

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Wildcat Oil & Gas**

PO Box 40  
Spivey, KS 67142

ATTN: Tim Pierce

**Liebl #6**

**27-34s-11w Barber,KS**

Start Date: 2011.11.12 @ 09:00:15

End Date: 2011.11.12 @ 13:45:00

Job Ticket #: 44035                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.23 @ 16:09:24

Wildcat Oil & Gas      27-34s-11w Barber,KS      Liebl #6      DST # 1      Indian Cave      2011.11.12



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Wildcat Oil & Gas  
PO Box 40  
Spivey, KS 67142  
ATTN: Tim Fierce

27-34s-11w Barber, KS

Liebl #6

Job Ticket: 44035

DST#: 1

Test Start: 2011.11.12 @ 09:00:15

### GENERAL INFORMATION:

Formation: **Indian Cave**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:25:00  
Time Test Ended: 13:45:00  
Interval: 2619.00 ft (KB) To 2655.00 ft (KB) (TVD)  
Total Depth: 2655.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)  
Tester: Leal Cason  
Unit No: 45  
Reference Elevations: 1329.00 ft (KB)  
1319.00 ft (CF)  
KB to GR/CF: 10.00 ft

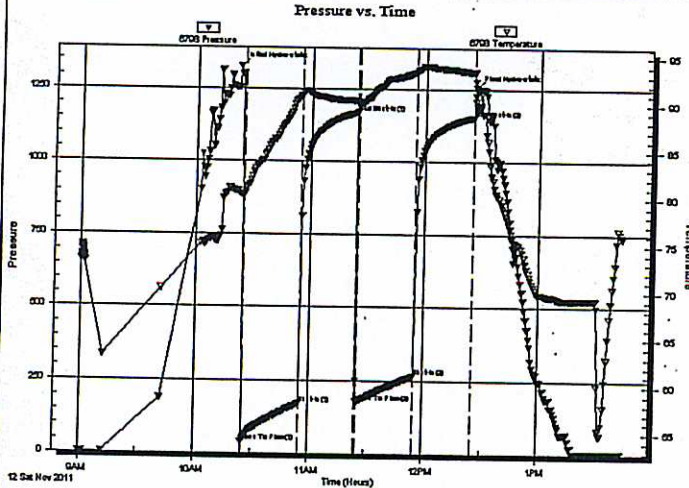
### Serial #: 6798

Inside

Press@RunDepth: 265.35 psig @ 2620.00 ft (KB)  
Start Date: 2011.11.12 End Date: 2011.11.12  
Start Time: 09:00:16 End Time: 13:45:00

Capacity: 8000.00 psig  
Last Calib.: 2011.11.12  
Time On Btm: 2011.11.12 @ 10:22:45  
Time Off Btm: 2011.11.12 @ 12:26:00

TEST COMMENT: IF: Fair Blow, BOB in 7 minutes  
ISI: No Blow  
FF: Weak Blow, BOB in 18 minutes  
FSI: No Blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1326.18	80.45	Initial Hydro-static
3	38.24	80.25	Open To Flow (1)
33	171.65	90.91	Shut-In(1)
62	1169.13	90.35	End Shut-In(1)
63	177.80	89.99	Open To Flow (2)
93	265.35	93.47	Shut-In(2)
123	1152.29	93.47	End Shut-In(2)
124	1254.59	90.31	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
372.00	Water	4.12
206.00	MCW 40%M 60%W	2.89

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Wildcat Oil & Gas

**27-34s-11w Barber,KS**

PO Box 40  
Spivey, KS 67142

**Liebl #6**

Job Ticket: 44035

**DST#: 1**

ATTN: Tim Pierce

Test Start: 2011.11.12 @ 09:00:15

## Tool Information

Drill Pipe:	Length: 2487.00 ft	Diameter: 3.80 inches	Volume: 34.89 bbl	Tool Weight: 2100.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 35.49 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2619.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	56.00 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			2604.00	
Hydraulic tool	5.00			2609.00	
Packer	5.00			2614.00	20.00 Bottom Of Top Packer
Packer	5.00			2619.00	
Stubb	1.00			2620.00	
Recorder	0.00	6798	Inside	2620.00	
Recorder	0.00	8367	Outside	2620.00	
Perforations	32.00			2652.00	
Bullnose	3.00			2655.00	36.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>56.00</b>				





