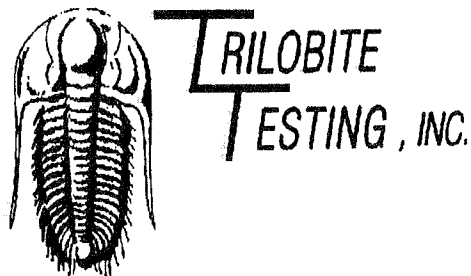


13-34s-12w
C N2 N E SE



RECEIVED
KANSAS CORPORATION COMMISSION
MAR 07 2007
CONSERVATION DIVISION
WICHITA, KS

DRILL STEM TEST REPORT

Prepared For: **Woolsey Opererating CO LLC**

125 N Market Ste #1000
Wichita KS 67202

ATTN: Bill Klaver

13 34S 12W Barber KS

Harbaugh #1

Start Date: 2006.11.16 @ 04:08:13

End Date: 2006.11.16 @ 12:48:13

Job Ticket #: 25464 DST #: 1

15-007-23080

2160 FSL 660 FEL

KCC
MAR 07 2007
CONFIDENTIAL

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating CO LLC

Harbaugh #1

125 N Market Ste #1000
Wichita KS 67202

13 34S 12W Barber KS

Job Ticket: 25464

DST#: 1

ATTN: Bill Klaver

Test Start: 2006.11.16 @ 04:08:13

GENERAL INFORMATION:

Formation: **Pawnee LS**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 06:44:13

Time Test Ended: 12:48:13

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 36

Interval: **4580.00 ft (KB) To 4604.00 ft (KB) (TVD)**

Total Depth: **4604.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1441.00 ft (KB)**

1430.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **6798**

Inside

Press@RunDepth: **22.03 psig @ 4581.00 ft (KB)**

Start Date: **2006.11.16**

End Date:

2006.11.16

Capacity: **7000.00 psig**

Last Calib.: **2006.11.16**

Start Time: **04:08:18**

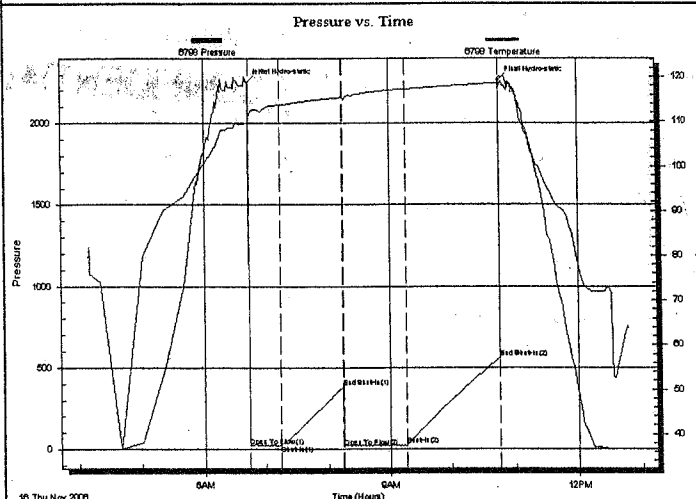
End Time:

12:48:13

Time On Btm: **2006.11.16 @ 06:43:13**

Time Off Btm: **2006.11.16 @ 10:45:42**

TEST COMMENT: IF Fair blow Built to 11"
ISI No blow
FF Strong blow BOB in 10 secs.
FSI No blow



PRESSURE SUMMARY

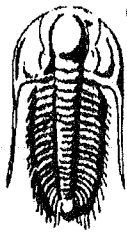
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.03	109.61	Initial Hydro-static
1	20.95	110.99	Open To Flow (1)
32	24.37	113.72	Shut-In (1)
91	381.71	115.42	End Shut-In (1)
92	13.79	115.48	Open To Flow (2)
152	22.03	117.31	Shut-In (2)
242	560.40	118.61	End Shut-In (2)
243	2262.46	119.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SGCM 4%G 96%M	0.10
0.00	480' GIP	0.00
0.00		0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating CO LLC

