



## 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: 2012.10.24 @ 11:03:00

End Date: 2012.10.24 @ 18:28:30

Job Ticket #: 16903                      DST #: 2

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

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Test Start: 2012.10.24 @ 11:03:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:25:30

Time Test Ended: 18:28:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

Interval: **3686.00 ft (KB) To 3775.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: **6749** Outside

Press @ RunDepth: 80.05 psia @ 3769.40 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.24 End Date: 2012.10.24

Last Calib.: 2012.10.24

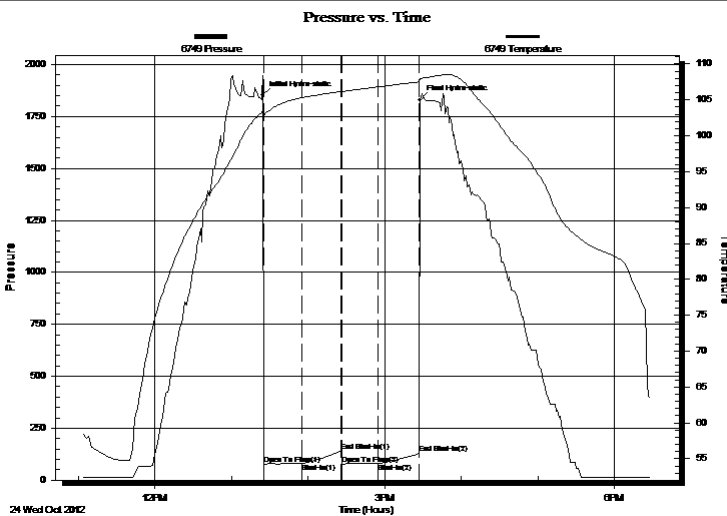
Start Time: 11:04:00 End Time: 18:28:30

Time On Btm: 2012.10.24 @ 13:24:00

Time Off Btm: 2012.10.24 @ 15:27:30

TEST COMMENT: 1ST Open 30 minutes/Weak blow /Blow built to 1 1/2 inches  
 1ST Shut In 30 minutes/No blow back  
 2ND Open 30 minutes/Weak blow /Blow built to 2 inches  
 2ND Shut In 30 minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1852.47	103.30	Initial Hydro-static
2	77.28	102.68	Open To Flow (1)
31	80.53	105.31	Shut-In(1)
62	140.25	106.16	End Shut-In(1)
63	77.60	106.17	Open To Flow (2)
91	80.05	106.82	Shut-In(2)
123	127.07	107.50	End Shut-In(2)
124	1828.86	107.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Slightly oil cut mud	0.35
0.00	Oil 3% Mud 97%	0.00

## Gas Rates

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





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Total Depth: 3880.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: **6999**

Inside

Press @ RunDepth: 125.97 psia @ 3769.40 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.24

End Date: 2012.10.24

Last Calib.: 2012.10.24

Start Time: 11:04:00

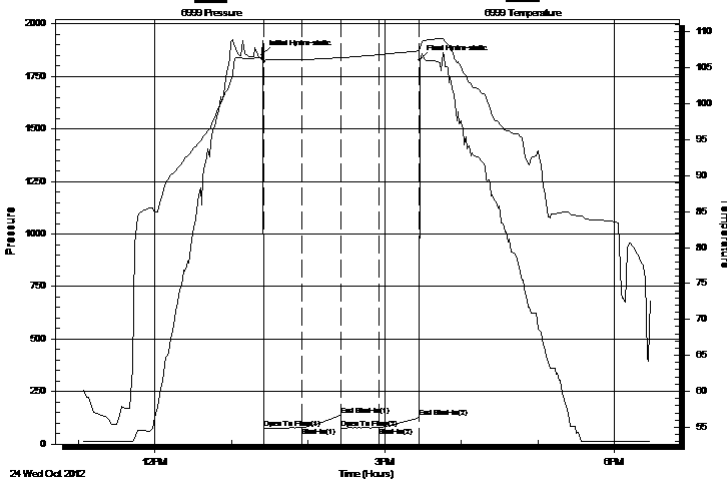
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 2ND Shut In 30 minutes/No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1851.71	106.40	Initial Hydro-static
2	75.22	105.71	Open To Flow (1)
31	78.61	106.17	Shut-In(1)
62	139.32	106.44	End Shut-In(1)
62	73.13	106.42	Open To Flow (2)
92	78.74	106.83	Shut-In(2)
123	125.97	107.36	End Shut-In(2)
124	1827.99	107.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Slightly oil cut mud	0.35
0.00	Oil 3% Mud 97%	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  
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**Wann #1**

