



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

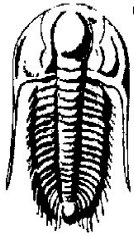
KOPPITZ #1

Start Date: 2010.08.02 @ 20:04:00

End Date: 2010.08.03 @ 09:16:00

Job Ticket #: 38778 DST #: 1

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

DRILL STEM TEST REPORT

Lotus Operating Company, LLC

KOPPITZ #1

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Job Ticket: 38778 **DST#: 1**

Test Start: 2010.08.02 @ 20:04:00

GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:42:40

Time Test Ended: 09:16:00

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: 4775.00 ft (KB) To 4820.00 ft (KB) (TVD)

Total Depth: 4820.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1396.00 ft (KB)

1384.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8648 Inside

Press@RunDepth: 36.48 psig @ 4776.00 ft (KB)

Start Date: 2010.08.02

End Date: 2010.08.03

Start Time: 20:04:05

End Time: 09:16:00

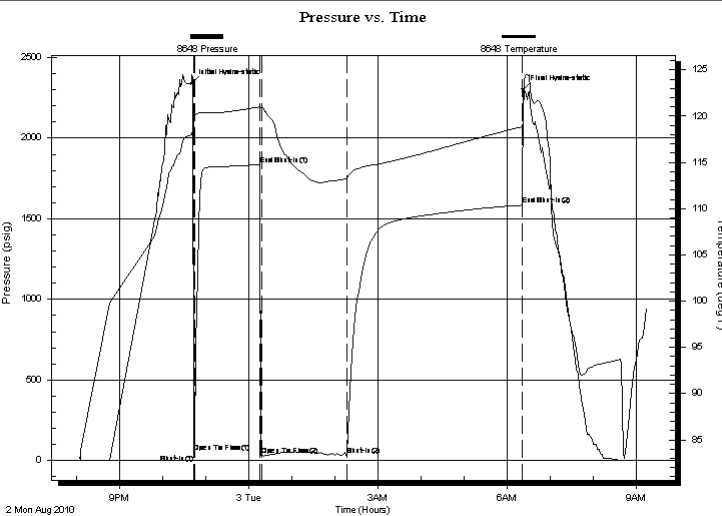
Capacity: 8000.00 psig

Last Calib.: 2010.08.03

Time On Btm: 2010.08.02 @ 22:39:50

Time Off Btm: 2010.08.03 @ 06:22:10

TEST COMMENT: IF: Strong blow, BOB 30 seconds.
IS: Bled off, no blow back.
FF: Strong blow, BOB immediately, GTS 4 minutes. Guage gas.
FSI: Bled off, no blow back.



PRESSURE SUMMARY

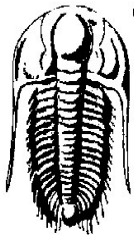
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2337.27	117.98	Initial Hydro-static
3	54.14	117.97	Open To Flow (1)
5	38.73	119.88	Shut-In(1)
96	1835.15	121.02	End Shut-In(1)
98	31.32	120.87	Open To Flow (2)
217	36.48	113.25	Shut-In(2)
462	1584.83	118.88	End Shut-In(2)
463	2301.67	119.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	G&OCM 20%g 10%o 70%m	0.25
50.00	HGCMO 30%g 30%m 40%o	0.25

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	11.00	40.30
Last Gas Rate	0.25	5.00	30.78
Max. Gas Rate	0.25	24.00	60.92



**TRILOBITE
TESTING, INC**

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FLUID SUMMARY

Lotus Operating Company, LLC

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Job Ticket: 38778 **DST#: 1**

Test Start: 2010.08.02 @ 20:04:00

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

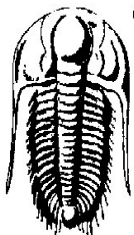
Length ft	Description	Volume bbl
50.00	G&OCM 20%g 10%o 70%m	0.246
50.00	HGCMO 30%g 30%m 40%o	0.246

Total Length: 100.00 ft Total Volume: 0.492 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



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GAS RATES

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Job Ticket: 38778 **DST#: 1**

Test Start: 2010.08.02 @ 20:04:00

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	11.00	40.30
2	10	0.25	11.00	40.30
2	20	0.25	20.00	54.57
2	30	0.25	23.00	59.33
2	40	0.25	24.00	60.92
2	50	0.25	23.00	59.33
2	60	0.25	22.00	57.75
2	70	0.25	20.00	54.57
2	80	0.25	17.00	49.81
2	90	0.25	14.00	45.05
2	100	0.25	11.00	40.30
2	110	0.25	8.00	35.54
2	120	0.25	5.00	30.78

Pressure vs. Time

