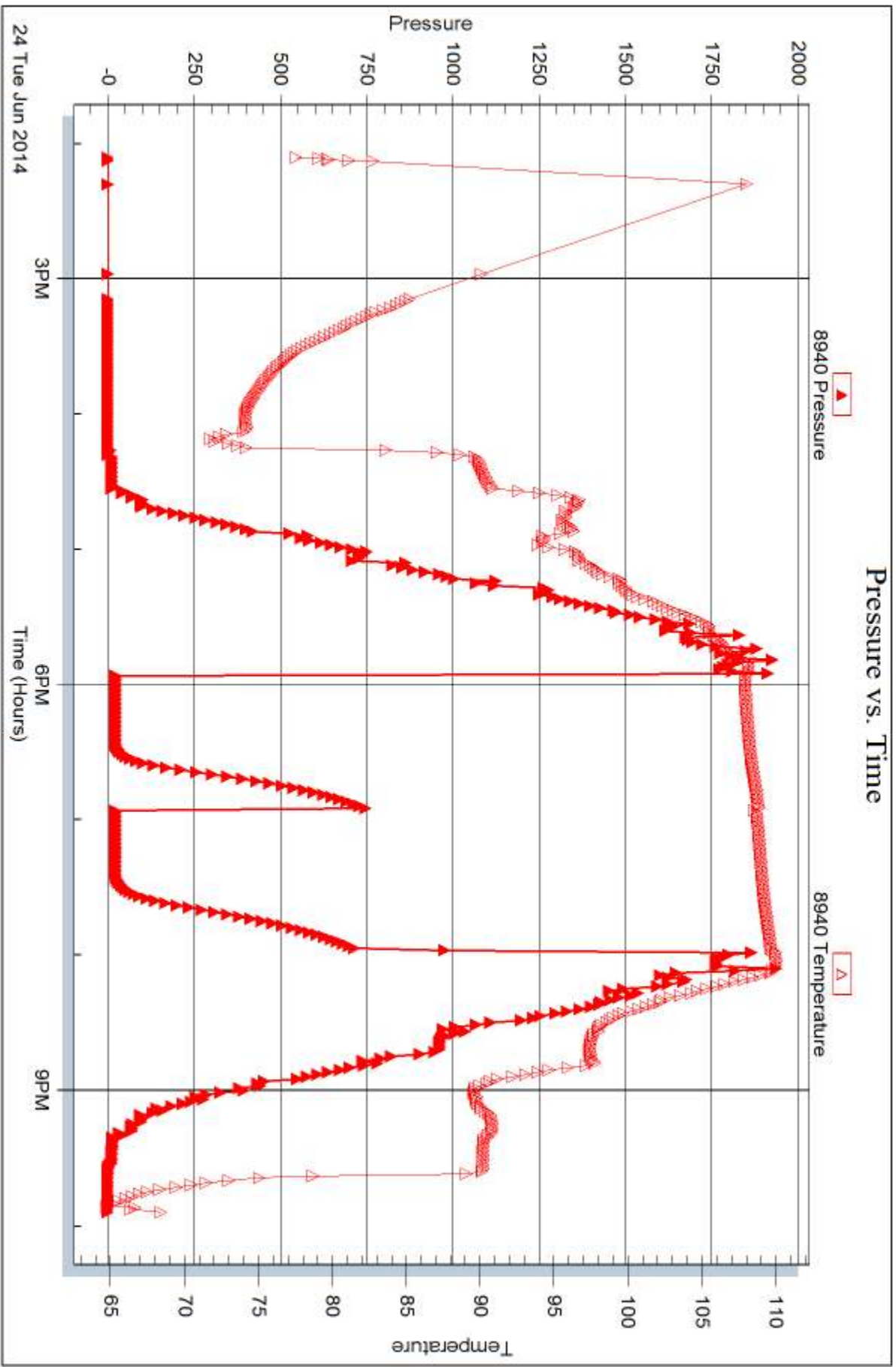


Serial #: 8940

Outside CMX Inc

Wood Trust #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54060

Printed: 2014.06.27 @ 11:06:10



DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N. Waterfront Pkwy
Bldg 300 B
Wichita KS, 67206