Harbaugh #1

125 N Market Ste #1000
Wichita KS 67202

13 34S 12W Barber KS

Job Ticket: 25464

DST#: 1

ATTN: Bill Klaver

Test Start: 2006.11.16 @ 04:08:13

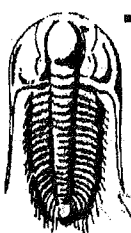
Tool Information

Drill Pipe:	Length: 4553.00 ft	Diameter: 3.80 inches	Volume: 63.87 bbl	Tool Weight:	2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
			Total Volume: 64.02 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4580.00 ft			Final	56500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	52.00 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			4557.00	
Hydraulic tool	5.00			4562.00	
Jars	5.00			4567.00	
Safety Joint	3.00			4570.00	
Packer	5.00			4575.00	28.00 Bottom Of Top Packer
Packer	5.00			4580.00	
Stubb	1.00			4581.00	
Recorder	0.00	6798	Inside	4581.00	
Perforations	20.00			4601.00	
Recorder	0.00	13249	Outside	4601.00	
Bullnose	3.00			4604.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Woolsey Operating CO LLC		Harbaugh #1
	125 N Market Ste #1000 Wichita KS 67202		13 34S 12W Barber KS
ATTN: Bill Klaver		Job Ticket: 25464	DST#: 1
		Test Start: 2006.11.16 @ 04:08:13	

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: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 15.16 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SGCM 4%G 96%M	0.098
0.00	480' GIP	0.000
0.00		0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

