

DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

529 E 14th Box 871
Russell Ks 67885

ATTN: Gary Brungardt

32-9-12-Osborne-Ks

Kendig A # 1

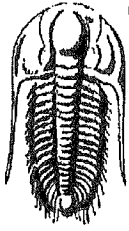
Start Date: 2010.07.27 @ 09:07:47

End Date: 2010.07.27 @ 16:30:16

Job Ticket #: 039906 DST #: 1

RECEIVED
OCT 01 2010
KCC WICHITA

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

Kendig A # 1

529 E 14th Box 871
Russell Ks 67885

32-9-12-Osborne-Ks

Job Ticket: 039906

DST#: 1

ATTN: Gary Brungardt

Test Start: 2010.07.27 @ 09:07:47

GENERAL INFORMATION:

Formation: **A LKC**

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

Time Tool Opened: 11:57:46

Time Test Ended: 16:30:16

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **38**

Interval: 3203.00 ft (KB) To 3236.00 ft (KB) (TVD)

Reference Elevations: **1976.00 ft (KB)**

Total Depth: **3236.00 ft (KB) (TVD)**

1971.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **5.00 ft**

Serial #: 8354

Inside

Press@RunDepth: **84.26 psig @ 3204.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.07.27** End Date: **2010.07.27**

Last Calib.: **2010.07.27**

Start Time: **09:07:47** End Time: **16:30:16**

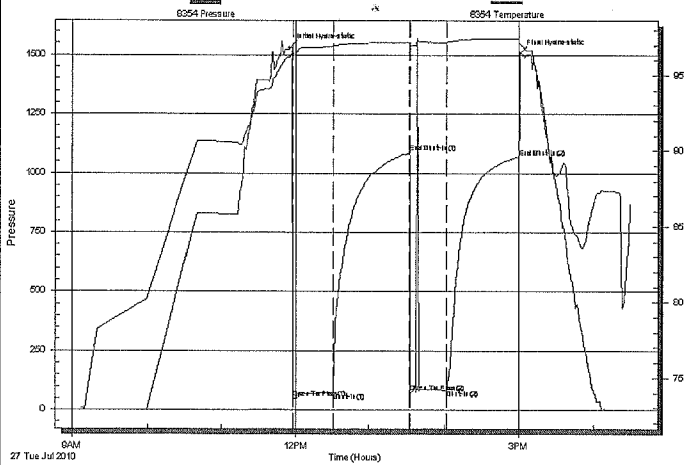
Time On Btm: **2010.07.27 @ 11:55:16**

Time Off Btm: **2010.07.27 @ 15:00:46**

TEST COMMENT: IF-Slid tool 30' to bottom - Bled off blow - Weak 1/2" intermittent blow for 25 min

FF-No blow - flushed tool - Weak blow died in 10 min

Pressure vs. Time



PRESSURE SUMMARY

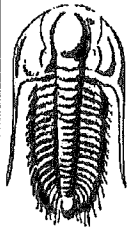
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1530.34	96.18	Initial Hydro-static
3	48.35	96.34	Open To Flow (1)
36	73.40	96.90	Shut-In(1)
97	1086.06	97.17	End Shut-In(1)
98	75.71	96.91	Open To Flow (2)
127	84.26	97.19	Shut-In(2)
185	1069.30	97.43	End Shut-In(2)
186	1507.75	97.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud w / oil spots in tool	0.59

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing Inc

Kendig A # 1

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32-9-12-Osborne-Ks

Job Ticket: 039906

DST#: 1

ATTN: Gary Brungardt

Test Start: 2010.07.27 @ 09:07:47

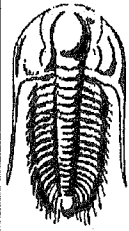
Tool Information

Drill Pipe:	Length: 2933.00 ft	Diameter: 3.88 inches	Volume: 42.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.24 bbl</u>	Tool Chased 30.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3203.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3184.00	
Shut In Tool	5.00			3189.00	
Hydraulic tool	5.00			3194.00	
Packer	5.00			3199.00	20.00 Bottom Of Top Packer
Packer	4.00			3203.00	
Stubb	1.00			3204.00	
Recorder	0.00	8354	Inside	3204.00	
Recorder	0.00	8520	Outside	3204.00	
Perforations	29.00			3233.00	
Bullnose	3.00			3236.00	33.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



