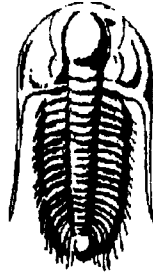


15-009-25100-0000

9-16s-13w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Hupfer Operating Inc**

PO Box 216
Hays KS 67601

ATTN: Jim Musgrove

9 16 13 Barton KS

Morgenstern #4

Start Date: 2007.11.24 @ 16:08:59

End Date: 2007.11.24 @ 22:17:59

Job Ticket #: 29069 DST #: 1

990 FNL 2310 FWL
SE NE NW

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JAN 24 2008

SA VICKIE
MORNING MOUNTAIN

Hupfer Operating Inc

Morgenstern #4

9 16 13 Barton KS

DST # 1

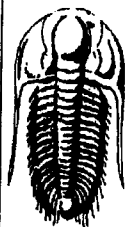
Arbuckle

2007.11.24

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Hupfer Operating Inc

PO Box 216
Hays KS 67601

ATTN: Jim Musgrove

Morgenstern #4

9 16 13 Barton KS

Job Ticket: 29069

DST#: 1

Test Start: 2007.11.24 @ 16:08:59

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:41:29

Time Test Ended: 22:17:59

Interval: **3354.00 ft (KB) To 3386.00 ft (KB) (TVD)**

Total Depth: 3386.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Reference Elevations: 1931.00 ft (KB)

1920.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6719

Inside

Press@RunDepth: 336.64 psig @ 3358.00 ft (KB)

Start Date: 2007.11.24

End Date:

2007.11.24

Start Time: 16:09:01

End Time:

22:17:59

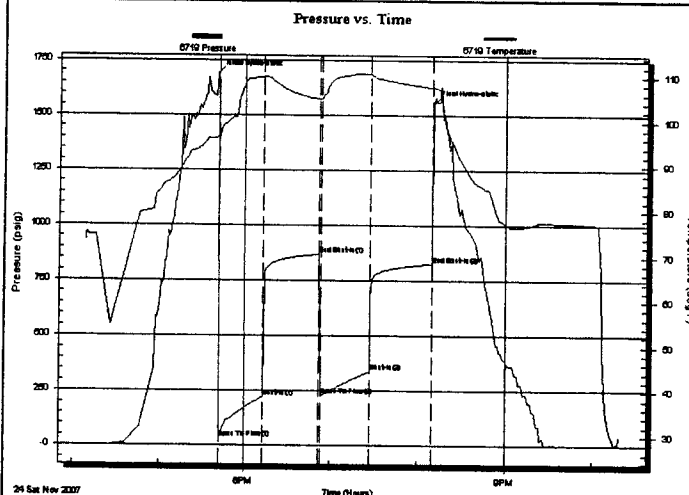
Capacity: 7000.00 psig

Last Calib.: 2007.11.24

Time On Btm: 2007.11.24 @ 17:40:29

Time Off Btm: 2007.11.24 @ 20:10:59

TEST COMMENT: IFP Strong Blow BOB in 5 Min.
ISI Weak Surface Blow back
FFP Strong Blow BOB in 7 Min.
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.29	96.58	Initial Hydro-static
1	32.39	96.27	Open To Flow (1)
33	222.26	109.95	Shut-In(1)
72	869.23	104.94	End Shut-In(1)
73	227.09	105.08	Open To Flow (2)
107	336.64	110.59	Shut-In(2)
150	826.32	107.58	End Shut-In(2)
151	1553.28	107.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GHOCWM 20%G 30%O 10%W 40%M	1.18
628.00	GO 30%G 70%O	8.73
0.00	186' GIP	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

Hupfer Operating Inc

Morgenstern #4

PO Box 216
Hays KS 67601

9 16 13 Barton KS

Job Ticket: 29069

DST#: 1

ATTN: Jim Musgrove

Test Start: 2007.11.24 @ 16:08:59

Tool Information

Drill Pipe:	Length: 3094.00 ft	Diameter: 3.80 inches	Volume: 43.40 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 249.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	52000.00 lb
			Total Volume: 44.62 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3354.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

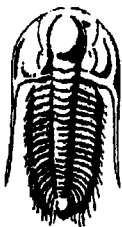
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3334.00	
Shut In Tool	5.00			3339.00	
Hydraulic tool	5.00			3344.00	
Packer	5.00			3349.00	21.00 Bottom Of Top Packer
Packer	5.00			3354.00	
Stubb	1.00			3355.00	
Perforations	3.00			3358.00	
Recorder	0.00	6719	Inside	3358.00	
Perforations	25.00			3383.00	
Recorder	0.00	8360	Outside	3383.00	
Bullnose	3.00			3386.00	32.00 Bottom Packers & Anchor

