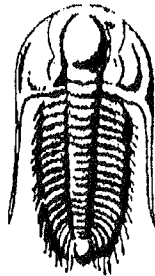


15-007-23425

6-34s-10w

MD



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Bill Klaver

6-34s-10w Barber KS

Jahay A # 1

Start Date: 2009.04.28 @ 01:32:56

End Date: 2009.04.28 @ 10:39:26

Job Ticket #: 32995 DST #: 1

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CONFIDENTIAL

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

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KCC WICHITA

Woolsey Operating Company, LLC

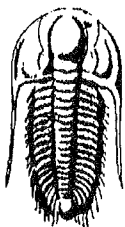
Jahay A # 1

6-34s-10w Barber KS

DST # 1

Pawnee

2009.04.28



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

Job Ticket: 32995

DST#: 1

ATTN: Bill Klaver

Test Start: 2009.04.28 @ 01:32:56

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:01:26

Time Test Ended: 10:39:26

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: **4508.00 ft (KB) To 4538.00 ft (KB) (TVD)**

Total Depth: 4538.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1429.00 ft (KB)

1418.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press@RunDepth: 7.14 psig @ 4509.00 ft (KB)

Start Date: 2009.04.28

End Date:

2009.04.28

Capacity: 7000.00 psig

Last Calib.: 2009.04.28

Start Time: 01:32:57

End Time:

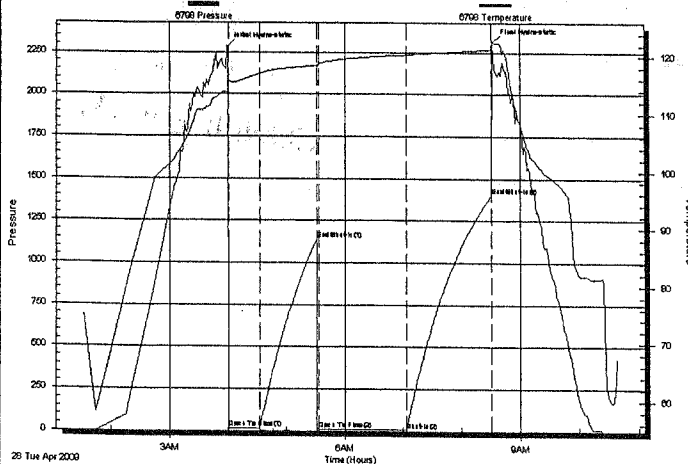
10:39:26

Time On Btm: 2009.04.28 @ 03:59:56

Time Off Btm: 2009.04.28 @ 08:32:26

TEST COMMENT: IF: Fair blow. B.O.B. in 7 1/2 mins.
ISI: No blow.
FF: Strong blow. B.O.B. immediately.
FSI: No blow.

Pressure vs. Time



PRESSURE SUMMARY

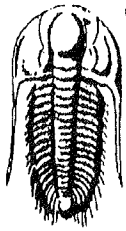
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.22	113.94	Initial Hydro-static
2	15.41	115.44	Open To Flow (1)
33	15.78	117.01	Shut-In (1)
91	1138.06	118.48	End Shut-In (1)
93	8.86	118.86	Open To Flow (2)
183	7.14	120.33	Shut-In (2)
271	1398.10	121.34	End Shut-In (2)
273	2312.22	122.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	SGCM 2%g 98%rn	0.01
0.00	3483' GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

Job Ticket: 32995

DST#: 1

ATTN: Bill Klaver

Test Start: 2009.04.28 @ 01:32:56

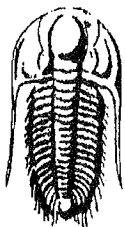
Tool Information

Drill Pipe:	Length: 4257.00 ft	Diameter: 3.80 inches	Volume: 59.71 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 62000.00 lb
		Total Volume: 60.91 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4508.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			4485.00	
Hydraulic tool	5.00			4490.00	
Jars	5.00			4495.00	
Safety Joint	3.00			4498.00	
Packer	5.00			4503.00	28.00 Bottom Of Top Packer
Packer	5.00			4508.00	
Stubb	1.00			4509.00	
Recorder	0.00	6798	Inside	4509.00	
Recorder	0.00	8367	Inside	4509.00	
Perforations	26.00			4535.00	
Bullnose	3.00			4538.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

