



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Sam Gary Jr. Associates

**3-4S-36W Rawlins KS**

1515 Wynkoop  
STE 700  
Denver Co 80202  
ATTN: Chris Mitchel

**Fisher Cattle #1-3**

Job Ticket: 60016

**DST#: 1**

Test Start: 2014.09.19 @ 13:02:00

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:47:00

Time Test Ended: 20:47:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 78

**Interval: 4156.00 ft (KB) To 4229.00 ft (KB) (TVD)**

Reference Elevations: 3308.00 ft (KB)

Total Depth: 4229.00 ft (KB) (TVD)

3303.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8322 Outside**

Press @ Run Depth: 17.82 psig @ 4157.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.19

End Date:

2014.09.19

Last Calib.:

2014.09.19

Start Time: 13:02:05

End Time:

20:47:44

Time On Btm:

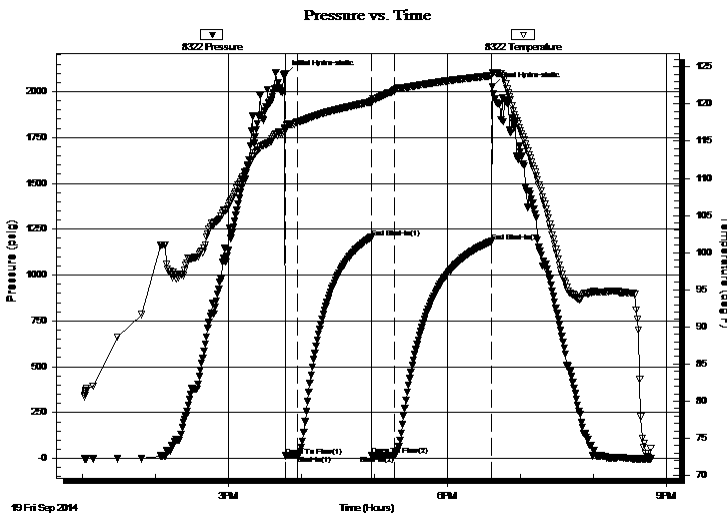
2014.09.19 @ 15:46:45

Time Off Btm:

2014.09.19 @ 18:37:15

**TEST COMMENT:** 10 IF - Surface blow  
60 ISI - No return  
20 FF - No blow  
80 FSI - No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.54	116.61	Initial Hydro-static
1	15.15	116.40	Open To Flow (1)
11	17.24	117.62	Shut-In(1)
71	1203.08	120.29	End Shut-In(1)
72	17.80	120.10	Open To Flow (2)
90	17.82	121.88	Shut-In(2)
170	1182.87	123.80	End Shut-In(2)
171	2027.91	124.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud - 100%M	0.05

## Gas Rates

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







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**FLUID SUMMARY**

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STE 700  
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**Fisher Cattle #1-3**

Job Ticket: 60016      **DST#: 1**

Test Start: 2014.09.19 @ 13:02:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

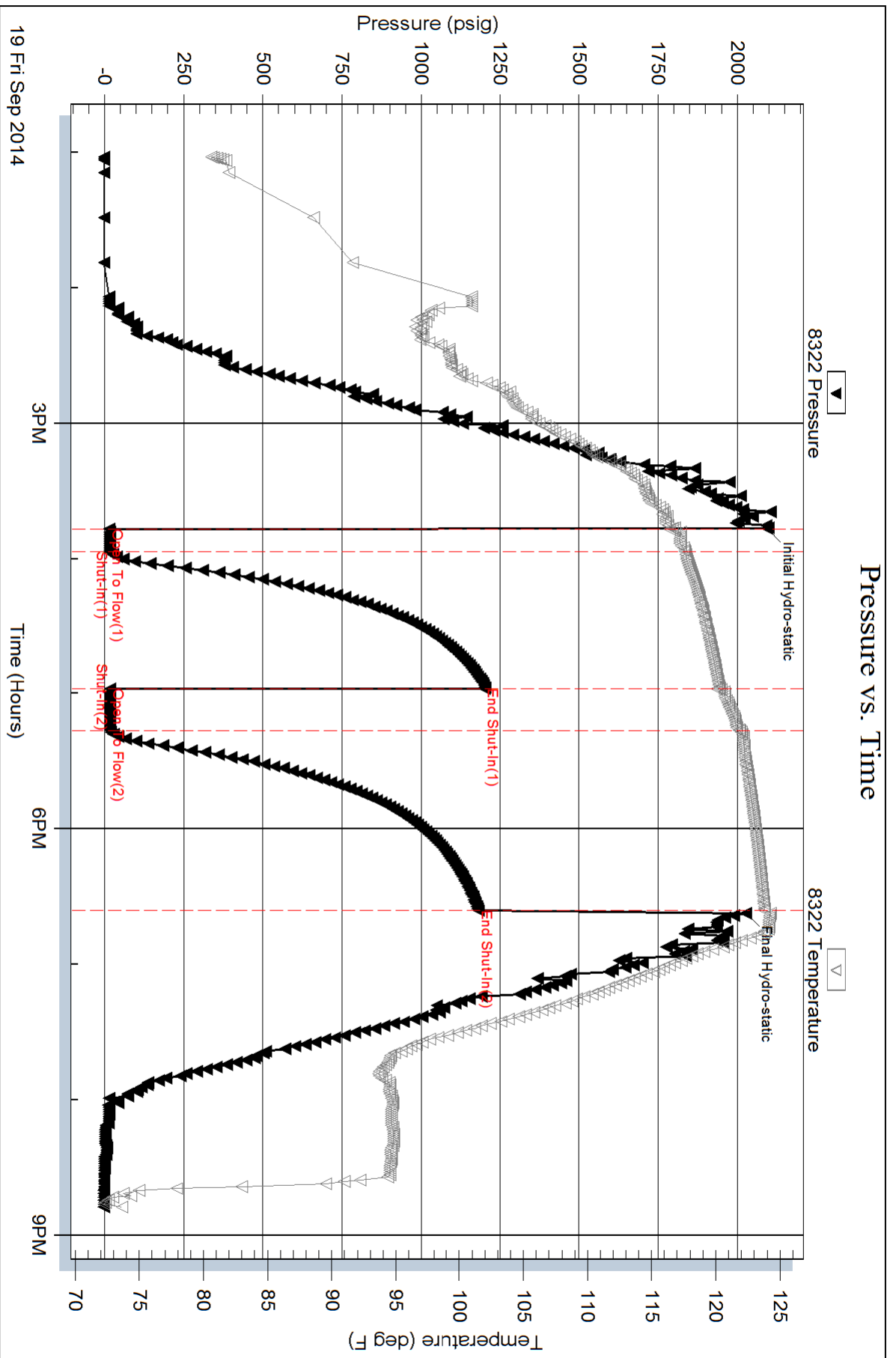
Length ft	Description	Volume bbl
10.00	Mud - 100%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: OS = 3000ml M - 3000ml total - 132 psi