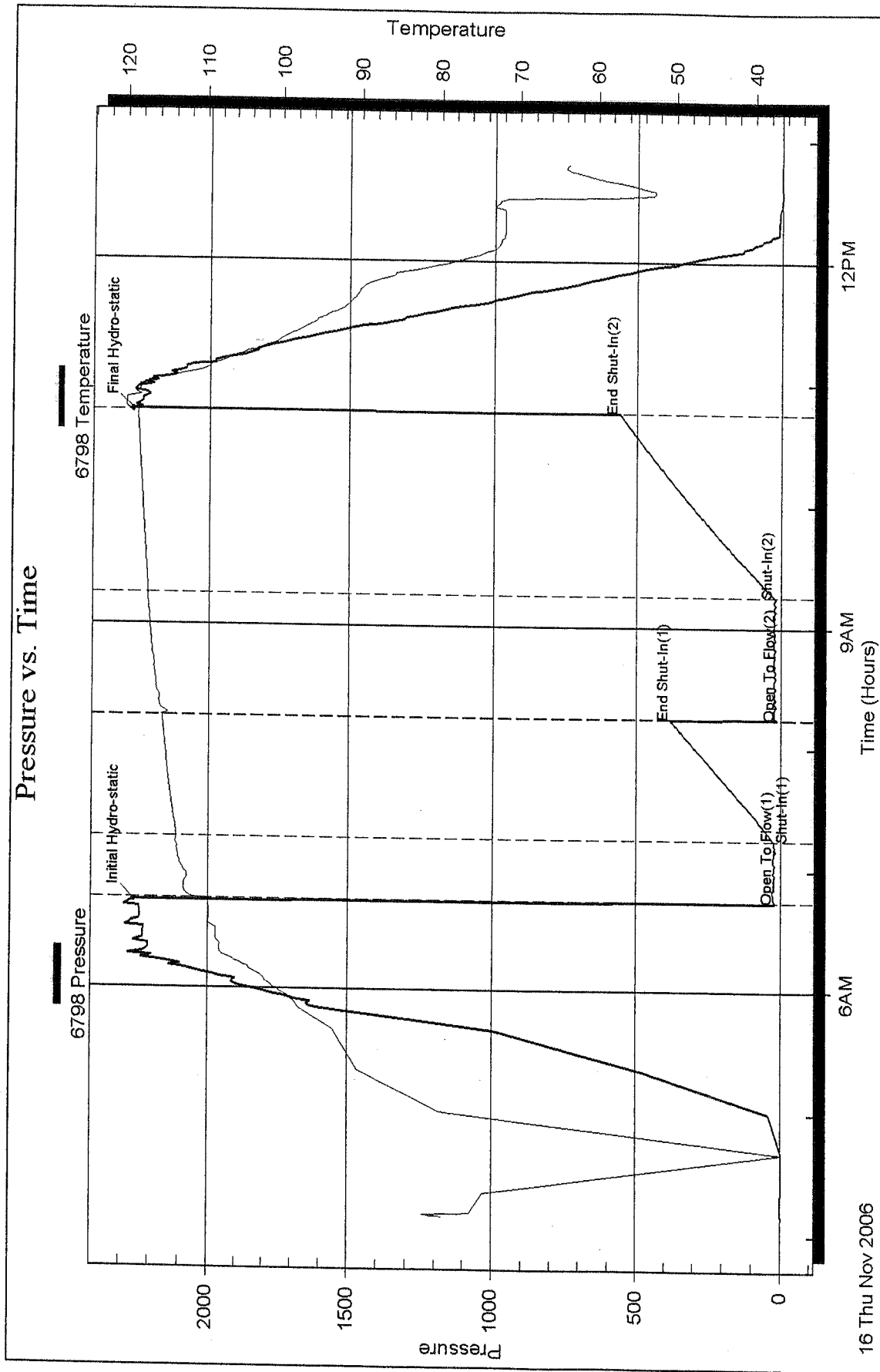
Num Gas Bombs: 0

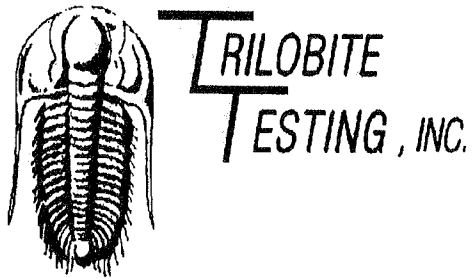
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating CO LLC**

125 N Market Ste #1000
Wichita KS 67202

ATTN: Bill Klaver

13 34S 12W Barber KS

Harbaugh #1

Start Date: 2006.11.17 @ 01:41:58

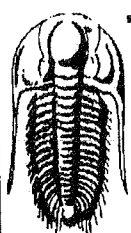
End Date: 2006.11.17 @ 07:16:58

Job Ticket #: 25465 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

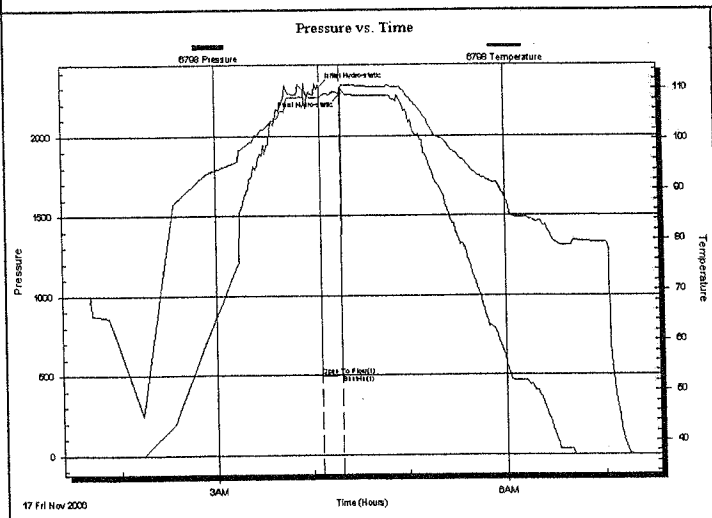
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Woolsey Operating CO LLC 125 N Market Ste #1000 Wichita KS 67202 ATTN: Bill Klaver	Harbaugh #1 13 34S 12W Barber KS Job Ticket: 25465 DST#:2 Test Start: 2006.11.17 @ 01:41:58

GENERAL INFORMATION:

Formation: Mississippi Deviated: No Whipstock: ft (KB) Time Tool Opened: 04:05:58 Time Test Ended: 07:16:58 Interval: 4648.00 ft (KB) To 4680.00 ft (KB) (TVD) Total Depth: 4680.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole Tester: Gerald Adams Unit No: 36 Reference Elevations: 1441.00 ft (KB) 1430.00 ft (CF) KB to GR/CF: 11.00 ft
---	---

Serial #: 6798 Inside Press@RunDepth: psig @ 4649.00 ft (KB) Start Date: 2006.11.17 End Date: 2006.11.17 Start Time: 01:42:03 End Time: 07:16:57	Capacity: 7000.00 psig Last Calib.: 2006.11.17 Time On Btm: 2006.11.17 @ 04:05:28 Time Off Btm: 2006.11.17 @ 04:19:28
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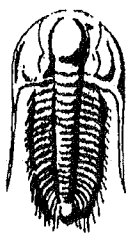
TEST COMMENT: IF Tool opened packers didn't seat Pulled loose released pressure filled hole Set again with 30,000lbs. packers seated Weak blow steady at 1 1/2 " Talked with Geologist Decided test was compromised Pu