Job Ticket: 16903

**DST#: 2**

ATTN: Roger Moses

Test Start: 2012.10.24 @ 11:03:00

## Tool Information

Drill Pipe:	Length: 3673.00 ft	Diameter: 3.80 inches	Volume: 51.52 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: 35000.00 lb
			<u>Total Volume: 51.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.83 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3686.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	3878.25 ft			
Interval between Packers:	192.25 ft			
Tool Length:	216.08 ft			
Number of Packers:	3	Diameter:	6.75 inches	

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3667.17	
Hydraulic Tool	5.00			3672.17	
Jars	5.00			3677.17	
Safety Joint	2.00			3679.17	
Packer	5.00			3684.17	23.83 Bottom Of Top Packer
Packer	1.83			3686.00	
Perforations	5.00			3691.00	
Change over sub	0.79			3691.79	
Drill Pipe	62.95			3754.74	
Change Over Sub	0.66			3755.40	
Handling Sub	5.00			3760.40	
Perforations	9.00			3769.40	
Recorder	0.00	6749	Outside	3769.40	
Recorder	0.00	6999	Inside	3769.40	
Blank Off Sub	0.67			3770.07	
Travel Collar	1.63			3771.70	
Packer Anchor side	1.61			3773.31	
Packer Tail side	1.60			3774.91	
Change Over Sub	0.64			3775.55	
Drill Pipe	93.04			3868.59	
Change Over Sub	0.66			3869.25	
Perforations	6.00			3875.25	
Recorder	0.00	6651		3875.25	
Bullnose	3.00			3878.25	192.25 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>216.08</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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Job Ticket: 16903

DST#: 2

ATTN: Roger Moses

Test Start: 2012.10.24 @ 11:03:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 46.00 sec/qt  
Water Loss: 9.96 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8000.00 ppm  
Filter Cake: 1.00 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
25.00	Slightly oil cut mud	0.351
0.00	Oil 3% Mud 97%	0.000

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

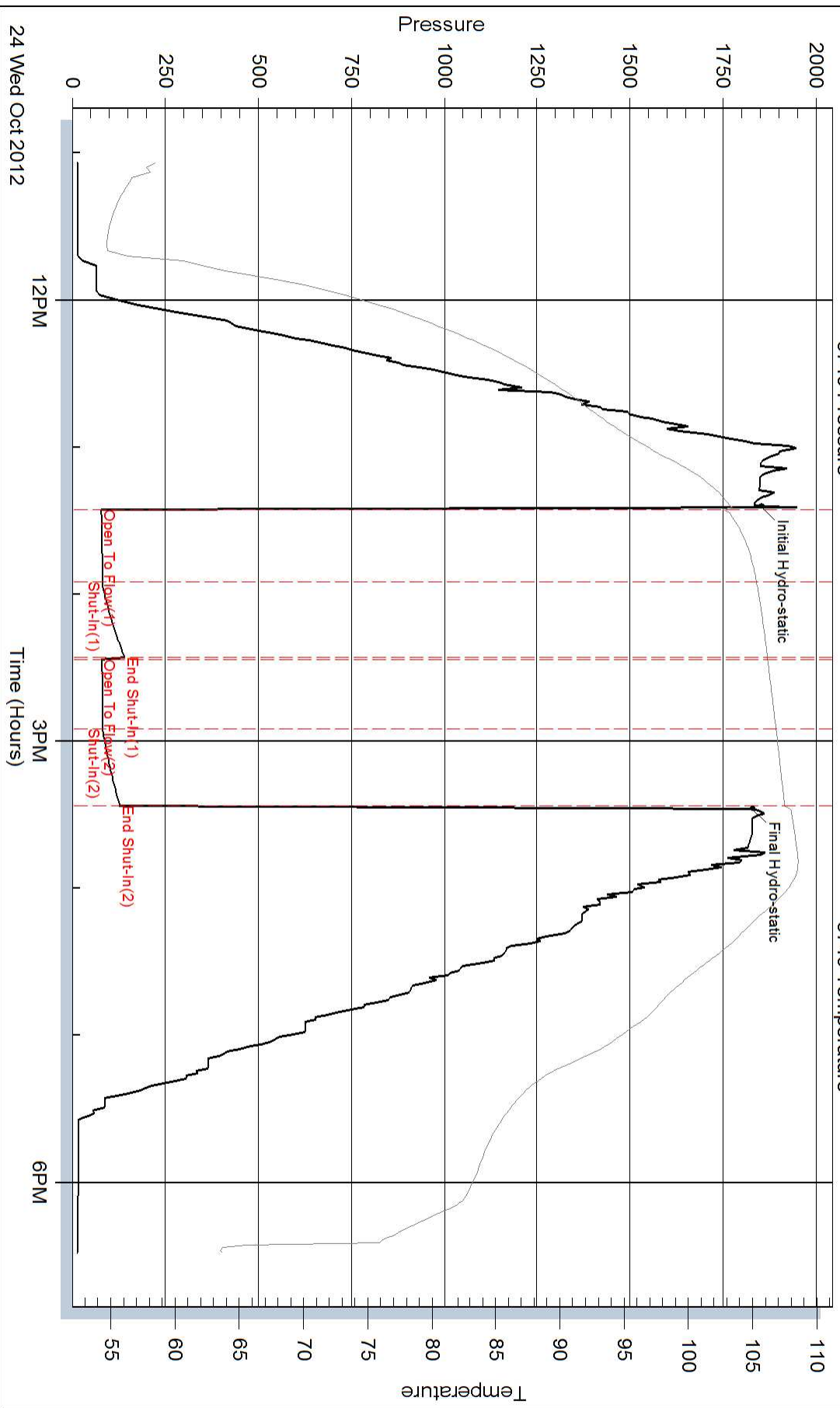
Serial #:

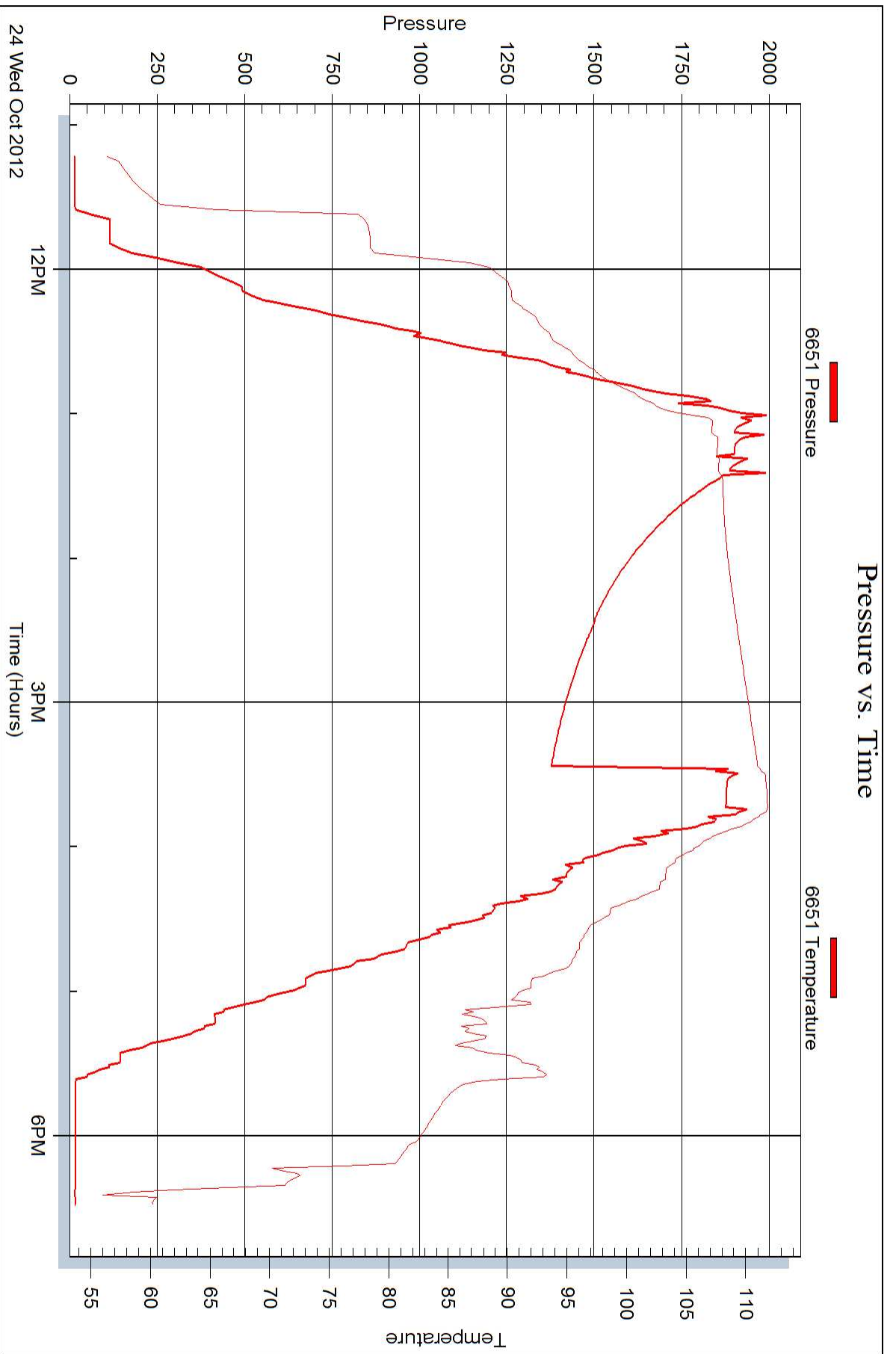
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







### Pressure vs. Time