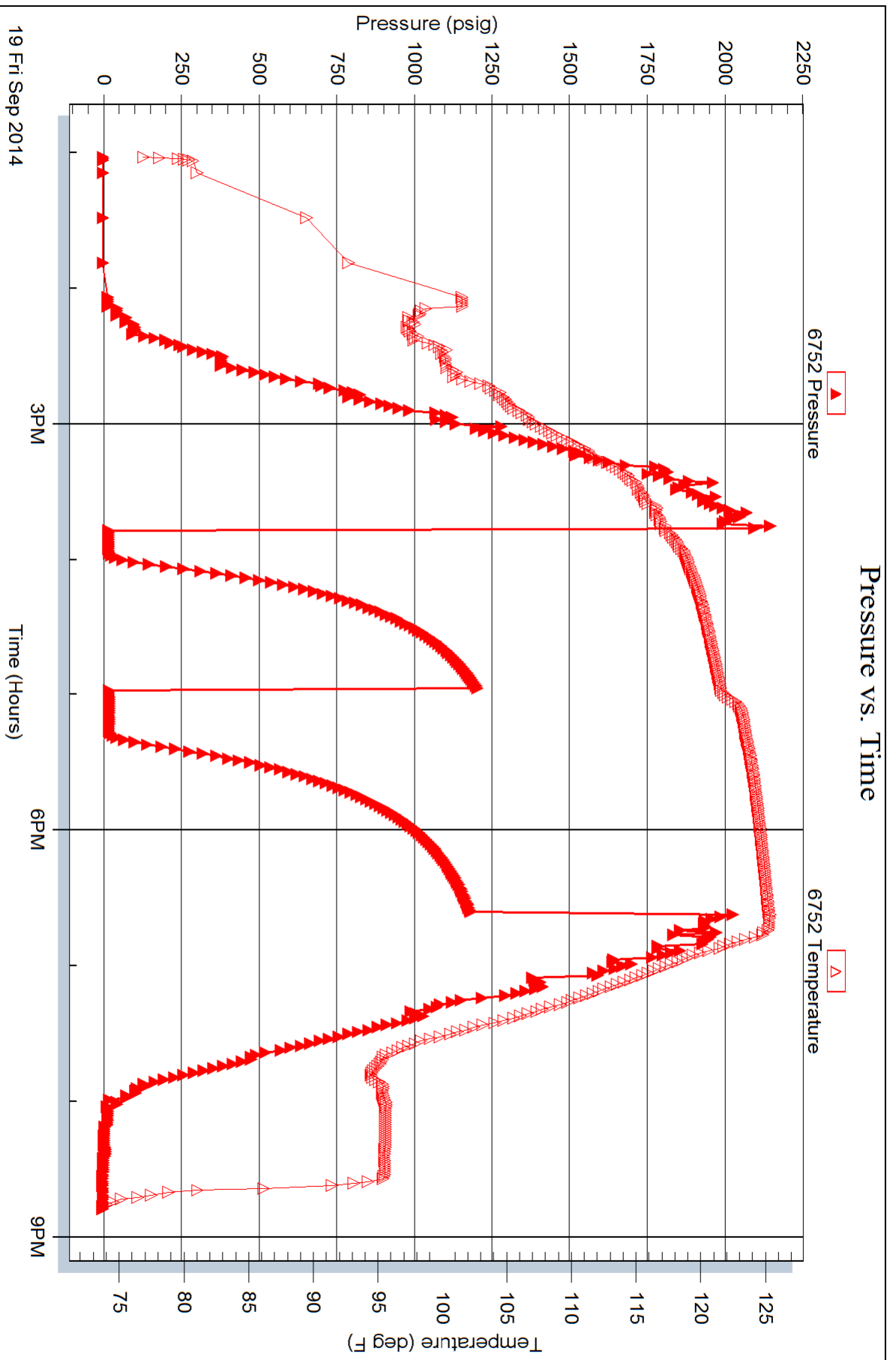
Serial #: 6752

Inside

Sam Gary Jr. Associates

Fisher Cattle #1-3

DST Test Number: 1



Serial #: 8734

Fluid

Sam Gary Jr. Associates

Fisher Cattle #1-3

DST Test Number: 1