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2309.31	108.37	Initial Hydro-static
1	493.65	108.00	Open To Flow (1)
14	499.95	109.31	Shut-In(1)
14	2264.71	110.07	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1300.00	Drilling Mud 100%M	17.95
0.00		0.00

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating CO LLC

Harbaugh #1

125 N Market Ste #1000
Wichita KS 67202

13 34S 12W Barber KS

Job Ticket: 25465

DST#: 2

ATTN: Bill Klaver

Test Start: 2006.11.17 @ 01:41:58

Tool Information

Drill Pipe:	Length: 4618.00 ft	Diameter: 3.80 inches	Volume: 64.78 bbl	Tool Weight:	2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	64.93 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4648.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	60.00 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			4625.00	
Hydraulic tool	5.00			4630.00	
Jars	5.00			4635.00	
Safety Joint	3.00			4638.00	
Packer	5.00			4643.00	28.00 Bottom Of Top Packer
Packer	5.00			4648.00	
Stubb	1.00			4649.00	
Recorder	0.00	6798	Inside	4649.00	
Perforations	28.00			4677.00	
Recorder	0.00	13249	Outside	4677.00	
Bullnose	3.00			4680.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating CO LLC

Harbaugh #1

125 N Market Ste #1000
Wichita KS 67202

13 34S 12W Barber KS

Job Ticket: 25465

DST#: 2

ATTN: Bill Klaver

Test Start: 2006.11.17 @ 01:41:58

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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1300.00	Drilling Mud 100%M	17.953
0.00		0.000

