



## 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 @ 08:00:00

End Date: 2012.10.28 @ 00:00:00

Job Ticket #: 16906                      DST #: 5

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

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**Wann #1**

Job Ticket: 16906

**DST#: 5**

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Test Start: 2012.10.26 @ 08:00:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

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: 3552.00 ft (KB) To 3582.00 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 Below**

Press @ Run Depth: psia @ 3904.45 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26 End Date: 2012.10.26

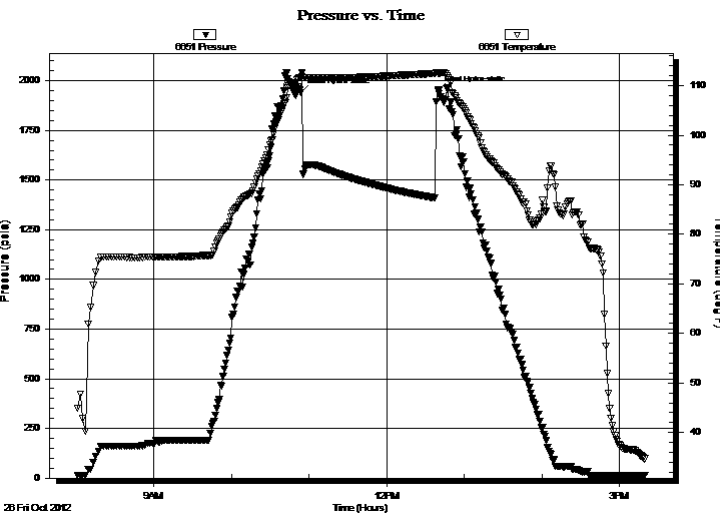
Last Calib.: 2012.10.28

Start Time: 08:00:00 End Time: 22:36:00

Time On Btm: 2012.10.26 @ 10:53:30

Time Off Btm: 2012.10.26 @ 12:40:00

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow /Blow built to 1 3/4 inches  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 15 Minutes/Weak surface blow /Blow did not build/Blow died in 13 1/2 minutes  
 2ND Shut In 30 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1938.34	111.68	Initial Hydro-static
107	1948.38	112.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

## Gas Rates

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



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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 @ RunDepth: 741.33 psia @ 3574.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26 End Date: 2012.10.26

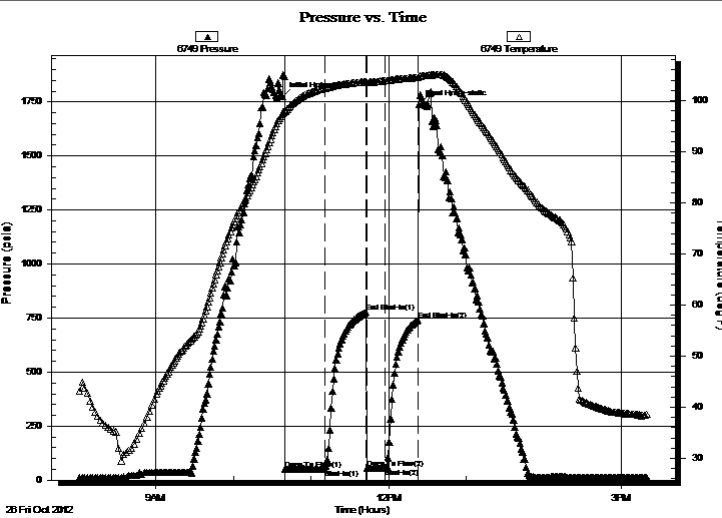
Last Calib.: 2012.10.28

Start Time: 08:00:00 End Time: 22:20:40

Time On Btm: 2012.10.26 @ 10:38:00

Time Off Btm: 2012.10.26 @ 12:23:30

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow /Blow built to 1 3/4 inches  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 15 Minutes/Weak surface blow /Blow did not build/Blow died in 13 1/2 minutes  
 2ND Shut In 30 Minutes/No blow back



