



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc.Inc

**24-15s-16w Ellis**

1515 Wynkoop, Ste700  
Denver Co 80202

**Landon etal #1-24**

ATTN: Chris Mitchell

Job Ticket: 52204

**DST#: 3**

Test Start: 2013.03.18 @ 07:35:04

## GENERAL INFORMATION:

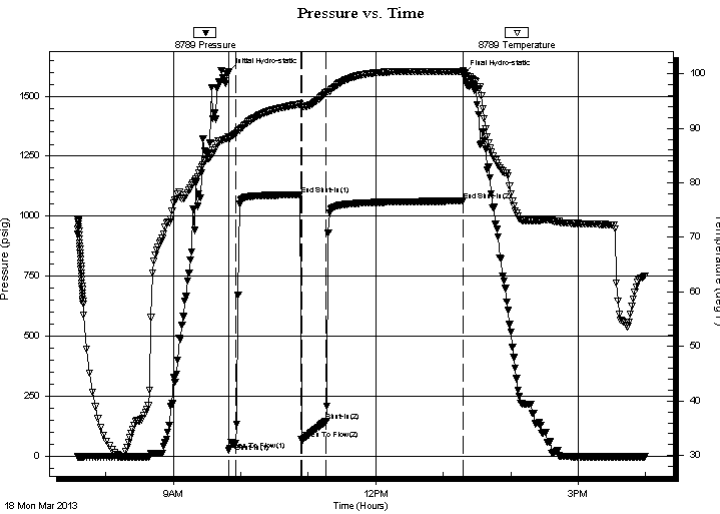
Formation: **I-L**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **09:49:34** Tester: **Jason McLemore**  
 Time Test Ended: **16:00:04** Unit No: **54**  
**Interval: 3277.00 ft (KB) To 3347.00 ft (KB) (TVD)** Reference Elevations: **1861.00 ft (KB)**  
 Total Depth: **3347.00 ft (KB) (TVD)** **1853.00 ft (CF)**  
 Hole Diameter: **7.85 inches** Hole Condition: **Good** KB to GR/CF: **8.00 ft**

## Serial #: 8789

**Inside**

Press @ Run Depth: **146.27 psig @ 3344.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2013.03.18** End Date: **2013.03.18** Last Calib.: **2013.03.18**  
 Start Time: **07:35:06** End Time: **16:00:04** Time On Btm: **2013.03.18 @ 09:49:04**  
 Time Off Btm: **2013.03.18 @ 13:17:49**

**TEST COMMENT:** IFP-Strong, BOB in 2 Min.  
 ISI-Blow back Built to 2-1/2"  
 FFP-Strong, BOB in 30 Seconds  
 FSI-Blow back BOB in 10 Min. Gas to Surface in 50 Min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.59	88.36	Initial Hydro-static
1	25.18	88.01	Open To Flow (1)
7	54.27	89.07	Shut-In(1)
64	1089.09	94.43	End Shut-In(1)
65	69.28	94.01	Open To Flow (2)
87	146.27	96.56	Shut-In(2)
209	1063.62	100.45	End Shut-In(2)
209	1591.41	100.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	GasyMdyOil-30%G-50%O-20%M	0.71
300.00	Gassy Oil-30%G-70%O	4.21

## Gas Rates

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



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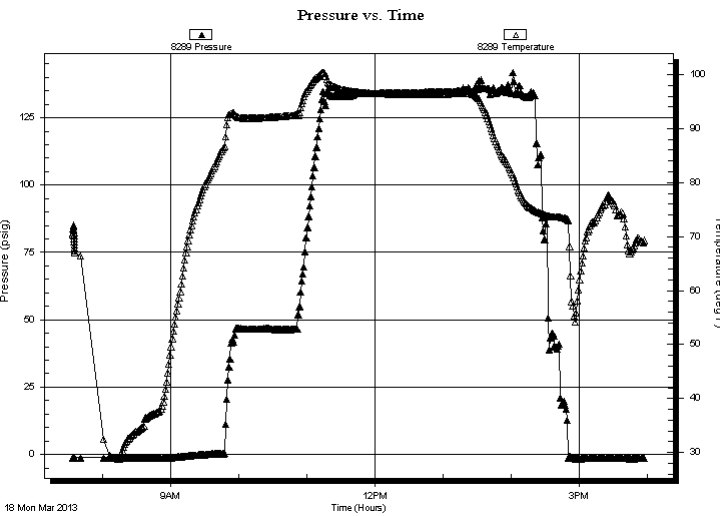
## GENERAL INFORMATION:

Formation: **I-L**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:49:34  
 Time Test Ended: 16:00:04  
 Interval: **3277.00 ft (KB) To 3347.00 ft (KB) (TVD)**  
 Total Depth: 3347.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 1861.00 ft (KB)  
 1853.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8289 Fluid

Press @ Run Depth: psig @ 3242.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.03.18 End Date: 2013.03.18 Last Calib.: 2013.03.18  
 Start Time: 07:33:55 End Time: 15:58:08 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IFP-Strong, BOB in 2 Min.  
 ISI-Blow back Built to 2-1/2"  
 FFP-Strong, BOB in 30 Seconds  
 FSI-Blow back BOB in 10 Min. Gas to Surface in 50 Min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	GasyMdyOil-30%G-50%O-20%M	0.71
300.00	Gassy Oil-30%G-70%O	4.21

## Gas Rates

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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Denver Co 80202

**Landon etal #1-24**

Job Ticket: 52204

**DST#: 3**

ATTN: Chris Mitchell

Test Start: 2013.03.18 @ 07:35:04

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 9600.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GasyMdyOil-30%G-50%O-20%M	0.709
300.00	Gassy Oil-30%G-70%O	4.208

Total Length: 370.00 ft      Total Volume: 4.917 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Sampler-330#, 2000ml Gassy Oil-1000ml Mud