Job Ticket: 32995

DST#: 1

ATTN: Bill Klaver

Test Start: 2009.04.28 @ 01:32:56

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 12.75 in³

Resistivity: 0.00 ohm.m

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	SGCM 2%g 98%m	0.010
0.00	3483' GIP	0.000

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

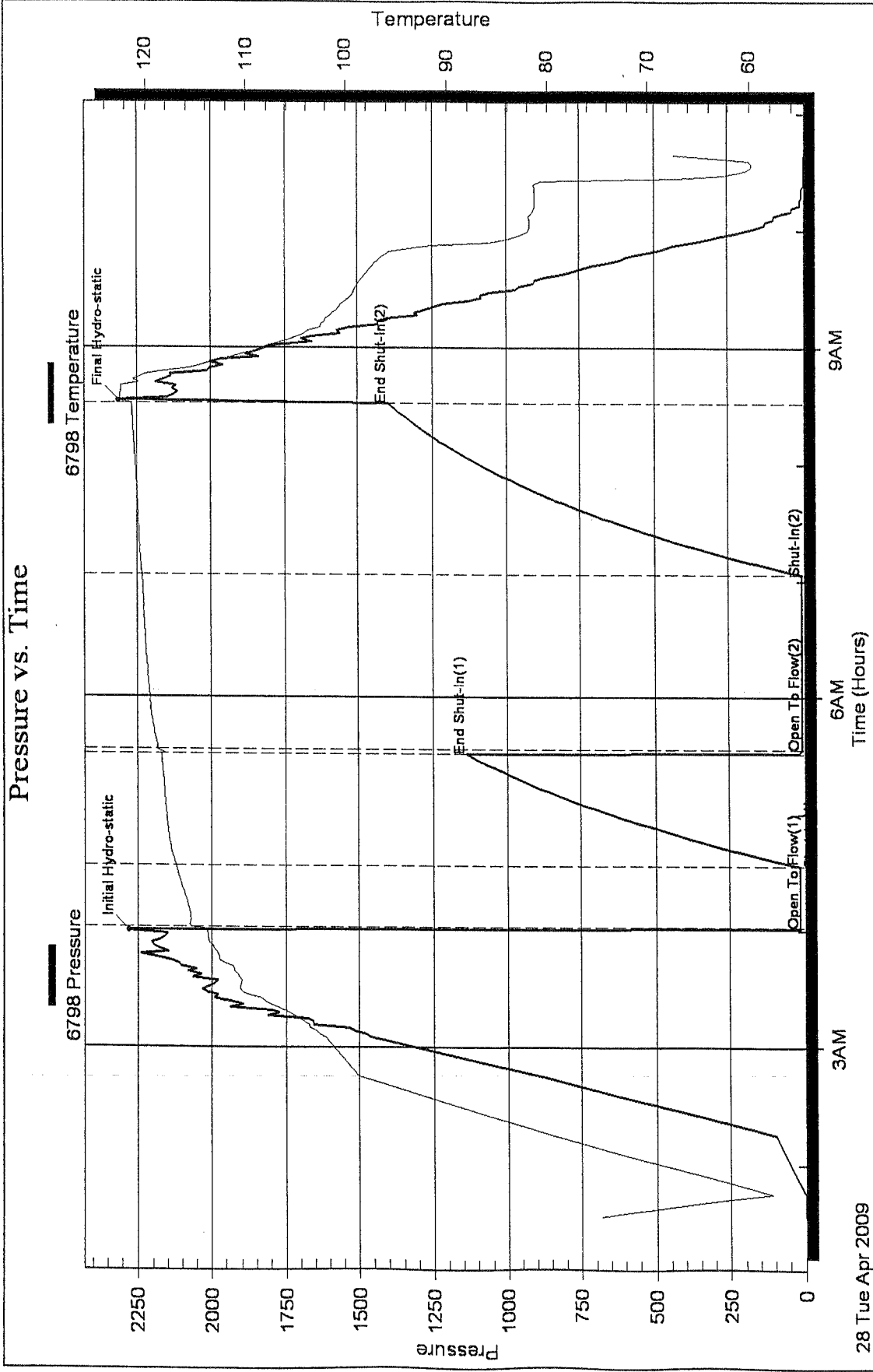
Serial #: none

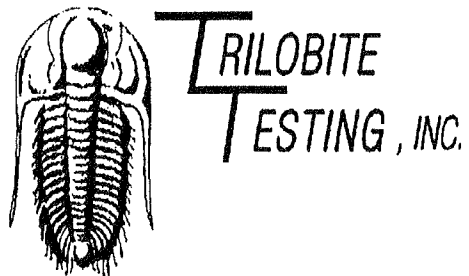
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Bill Klaver

6-34s-10w Barber KS

Jahay A # 1

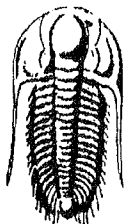
Start Date: 2009.04.28 @ 22:24:58

End Date: 2009.04.29 @ 09:14:58

Job Ticket #: 32996 DST #: 2

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

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TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

ATTN: Bill Klaver

Job Ticket: 32996

DST#: 2

