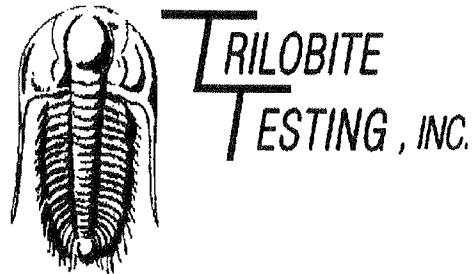


15-007-23185

23-34S-12W

IND



DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N Market Ste 1000
Wichita KS 67202

ATTN: Bill Klaver

23 34S 12W Barber KS

Harbaugh E #1

Start Date: 2007.09.11 @ 14:04:40

End Date: 2007.09.12 @ 01:50:25

Job Ticket #: 29351 DST #: 1

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KANSAS CORPORATION COMMISSION

JAN 02 2008

CONSERVATION DIVISION
WICHITA, KS

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

Woolsey Operating Co

Harbaugh E #1

23 34S 12W Barber KS

DST # 1

Mississippi

2007.09.11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Co

125 N Market Ste 1000
Wichita KS 67202

ATTN: Bill Klaver

Harbaugh E #1

23 34S 12W Barber KS

Job Ticket: 29351

DST#: 1

Test Start: 2007.09.11 @ 14:04:40

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:11:25

Time Test Ended: 01:50:25

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Interval: **4606.00 ft (KB) To 4684.00 ft (KB) (TVD)**

Total Depth: 4684.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1398.00 ft (KB)

1390.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

Press@RunDepth: 103.45 psig @ 4607.00 ft (KB)

Start Date: 2007.09.11

End Date: 2007.09.12

Start Time: 14:04:45

End Time: 01:50:25

Capacity: 7000.00 psig

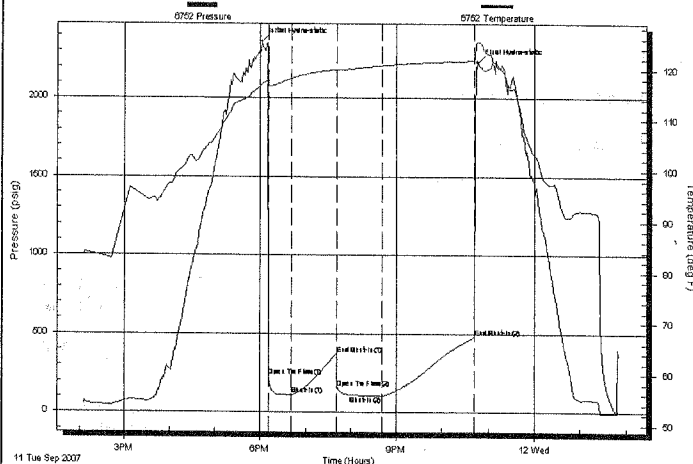
Last Calib.: 2007.09.12

Time On Btm: 2007.09.11 @ 18:02:40

Time Off Btm: 2007.09.11 @ 22:46:25

TEST COMMENT: IF Fair Blow 7 1/2 inches
ISI Bled Off No Blow back
FF Strong Blow BOB in 32 minutes
FSI Bled Off No Blow back

Pressure vs. Time



PRESSURE SUMMARY

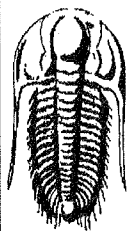
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2357.82	117.01	Initial Hydro-static
9	226.65	117.15	Open To Flow (1)
39	109.85	118.23	Shut-In (1)
99	371.68	119.97	End Shut-In (1)
99	158.18	119.86	Open To Flow (2)
159	103.45	120.75	Shut-In (2)
279	480.19	121.76	End Shut-In (2)
284	2227.73	125.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	DM	0.25

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

125 N Market Ste 1000
Wichita KS 67202

ATTN: Bill Klaver

Harbaugh E #1

23 34S 12W Barber KS

Job Ticket: 29351

DST#: 1

Test Start: 2007.09.11 @ 14:04:40

Tool Information

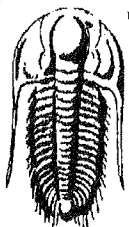
Drill Pipe:	Length: 4493.00 ft	Diameter: 3.80 inches	Volume: 63.02 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 116.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 63.59 bbl		Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4606.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			4578.00	
Change Over Sub	1.00			4579.00	
Shut In Tool	5.00			4584.00	
Hydraulic tool	5.00			4589.00	
Jars	5.00			4594.00	
Safety Joint	3.00			4597.00	
Packer	5.00			4602.00	29.00 Bottom Of Top Packer
Packer	4.00			4606.00	
Stubb	1.00			4607.00	
Recorder	0.00	6752	Inside	4607.00	
Perforations	1.00			4608.00	
Drill Pipe	63.00			4671.00	
Perforations	10.00			4681.00	
Recorder	0.00	6704	Outside	4681.00	
Bullnose	3.00			4684.00	78.00 Bottom Packers & Anchor

