



## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co. Inc.**

PO Box 124  
Kiowa, KS 67070

ATTN: David Barker

### **Millie B #1**

### **16-35s-11w Barber,KS**

Start Date: 2012.01.31 @ 00:48:09

End Date: 2012.01.31 @ 08:48:39

Job Ticket #: 45728                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co. Inc.

**16-35s-11w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Millie B #1**

Job Ticket: 45728

**DST#: 1**

ATTN: David Barker

Test Start: 2012.01.31 @ 00:48:09

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:45:24

Time Test Ended: 08:48:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 5335.00 ft (KB) To 5360.00 ft (KB) (TVD)**

Reference Elevations: 1325.00 ft (KB)

Total Depth: 5360.00 ft (KB) (TVD)

1317.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8167**

**Inside**

Press @ Run Depth: 284.37 psig @ 5336.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.31

End Date:

2012.01.31

Last Calib.:

2012.01.31

Start Time: 00:48:10

End Time:

08:48:39

Time On Btm:

2012.01.31 @ 02:43:09

Time Off Btm:

2012.01.31 @ 05:34:54

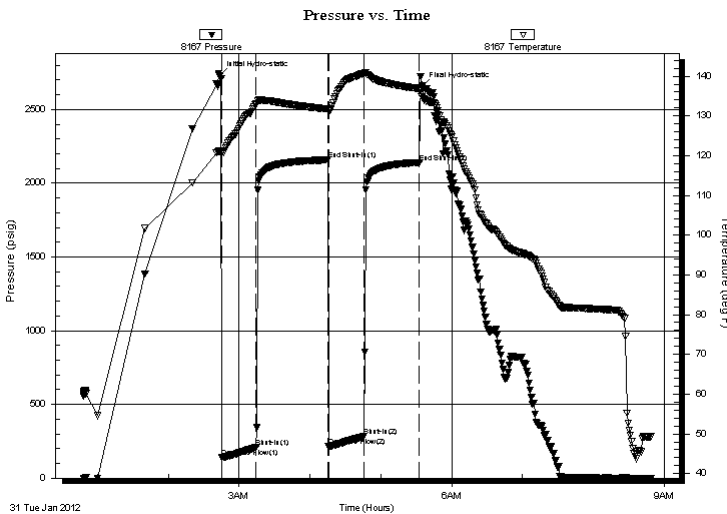
**TEST COMMENT:** IF: Fair blow . Increase to 13".

IS: No blow .

FF: Weak to fair blow . Increase to 9".

FS: No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2730.91	121.10	Initial Hydro-static
3	138.93	120.78	Open To Flow (1)
32	208.14	132.94	Shut-In(1)
92	2158.32	131.77	End Shut-In(1)
93	213.23	131.33	Open To Flow (2)
123	284.37	140.67	Shut-In(2)
170	2141.29	136.88	End Shut-In(2)
172	2652.26	134.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	MW w oil specs 6%m 94%w	1.47
125.00	MW w oil specs 41%m 59%w	1.75
215.00	Heavy mud w oil specs	3.02

## Gas Rates

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





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TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co. Inc.

**16-35s-11w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Millie B #1**

Job Ticket: 45728

**DST#: 1**

ATTN: David Barker

Test Start: 2012.01.31 @ 00:48:09

## Tool Information

Drill Pipe:	Length: 5207.00 ft	Diameter: 3.80 inches	Volume: 73.04 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 73.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	5335.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Hit very tight hole or bridge @ approx. 3200 ft. Used entire string weight working up & down several times for 180 ft. to free up. Got quite rough with it. Came very close to aborting test.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5308.00	
Shut in tool	5.00			5313.00	
HMV	5.00			5318.00	
Jars	5.00			5323.00	
Safety Joint	3.00			5326.00	
Packer	4.00			5330.00	28.00 Bottom Of Top Packer
Packer	5.00			5335.00	
Stubb	1.00			5336.00	
Recorder	0.00	8167	Inside	5336.00	
Recorder	0.00	8370	Outside	5336.00	
Perforations	19.00			5355.00	
Bullnose	5.00			5360.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chieftain Oil Co. Inc.

**16-35s-11w Barber,KS**

PO Box 124  
Kiowa, KS 67070

**Millie B #1**

Job Ticket: 45728

**DST#: 1**

ATTN: David Barker

Test Start: 2012.01.31 @ 00:48:09

## 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:

90000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	MW w oil specs 6%m 94%w	1.465
125.00	MW w oil specs 41%m 59%w	1.753
215.00	Heavy mud w oil specs	3.016

Total Length: 525.00 ft      Total Volume: 6.234 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