ATTN: Leah Kasten

Wood Trust #2

27-21s-19w Pawnee,KS

Start Date: 2014.06.25 @ 08:13:00

End Date: 2014.06.25 @ 17:01:00

Job Ticket #: 54061 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.06.27 @ 11:03:59



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

CMX Inc
 1700 N. Waterfront Pkwy
 Bldg 300 B
 Wichita KS, 67206
 ATTN: Leah Kasten

27-21s-19w Pawnee, KS

Wood Trust #2

Job Ticket: 54061 **DST#: 2**
 Test Start: 2014.06.25 @ 08:13:00

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:55:15
 Time Test Ended: 17:01:00
 Interval: **3895.00 ft (KB) To 3922.00 ft (KB) (TVD)**
 Total Depth: 3922.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 2076.00 ft (KB)
 2066.00 ft (CF)
 KB to GR/CF: 10.00 ft

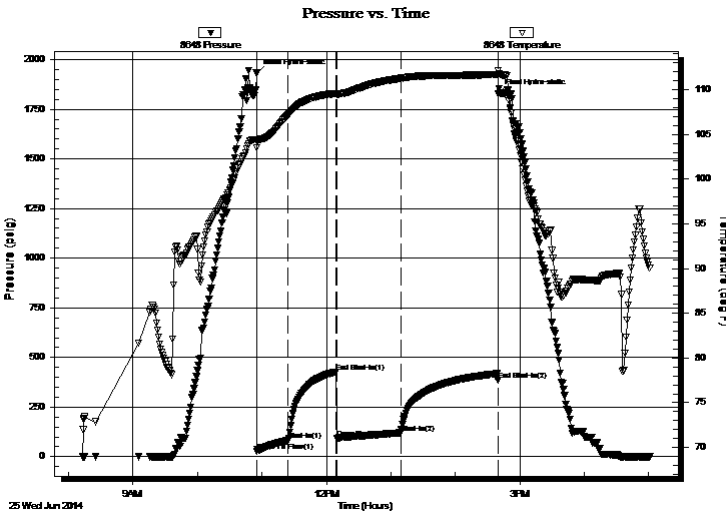
Serial #: 8648

Inside

Press@RunDepth: 119.81 psig @ 3898.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.25 End Date: 2014.06.25 Last Calib.: 2014.06.25
 Start Time: 08:13:05 End Time: 17:01:00 Time On Btm: 2014.06.25 @ 10:55:00
 Time Off Btm: 2014.06.25 @ 14:39:45

TEST COMMENT: 30 - IF- 7" blow
 45 - IS- Surface return
 60 - FF- B.O.B. in 33 minutes
 90 - FS- 1/2" return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1930.71	104.44	Initial Hydro-static
1	27.59	103.52	Open To Flow (1)
30	81.64	107.18	Shut-In(1)
75	427.67	109.57	End Shut-In(1)
75	92.63	109.47	Open To Flow (2)
134	119.81	111.26	Shut-In(2)
225	386.32	111.66	End Shut-In(2)
225	1826.90	112.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW, 20%M, 80%W	0.61
62.00	SOCWM, 10%O, 20%W, 70%M	0.36
62.00	VSOCM, 5%O, 95%M	0.87
15.00	HOCM, 50%O, 50%M	0.21
0.00	169' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc
1700 N. Waterfront Pkwy
Bldg 300 B
Wichita KS, 67206
ATTN: Leah Kasten

27-21s-19w Pawnee,KS
Wood Trust #2
Job Ticket: 54061 **DST#: 2**
Test Start: 2014.06.25 @ 08:13:00

Tool Information

Drill Pipe:	Length: 3714.00 ft	Diameter: 3.80 inches	Volume: 52.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 52.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3895.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3867.00	
Shut In Tool	5.00			3872.00	
Hydraulic tool	5.00			3877.00	
Jars	5.00			3882.00	
Safety Joint	3.00			3885.00	
Packer	5.00			3890.00	29.00 Bottom Of Top Packer
Packer	5.00			3895.00	
Perforations	3.00			3898.00	
Recorder	0.00	8648	Inside	3898.00	
Recorder	0.00	8940	Outside	3898.00	
Perforations	21.00			3919.00	
Bullnose	3.00			3922.00	27.00 Bottom Packers & Anchor