Test Start: 2009.04.28 @ 22:24:58

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:43:58

Time Test Ended: 09:14:58

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: **4536.00 ft (KB) To 4644.00 ft (KB) (TVD)**

Total Depth: 4464.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1429.00 ft (KB)

1418.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press@RunDepth: 559.13 psig @ 4545.00 ft (KB)

Start Date: 2009.04.28

End Date:

2009.04.29

Capacity: 7000.00 psig

Last Calib.: 2009.04.29

Start Time: 22:24:59

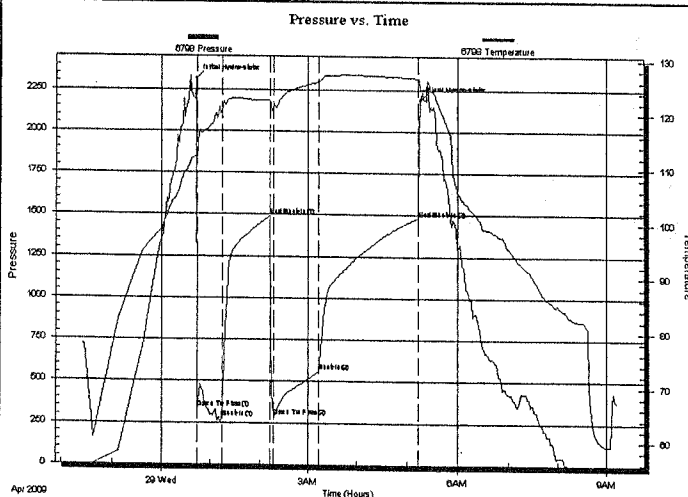
End Time:

09:14:58

Time On Btm: 2009.04.29 @ 00:42:28

Time Off Btm: 2009.04.29 @ 05:16:28

TEST COMMENT: IF: Strong blow. B.O.B. in 30 secs. GTS in 5 mins. (see gas flow report.)
IS: Strong surging blow. B.O.B. immediately then decreasing to surface.
FF: Strong blow. B.O.B. in 10 secs.
FS: Strong surgin