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FLUID SUMMARY

Brungardt Oil & Leasing Inc

Kendig A # 1

529 E 14th Box 871
Russell Ks 67885

32-9-12-Osborne-Ks

Job Ticket: 039906

DST#: 1

ATTN: Gary Brungardt

Test Start: 2010.07.27 @ 09:07:47

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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud w / oil spots in tool	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

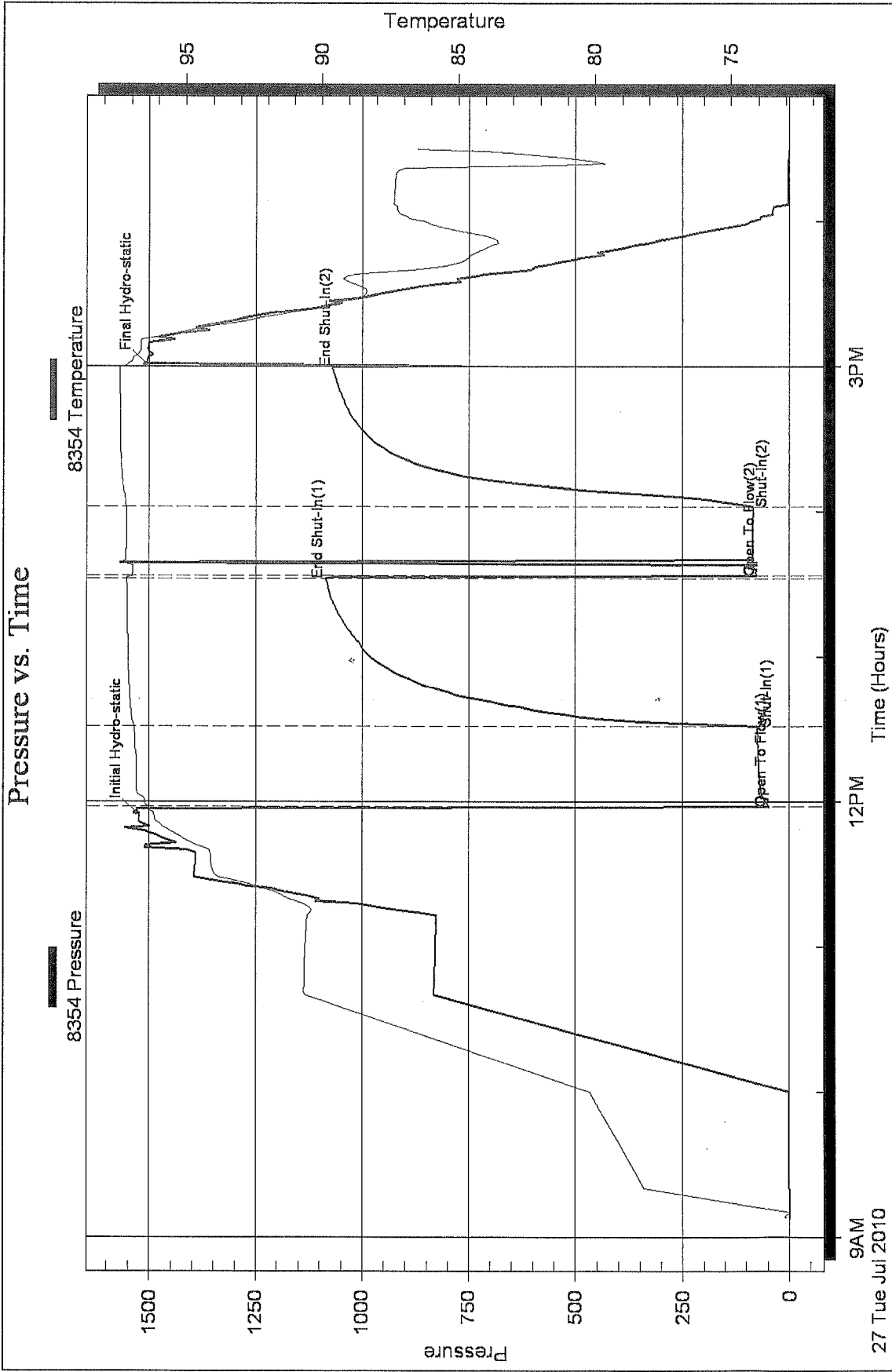
Inside

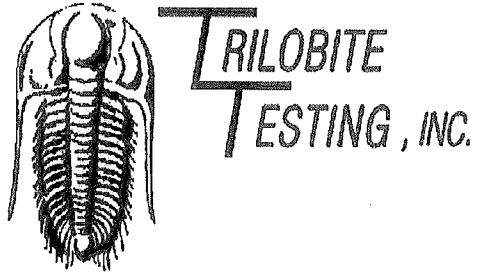
Brungardt Oil & Leasing Inc

32-9-12-Osborne-Ks

DST Test Number: 1

Pressure vs. Time





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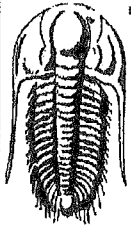
Kendig A # 1

Start Date: 2010.07.28 @ 00:50:44

End Date: 2010.07.28 @ 07:08:43

Job Ticket #: 039907 DST #: 2

Trilobite Testing, Inc
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DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

Kendig A # 1

529 E 14th Box 871
Russell Ks 67885

32-9-12-Osborne-Ks

Job Ticket: 039907

DST#: 2

ATTN: Gary Brungardt

Test Start: 2010.07.28 @ 00:50:44

GENERAL INFORMATION:

Formation: **B LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:39:58

Time Test Ended: 07:08:43

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3233.00 ft (KB) To 3270.00 ft (KB) (TVD)**

Reference Elevations: 1976.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press@RunDepth: 32.63 psig @ 3234.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.28

End Date:

2010.07.28

Last Calib.:

2010.07.28

Start Time: 00:50:44

End Time:

07:08:43