Total Tool Length: 107.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Harbaugh E #1

125 N Market Ste 1000
Wichita KS 67202

23 34S 12W Barber KS

Job Ticket: 29351

DST#: 1

ATTN: Bill Klaver

Test Start: 2007.09.11 @ 14:04:40

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 10.78 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 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
50.00	DM	0.246

Total Length: 50.00 ft

Total Volume: 0.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

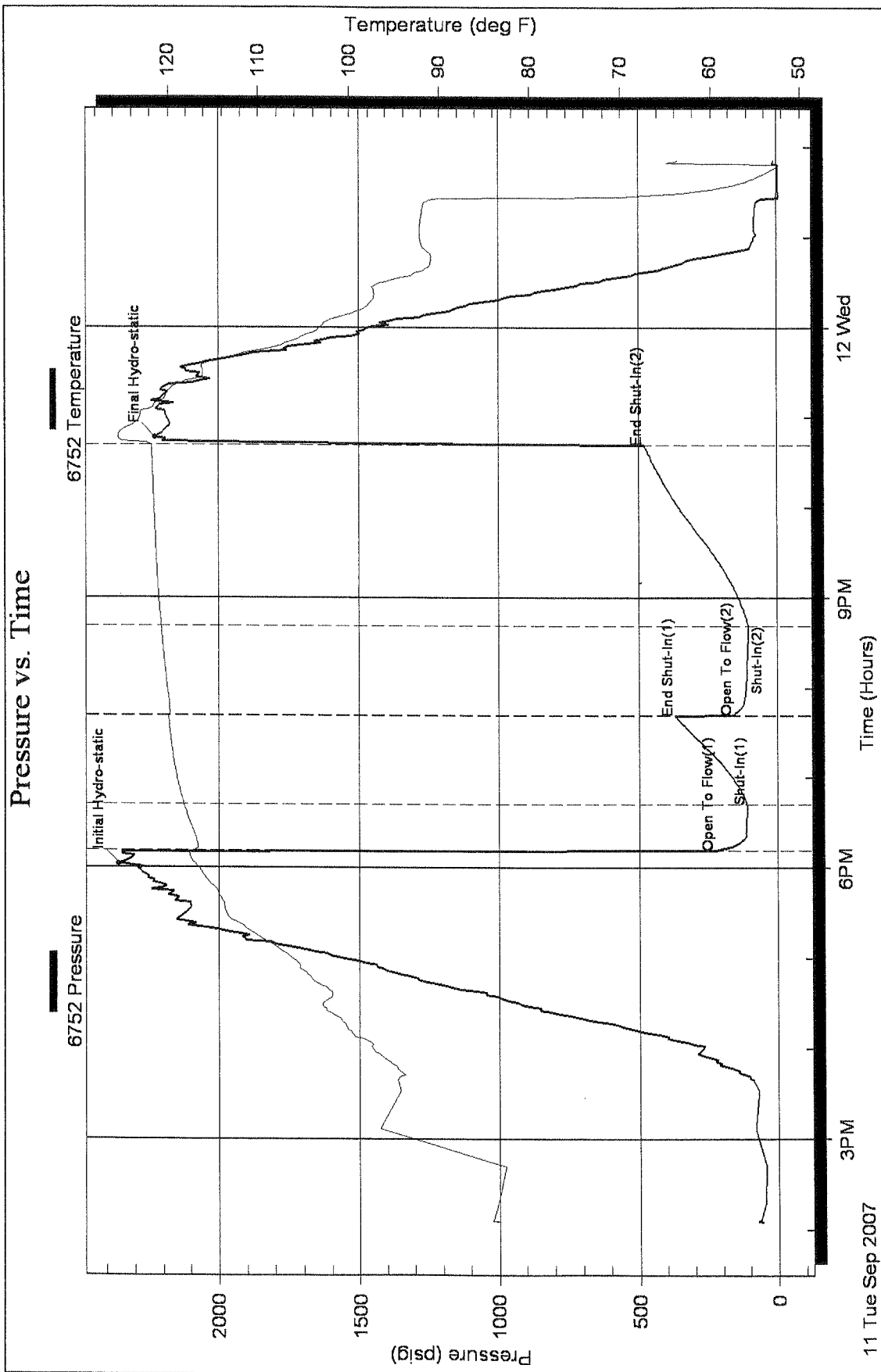
23 34S 12W Barber KS

Woodsey Operating Co

Inside

Serial #: 6752

Pressure vs. Time



Ref. No: 29351

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