



## 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: 2012.10.25 @ 02:38:00

End Date: 2012.10.25 @ 09:51:30

Job Ticket #: 16904                      DST #: 3

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

Printed: 2012.10.28 @ 22:44:26

Michael Weilert Oil Company  
7/14S/19W/Ellis  
Wann #1  
DST # 3  
Arbuckle  
2012.10.25



# DRILL STEM TEST REPORT

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

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**Wann #1**

Job Ticket: 16904

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Test Start: 2012.10.25 @ 02:38:00

## GENERAL INFORMATION:

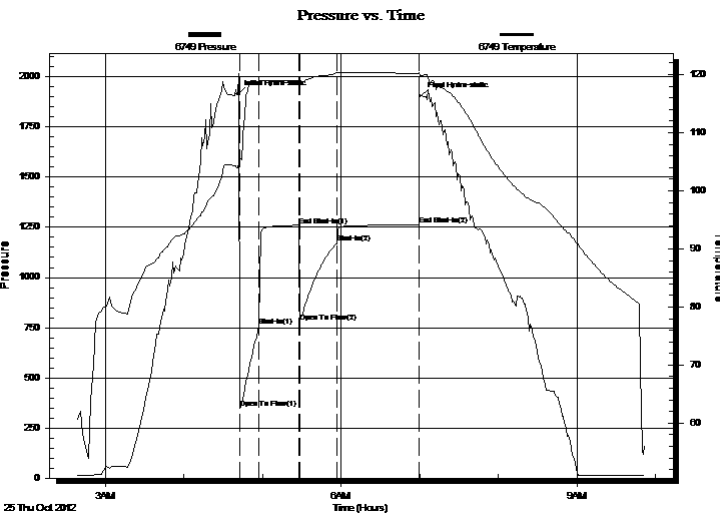
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:42:30  
 Time Test Ended: 09:51:30  
 Interval: **3831.00 ft (KB) To 3910.00 ft (KB) (TVD)**  
 Total Depth: 3910.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (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 #: 6749

Inside

Press @ Run Depth: 1170.98 psia @ 3906.10 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.10.25 End Date: 2012.10.25 Last Calib.: 2012.10.25  
 Start Time: 02:39:00 End Time: 09:51:30 Time On Btm: 2012.10.25 @ 04:41:00  
 Time Off Btm: 2012.10.25 @ 07:00:30

TEST COMMENT: 1ST Open 15 Minutes/Strong blow /Blow built to bottom of bucket in 1 minute 15 seconds  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 30 Minutes/Strong blow /Blow built to bottom of bucket in 1 minute 15 seconds  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1911.53	103.98	Initial Hydro-static
2	347.21	105.52	Open To Flow (1)
17	755.98	118.91	Shut-In(1)
47	1259.70	119.03	End Shut-In(1)
48	780.05	118.82	Open To Flow (2)
76	1170.98	120.31	Shut-In(2)
138	1261.27	120.20	End Shut-In(2)
140	1902.41	119.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2160.00	Muddy Water	30.30
0.00	Mud 15% Water 85%	0.00
0.00	Recovery Chlorides 24,000 ppm	0.00
0.00	Recov. Resist. .38 ohms @	0.00

## Gas Rates

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



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Job Ticket: 16904

**DST#: 3**

ATTN: Roger Moses

Test Start: 2012.10.25 @ 02:38:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:42:30

Time Test Ended: 09:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Hays/14

**Interval: 3831.00 ft (KB) To 3910.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3910.00 ft (KB) (TVD)

2212.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6999 Outside**

Press @ RunDepth: 1261.07 psia @ 3907.10 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.25

End Date: 2012.10.25

Last Calib.: 2012.10.25

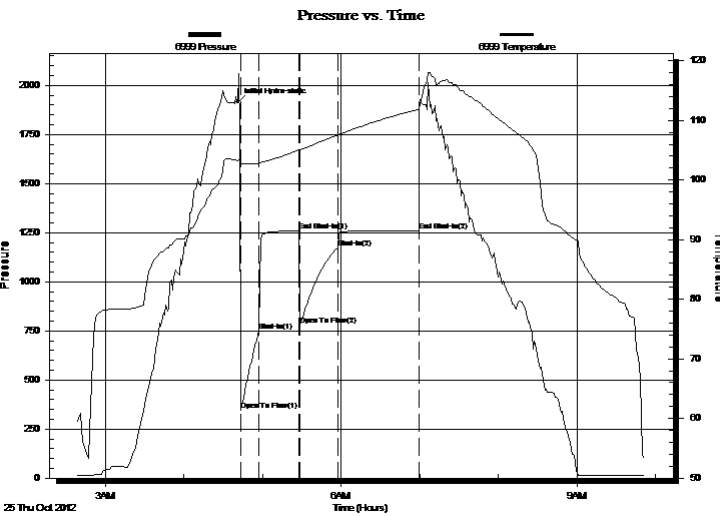
Start Time: 02:39:00

End Time: 09:51:30

Time On Btm: 2012.10.25 @ 04:41:00

Time Off Btm:

**TEST COMMENT:** 1ST Open 15 Minutes/Strong blow /Blow built to bottom of bucket in 1 minute 15 seconds  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 30 Minutes/Strong blow /Blow built to bottom of bucket in 1 minute 15 seconds  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1913.44	103.28	Initial Hydro-static
3	347.54	102.83	Open To Flow (1)
17	750.16	102.81	Shut-In(1)
47	1259.53	105.10	End Shut-In(1)
48	779.39	105.00	Open To Flow (2)
77	1172.60	107.55	Shut-In(2)
138	1261.07	111.83	End Shut-In(2)

## Recovery

Length (ft)	Description	Volume (bbl)
2160.00	Muddy Water	30.30
0.00	Mud 15% Water 85%	0.00
0.00	Recovery Chlorides 24,000 ppm	0.00
0.00	Recov. Resist. .38 ohms @	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**

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Test Start: 2012.10.25 @ 02:38:00

## Tool Information

Drill Pipe:	Length: 3829.00 ft	Diameter: 3.80 inches	Volume: 53.71 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: 40000.00 lb
			<u>Total Volume: 53.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3831.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.10 ft			
Tool Length:	106.10 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3809.00	
Hydraulic Tool	5.00			3814.00	
Jars	5.00			3819.00	
Safety Joint	2.00			3821.00	
Packer	5.00			3826.00	27.00 Bottom Of Top Packer
Packer	5.00			3831.00	
Change Over Sub	0.75			3831.75	
Perforations	5.00			3836.75	
Drill Pipe	31.60			3868.35	
Change Over Sub	0.75			3869.10	
Anchor	36.00			3905.10	
Recorder	1.00	6749	Inside	3906.10	
Recorder	1.00	6999	Outside	3907.10	
Bullnose	3.00			3910.10	79.10 Bottom Packers & Anchor

**Total Tool Length: 106.10**



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**FLUID SUMMARY**

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## 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: 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
2160.00	Muddy Water	30.299
0.00	Mud 15% Water 85%	0.000
0.00	Recovery Chlorides 24,000 ppm	0.000
0.00	Recov. Resist. .38 ohms @	0.000

Total Length: 2160.00 ft      Total Volume: 30.299 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Dropped bar on circulating sub

### Pressure vs. Time