Total Length: 1300.00 ft

Total Volume: 17.953 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

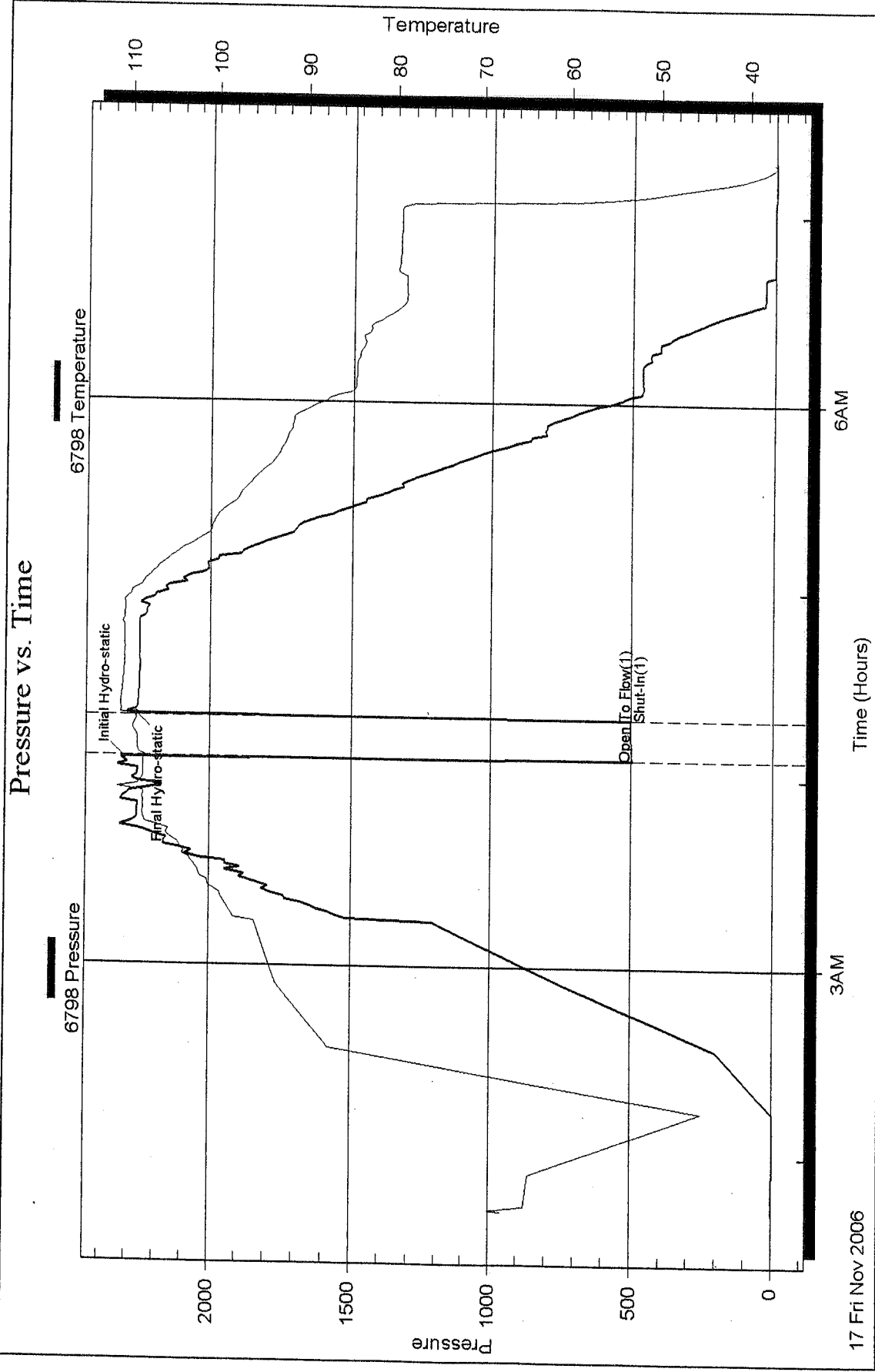
Inside

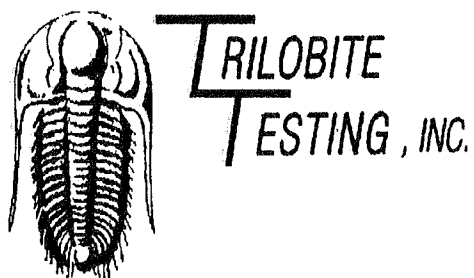
Woolsey Operating CO LLC

13 34S 12W Barber KS

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating CO LLC**

125 N Market Ste #1000
Wichita KS 67202

ATTN: Bill Klaver

13 34S 12W Barber KS

Harbaugh #1

Start Date: 2006.11.17 @ 08:03:56

End Date: 2006.11.17 @ 16:46:26

Job Ticket #: 25466 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating CO LLC

125 N Market Ste #1000
Wichita KS 67202

ATTN: Bill Klaver

Harbaugh #1
13 34S 12W Barber KS

Job Ticket: 25466

DST#: 3

Test Start: 2006.11.17 @ 08:03:56

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:55:26

Time Test Ended: 16:46:26

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 36

Interval: **4612.00 ft (KB) To 4680.00 ft (KB) (TVD)**

Reference Elevations: 1441.00 ft (KB)

Total Depth: 4680.00 ft (KB) (TVD)

1430.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6798
Inside

Press@RunDepth: 28.12 psig @ 4615.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.11.17

End Date:

2006.11.17

Last Calib.: 2006.11.17

Start Time: 08:04:01

End Time:

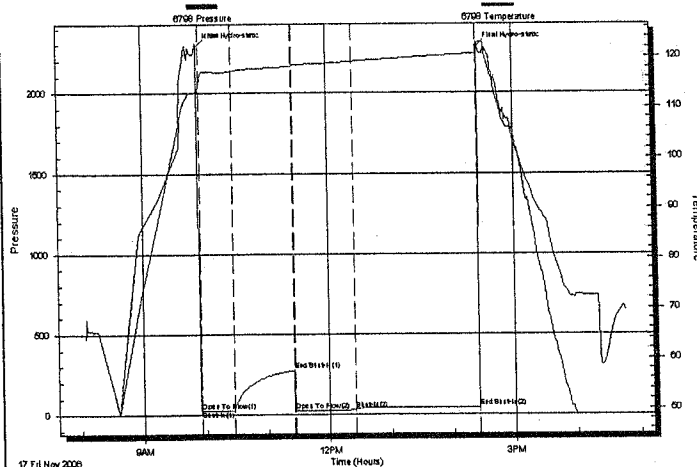
16:46:26

Time On Btm: 2006.11.17 @ 09:53:56

Time Off Btm: 2006.11.17 @ 14:25:25

TEST COMMENT: IF Strong blow BOB in 1 min.
ISI Strong blow BOB in 10 mins.
FF Strong blow BOB immediately GTS in 35 mins. (see gas flow report)
FSI Strong blow BOB in 5 1/2 mins.

