



## DRILL STEM TEST REPORT

Prepared For: **Michael Weilert Oil Company**

866 230th Avenue  
Hays, Kansas 67601+9605

ATTN: Roger Moses

**Wann #1**

**7/14S/19W/Ellis**

Start Date: 2012.10.26 @ 03:00:00

End Date: 2012.10.28 @ 00:00:00

Job Ticket #: 16907                      DST #: 6

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2012.10.28 @ 23:17:32

Michael Weilert Oil Company  
7/14S/19W/Ellis  
Wann #1  
DST # 6  
Arbuckle  
2012.10.26



# DRILL STEM TEST REPORT

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**Wann #1**

Job Ticket: 16907

**DST#: 6**

ATTN: Roger Moses

Test Start: 2012.10.26 @ 03:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

**Interval: 3820.00 ft (KB) To 3878.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6651 Outside**

Press @ RunDepth: psia @ 3904.49 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26

End Date: 2012.10.26

Last Calib.: 2012.10.28

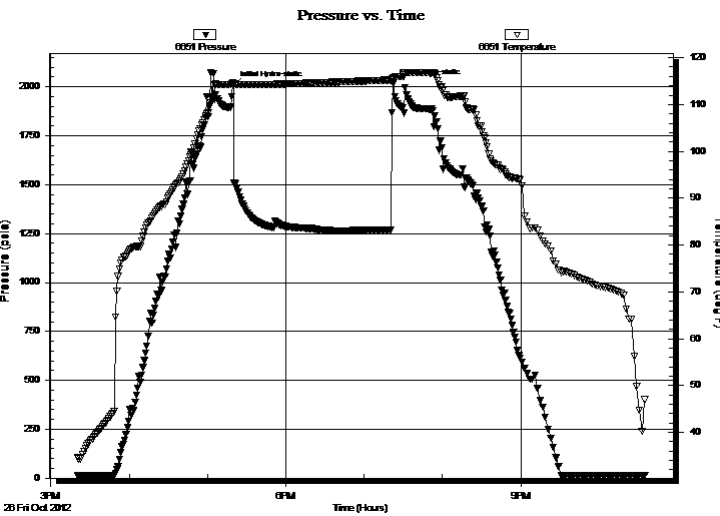
Start Time: 08:00:00

End Time: 22:36:00

Time On Btm: 2012.10.26 @ 17:20:00

Time Off Btm: 2012.10.26 @ 19:22:30

**TEST COMMENT:** 1ST Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 minutes  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 1/2 minutes  
 2ND Shut In 30 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2006.04	114.45	Initial Hydro-static
123	2018.61	115.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1260.00	Muddy Water	17.67
0.00	Mud 5% Water 95%	0.00
0.00	Recovery Chorides 34000ppm	0.00
0.00	Recov. Resist. .21 ohms @ 60 deg.	0.00

## Gas Rates

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



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Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: **3820.00 ft (KB) To 3878.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6749** Inside

Press @ Run Depth: 1242.21 psia @ 3870.05 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26

End Date: 2012.10.26

Last Calib.: 2012.10.28

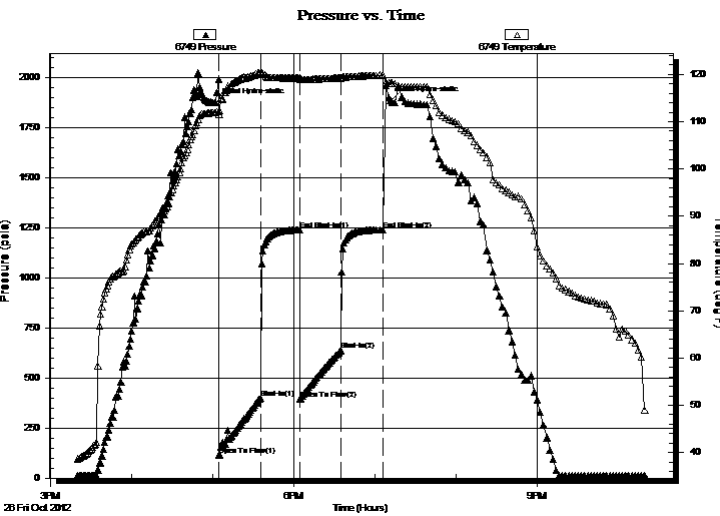
Start Time: 08:00:00

End Time: 22:20:40

Time On Btm: 2012.10.26 @ 17:02:30

Time Off Btm: 2012.10.26 @ 19:11:40

TEST COMMENT: 1ST Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 minutes  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 1/2 minutes  
 2ND Shut In 30 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1878.26	111.98	Initial Hydro-static
3	115.54	111.54	Open To Flow (1)
33	401.25	120.33	Shut-In(1)
62	1241.44	119.22	End Shut-In(1)
63	397.30	118.92	Open To Flow (2)
93	638.97	119.25	Shut-In(2)
124	1242.21	119.87	End Shut-In(2)
130	1887.34	118.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1260.00	Muddy Water	17.67
0.00	Mud 5% Water 95%	0.00
0.00	Recovery Chorides 34000ppm	0.00
0.00	Recov. Resist. .21 ohms @ 60 deg.	0.00

