

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb**

PO Box 524
Lawrenceville IL 62430-0524

ATTN: Jon Christensen

33 12 17 Ellis KS

Schmidt AC #3

Start Date: 2007.04.27 @ 19:15:49

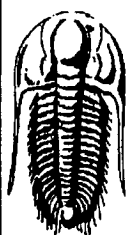
End Date: 2007.04.28 @ 03:32:19

Job Ticket #: 28246 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC.

DRILL STEM TEST REPORT

Herman L Loeb
PO Box 524
Lawrenceville IL 62430-0524
ATTN: Jon Christensen

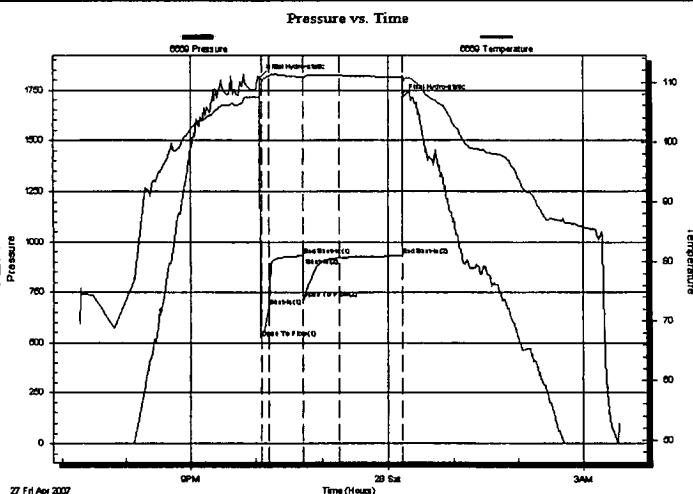
Schmidt AC #3
33 12 17 Ellis KS
Job Ticket: 28246 **DST#: 1**
Test Start: 2007.04.27 @ 19:15:49

GENERAL INFORMATION:

Formation: **ARB**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:04:49
Time Test Ended: 03:32:19
Interval: **3594.00 ft (KB) To 3613.00 ft (KB) (TVD)**
Total Depth: 3613.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Michael Armbrister
Unit No: 31
Reference Elevations: 2057.00 ft (KB)
2050.00 ft (CF)
KB to GRVCF: 7.00 ft

Serial #: 6669 Inside
Press@RunDepth: 921.86 psig @ 3596.00 ft (KB)
Start Date: 2007.04.27 End Date: 2007.04.28
Start Time: 19:15:54 End Time: 03:32:18
Capacity: 7000.00 psig
Last Calib.: 2007.04.28
Time On Btm: 2007.04.27 @ 22:03:19
Time Off Btm: 2007.04.28 @ 00:13:18

TEST COMMENT: IF B of B 15s
ISI Dead
FF B of B 15s
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1811.62	107.52	Initial Hydro-static
2	522.59	109.36	Open To Flow (1)
9	680.53	111.08	Shut-In (1)
39	930.61	110.88	End Shut-In (1)
40	718.82	110.48	Open To Flow (2)
72	921.86	111.16	Shut-In (2)
130	930.30	110.91	End Shut-In (2)
130	1712.80	111.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Drilling Mud	2.95
800.00	O cut Water 1%O 99%W	11.22
500.00	Slightly O cut W .5%O 99.5%W	7.01
500.00	Clean Salt Water	7.01

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L Loeb

PO Box 524
Lawrenceville IL 62430-0524

ATTN: Jon Christensen

Schmidt AC #3

33 12 17 Ellis KS

Job Ticket: 28246

DST#: 1

Test Start: 2007.04.27 @ 19:15:49

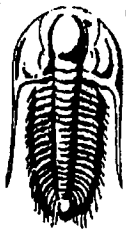
Tool Information

Drill Pipe:	Length: 3598.00 ft	Diameter: 3.80 inches	Volume: 50.47 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
		Total Volume:	50.47 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3594.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	47.00 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			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Jars	5.00			3582.00	
Safety Joint	3.00			3585.00	
Packer	4.00			3589.00	28.00 Bottom Of Top Packer
Packer	5.00			3594.00	
Stubb	1.00			3595.00	
Perforations	1.00			3596.00	
Recorder	0.00	6669	Inside	3596.00	
Perforations	14.00			3610.00	
Recorder	0.00	11084	Outside	3610.00	
Bullnose	3.00			3613.00	19.00 Bottom Packers & Anchor

Total Tool Length: 47.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb

Schmidt AC #3

PO Box 524
Lawrenceville IL 62430-0524

33 12 17 Ellis KS

Job Ticket: 28246

DST#: 1

ATTN: Jon Christensen

Test Start: 2007.04.27 @ 19:15:49

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	Drilling Mud	2.946
800.00	O cut Water 1%O 99%W	11.222
500.00	Slightly O cut W .5%O 99.5%W	7.014
500.00	Clean Salt Water	7.014

