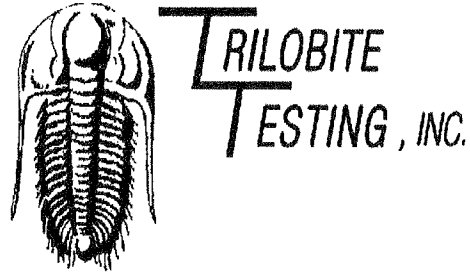


15-007-23368

13-34s-13w

Ind



DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating CO. LLC**

125 N Maket STE 1000
Wichita KS 67202

ATTN: Bill Klaver

13 34s 13w Barber KS

Cook B #1

Start Date: 2008.11.03 @ 22:23:16

End Date: 2008.11.04 @ 09:01:35

Job Ticket #: 33596 DST #: 1

KCC
FEB 25 2009
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 25 2009

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Woolsey Operating CO. LLC

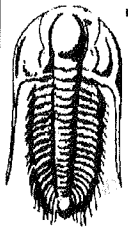
Cook B #1

13 34s 13w Barber KS

DST # 1

Mississippi

2008.11.03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating CO. LLC

Cook B #1

125 N Maket STE 1000
Wichita KS 67202

13 34s 13w Barber KS

ATTN: Bill Klaver

Job Ticket: 33596

DST#: 1

Test Start: 2008.11.03 @ 22:23:16

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:43:36

Time Test Ended: 09:01:35

Test Type: Conventional Bottom Hole

Tester: Kevin Taylor

Unit No: 43

Interval: **4768.00 ft (KB) To 4860.00 ft (KB) (TVD)**

Total Depth: 4860.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1630.00 ft (KB)

1616.00 ft (CF)

KB to GR/CF: 14.00 ft

Serial #: 6799

Inside

Press@RunDepth: 47.03 psig @ 4769.00 ft (KB)

Start Date: 2008.11.03

End Date:

2008.11.04

Start Time: 22:23:18

End Time:

09:01:35

Capacity: 7000.00 psig

Last Calib.: 2008.11.04

Time On Btm: 2008.11.04 @ 01:42:46

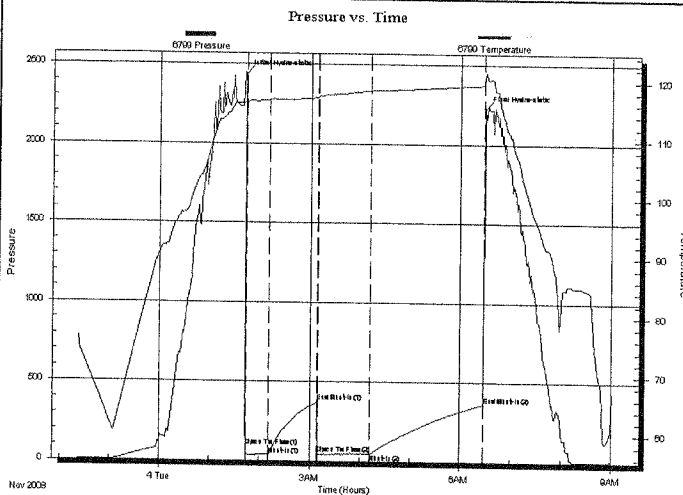
Time Off Btm: 2008.11.04 @ 06:28:36

TEST COMMENT: I.F. Strong Blow BOB 1 Min

I.S.I. Bled Off 5 Min No Blow

F.F. Strong Blow BOB Immediately

F.S.I. Bled Off 5 Min No Blow



PRESSURE SUMMARY

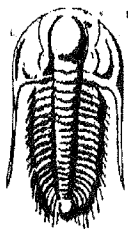
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2437.35	116.30	Initial Hydro-static
1	91.48	115.76	Open To Flow (1)
29	37.70	116.73	Shut-In (1)
87	373.24	117.16	End Shut-In (1)
87	50.29	117.30	Open To Flow (2)
149	47.03	118.34	Shut-In (2)
286	359.90	119.40	End Shut-In (2)
286	2225.34	120.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud	0.29

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating CO. LLC

Cook B #1

125 N Maket STE 1000
Wichita KS 67202

13 34s 13w Barber KS

Job Ticket: 33596

DST#: 1

ATTN: Bill Klaver

Test Start: 2008.11.03 @ 22:23:16

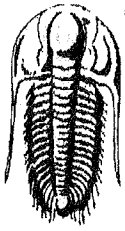
Tool Information

Drill Pipe:	Length: 4397.00 ft	Diameter: 3.88 inches	Volume: 64.30 bbl	Tool Weight: 2100.00 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: 354.00 ft	Diameter: 2.75 inches	Volume: 2.60 bbl	Weight to Pull Loose: 120000.0 lb
			Total Volume: 66.90 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 92000.00 lb
Depth to Top Packer:	4768.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4745.00	
Hydraulic tool	5.00			4750.00	
Jars	5.00			4755.00	
Safety Joint	3.00			4758.00	
Packer	5.00			4763.00	28.00 Bottom Of Top Packer
Packer	5.00			4768.00	
Stubb	1.00			4769.00	
Recorder	0.00	8352	Inside	4769.00	
Recorder	0.00	6799	Inside	4769.00	
Perforations	5.00			4774.00	
Change Over Sub	1.00			4775.00	
Drill Pipe	62.00			4837.00	
Change Over Sub	1.00			4838.00	
Perforations	19.00			4857.00	
Bullnose	3.00			4860.00	92.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating CO. LLC