## Gas Rates

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



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**7/14S/19W/Ellis**

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**Wann #1**

Job Ticket: 16907

**DST#: 6**

ATTN: Roger Moses

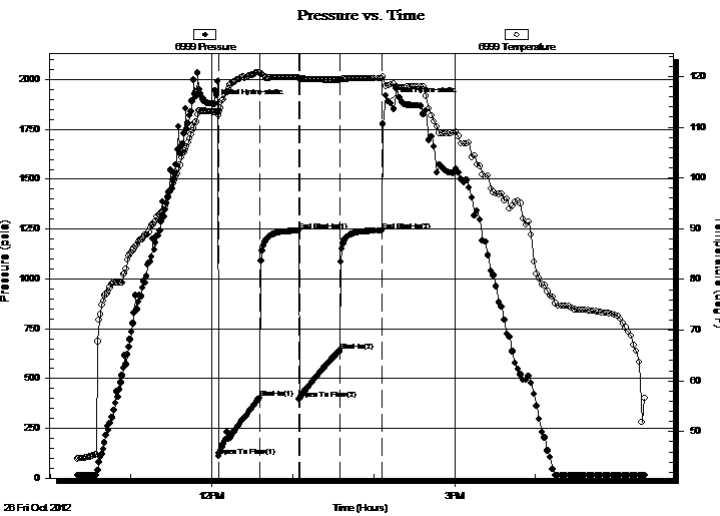
Test Start: 2012.10.26 @ 03:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3820.00 ft (KB) To 3878.00 ft (KB) (TVD)**  
 Total Depth: 3911.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Hays/14  
 Reference Elevations: 2217.00 ft (KB)  
 2212.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6999 Outside**  
 Press @ Run Depth: 1241.91 psia @ 3870.05 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.10.26 End Date: 2012.10.26 Last Calib.: 2012.10.28  
 Start Time: 03:00:00 End Time: 17:21:00 Time On Btm: 2012.10.26 @ 12:02:00  
 Time Off Btm: 2012.10.26 @ 14:11:00

**TEST COMMENT:** 1ST Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 minutes  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 4 1/2 minutes  
 2ND Shut In 30 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1877.91	112.98	Initial Hydro-static
3	109.59	112.38	Open To Flow (1)
34	402.15	120.82	Shut-In(1)
63	1241.06	119.79	End Shut-In(1)
63	396.55	119.58	Open To Flow (2)
93	639.41	119.30	Shut-In(2)
124	1241.91	119.65	End Shut-In(2)
129	1890.78	118.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1260.00	Muddy Water	17.67
0.00	Mud 5% Water 95%	0.00
0.00	Recovery Chorides 34000ppm	0.00
0.00	Recov. Resist. .21 ohms @ 60 deg.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Michael Weilert Oil Company

**7/14S/19W/Ellis**

866 230th Avenue  
Hays, Kansas 67601+9605

**Wann #1**

Job Ticket: 16907

**DST#: 6**

ATTN: Roger Moses

Test Start: 2012.10.26 @ 03:00:00

## Tool Information

Drill Pipe:	Length: 3800.00 ft	Diameter: 3.80 inches	Volume: 53.30 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 43000.00 lb
			<u>Total Volume: 53.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.18 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3820.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	3907.49 ft			
Interval between Packers:	87.49 ft			
Tool Length:	112.67 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments: Drop bar on circulating sub

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3799.82	
Hydraulic Tool	5.00			3804.82	
Jars	5.00			3809.82	
Safety Joint	2.00			3811.82	
Packer	5.00			3816.82	25.18 Bottom Of Top Packer
Packer	3.18			3820.00	
Perforations	5.00			3825.00	
Change Over Sub	0.79			3825.79	
Drill Pipe	31.60			3857.39	
Change Over Sub	0.66			3858.05	
Perforations	12.00			3870.05	
Recorder	0.00	6749	Inside	3870.05	
Recorder	0.00	6999	Outside	3870.05	
Blank Off Sub	0.67			3870.72	
Travel Collar	1.63			3872.35	
Packer Anchor Side	2.50			3874.85	
Packer Tail Side	2.64			3877.49	
Handling Sub	5.00			3882.49	
Perforations	22.00			3904.49	
Recorder	0.00	6651	Outside	3904.49	
Bullnose	3.00			3907.49	87.49 Bottom Packers & Anchor