Time On Btm:

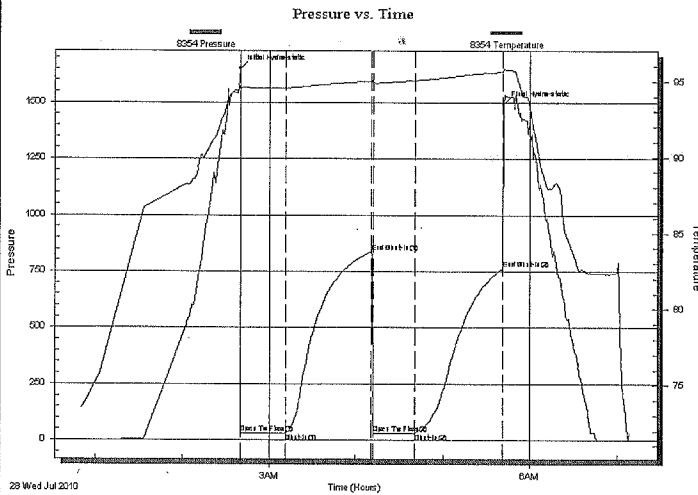
2010.07.28 @ 02:39:28

Time Off Btm:

2010.07.28 @ 05:41:43

TEST COMMENT: IF-Slid tool 10' to bottom - Bled off blow - Weak blow for 10 min - died

FF-No blow



PRESSURE SUMMARY

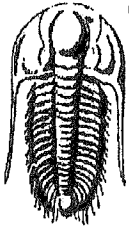
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.98	94.82	Initial Hydro-static
1	29.37	94.50	Open To Flow (1)
32	31.30	94.57	Shut-In(1)
92	837.16	95.03	End Shut-In(1)
93	31.72	94.84	Open To Flow (2)
122	32.63	95.07	Shut-In(2)
182	762.89	95.62	End Shut-In(2)
183	1491.89	95.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w / show of oil in tool	0.10

Gas Rates

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



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TOOL DIAGRAM

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Kendig A # 1

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Job Ticket: 039907

DST#: 2

ATTN: Gary Brungardt

Test Start: 2010.07.28 @ 00:50:44

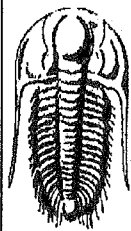
Tool Information

Drill Pipe:	Length: 2954.00 ft	Diameter: 3.88 inches	Volume: 43.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.55 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3233.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3214.00	
Shut In Tool	5.00			3219.00	
Hydraulic tool	5.00			3224.00	
Packer	5.00			3229.00	20.00 Bottom Of Top Packer
Packer	4.00			3233.00	
Stubb	1.00			3234.00	
Recorder	0.00	8354	Inside	3234.00	
Recorder	0.00	8520	Outside	3234.00	
Perforations	33.00			3267.00	
Bullnose	3.00			3270.00	37.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