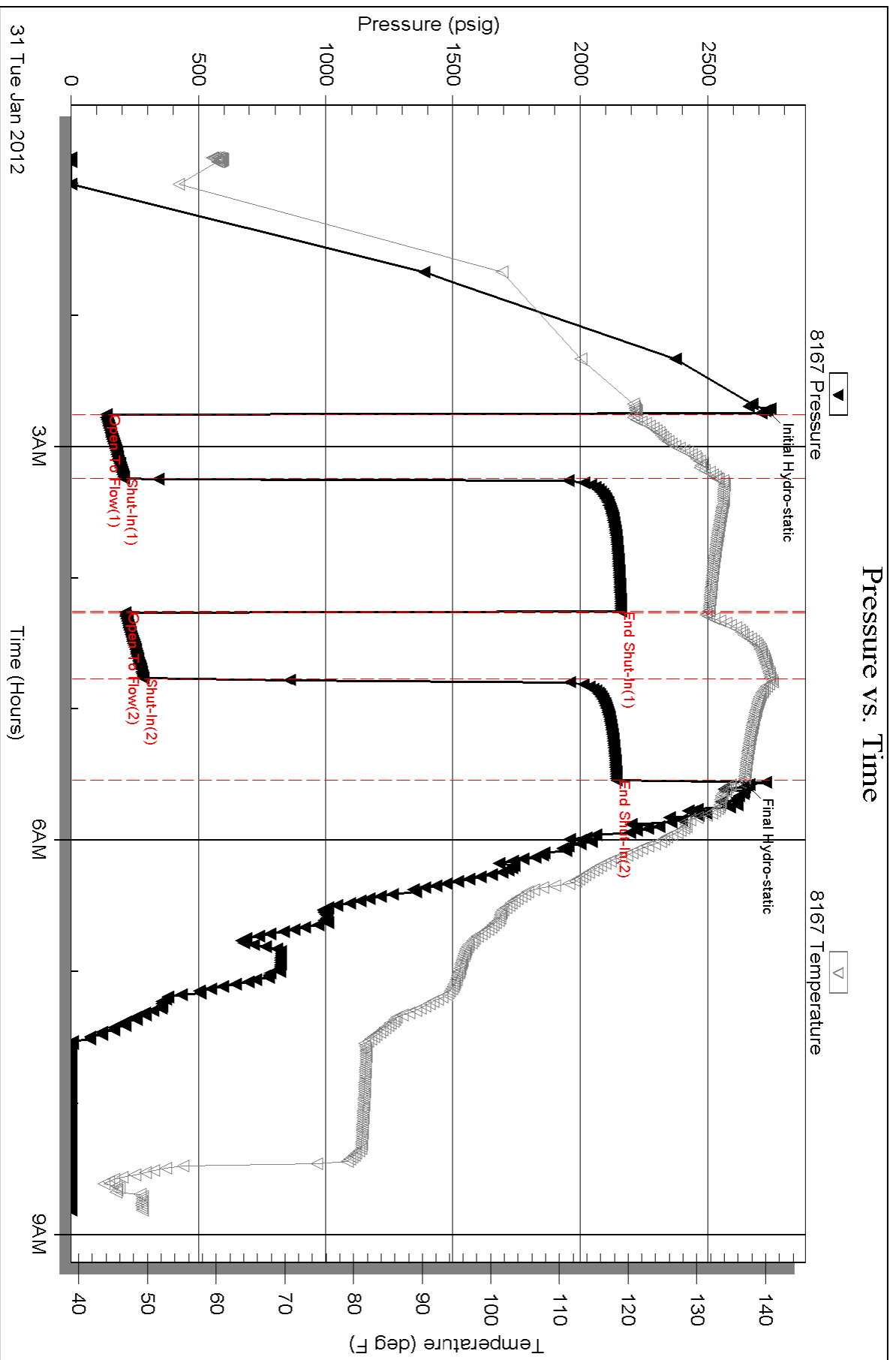
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .12 @ 51 deg