**Total Tool Length: 112.67**



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## FLUID SUMMARY

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Job Ticket: 16907

**DST#: 6**

ATTN: Roger Moses

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 11.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 12200.00 ppm  
Filter Cake: 2.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1260.00	Muddy Water	17.674
0.00	Mud 5% Water 95%	0.000
0.00	Recovery Chorides 34000ppm	0.000
0.00	Recov. Resist. .21 ohms @ 60 deg.	0.000

Total Length: 1260.00 ft      Total Volume: 17.674 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

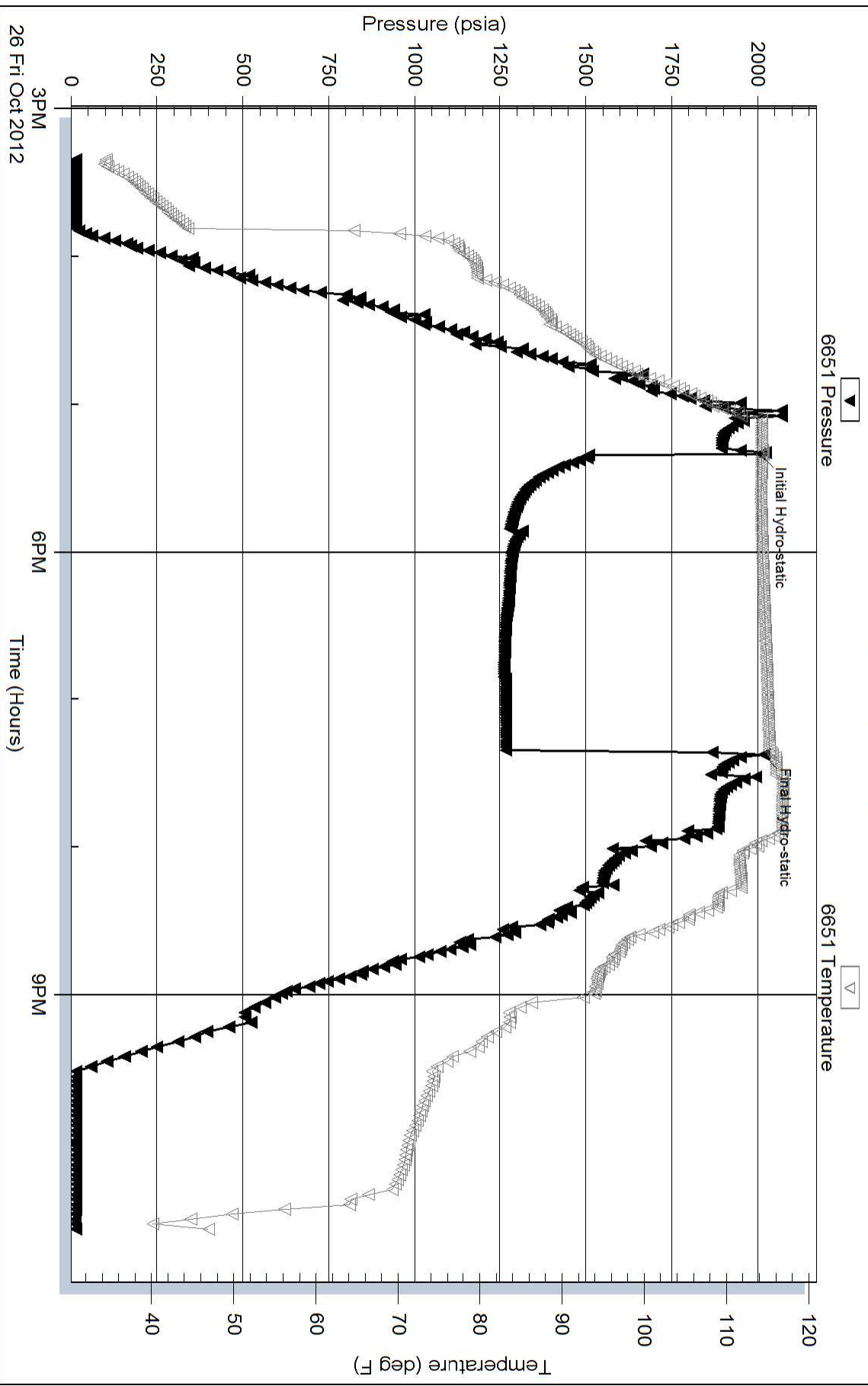
Serial #: 6651

Outside Michael Weibert Oil Company

Wann #1

DST Test Number: 6

# Pressure vs. Time



Serial #: 6749

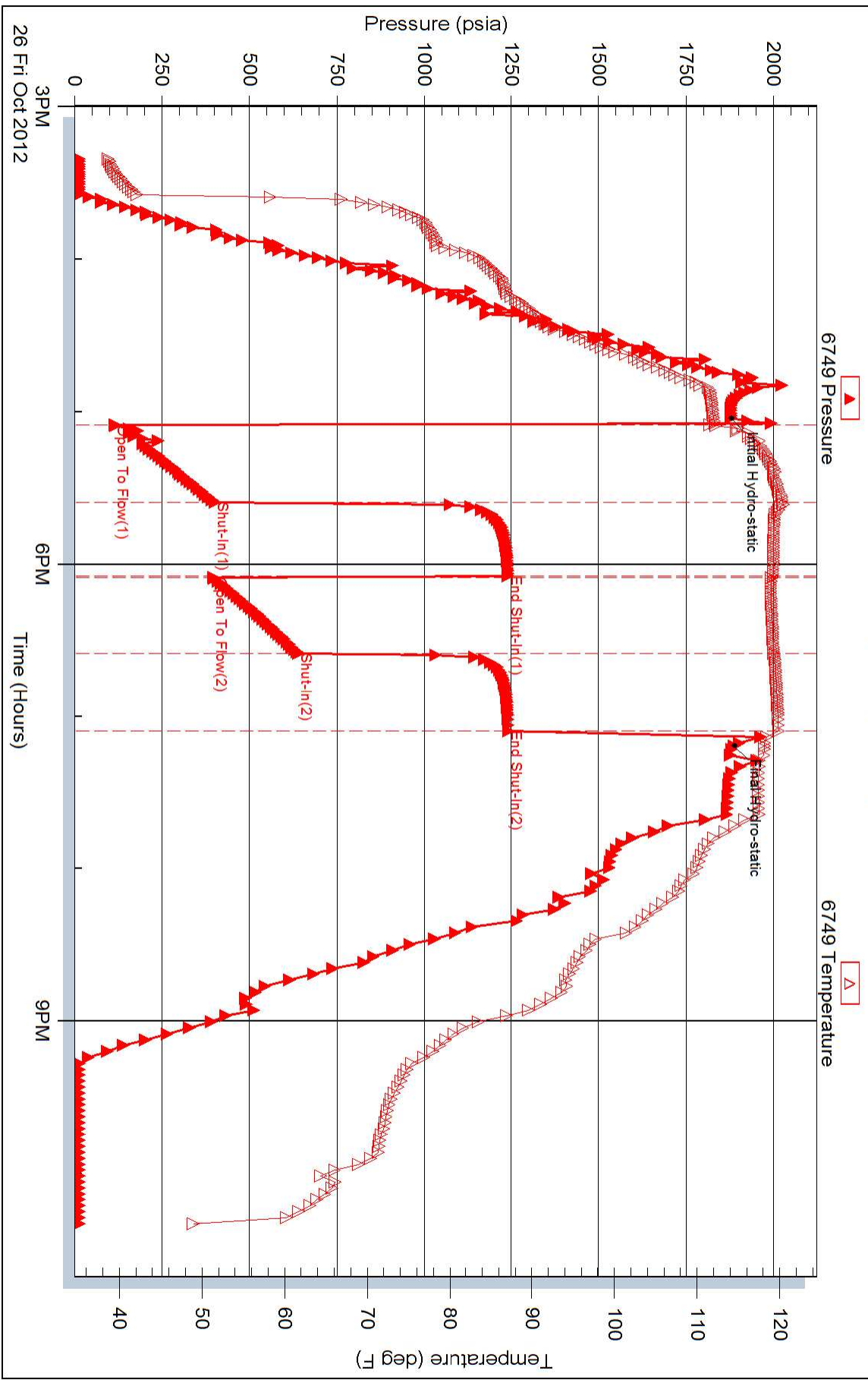
Inside

Michael Weibert Oil Company

Wann #1

DST Test Number: 6

### Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16907

Printed: 2012.10.28 @ 23:17:34