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Wildcat Oil & Gas

27-34s-11w Barber,KS

PO Box 40  
Spivey, KS 67142

Liebl #6

Job Ticket: 44035

DST#: 1

ATTN: Tim Pierce

Test Start: 2011.11.12 @ 09:00:15

**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:

12000 ppm

Viscosity: 33.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
372.00	Water	4.116
206.00	MCW40%M60%W	2.890

Total Length: 578.00 ft      Total Volume: 7.006 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .05 @ 75 degrees

Serial #: 6798

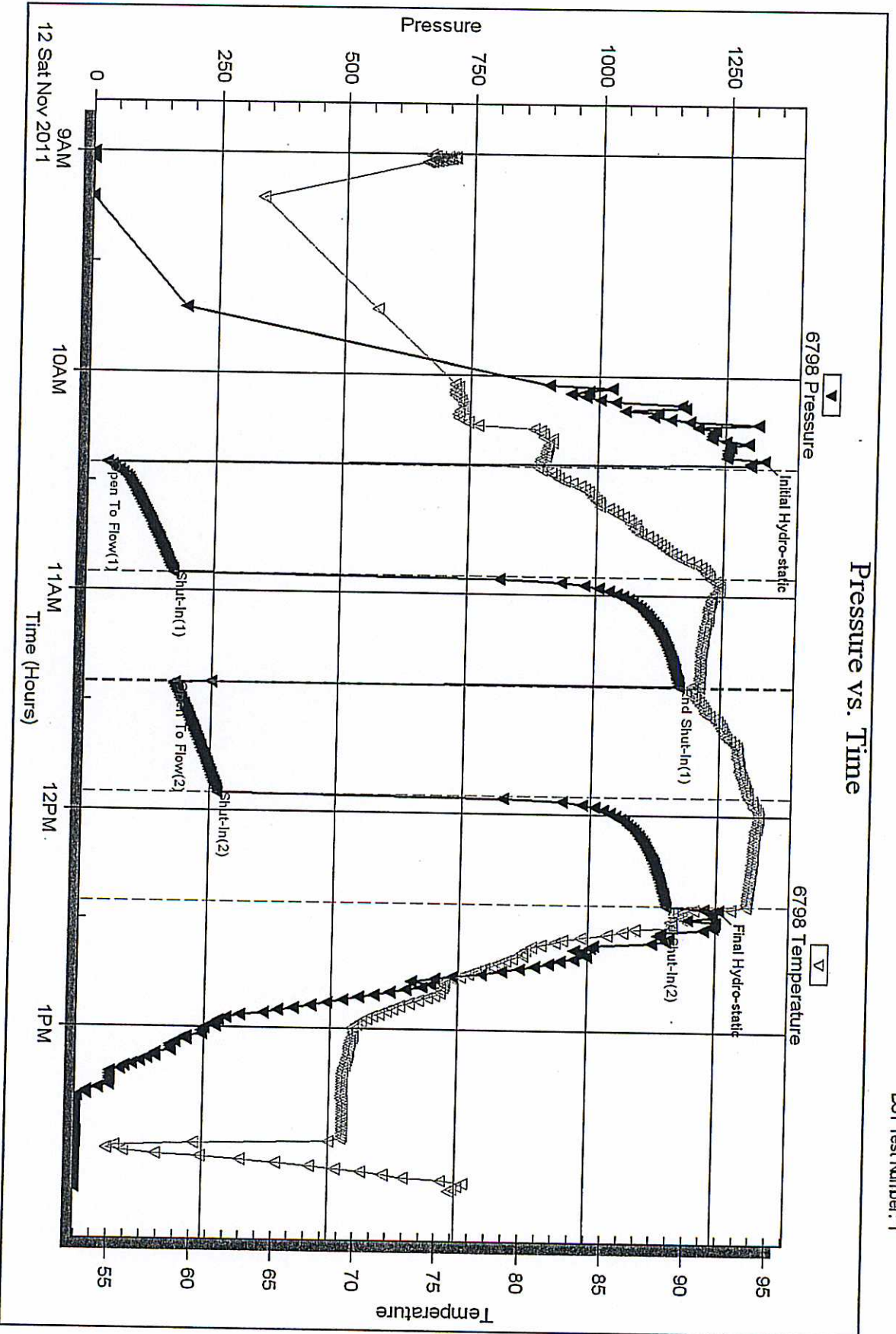
Inside

Wildcat Oil & Gas

Lebl #6

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 44035

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Wildcat Oil & Gas**

PO Box 40  
Spivey, KS 67142

ATTN: Tim Pierce

**Liebl #6**

**27-34s-11w Barber,KS**

Start Date: 2011.11.15 @ 04:55:00

End Date: 2011.11.15 @ 13:14:00

Job Ticket #: 44077                      DST #: 2

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

Printed: 2011.11.23 @ 16:09:39

Wildcat Oil & Gas      27-34s-11w Barber,KS      Liebl #6      DST # 2      Simpson Sand      2011.11.15