Total Length: 2010.00 ft

Total Volume: 28.196 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

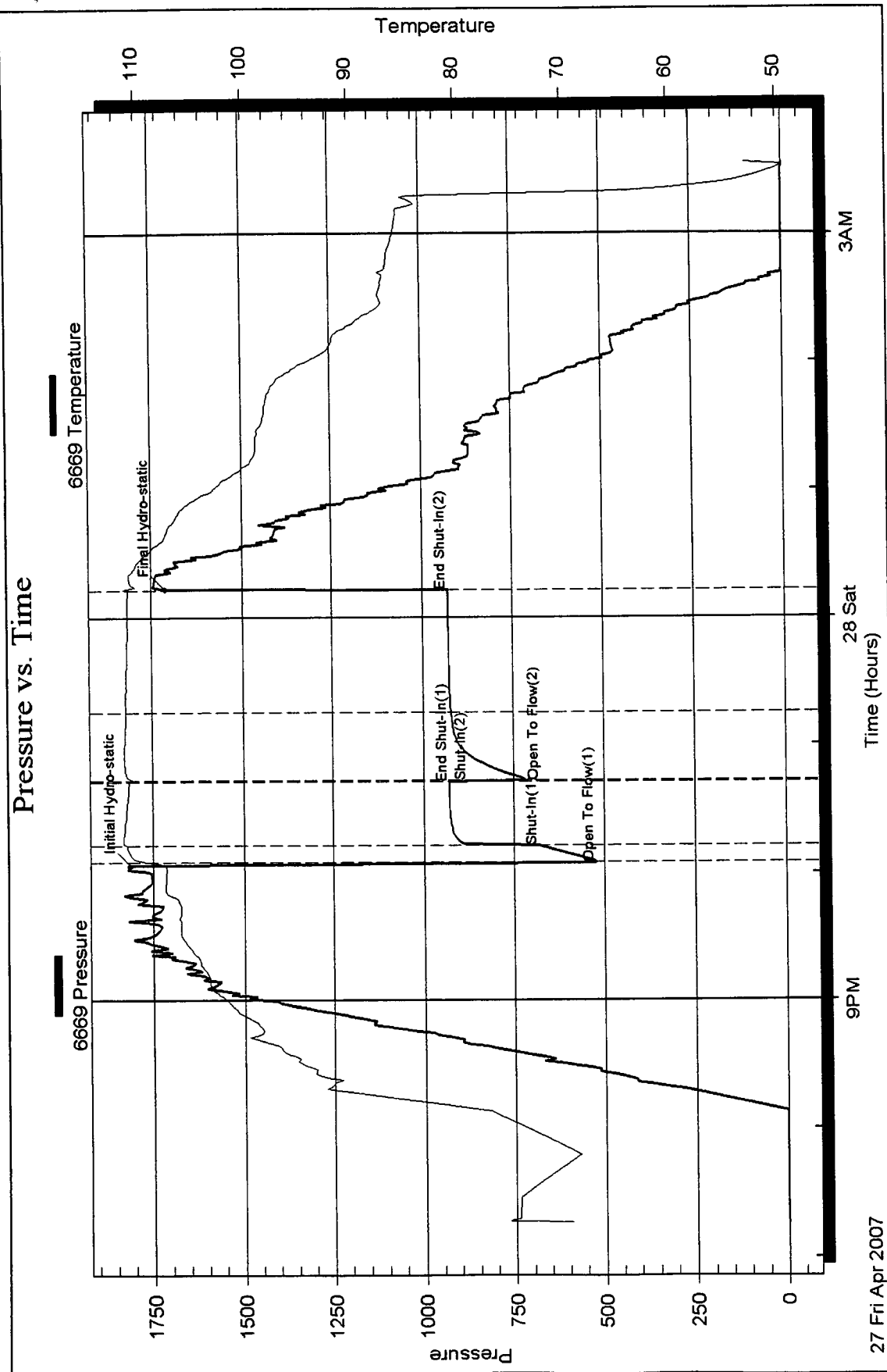
DST Test Number: 1

33 12 17 Ellis KS

Herman L Loeb

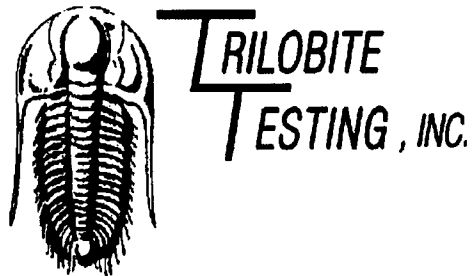
Inside

Serial #: 6669



Ref. No: 28246

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb**

PO Box 524
Lawrenceville IL 62430-0524

ATTN: Jon Christensen

33 12 17 Ellis KS

Schmidt AC #3

Start Date: 2007.04.28 @ 16:45:34

End Date: 2007.04.28 @ 23:31:12

Job Ticket #: 28247 DST #: 2

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DRILL STEM TEST REPORT

Herman L Loeb

PO Box 524
Lawrenceville IL 62430-0524

ATTN: Jon Christensen

Schmidt AC #3

33 12 17 Ellis KS

Job Ticket: 28247

DST#: 2

Test Start: 2007.04.28 @ 16:45:34

GENERAL INFORMATION:

