



## DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Company, LLC**

100 S. Main  
Suite 420  
Wichita, KS 67202-3737

ATTN: Tim Hellman

**2-35s-12w-BARBER-KS**

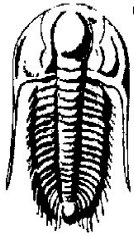
**KOPPITZ #1**

Start Date: 2010.08.04 @ 11:26:00

End Date: 2010.08.04 @ 21:42:00

Job Ticket #: 38779                      DST #: 2

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
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**TRILOBITE  
TESTING, INC**

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Lotus Operating Company, LLC

**KOPPITZ #1**

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Suite 420  
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**2-35s-12w-BARBER-KS**

Job Ticket: 38779 **DST#: 2**

Test Start: 2010.08.04 @ 11:26:00

## GENERAL INFORMATION:

Formation: **MISENER SAND**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:23:50

Time Test Ended: 21:42:00

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

**Interval: 5117.00 ft (KB) To 5137.00 ft (KB) (TVD)**

Reference Elevations: 1396.00 ft (KB)

Total Depth: 5137.00 ft (KB) (TVD)

1384.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 8648**

**Inside**

Press@RunDepth: 96.06 psig @ 5118.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.04

End Date:

2010.08.04

Last Calib.: 2010.08.04

Start Time: 11:26:05

End Time:

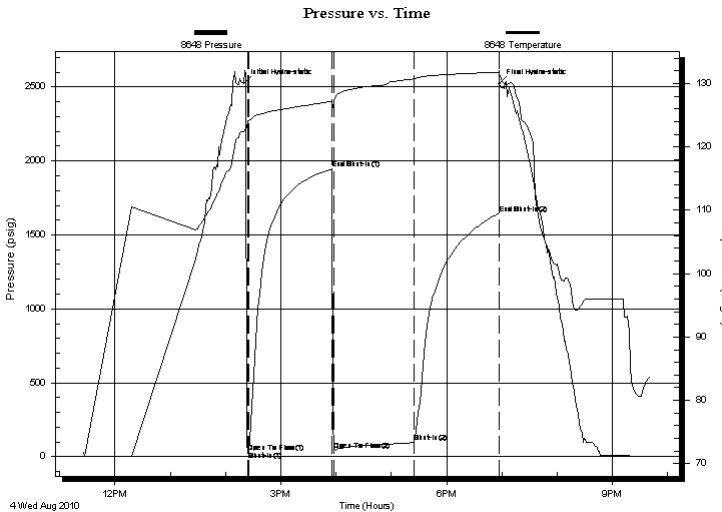
21:42:00

Time On Btm: 2010.08.04 @ 14:20:00

Time Off Btm: 2010.08.04 @ 18:57:30

**TEST COMMENT:** IF: Strong blow , BOB 20 seconds.  
IS: Bled off, no blow back.  
FF: Strong blow , BOB 10 seconds.  
FSI: Bled off, w eak surface blow back.

## PRESSURE SUMMARY



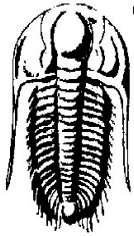
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2525.47	122.43	Initial Hydro-static
4	31.46	124.10	Open To Flow (1)
6	36.66	124.24	Shut-In(1)
96	1944.43	127.19	End Shut-In(1)
98	41.92	127.24	Open To Flow (2)
186	96.06	130.76	Shut-In(2)
277	1645.59	131.82	End Shut-In(2)
278	2520.49	131.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW 10%M 90%W	0.30
60.00	HGCW&OCM 20%G 15%W 20%O 45%M	0.30
60.00	HGCWOM 40%G 15%W 20%O 25%M	0.30
35.00	HGCWOM 20%G 8%W 32%O 40%M	0.49
0.00	66,000 ppm chlorides	0.00

## Gas Rates

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



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**FLUID SUMMARY**

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**2-35s-12w-BARBER-KS**

Job Ticket: 38779 **DST#: 2**

Test Start: 2010.08.04 @ 11:26:00

## 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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCW 10%M 90%W	0.295
60.00	HGCW&OCM 20%G 15%W 20%O 45%M	0.295
60.00	HGCWOM 40%G 15%W 20%O 25%M	0.295
35.00	HGCWOM 20%G 8%W 32%O 40%M	0.491
0.00	66,000 ppm chlorides	0.000

Total Length: 215.00 ft      Total Volume: 1.376 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