PRESSURE SUMMARY

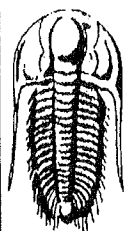
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.94	112.10	Initial Hydro-static
2	331.76	111.63	Open To Flow (1)
32	276.83	120.27	Shut-In(1)
91	1493.99	122.47	End Shut-In(1)
96	287.81	121.52	Open To Flow (2)
151	559.13	125.93	Shut-In(2)
272	1481.72	126.65	End Shut-In(2)
274	2190.89	124.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
17.00	HG&OCM 15%g 45%o 40%m	0.08
1483.00	Gsy Oil 30%g 70%o	18.74
0.00	3030' GIP	0.00
0.00	Grav. = 19 API @ 65 deg.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	9.00	157.85
Last Gas Rate	0.25	24.00	60.92
Max. Gas Rate	0.25	33.00	75.20



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

Job Ticket: 32996

DST#: 2

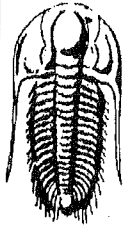
ATTN: Bill Klaver

Test Start: 2009.04.28 @ 22:24:58

Tool Information

Drill Pipe:	Length: 4288.00 ft	Diameter: 3.80 inches	Volume: 60.15 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 61.35 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4536.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.00 ft			
Tool Length:	136.00 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			4513.00	
Hydraulic tool	5.00			4518.00	
Jars	5.00			4523.00	
Safety Joint	3.00			4526.00	
Packer	5.00			4531.00	28.00 Bottom Of Top Packer
Packer	5.00			4536.00	
Stubb	1.00			4537.00	
Perforations	7.00			4544.00	
Change Over Sub	1.00			4545.00	
Recorder	0.00	6798	Inside	4545.00	
Recorder	0.00	8367	Inside	4545.00	
Blank Spacing	63.00			4608.00	
Change Over Sub	1.00			4609.00	
Perforations	32.00			4641.00	
Bullnose	3.00			4644.00	108.00 Bottom Packers & Anchor
Total Tool Length:		136.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

Job Ticket: 32996

DST#: 2

ATTN: Bill Klaver

Test Start: 2009.04.28 @ 22:24:58

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 12.74 in³

Resistivity: 0.00 ohm.m

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

18.5 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
17.00	HG&OCM 15%g 45%o 40%m	0.084
1483.00	Gsy Oil 30%g 70%o	18.744
0.00	3030' GIP	0.000
0.00	Grav. = 19 API @ 65 deg.	0.000

Total Length: 1500.00 ft

Total Volume: 18.828 bbl

Num Fluid Samples: 0

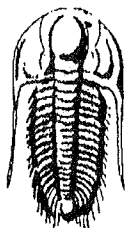
Num Gas Bombs: 1

Serial #: JA-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

Job Ticket: 32996

DST#: 2

ATTN: Bill Klaver

Test Start: 2009.04.28 @ 22:24:58

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)
1	10	0.50	9.00	157.85
1	10	0.50	9.00	157.85
1	20	0.50	7.00	144.36
1	30	0.50	3.00	117.38
2	10	0.25	26.00	64.09
2	20	0.25	33.00	75.20
2	30	0.25	28.00	67.26
2	40	0.25	26.00	64.09
2	60	0.25	24.00	60.92