Total Tool Length: 56.00



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TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc
1700 N. Waterfront Pkwy
Bldg 300 B
Wichita KS, 67206
ATTN: Leah Kasten

27-21s-19w Pawnee,KS
Wood Trust #2
Job Ticket: 54061 **DST#: 2**
Test Start: 2014.06.25 @ 08:13:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	49000 ppm
Viscosity: sec/qt	Cushion Volume: bbl		
Water Loss: 9.15 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MW, 20%M, 80%W	0.610
62.00	SOCWM, 10%O, 20%W, 70%M	0.360
62.00	VSOCM, 5%O, 95%M	0.870
15.00	HOCM, 50%O, 50%M	0.210
0.00	169' of G.I.P.	0.000

Total Length: 263.00 ft Total Volume: 2.050 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Salinity: .12 @ 88 Degrees = 49,000

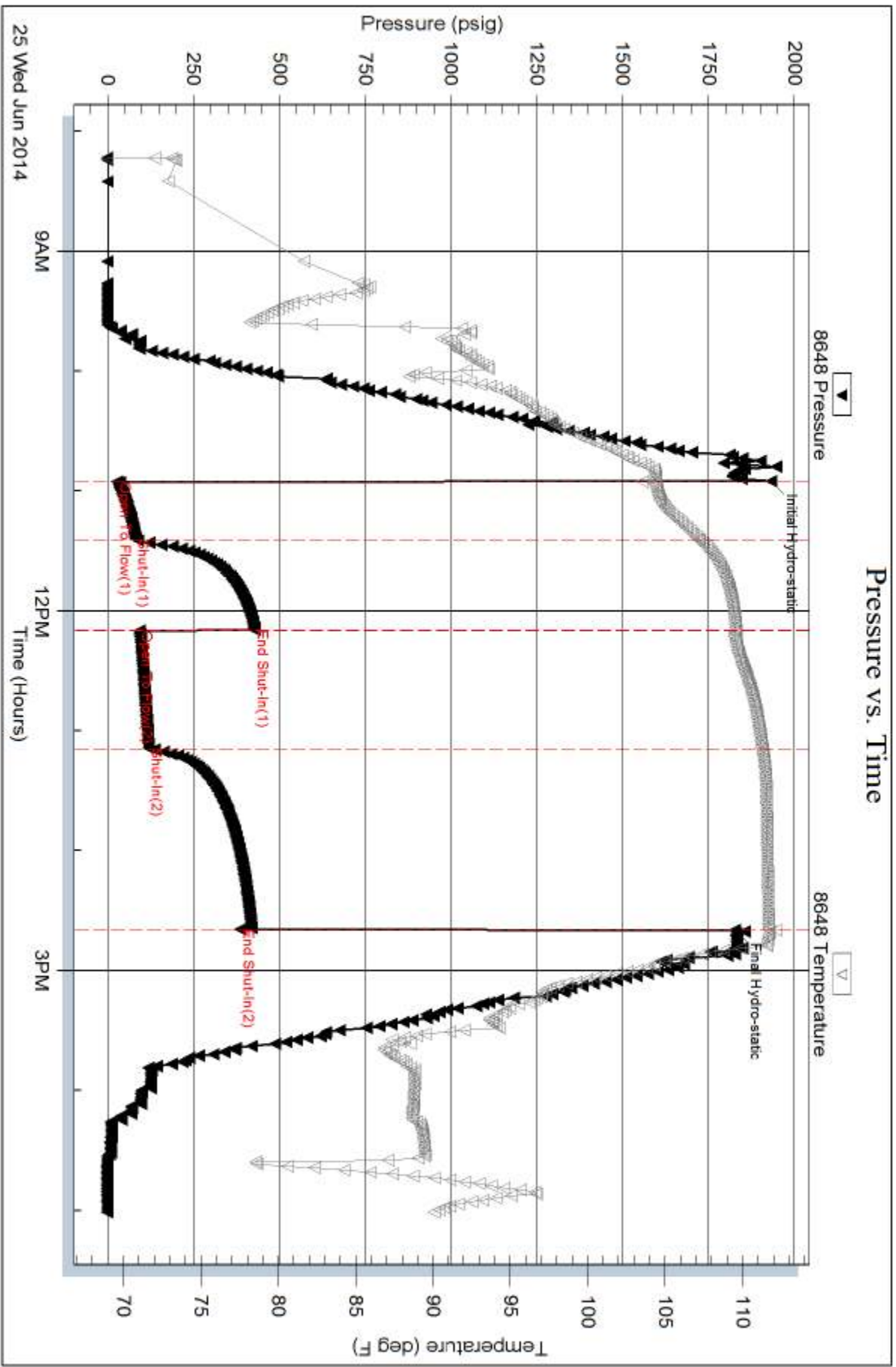
Serial #: 8648

Inside

CMX Inc

Wood Trust #2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54061

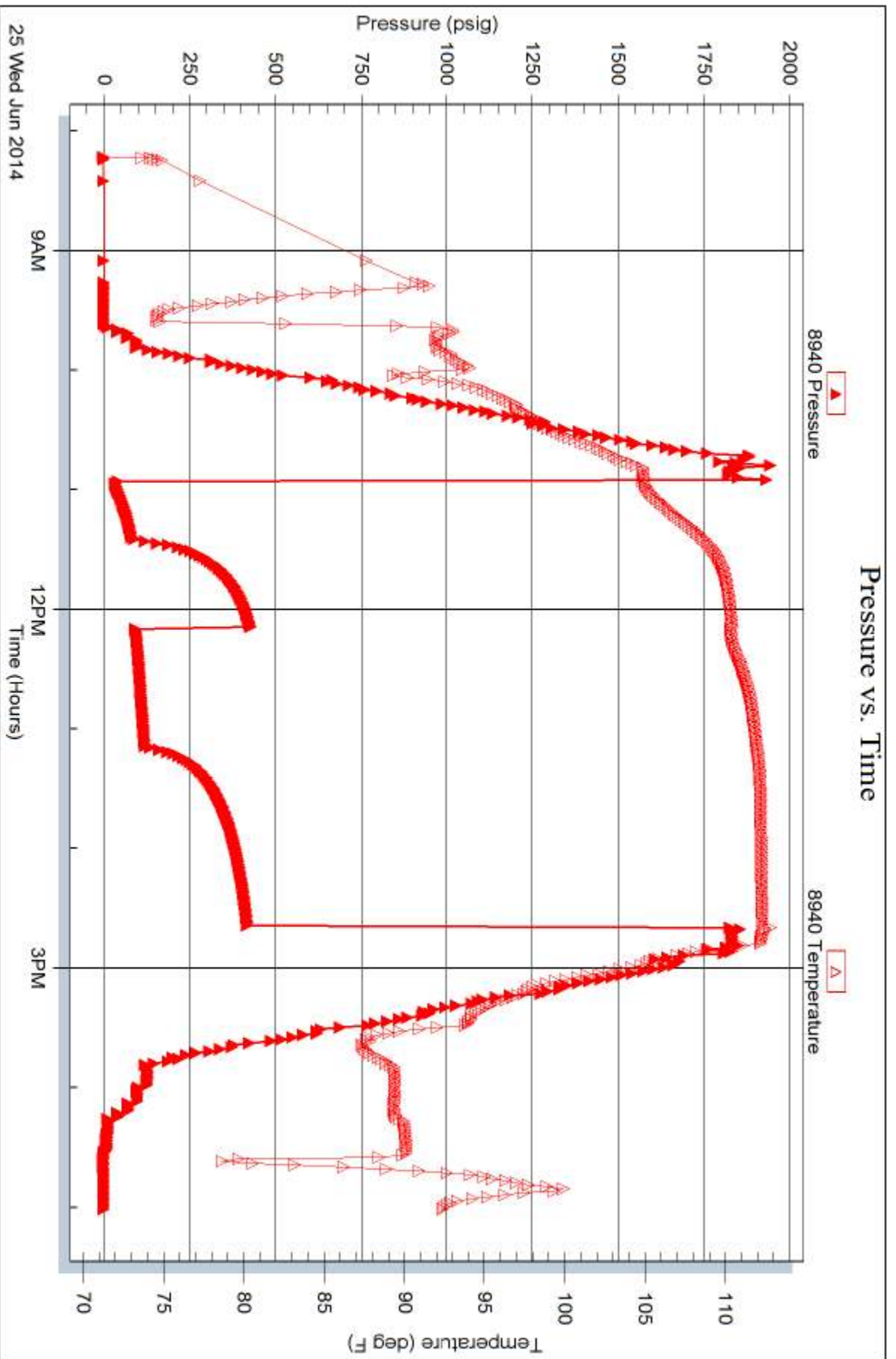
Printed: 2014.06.27 @ 11:04:00

Serial #: 8940

Outside CMX Inc

Wood Trust #2

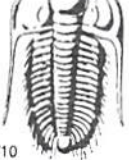
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54061