## PRESSURE SUMMARY

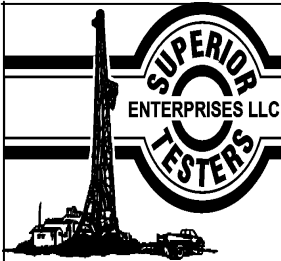
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1775.45	97.53	Initial Hydro-static
2	49.73	97.90	Open To Flow (1)
33	51.41	102.42	Shut-In(1)
65	777.20	103.72	End Shut-In(1)
65	53.79	103.50	Open To Flow (2)
80	54.91	103.90	Shut-In(2)
105	741.33	104.53	End Shut-In(2)
106	1739.31	104.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

## Gas Rates

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



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**Wann #1**

Job Ticket: 16906

**DST#: 5**

ATTN: Roger Moses

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Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

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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 #: 6999 Inside**

Press @ RunDepth: 740.62 psia @ 3574.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.26 End Date: 2012.10.26

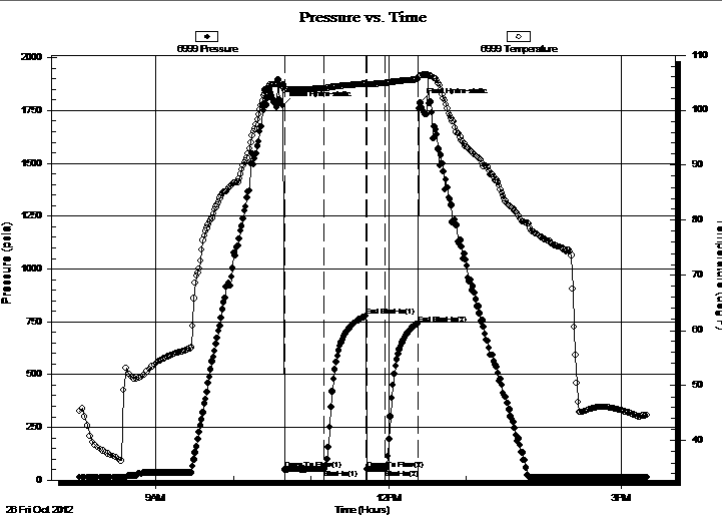
Last Calib.: 2012.10.28

Start Time: 08:00:00 End Time: 22:21:00

Time On Btm: 2012.10.26 @ 10:38:00

Time Off Btm: 2012.10.26 @ 12:24:30

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow /Blow built to 1 3/4 inches  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 15 Minutes/Weak surface blow /Blow did not build/Blow died in 13 1/2 minutes  
 2ND Shut In 30 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1772.52	104.33	Initial Hydro-static
2	48.92	103.61	Open To Flow (1)
32	50.19	103.93	Shut-In(1)
65	776.26	104.75	End Shut-In(1)
65	52.11	104.62	Open To Flow (2)
80	53.25	104.87	Shut-In(2)
105	740.62	105.51	End Shut-In(2)
107	1785.67	106.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Michael Weilert Oil Company

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

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**Wann #1**

Job Ticket: 16906

**DST#: 5**

ATTN: Roger Moses

Test Start: 2012.10.26 @ 08:00:00

## Tool Information

Drill Pipe:	Length: 3548.00 ft	Diameter: 3.80 inches	Volume: 49.77 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: 45000.00 lb
			<u>Total Volume: 49.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.18 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3552.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	3907.45 ft			
Interval between Packers:	355.45 ft			
Tool Length:	380.63 ft			
Number of Packers:	3	Diameter:	6.75 inches	

Tool Comments: Shale packer at top and bottom of test interval

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3531.82	
Hydraulic Tool	5.00			3536.82	
Jars	5.00			3541.82	
Safety Joint	2.00			3543.82	
Packer	5.00			3548.82	25.18 Bottom Of Top Packer
Packer	3.18			3552.00	
Handling Sub	5.00			3557.00	
Perforations	17.00			3574.00	
Recorder	0.00	6999	Inside	3574.00	
Recorder	0.00	6749	Inside	3574.00	
Blank Off Sub	0.67			3574.67	
Travel Collar	1.63			3576.30	
Packer Anchor Side	2.50			3578.80	
Packer Tail Side	2.64			3581.44	
Perforations	5.00			3586.44	
Change Over Sub	0.64			3587.08	
Drill Pipe	312.71			3899.79	
Change Over Sub	0.66			3900.45	
Perforations	4.00			3904.45	
Recorder	0.00	6651	Below	3904.45	
Bullnose	3.00			3907.45	355.45 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>380.63</b>				