DST Test Number: 2

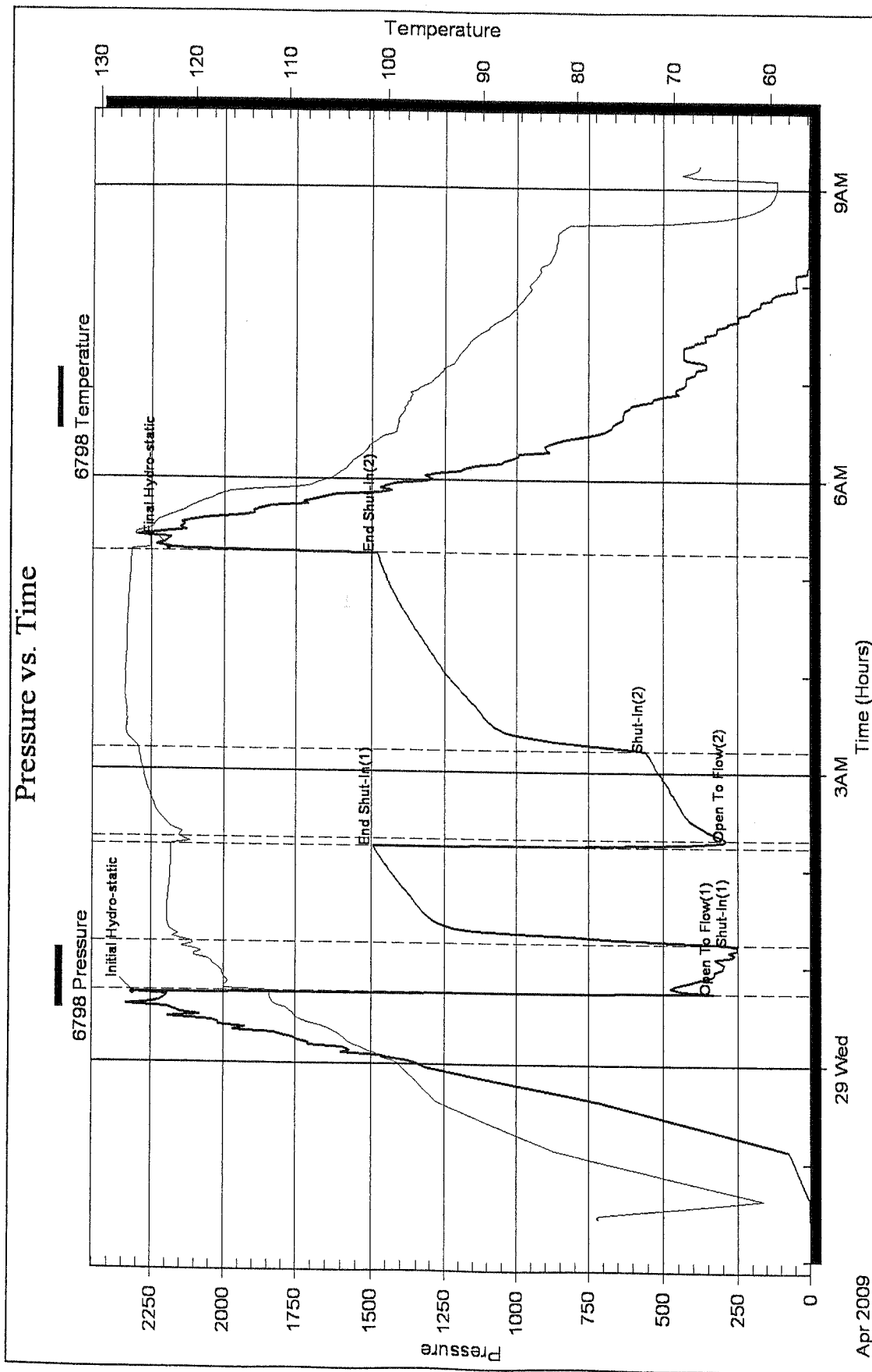
6-34s-10w Barber KS

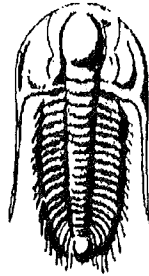
Woolsey Operating Company, LLC

Inside

Serial #: 6798

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Bill Klaver

6-34s-10w Barber KS

Jahay A # 1

Start Date: 2009.04.29 @ 21:52:41

End Date: 2009.04.30 @ 07:08:41

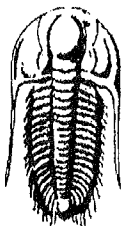
Job Ticket #: 32997 DST #: 3

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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 Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

Job Ticket: 32997

DST#: 3

ATTN: Bill Klaver

Test Start: 2009.04.29 @ 21:52:41

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:13:41

Time Test Ended: 07:08:41

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: **4646.00 ft (KB) To 4740.00 ft (KB) (TVD)**

Total Depth: 4740.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1429.00 ft (KB)