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Job Ticket: 039907

DST#: 2

ATTN: Gary Brungardt

Test Start: 2010.07.28 @ 00:50:44

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w/ show of oil in tool	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

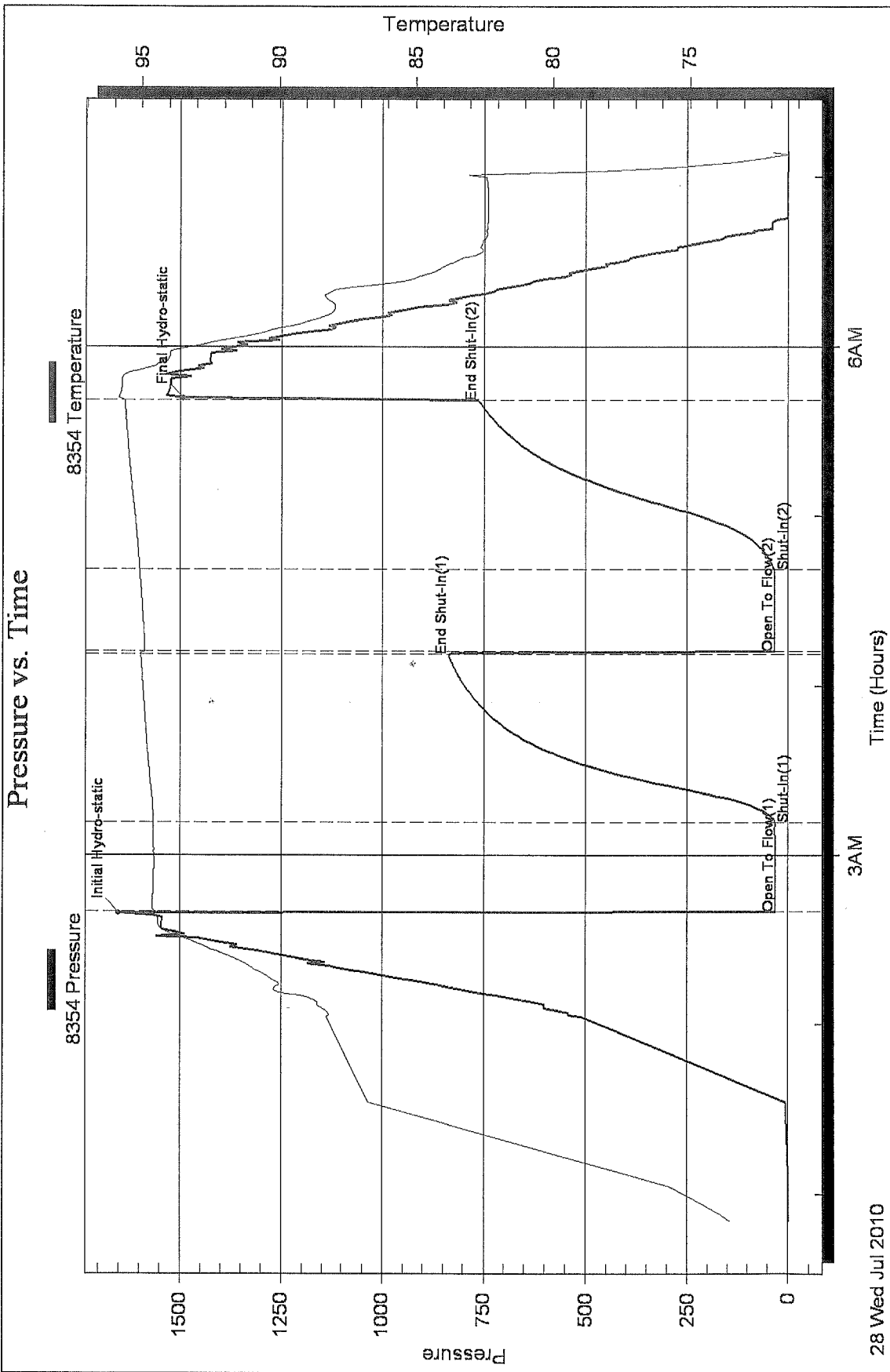
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



28 Wed Jul 2010

3AM

6AM

Time (Hours)