Formation: **Arb**

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

Time Tool Opened: 18:22:12

Time Test Ended: 23:31:12

Interval: **3574.00 ft (KB) To 3594.00 ft (KB) (TVD)**

Total Depth: **3674.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **Michael Armbrister**

Unit No: **31**

Reference Elevations: **2057.00 ft (KB)**

2050.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6669

Inside

Press@RunDepth: **759.49 psig @ 3576.00 ft (KB)**

Start Date: **2007.04.28**

End Date:

2007.04.28

Start Time: **16:45:39**

End Time:

23:31:11

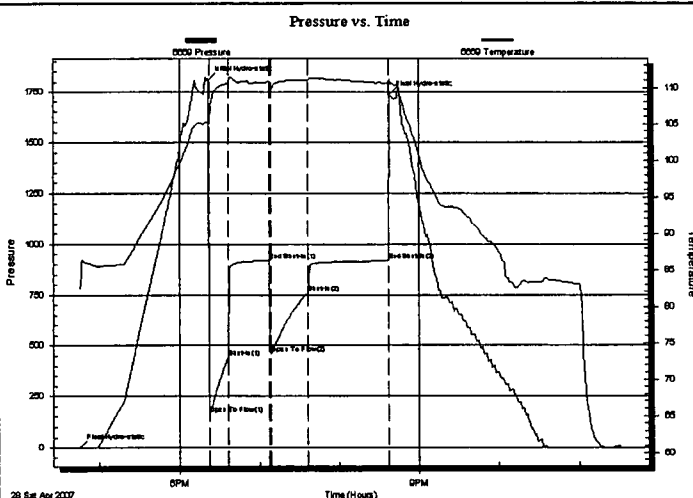
Capacity: **7000.00 psig**

Last Calib.: **2007.04.28**

Time On Btm: **2007.04.28 @ 18:21:12**

Time Off Btm: **2007.04.28 @ 16:45:39**

TEST COMMENT: IF B of B 30 s
ISI Weak surface blow back
FF B of B 45 s
FSI B of B 45 m



PRESSURE SUMMARY

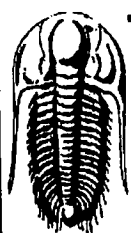
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	-1.40	82.66	Final Hydro-static
96	1810.28	105.29	Initial Hydro-static
97	163.21	105.07	Open To Flow (1)
111	438.76	110.65	Shut-in(1)
143	919.36	110.83	End Shut-in(1)
144	459.04	109.74	Open To Flow (2)
171	759.49	111.07	Shut-in(2)
232	917.40	110.66	End Shut-in(2)
233	1738.92	111.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
700.00	SWcut O 10%W 90%O	9.82
182.00	SW cut Oil 20%W 80%O	2.55
868.00	SW 1%O 99%SW	12.18
0.00	360 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L Loeb

Schmidt AC #3

PO Box 524
Lawrenceville IL 62430-0524

33 12 17 Ellis KS

Job Ticket: 28247

DST#: 2

ATTN: Jon Christensen

Test Start: 2007.04.28 @ 16:45:34

Tool Information

Drill Pipe:	Length: 3572.00 ft	Diameter: 3.80 inches	Volume: 50.11 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	50.11 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3574.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	96.00 ft				
Tool Length:	124.00 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			3547.00	
Shut In Tool	5.00			3552.00	
Hydraulic tool	5.00			3557.00	
Jars	5.00			3562.00	
Safety Joint	3.00			3565.00	
Packer	4.00			3569.00	28.00 Bottom Of Top Packer
Packer	5.00			3574.00	
Stubb	1.00			3575.00	
Perforations	1.00			3576.00	
Recorder	0.00	6669	Inside	3576.00	
Perforations	14.00			3590.00	
Recorder	0.00	24174	Outside	3590.00	
Blank Off Sub	1.00			3591.00	96.00 Tool Interval
Packer	0.00			3591.00	
Stubb	1.00			3592.00	
Perforations	10.00			3602.00	
Change Over Sub	1.00			3603.00	
Recorder	0.00	11084		3603.00	
Blank Spacing	62.00			3665.00	
Change Over Sub	1.00			3666.00	
Perforations	1.00			3667.00	
Bullnose	3.00			3670.00	1000123.00 Bottom Packers & Anchor