Printed: 2014.06.27 @ 11:04:00



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54060

Well Name & No. Woods Trust #2 Test No. 1 Date 6-24-14
 Company CMX Inc Elevation 2076 KB 2066 GL
 Address 1700 N. Waterfront Pkwy Bldg 300 B, Wichita KS, 67206
 Co. Rep / Geo. Leah Kasten Rig Duke #7
 Location: Sec. 27 Twp. 21s Rge. 19w Co. Pawnee State KS

Interval Tested 3804-3832 Zone Tested KC "Drum"
 Anchor Length 28' Drill Pipe Run 3620' Mud Wt. 8.6
 Top Packer Depth 3799 Drill Collars Run 180' Vis _____
 Bottom Packer Depth 3804 Wt. Pipe Run — WL 9.2
 Total Depth 3832 Chlorides 3,100 ppm System LCM _____

Blow Description IF- 1/4" in 7 minutes, died off
ISI- No return
FF- No blow
FSI- No return

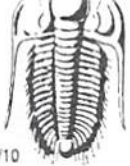
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1912</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1338</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1406</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1755</u>
(D) Initial Shut-In <u>749</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1955</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2155</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>115RT</u> <u>178.25</u>	Comments <u>Hotel</u>
(G) Final Shut-In <u>723</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1858</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1653.25</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1653.25</u>	

Approved By _____ Our Representative Cody Bledorn

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54061

Well Name & No. Woods Trust #2 Test No. 2 Date 6-25-14
 Company CMX INC Elevation 2076 KB 2066 GL
 Address 1700 N. Waterfront Pkwy Bldg 300 B, Wichita KS, 67206
 Co. Rep / Geo. Leah Kasten Rig Duke #7
 Location: Sec. 27 Twp. 21s Rge. 19w Co. Pawnee State KS

Interval Tested 3895-3922 Zone Tested Swope
 Anchor Length 27' Drill Pipe Run 3714' Mud Wt. 8.6
 Top Packer Depth 3890 Drill Collars Run 180' Vis _____
 Bottom Packer Depth 3895 Wt. Pipe Run - WL 9.2
 Total Depth 3922 Chlorides 3,100 ppm System LCM _____

Blow Description IF - 7" blow
ISI - Surface return
FF - B.O.B. in 33 minutes
FSI - 1/2" Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>MW</u>			<u>80</u>	<u>20</u>
<u>62</u>	<u>SOCWM</u>	<u>10</u>	<u>20</u>	<u>70</u>	<u>0</u>
<u>62</u>	<u>VSOCM</u>	<u>5</u>		<u>95</u>	<u>0</u>
<u>15</u>	<u>HOCM</u>	<u>50</u>		<u>50</u>	<u>0</u>
	<u>169' of G.I.P.</u>				

Rec Total 263' BHT 112° Gravity _____ API RW .12 @ 88 °F Chlorides 49,000 ppm

(A) Initial Hydrostatic <u>1930</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0800</u>
(B) First Initial Flow <u>27</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0813</u>
(C) First Final Flow <u>81</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1055</u>
(D) Initial Shut-In <u>427</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1440</u>
(E) Second Initial Flow <u>92</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1702</u>
(F) Second Final Flow <u>119</u>	<input checked="" type="checkbox"/> Mileage <u>115RT</u> 356.50	Comments <u>Hotel</u>
(G) Final Shut-In <u>386</u>	<input type="checkbox"/> Sampler _____	<u>load tools on 6/24/14 @ 5:20pm</u>
(H) Final Hydrostatic <u>1826</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby <u>over 24hrs</u>	Total <u>1831.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1831.50</u>	

Approved By _____ Our Representative Cody Bloodorn

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.