Pressure vs. Time



PRESSURE SUMMARY

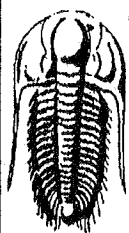
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2291.85	113.02	Initial Hydro-static
2	26.12	114.48	Open To Flow (1)
33	26.07	117.11	Shut-In (1)
92	274.52	118.14	End Shut-In (1)
93	23.44	118.29	Open To Flow (2)
151	28.12	119.11	Shut-In (2)
271	44.25	120.64	End Shut-In (2)
272	2286.24	122.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGCM 4%G 96%M	0.15
0.00	4557' GIP	0.00
0.00		0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	-
Last Gas Rate	0.13	1.00	5.80
Max. Gas Rate	0.13	1.00	-



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Opererating CO LLC

Harbaugh #1

125 N Market Ste #1000
Wichita KS 67202

13 34S 12W Barber KS

ATTN: Bill Klaver

Job Ticket: 25466

DST#: 3

Test Start: 2006.11.17 @ 08:03:56

Tool Information

Drill Pipe:	Length: 4587.00 ft	Diameter: 3.80 inches	Volume: 64.34 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	62000.00 lb
		Total Volume:	64.49 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4612.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	96.00 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			4589.00	
Hydraulic tool	5.00			4594.00	
Jars	5.00			4599.00	
Safety Joint	3.00			4602.00	
Packer	5.00			4607.00	28.00 Bottom Of Top Packer
Packer	5.00			4612.00	
Stubb	1.00			4613.00	
Perforations	2.00			4615.00	
Recorder	0.00	6798	Inside	4615.00	
Change Over Sub	1.00			4616.00	
Blank Spacing	32.00			4648.00	
Change Over Sub	1.00			4649.00	
Perforations	28.00			4677.00	
Recorder	0.00	13249	Outside	4677.00	
Bullnose	3.00			4680.00	68.00 Bottom Packers & Anchor

Total Tool Length: 96.00


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating CO LLC

Harbaugh #1

125 N Market Ste #1000
Wichita KS 67202

13 34S 12W Barber KS

Job Ticket: 25466

DST#: 3

ATTN: Bill Klaver

Test Start: 2006.11.17 @ 08:03:56

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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SGCM 4%G 96%M	0.148
0.00	4557' GIP	0.000
0.00		0.000

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

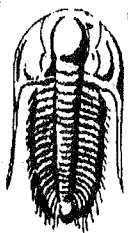
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating CO LLC

Harbaugh #1

125 N Market Ste #1000
Wichita KS 67202

13 34S 12W Barber KS

Job Ticket: 25466

DST#: 3

ATTN: Bill Klaver

Test Start: 2006.11.17 @ 08:03:56

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	35	0.13	1.00	-374282.16
2	35	0.13	1.00	5.80
2	45	0.13	1.00	5.80
2	55	0.13	1.00	5.80
2	60	0.13	1.00	5.80

