



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.

**SEC. 24 - 18 s. - 22 w./ NESS**

3118 CUMMINGS RD.  
P.O. BOX 399 GARDEN CITY  
KS. 67846  
ATTN: JASON ALM

**B - F UNIT #1**

Job Ticket: 57608

**DST#: 1**

Test Start: 2014.04.20 @ 20:12:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:08:00

Time Test Ended: 05:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 67

**Interval: 4183.00 ft (KB) To 4238.00 ft (KB) (TVD)**

Reference Elevations: 2153.00 ft (KB)

Total Depth: 4238.00 ft (KB) (TVD)

2147.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

## Serial #: 6625

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.20

End Date: 2014.04.21

Last Calib.: 1899.12.30

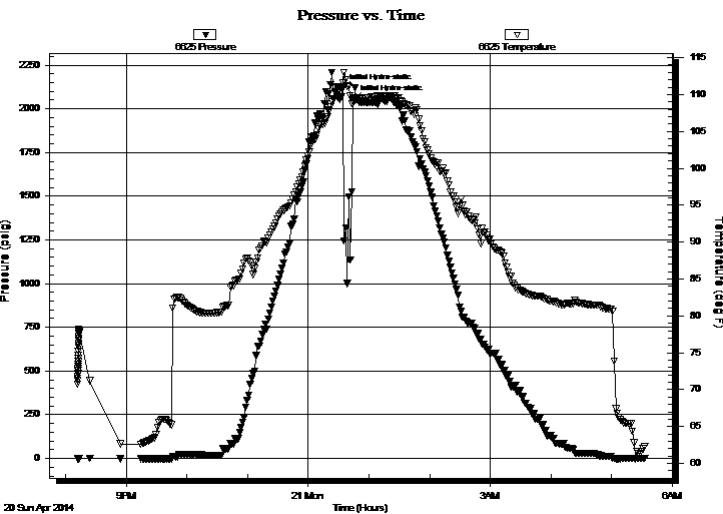
Start Time: 20:12:01

End Time: 05:33:30

Time On Btm: 2014.04.21 @ 00:34:00

Time Off Btm:

TEST COMMENT: "PACKER FAILURE"  
COULD NOT GET SECOND RECORDER TO DOWNLOAD



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2115.94	111.54	Initial Hydro-static
12	2051.98	109.10	Initial Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
	PACKER FAILURE	

## Gas Rates

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



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Job Ticket: 57608

**DST#: 1**

Test Start: 2014.04.20 @ 20:12:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.39 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 6400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
	PACKER FAILURE	