# Pressure vs. Time

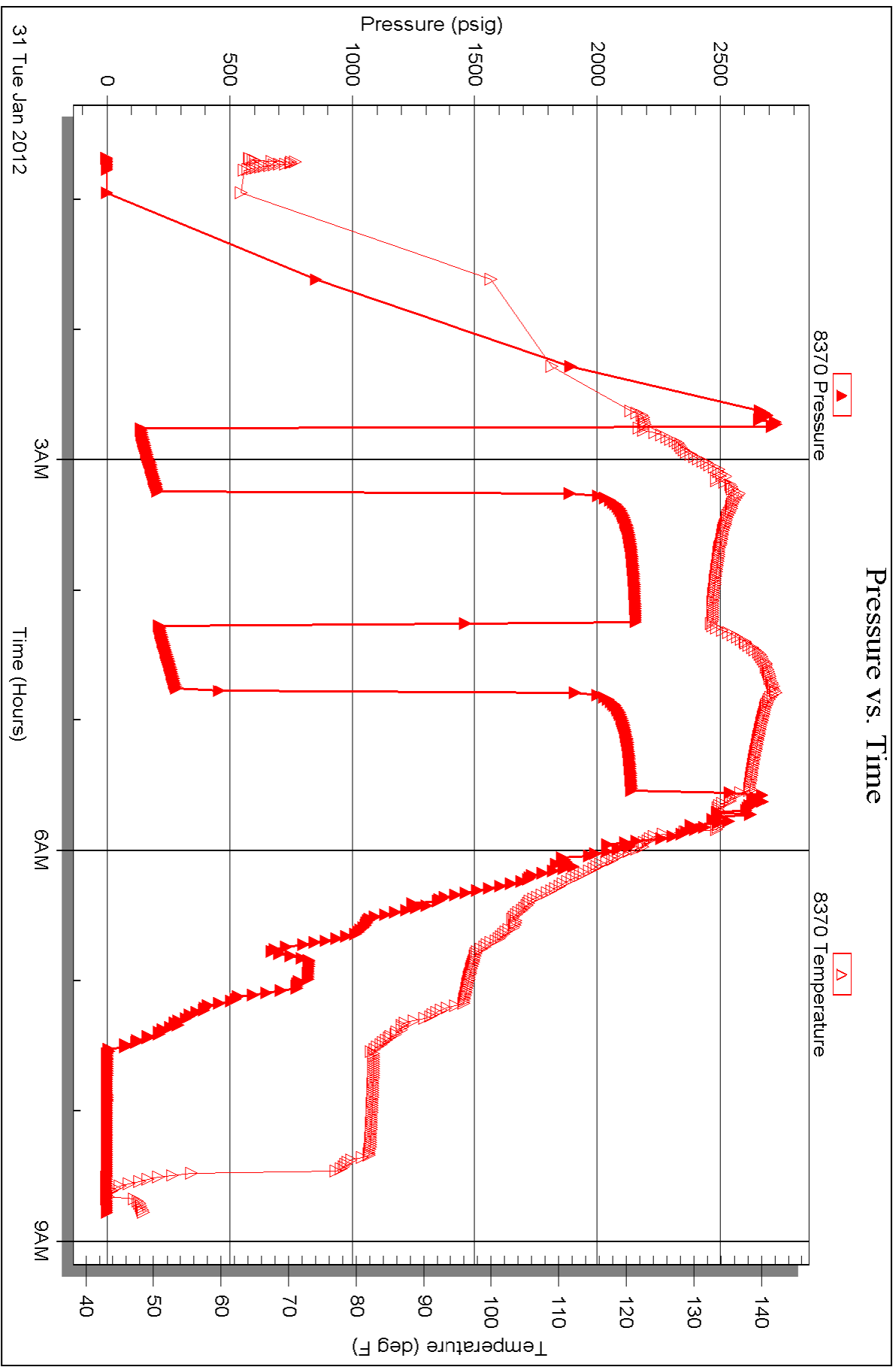


Serial #: 8370

Outside Chieftain Oil Co. Inc.

Miller B #1

DST Test Number: 1





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 06 2012  
BY: \_\_\_\_\_

## Test Ticket

NO. 45728

Well Name & No. MILLIE B#1 Test No. 1 Date 1-31-12  
 Company CHIEFTAIN OIL CO. INC. Elevation 1325 KB 1317 GL  
 Address 605 S. 6TH, P.O. Box 124, KEOWA KS. 67070  
 Co. Rep / Geo. DAVID BARKER Rig FOSSIL DRUG. #2  
 Location: Sec. 16 Twp. 35S Rge. 11W Co. BARBER State KS.

Interval Tested 5335 - 5360' Zone Tested SIMPSON  
 Anchor Length 25' Drill Pipe Run 5207 Mud Wt. 9.4  
 Top Packer Depth 5330' Drill Collars Run 124 Vis 65  
 Bottom Packer Depth 5335' Wt. Pipe Run 0 WL 8.0  
 Total Depth 5360' Chlorides 3,000 ppm System LCM 7#  
 Blow Description IF: Fair blow. Increase to 13". ISI: No blow.

FE: Weak to fair blow. Increase to 9". FSI: No blow. COMMENT: Hit

very tight hole on bridge @ approx. 3200'. Used entire str. weight working up & down several times. for 180 ft. to free up. Got quite rough with it. Came very close to aborting test.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>215</u>	Feet of <u>Heavy mud w oil specs.</u>				
Rec <u>125</u>	Feet of <u>MW w oil specs</u>			<u>59</u>	<u>41</u>
Rec <u>185</u>	Feet of <u>MW w oil specs.</u>			<u>94</u>	<u>6</u>
Rec _____	Feet of _____				

Rec Total 525 BHT \_\_\_\_\_ Gravity N/A API RW 12 @ 51 °F Chlorides 90,000 ppm  
 (A) Initial Hydrostatic 2131  Test 1325' T-On Location 2338  
 (B) First Initial Flow 139  Jars 250' T-Started 0048  
 (C) First Final Flow 208  Safety Joint 75' T-Open 0245  
 (D) Initial Shut-In 2158  Circ Sub \_\_\_\_\_ T-Pulled 0535  
 (E) Second Initial Flow 213  Hourly Standby \_\_\_\_\_ T-Out 0848  
 (F) Second Final Flow 284  Mileage 115 1161' Comments See ~~\_\_\_\_\_~~ Tool  
 (G) Final Shut-In 2141  Sampler \_\_\_\_\_ Comments in ATMS 2000.  
 (H) Final Hydrostatic 2652  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1811  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1811'

Approved By [Signature] Our Representative Cory P. [Signature]

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