DST Test Number: 3

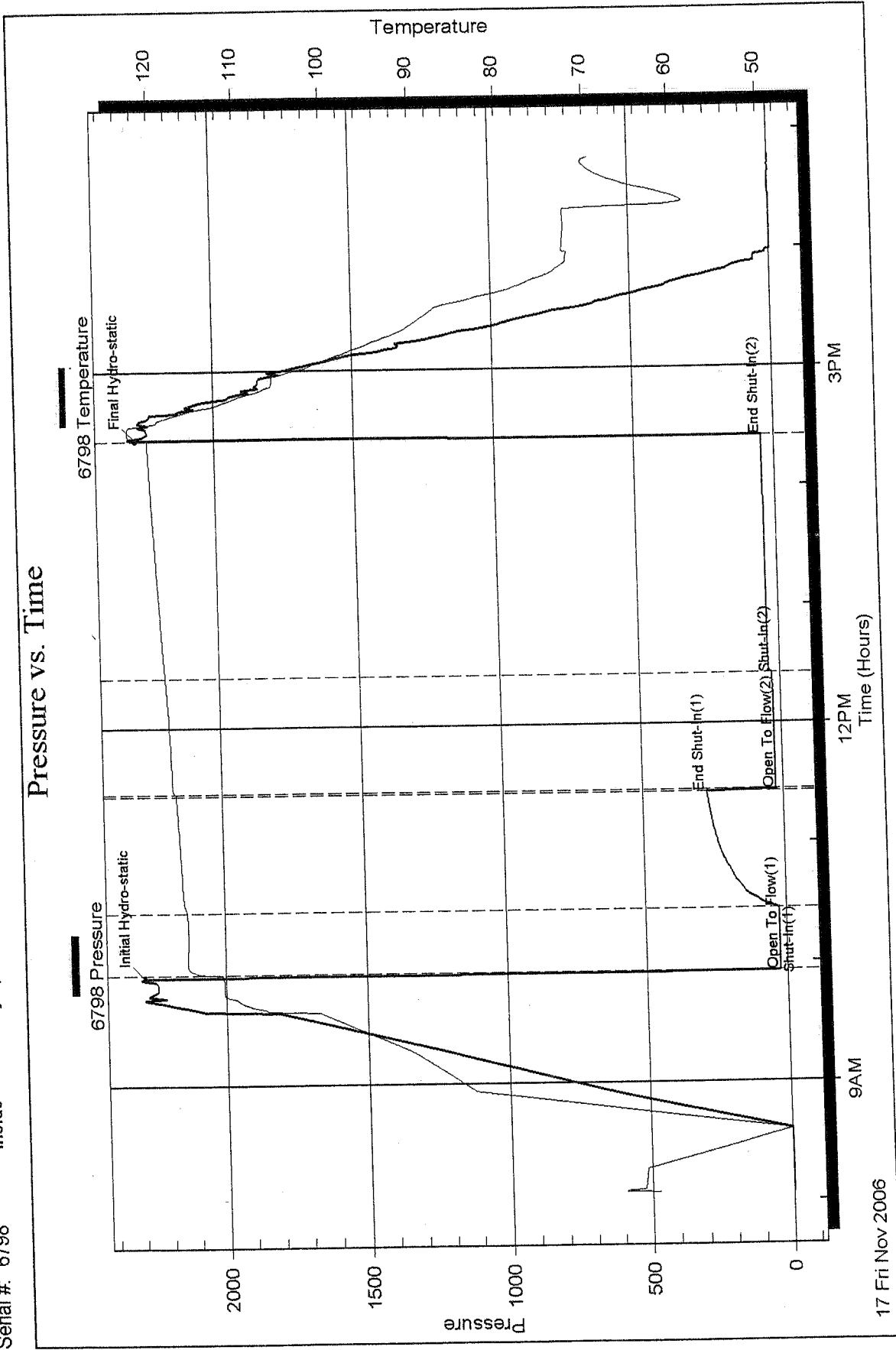
13 34S 12W Barber KS

Woolsey Operating CO LLC

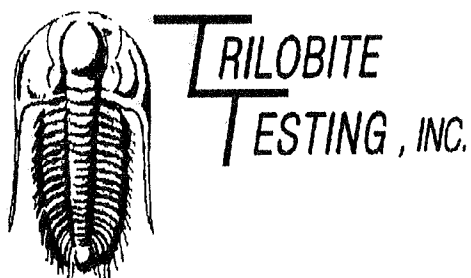
Inside

Serial #: 6798

Pressure vs. Time



206152



DRILL STEM TEST REPORT

Prepared For: **Woolsey Opererating CO LLC**

125 N Market Ste #1000
Wichita KS 67202

ATTN: Bill Klaver

13 34S 12W Barber KS

Harbaugh #1

Start Date: 2006.11.18 @ 04:00:09

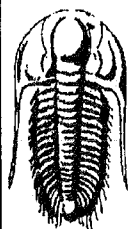
End Date: 2006.11.18 @ 12:42:39

Job Ticket #: 25467 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating CO LLC

125 N Market Ste #1000
Wichita KS 67202

ATTN: Bill Klaver

Harbaugh #1

13 34S 12W Barber KS

Job Ticket: 25467

DST#: 4

Test Start: 2006.11.18 @ 04:00:09

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:43:39

Time Test Ended: 12:42:39

Interval: **4682.00 ft (KB) To 4736.00 ft (KB) (TVD)**

Total Depth: 4736.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 36

Reference Elevations: 1441.00 ft (KB)