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0

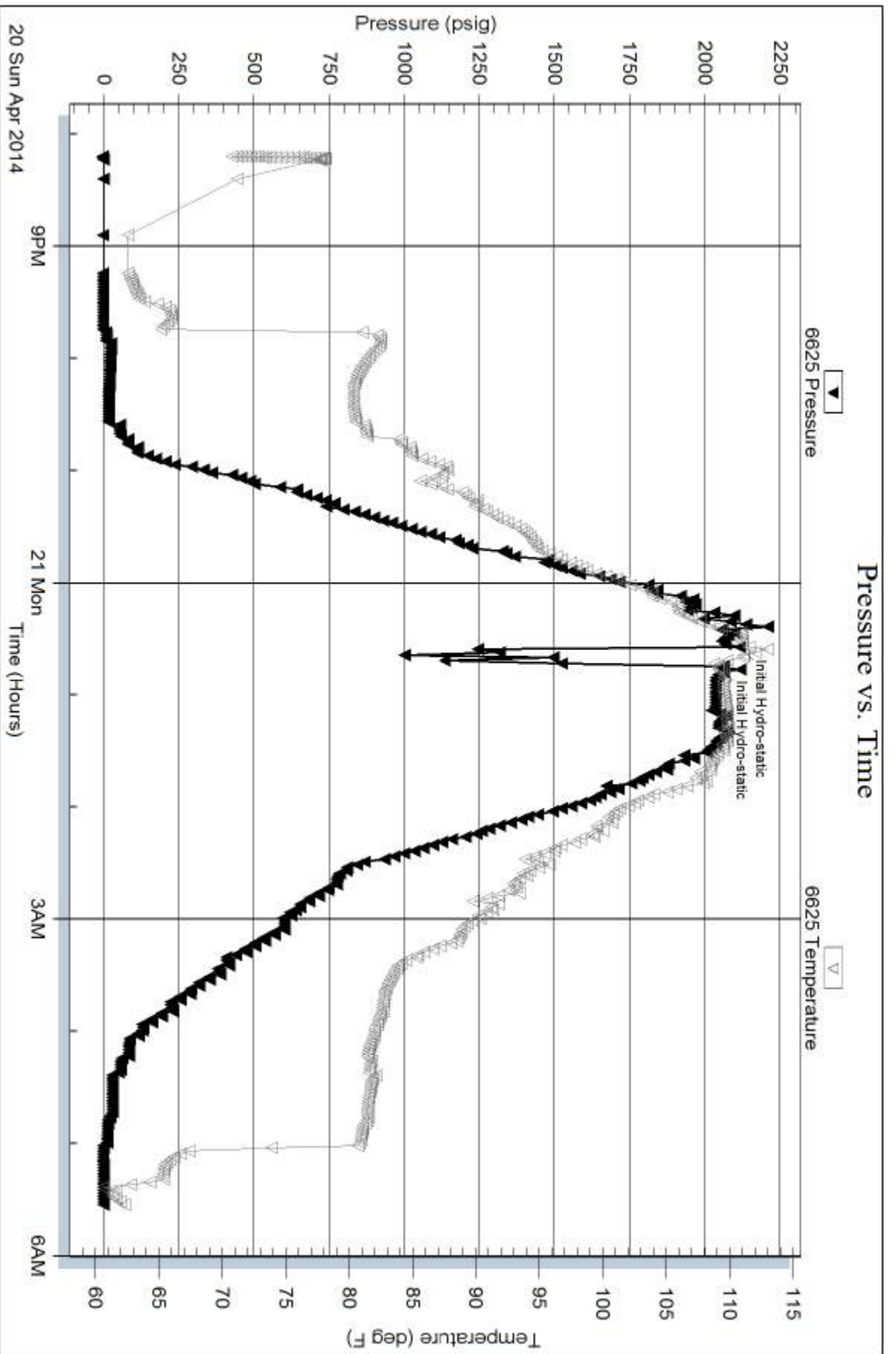
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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**SEC. 24 - 18 s. - 22 w./ NESS**

**B - F UNIT #1**

Job Ticket: 57609

**DST#: 2**

Test Start: 2014.04.21 @ 13:32:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:45:30  
 Time Test Ended: 21:33:30  
 Interval: **4152.00 ft (KB) To 4240.00 ft (KB) (TVD)**  
 Total Depth: 4240.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: BOB HAMEL  
 Unit No: 67  
 Reference Elevations: 2153.00 ft (KB)  
 2147.00 ft (CF)  
 KB to GR/CF: 6.00 ft

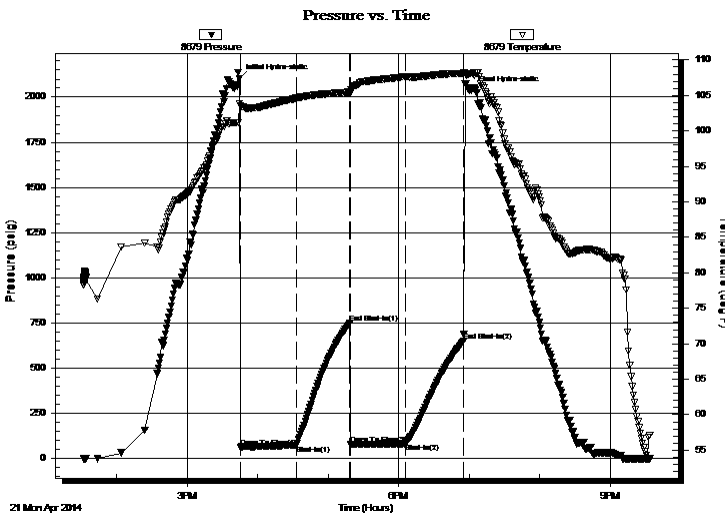
## Serial #: 8679

Inside

Press @ Run Depth: 82.69 psig @ 4222.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.04.21 End Date: 2014.04.21 Last Calib.: 1899.12.30  
 Start Time: 13:32:01 End Time: 21:33:30 Time On Btm: 2014.04.21 @ 15:44:30  
 Time Off Btm: 2014.04.21 @ 19:01:30

