



**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: 60017

DST#: 2

Test Start: 2014.09.20 @ 05:54:00

GENERAL INFORMATION:

Formation: **LKC " B - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:28:00

Time Test Ended: 14:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 4222.00 ft (KB) To 4275.00 ft (KB) (TVD)

Reference Elevations: 3308.00 ft (KB)

Total Depth: 4275.00 ft (KB) (TVD)

3303.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 76.18 psig @ 4223.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.20

End Date:

2014.09.20

Last Calib.:

2014.09.20

Start Time:

05:54:05

End Time:

14:29:30

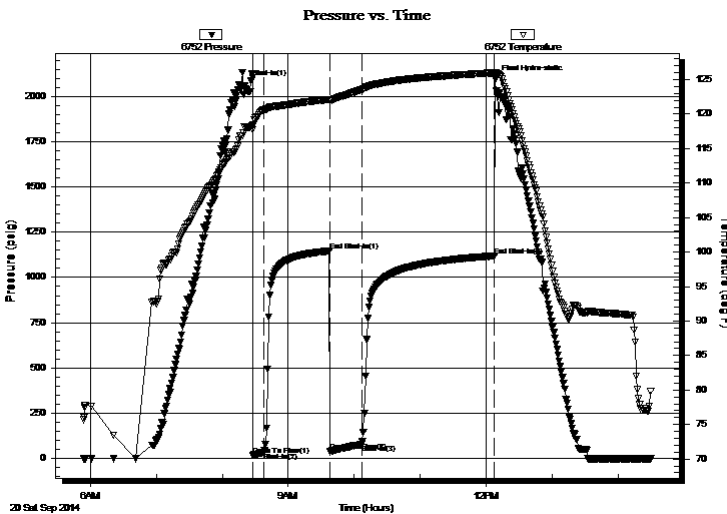
Time On Btm:

Time Off Btm:

2014.09.20 @ 12:08:15

TEST COMMENT: 10 IF - 1/4" blow built to 1 1/2"
60 ISI - No return
30 FF - Surface blow started @ 2 mins built to 4 1/2"
120 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.00	118.45	Shut-In(1)
1	17.60	117.74	Open To Flow (1)
10	33.96	120.60	Shut-In(2)
70	1146.44	122.12	End Shut-In(1)
71	39.59	121.89	Open To Flow (2)
99	76.18	123.52	Shut-In(3)
220	1118.87	125.99	End Shut-In(2)
221	2097.08	126.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GOCM - 15%G - 40%o - 45%M	0.25
80.00	GO - 25%G - 75%o	0.39

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Job Ticket: 60017 **DST#: 2**
Test Start: 2014.09.20 @ 05:54:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 22 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

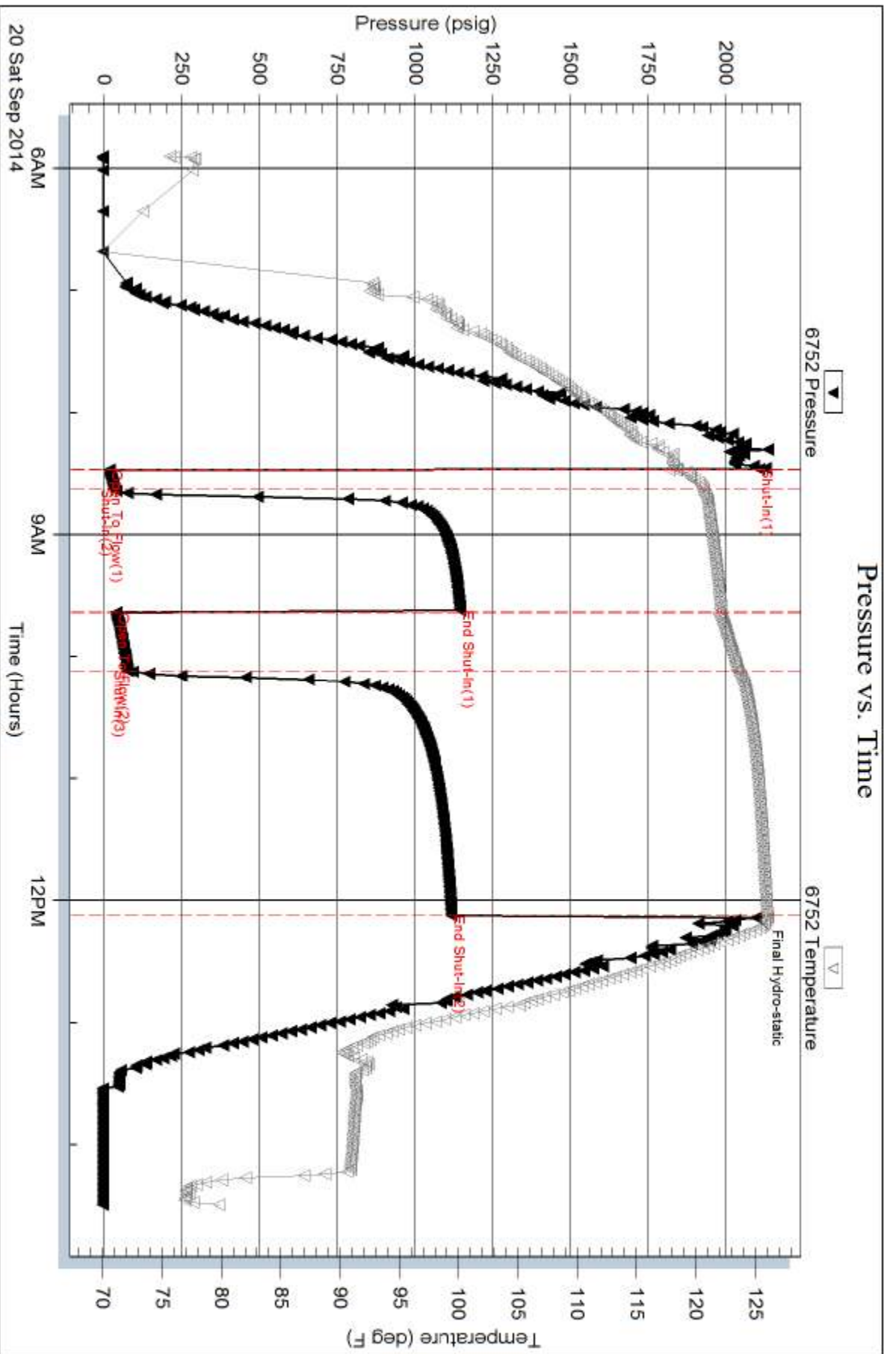
Length ft	Description	Volume bbl
50.00	GOCM - 15%G - 40%o - 45%M	0.246
80.00	GO - 25%G - 75%o	0.393

Total Length: 130.00 ft Total Volume: 0.639 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: O.S. = 1200ml M - 1800ml o - 3000ml total - 98 psi
OIL API = 25 @ 90 DEG F = 22 COR 60 DEG F



Serial #: 8734

Fluid

Sam Gary, Jr. Associates

Fisher Cattle #1-3

DST Test Number: 2

