



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

**21-12s-16w-Ellis**

1515 Wynkoop  
Suite 700  
Denver, CO. 80202  
ATTN: Clayton Camozzi

**Chrisler et al #2-21**

Job Ticket: 47835 **DST#: 1**

Test Start: 2012.07.22 @ 10:09:20

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 11:45:50

Time Test Ended: 17:29:05

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

**Interval: 3112.00 ft (KB) To 3148.00 ft (KB) (TVD)**

Reference Elevations: 1957.00 ft (KB)

Total Depth: 3148.00 ft (KB) (TVD)

1949.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8366 Inside**

Press @ Run Depth: 31.69 psig @ 3115.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.22 End Date: 2012.07.22

Last Calib.: 2012.07.22

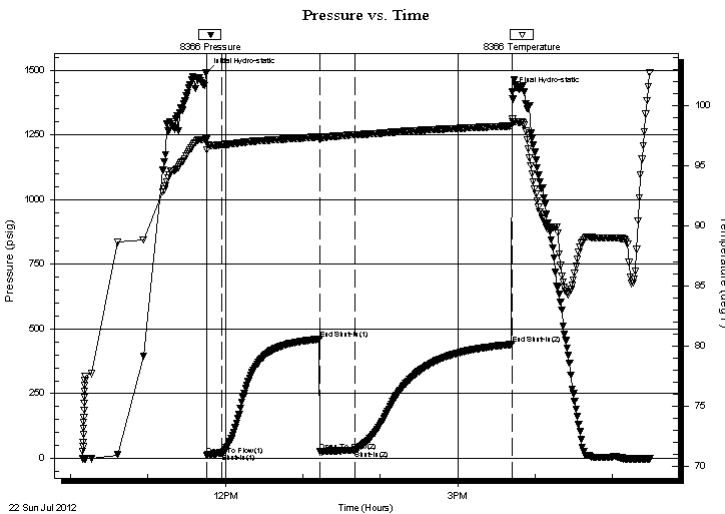
Start Time: 10:09:22 End Time: 17:29:05

Time On Btm: 2012.07.22 @ 11:45:20

Time Off Btm: 2012.07.22 @ 15:42:20

**TEST COMMENT:** IFP-Weak Blow ,Built to 1"  
ISI-Dead  
FFP-Weak Blow ,Built to 1-3/4"  
FSI-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1490.26	97.20	Initial Hydro-static
1	13.24	96.31	Open To Flow (1)
12	20.24	96.74	Shut-In(1)
88	460.86	97.39	End Shut-In(1)
88	26.15	97.17	Open To Flow (2)
115	31.69	97.57	Shut-In(2)
237	440.45	98.30	End Shut-In(2)
237	1417.88	98.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
31.00	V SOCM-2%O-98%M	0.16
0.00		0.00

## Gas Rates

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







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**FLUID SUMMARY**

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Suite 700  
Denver, CO. 80202  
ATTN: Clayton Camozzi

**Chrisler et al #2-21**

Job Ticket: 47835      **DST#: 1**  
Test Start: 2012.07.22 @ 10:09:20

## Mud and Cushion Information

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

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	VSOCM-2%O-98%M	0.162
0.00		0.000

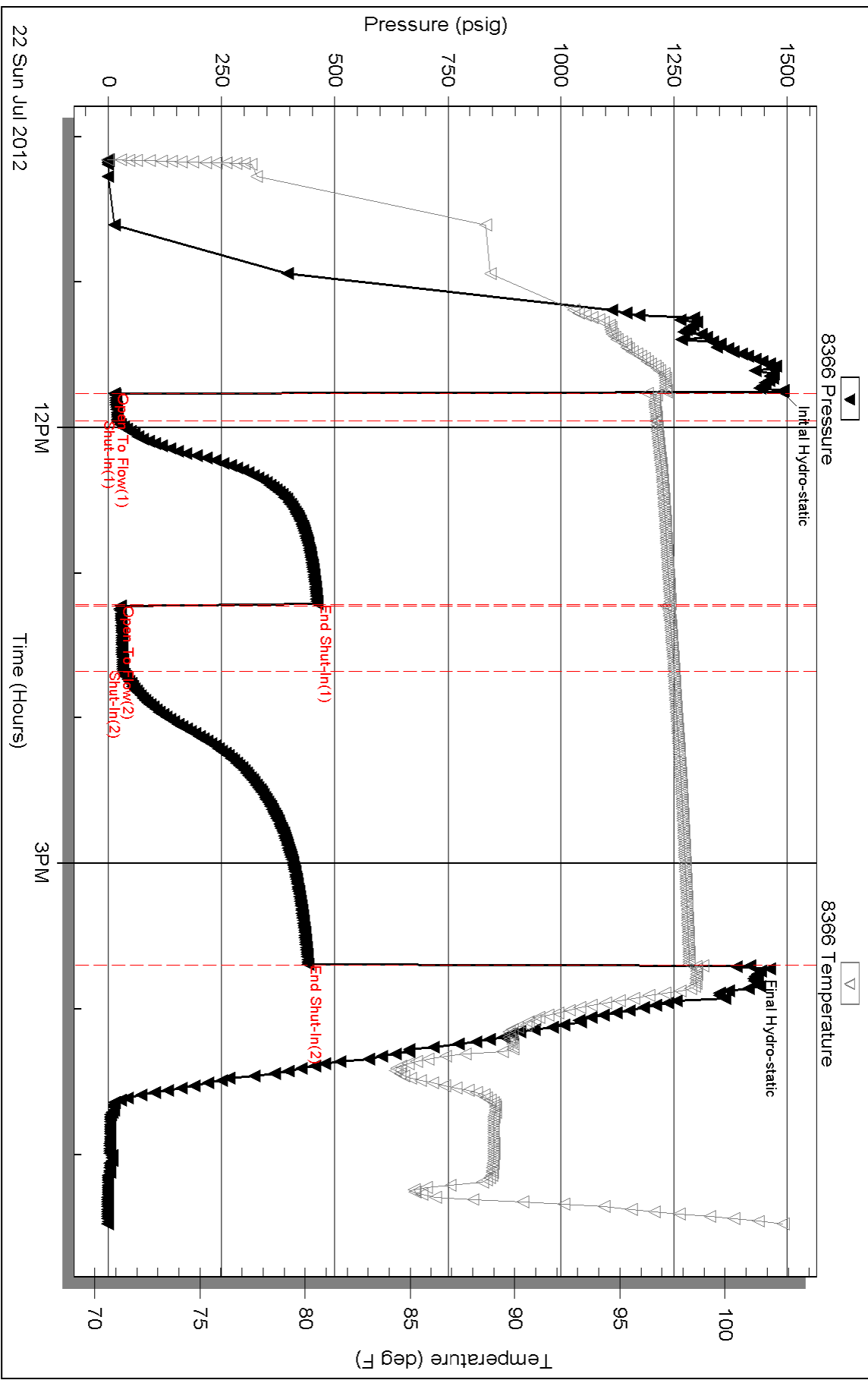
Total Length: 31.00 ft      Total Volume: 0.162 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Sampler: 55#, 900ml Oil, 2100ml Mud