TEST COMMENT: I.F. - 45 - 1/2" INT. BLOW BUILT TO (2" IN 45 MIN.)  
 I.S.I. - 45 - NO B.B.  
 F.F. - 45 - W.S.B. BUILT TO (3/4" IN 45 MIN.)  
 F.S.I. - 45 - NO B.B.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.10	103.89	Initial Hydro-static
1	62.93	103.48	Open To Flow (1)
49	74.19	104.62	Shut-In(1)
94	749.23	105.47	End Shut-In(1)
95	78.43	105.31	Open To Flow (2)
142	82.69	107.64	Shut-In(2)
191	648.49	108.11	End Shut-In(2)
197	2037.75	108.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	S,O,C,M 1%O 99%M (SCUM OF OIL)	0.59
2.00	CLEAN OIL 100%	0.01

\* Recovery from multiple tests

## Gas Rates

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



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**B - F UNIT #1**

Job Ticket: 57609

**DST#: 2**

Test Start: 2014.04.21 @ 13:32:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.99 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 8400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	S,O,C,M 1%O 99%M (SCUM OF OIL)	0.590
2.00	CLEAN OIL 100%	0.010

Total Length: 122.00 ft      Total Volume: 0.600 bbl

Num Fluid Samples: 0

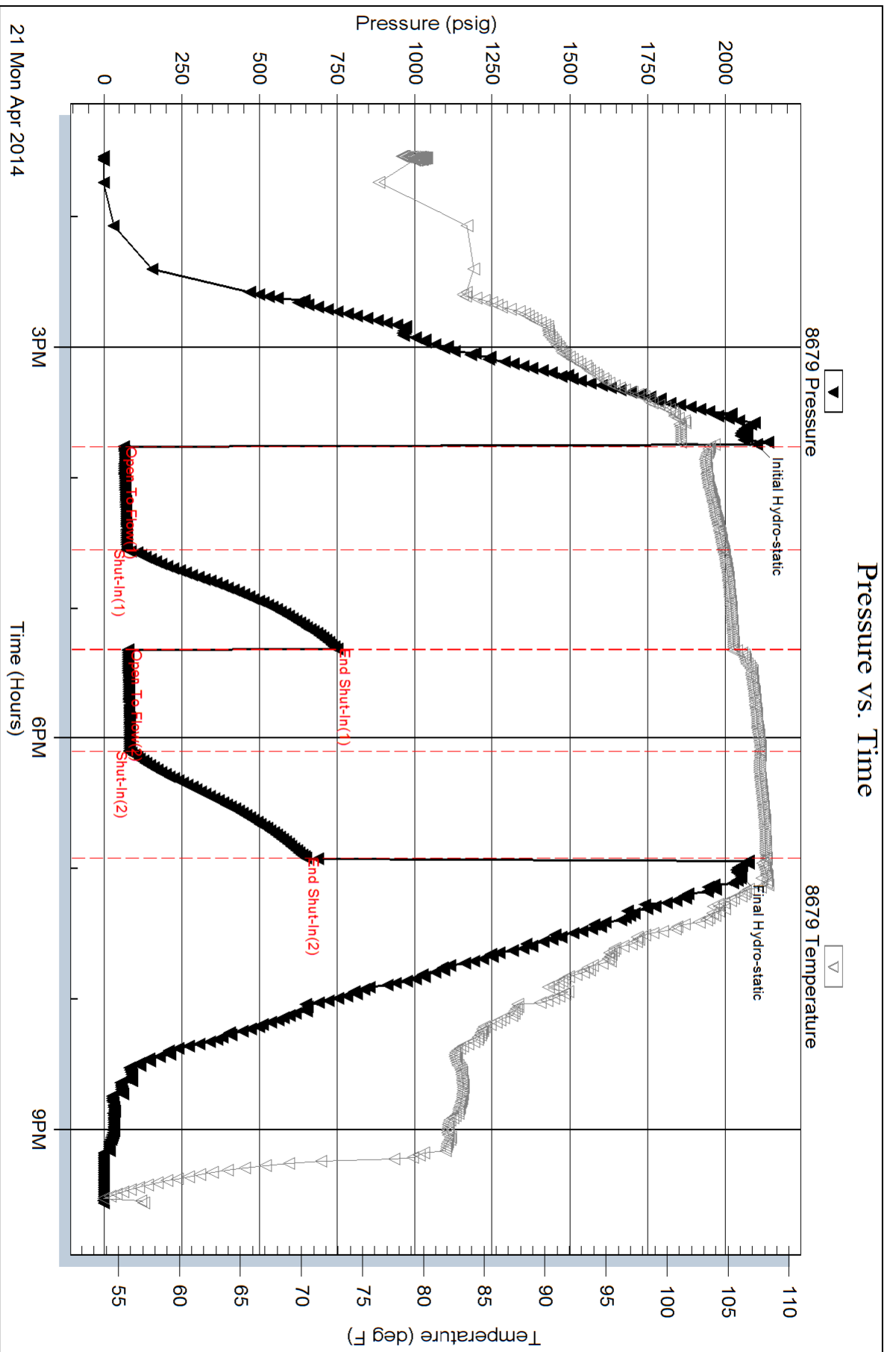
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL GRAVITY = 41.8 @ 60 DEG.