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Wildcat Oil & Gas

27-34s-11w Barber, KS

PO Box 40  
Spivey, KS 67142

Liebl #6

Job Ticket: 44077

DST#: 2

ATTN: Tim Pierce

Test Start: 2011.11.15 @ 04:55:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:35:00  
 Time Test Ended: 13:14:00

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Randy Williams  
 Unit No: 56

Interval: 5064.00 ft (KB) To 5090.00 ft (KB) (TVD)  
 Total Depth: 5090.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1329.00 ft (KB)  
 1319.00 ft (CF)  
 KB to GRVCF: 10.00 ft

## Serial #: 8370

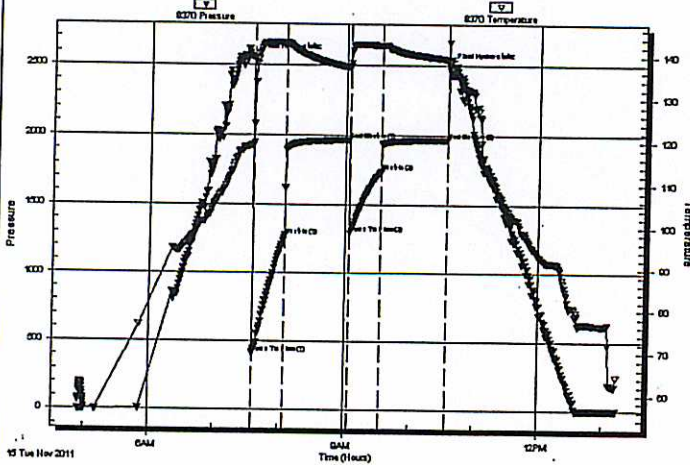
Outside

Press@RunDepth: 1743.59 psig @ 5065.00 ft (KB)  
 Start Date: 2011.11.15 End Date: 2011.11.15  
 Start Time: 04:55:05 End Time: 13:13:59

Capacity: 8000.00 psig  
 Last Calib.: 2011.11.15  
 Time On Btm: 2011.11.15 @ 07:34:30  
 Time Off Btm: 2011.11.15 @ 10:35:45

TEST COMMENT: IF-30- SBB, BOB 1 min  
 ISN-60- BB, Built to 7"  
 FF-30- SBB, BOB 1 min  
 FSN-60- BB, Built to 2"

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2551.65	119.08	Initial Hydro-static
1	409.47	119.61	Open To Flow (1)
30	1275.81	142.90	Shut-In(1)
89	1963.19	137.25	End Shut-In(1)
90	1294.37	137.54	Open To Flow (2)
119	1743.59	142.34	Shut-In(2)
180	1964.67	139.23	End Shut-In(2)
182	2492.65	136.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3290.00	W 100%	45.08
378.00	MV 20% M, 80% W	5.30

## Gas Rates

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Wildcat Oil & Gas

27-34s-11w Barber,KS

PO Box 40  
Spivey, KS 67142

Liebl #6

Job Ticket: 44077

DST#: 2

ATTN: Tim Fierce

Test Start: 2011.11.15 @ 04:55:00

## Tool Information

Drill Pipe:	Length: 4946.00 ft	Diameter: 3.80 inches	Volume: 69.38 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 96000.00 lb
			<u>Total Volume: 69.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	5064.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5037.00	
Shut in tool	5.00			5042.00	
H/W	5.00			5047.00	
Jars	5.00			5052.00	
Safety Joint	3.00			5055.00	
Packer	4.00			5059.00	28.00 Bottom Of Top Packer
Packer	5.00			5064.00	
Stubb	1.00			5065.00	
Recorder	0.00	8167	Inside	5065.00	
Recorder	0.00	8370	Outside	5065.00	
Perforations	17.00			5082.00	
Bullnose	5.00			5087.00	23.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>51.00</b>				