Serial #: 8789

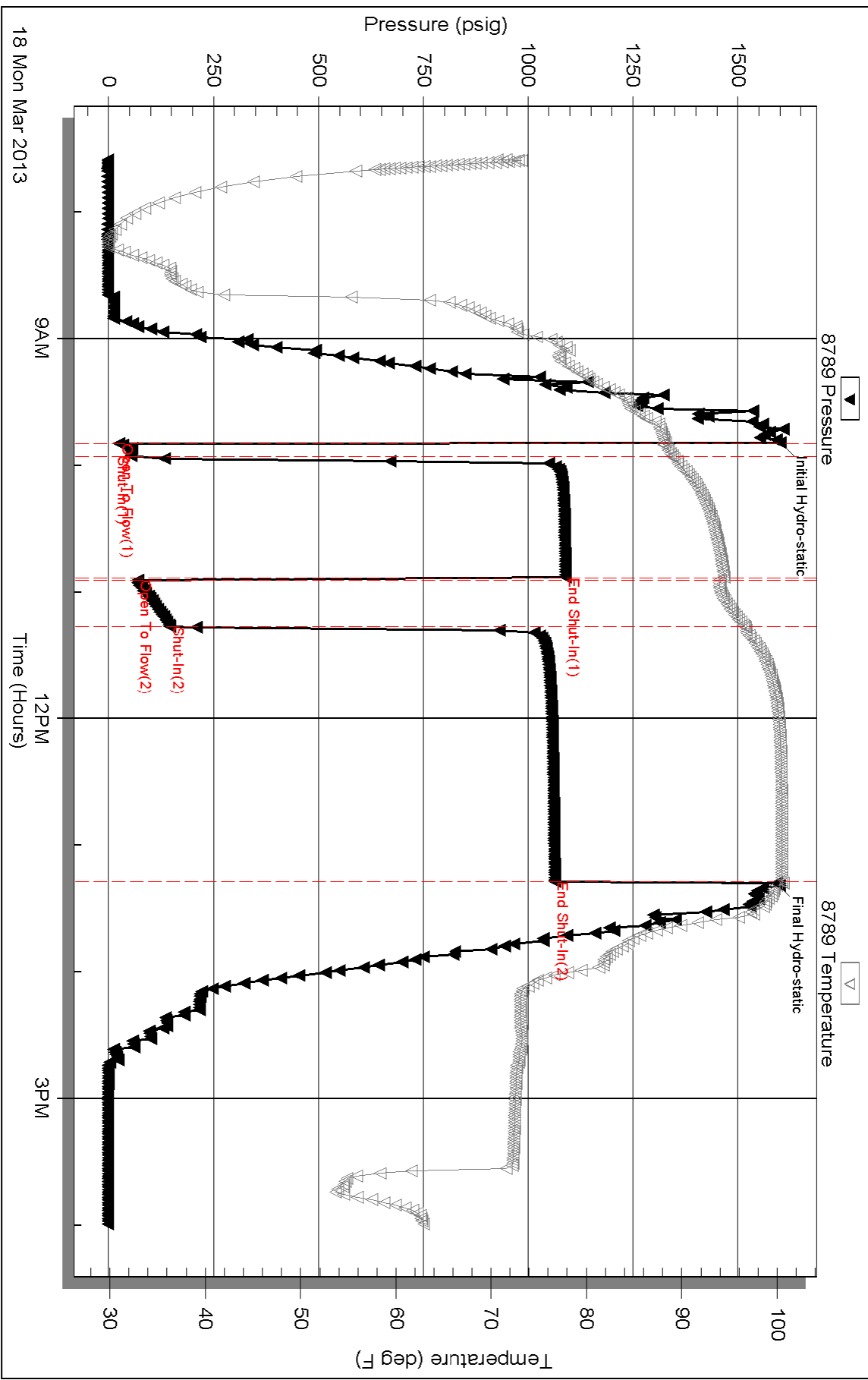
Inside

Samuel Gary Jr & Assoc. Inc

Landon etal #1-24

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52204

Printed: 2013.03.18 @ 16:46:02

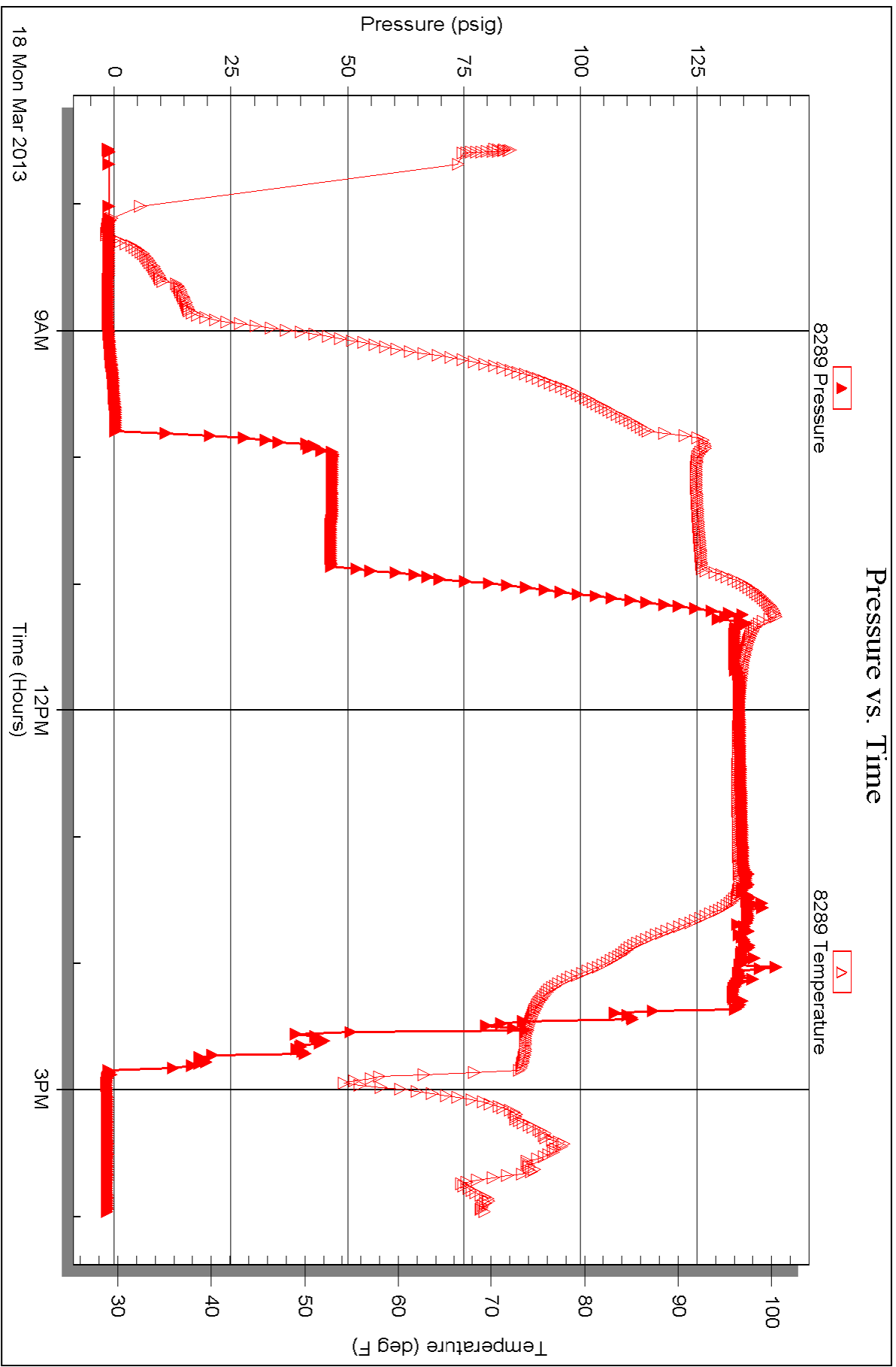
Serial #: 8289

Fluid

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Landon etal #1-24

DST Test Number: 3



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