### Pressure vs. Time



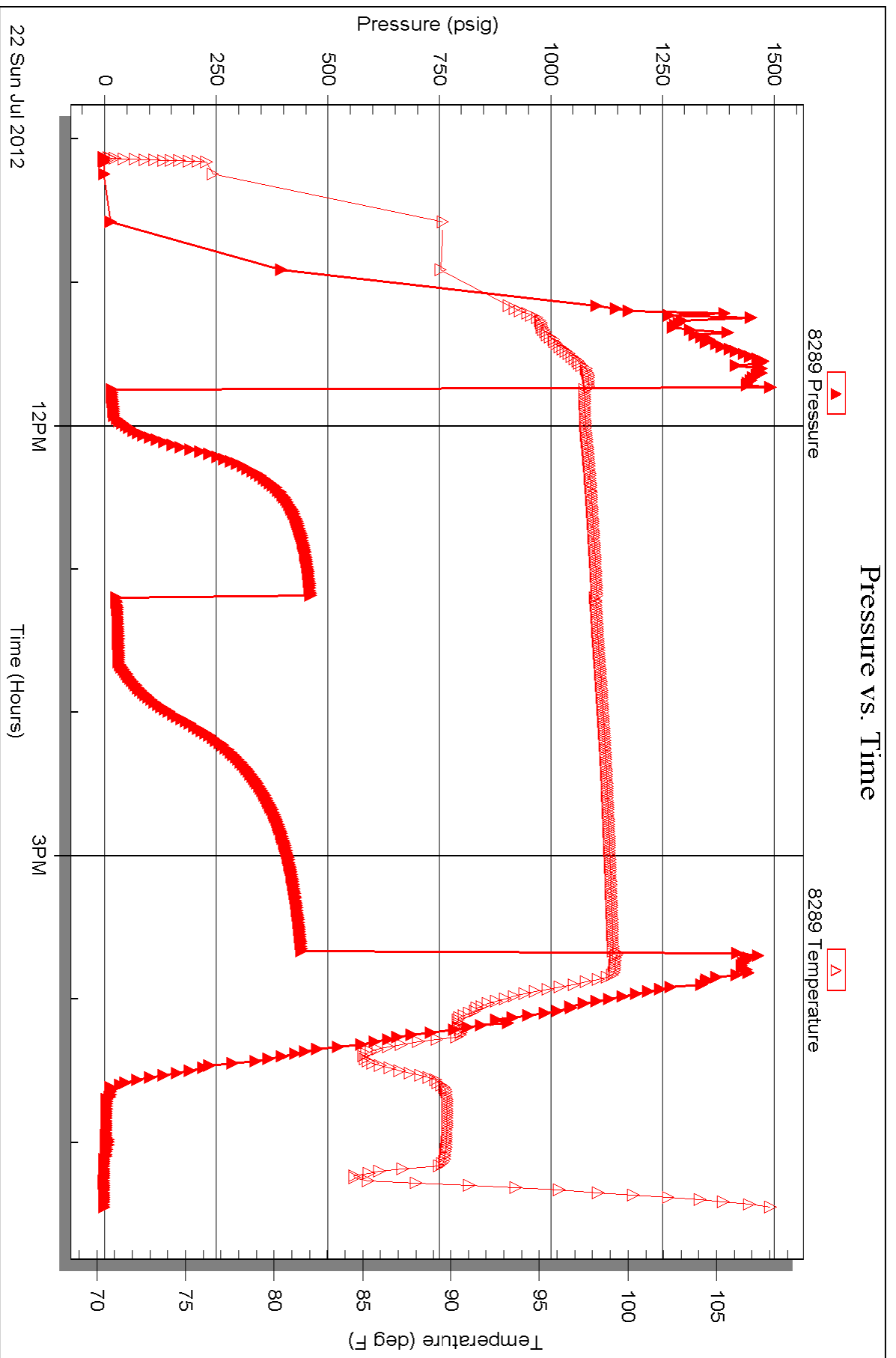
Serial #: 8289

Fluid

Samuel Gary Jr. & Associates

Christer et al #2-21

DST Test Number: 1



Serial #: 8789

Outside Samuel Gary Jr. & Associates

Christer et al #2-21

DST Test Number: 1