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## FLUID SUMMARY

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DST#: 5

ATTN: Roger Moses

Test Start: 2012.10.26 @ 08:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 11.98 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
30.00	Mud 100%	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

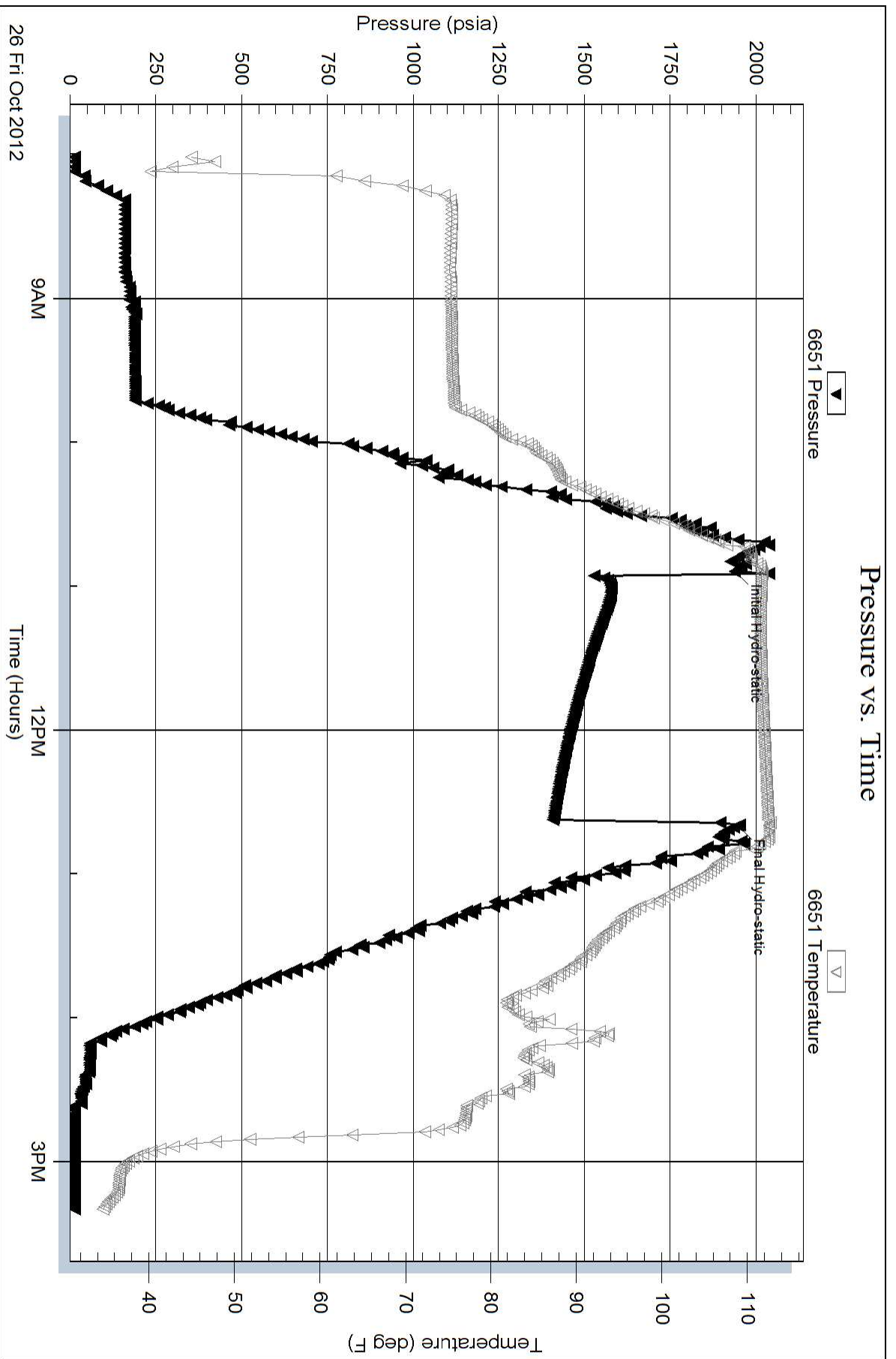
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time