Total Tool Length: 53.00

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JAN 24 2008

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hupfer Operating Inc

Morgenstern #4

PO Box 216
Hays KS 67601

9 16 13 Barton KS

Job Ticket: 29069

DST#: 1

ATTN: Jim Musgrove

Test Start: 2007.11.24 @ 16:08:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 28000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

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
240.00	GHOCWM 20%G 30%O 10%W 40%M	1.180
628.00	GO 30%G 70%O	8.727
0.00	186' GP	0.000

Total Length: 868.00 ft

Total Volume: 9.907 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

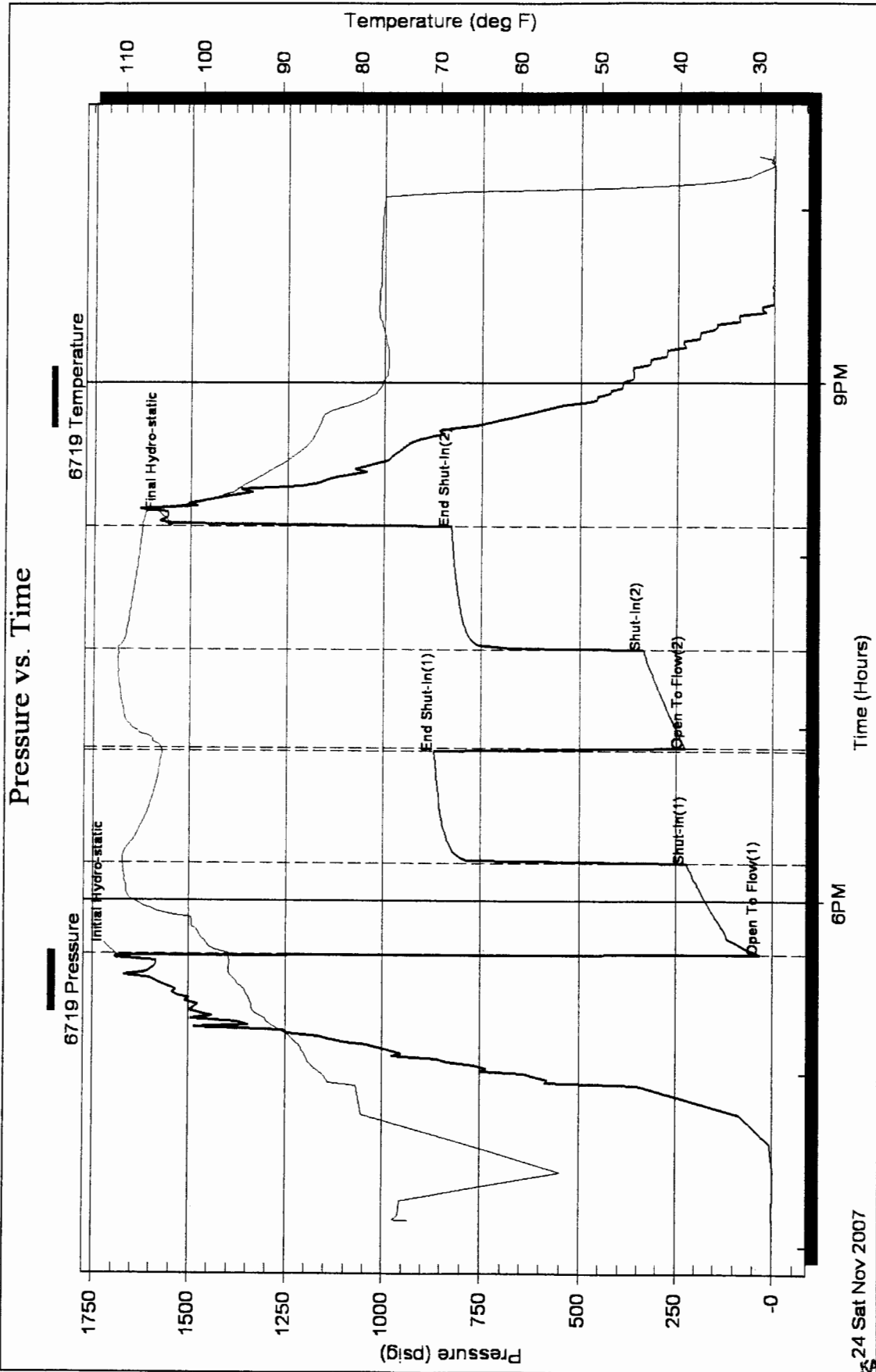
9 16 13 Barton KS

Hupfer Operating Inc

Inside

Serial #: 6719

Pressure vs. Time



Ref. No: 29069

Testing, Inc

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JAN 24 2008

CONSERVATION DIVISION
WICHITA KS