1430.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6798**

Inside

Press@RunDepth: 43.26 psig @ 4685.00 ft (KB)

Start Date: 2006.11.18

End Date: 2006.11.18

Start Time: 04:00:14

End Time: 12:42:39

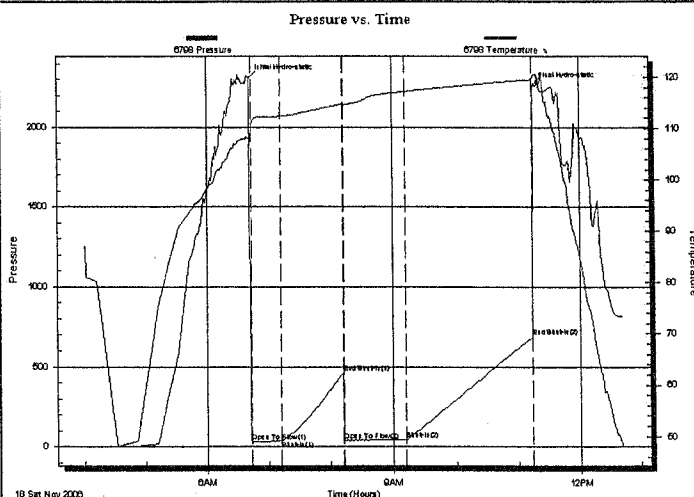
Capacity: 7000.00 psig

Last Calib.: 2006.11.18

Time On Btm: 2006.11.18 @ 06:41:39

Time Off Btm: 2006.11.18 @ 11:13:38

TEST COMMENT: IF Strong blow BOB in 7 mins.
ISI No blow
FF Strong blow BOB in 10 secs.
FSI No blow



PRESSURE SUMMARY

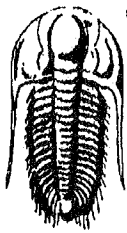
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.78	108.09	Initial Hydro-static
2	29.31	110.39	Open To Flow (1)
31	35.52	112.40	Shut-In (1)
90	460.31	114.72	End Shut-In (1)
91	34.14	114.58	Open To Flow (2)
151	43.26	117.20	Shut-In (2)
272	688.07	119.58	End Shut-In (2)
272	2261.20	120.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SGCM w/Oil scum 8%G 92%M	0.63
0.00	685' GIP	0.00
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating CO LLC

Harbaugh #1

125 N Market Ste #1000
Wichita KS 67202

13 34S 12W Barber KS

Job Ticket: 25467

DST#: 4

ATTN: Bill Klaver

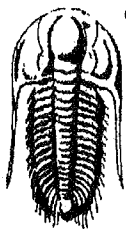
Test Start: 2006.11.18 @ 04:00:09

Tool Information

Drill Pipe:	Length: 4649.00 ft	Diameter: 3.80 inches	Volume: 65.21 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	65.36 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4682.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 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			4659.00	
Hydraulic tool	5.00			4664.00	
Jars	5.00			4669.00	
Safety Joint	3.00			4672.00	
Packer	5.00			4677.00	28.00 Bottom Of Top Packer
Packer	5.00			4682.00	
Stubb	1.00			4683.00	
Perforations	2.00			4685.00	
Recorder	0.00	6798	Inside	4685.00	
Change Over Sub	1.00			4686.00	
Blank Spacing	31.00			4717.00	
Change Over Sub	1.00			4718.00	
Perforations	15.00			4733.00	
Recorder	0.00	13249	Outside	4733.00	
Bullnose	3.00			4736.00	54.00 Bottom Packers & Anchor

Total Tool Length: 82.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating CO LLC

Harbaugh #1

125 N Market Ste #1000
Wichita KS 67202

13 34S 12W Barber KS

Job Ticket: 25467

DST#: 4

ATTN: Bill Klaver

Test Start: 2006.11.18 @ 04:00:09

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:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	SGCM w/Oil scum 8%G 92%M	0.629
0.00	685' GIP	0.000
0.00		0.000

Total Length: 65.00 ft

Total Volume: 0.629 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 4

13 34S 12W Barber KS

Woodsey Operating CO LLC

Inside

Serial #: 6798

Pressure vs. Time