Cook B #1

125 N Maket STE 1000
Wichita KS 67202

13 34s 13w Barber KS

Job Ticket: 33596

DST#: 1

ATTN: Bill Klaver

Test Start: 2008.11.03 @ 22:23:16

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud	0.294

Total Length: 40.00 ft

Total Volume: 0.294 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

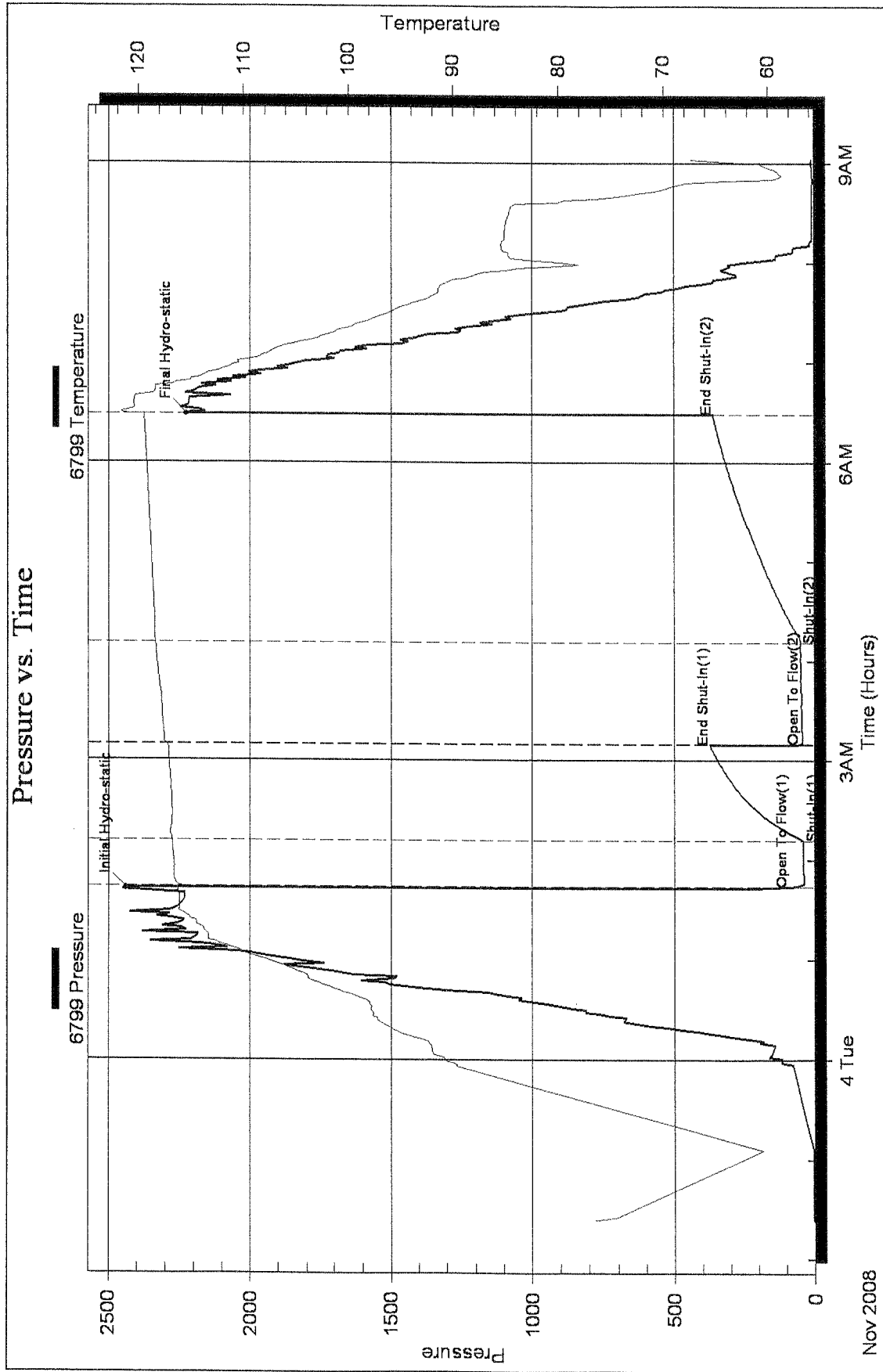
Serial #:

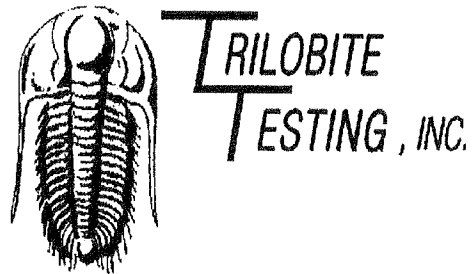
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating CO. LLC**