1418.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press@RunDepth: 135.41 psig @ 4653.00 ft (KB)

Start Date: 2009.04.29

End Date:

2009.04.30

Start Time: 21:52:42

End Time:

07:08:41

Capacity: 7000.00 psig

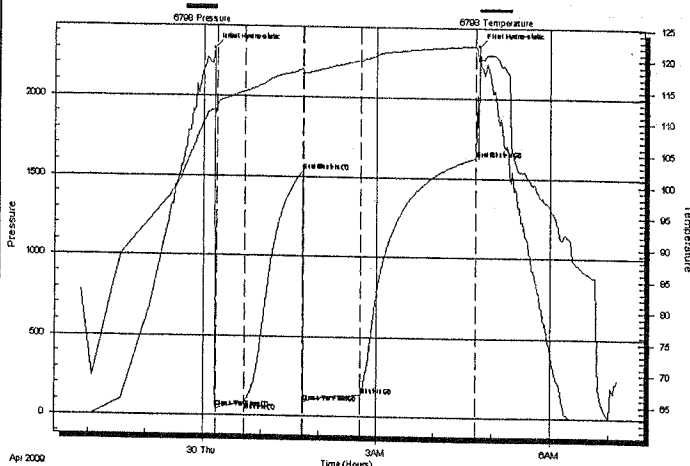
Last Calib.: 2009.04.30

Time On Btm: 2009.04.30 @ 00:11:41

Time Off Btm: 2009.04.30 @ 04:46:41

TEST COMMENT: IF: Fair blow . B.O.B. in 16 mins.
IS: Very weak surface blow .
FF: Fair blow . B.O.B. in 19 mins.
FS: Weak surface blow . Dead in 70 mins.

Pressure vs. Time



PRESSURE SUMMARY

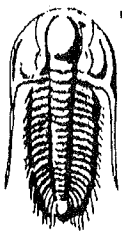
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.68	111.73	Initial Hydro-static
2	44.03	112.26	Open To Flow (1)
32	82.52	114.63	Shut-In (1)
92	1532.26	118.30	End Shut-In (1)
93	86.94	117.86	Open To Flow (2)
152	135.41	119.74	Shut-In (2)
272	1624.79	122.21	End Shut-In (2)
275	2323.85	119.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
128.00	Drilling mud w/ oil scum 100% m	0.63
122.00	SWCM w/ oil scum 5% w 95% m	0.66

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

Job Ticket: 32997

DST#: 3

ATTN: Bill Klaver

Test Start: 2009.04.29 @ 21:52:41

Tool Information

Drill Pipe:	Length: 4382.00 ft	Diameter: 3.80 inches	Volume: 61.47 bbl	Tool Weight: 2700.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 62.67 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4646.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	122.00 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			4623.00	
Hydraulic tool	5.00			4628.00	
Jars	5.00			4633.00	
Safety Joint	3.00			4636.00	
Packer	5.00			4641.00	28.00 Bottom Of Top Packer
Packer	5.00			4646.00	
Stubb	1.00			4647.00	
Perforations	5.00			4652.00	
Change Over Sub	1.00			4653.00	
Recorder	0.00	6798	Inside	4653.00	
Recorder	0.00	8367	Inside	4653.00	
Blank Spacing	63.00			4716.00	
Change Over Sub	1.00			4717.00	
Perforations	20.00			4737.00	
Bullnose	3.00			4740.00	94.00 Bottom Packers & Anchor

Total Tool Length: 122.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company, LLC

Jahay A # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

6-34s-10w Barber KS

Job Ticket: 32997

DST#: 3

ATTN: Bill Klaver

Test Start: 2009.04.29 @ 21:52:41

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 12.37 in³

Resistivity: 0.00 ohm.m

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
128.00	Drilling mud w/ oil scum 100%m	0.629
122.00	SWCM w/ oil scum 5%w 95%m	0.664

Total Length: 250.00 ft

Total Volume: 1.293 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