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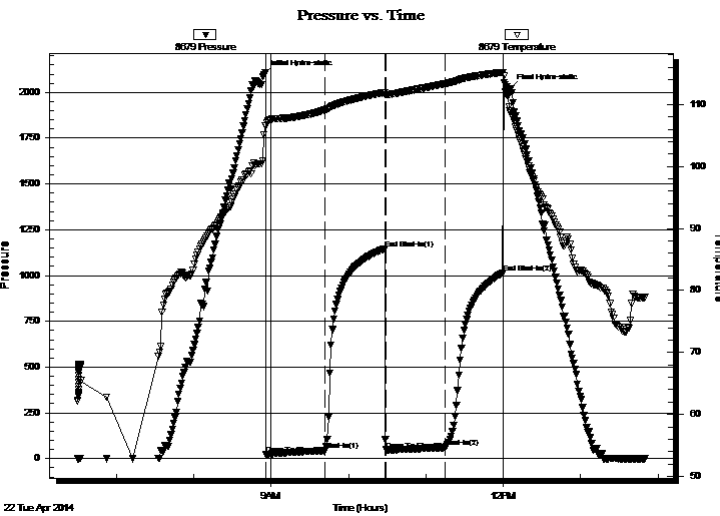
**SEC. 24 - 18 s. - 22 w./ NESS**  
**B - F UNIT #1**  
 Job Ticket: 57610      **DST#: 3**  
 Test Start: 2014.04.22 @ 06:30:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 08:55:59  
 Time Test Ended: 13:49:29  
 Interval: **4234.00 ft (KB) To 4243.00 ft (KB) (TVD)**  
 Total Depth: 4243.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: BOB HAMEL  
 Unit No: 67  
 Reference Elevations: 2153.00 ft (KB)  
 2147.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 8679      Inside**  
 Press@RunDepth: 62.14 psig @ 4239.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.04.22      End Date: 2014.04.22      Last Calib.: 2014.04.22  
 Start Time: 06:30:01      End Time: 13:49:29      Time On Btm: 2014.04.22 @ 08:54:29  
 Time Off Btm: 2014.04.22 @ 12:04:59

**TEST COMMENT:** I.F. - 45 - 1/2" INT. BLOW BUILT TO (4 1/2" IN 45 MIN.)  
 I.S.I. - 45 - W.S.B.B. @ 45 MIN.  
 F.F. - 45 - 1/2" INT. BLOW BUILT TO ( 3" IN 45 MIN.)  
 F.S.I. - 45 - W.S.B.B. @ 45 MIN.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2095.60	105.12	Initial Hydro-static
2	22.12	106.54	Open To Flow (1)
47	43.18	109.08	Shut-In(1)
94	1146.88	111.95	End Shut-In(1)
95	47.76	111.62	Open To Flow (2)
141	62.14	113.35	Shut-In(2)
185	1014.27	115.19	End Shut-In(2)
191	2022.78	109.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	W,C,O,M, 15%W 20%O 65%M	0.30
60.00	CLEAN OIL 100%	0.30

\* Recovery from multiple tests

## Gas Rates

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



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Job Ticket: 57610

**DST#: 3**

Test Start: 2014.04.22 @ 06:30:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 9.99 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 8400.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	W,C,O,M, 15%W 20%O 65%M	0.295
60.00	CLEAN OIL 100%	0.295

Total Length: 120.00 ft      Total Volume: 0.590 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: OIL GRAVITY = 45.6 @ 60 DEG