Total Tool Length: 124.00



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33 12 17 Ellis KS

Job Ticket: 28247

DST#: 2

ATTN: Jon Christensen

Test Start: 2007.04.28 @ 16:45:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
700.00	SWcut O 10%W 90%O	9.819
182.00	SW cut Oil 20%W 80%O	2.553
868.00	SW 1%O 99%SW	12.176
0.00	360 GIP	0.000

Total Length: 1750.00 ft

Total Volume: 24.548 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

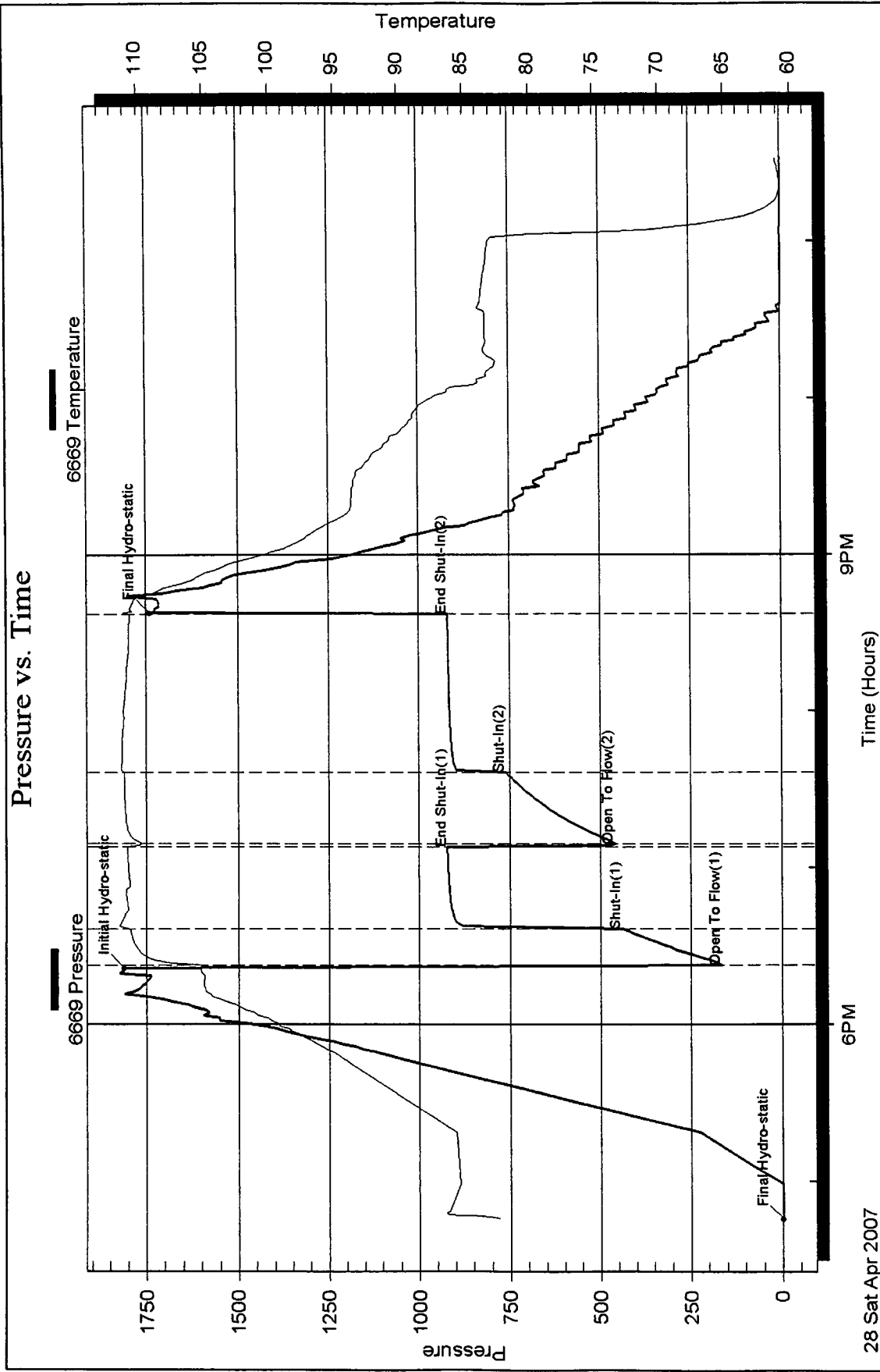
Serial #: 6669

Inside

Herman L Loeb

33 12 17 Ellis KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 28247

Printed: 2007.05.03 @ 12:36:15 Page 5