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PO Box 40  
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Liebl #6

Job Ticket: 44077

DST#: 2

ATTN: Tim Pierce

Test Start: 2011.11.15 @ 04:55:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 7.95 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 5.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 48000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3290.00	W 100%	45.084
378.00	MV 20% M, 80% W	5.302

Total Length: 3668.00ft      Total Volume: 50.386 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw. 0.14 @ 62 deg

Serial #: 8370

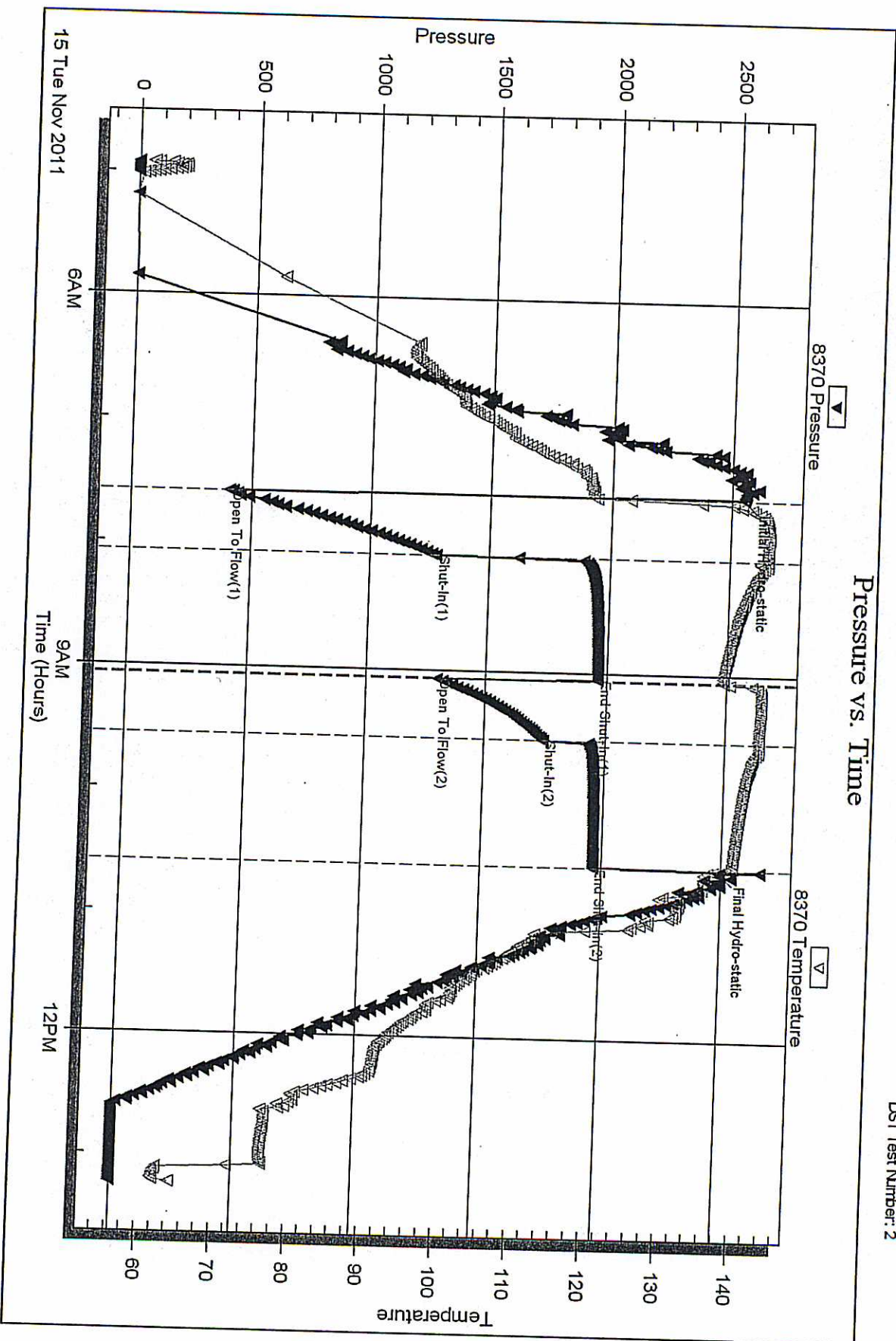
Outside

Wildcat Oil & Gas

Liebl #6

DST Test Number: 2

# Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 44077

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