125 N Maket STE 1000
Wichita KS 67202

ATTN: Bill Klaver

13 34s 13w Barber KS

Cook B #1

Start Date: 2008.11.04 @ 20:05:55

End Date: 2008.11.05 @ 07:47:35

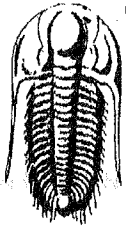
Job Ticket #: 33957 DST #: 2

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KANSAS CORPORATION COMMISSION

FEB 25 2009

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating CO, LLC

Cook B #1

125 N Maket STE 1000
Wichita KS 67202

13 34s 13w Barber KS

ATTN: Bill Klaver

Job Ticket: 33957

DST#: 2

Test Start: 2008.11.04 @ 20:05:55

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:50:45

Time Test Ended: 07:47:35

Test Type: Conventional Bottom Hole

Tester: Kevin Taylor

Unit No: 43

Interval: **4880.00 ft (KB) To 4906.00 ft (KB) (TVD)**

Total Depth: 4906.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1630.00 ft (KB)

1616.00 ft (CF)

KB to GR/CF: 14.00 ft

Serial #: 6799

Inside

Press@RunDepth: 26.07 psig @ 4881.00 ft (KB)

Start Date: 2008.11.04

End Date:

2008.11.05

Start Time: 20:05:57

End Time:

07:47:35

Capacity: 7000.00 psig

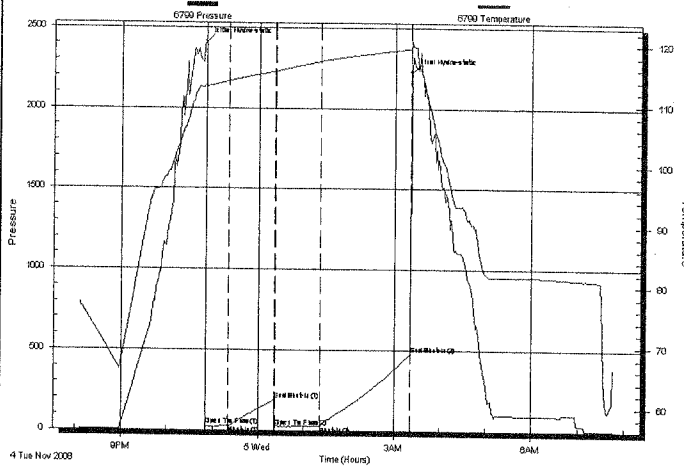
Last Calib.: 2008.11.05

Time On Btm: 2008.11.04 @ 22:50:05

Time Off Btm: 2008.11.05 @ 03:22:05

TEST COMMENT: I.F. Fair Blow Built To 9" In 30 Min
I.S.I. Bled Off 5 Min No Blow
F.F. Fair Blow Built To 8" In 60 Min
F.S.I. Bled Off 5 Mn Weak Blow Built To 1/4" In 1 Hour Never Died

Pressure vs. Time



PRESSURE SUMMARY

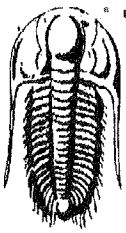
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2410.44	113.44	Initial Hydro-static
1	28.22	112.88	Open To Flow (1)
30	26.58	114.06	Shut-In(1)
91	188.54	115.68	End Shut-In(1)
92	21.02	115.63	Open To Flow(2)
151	26.07	117.34	Shut-In(2)
272	474.92	119.47	End Shut-In(2)
272	2225.02	120.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud	0.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating CO. LLC

Cook B #1

125 N Maket STE 1000
Wichita KS 67202

13 34s 13w Barber KS

Job Ticket: 33957

DST#: 2

ATTN: Bill Klaver

Test Start: 2008.11.04 @ 20:05:55

Tool Information

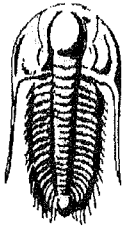
Drill Pipe:	Length: 4520.00 ft	Diameter: 3.88 inches	Volume: 66.10 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 354.00 ft	Diameter: 2.75 inches	Volume: 2.60 bbl	Weight to Pull Loose: 105000.0 lb
			Total Volume: 68.70 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 94000.00 lb
Depth to Top Packer:	4880.00 ft			Final 96000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4857.00	
Hydraulic tool	5.00			4862.00	
Jars	5.00			4867.00	
Safety Joint	3.00			4870.00	
Packer	5.00			4875.00	28.00 Bottom Of Top Packer
Packer	5.00			4880.00	
Stubb	1.00			4881.00	
Recorder	0.00	8352	Inside	4881.00	
Recorder	0.00	6799	Inside	4881.00	
Perforations	22.00			4903.00	
Bullnose	3.00			4906.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating CO. LLC

Cook B #1

125 N Maket STE 1000
Wichita KS 67202

13 34s 13w Barber KS

Job Ticket: 33957

DST#: 2

ATTN: Bill Klaver

Test Start: 2008.11.04 @ 20:05:55

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud	0.220

Total Length: 30.00 ft

Total Volume: 0.220 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

