



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr and Associates Inc

31-11s-21w

1515 Wynkoop Ste 700
Denver Co 80202

Shubert Et Al 2-31

Job Ticket: 44317

DST#: 2

ATTN: Chis Mitchell

Test Start: 2012.11.19 @ 21:05:01

GENERAL INFORMATION:

Formation: **Lansing-I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:30:01

Time Test Ended: 05:48:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3775.00 ft (KB) To 3815.00 ft (KB) (TVD)

Reference Elevations: 2314.00 ft (KB)

Total Depth: 3815.00 ft (KB) (TVD)

2306.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8321 Inside

Press @ Run Depth: 77.55 psig @ 3779.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.19 End Date: 2012.11.20

Last Calib.: 2012.11.20

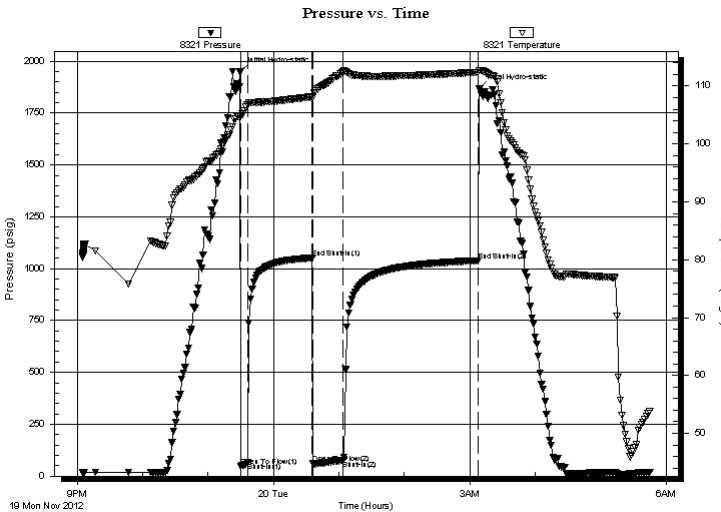
Start Time: 21:05:02 End Time: 05:45:31

Time On Btm: 2012.11.19 @ 23:29:31

Time Off Btm: 2012.11.20 @ 03:09:01

TEST COMMENT: IFP=5=min=Weak blow built to 3 in
ISL=60=min=Dead no blow back
FFP=30=min=Fair blow built to 10 in
FSL=120=min=Dead no blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1947.80 | 104.90 | Initial Hydro-static |
| 1 | 46.84 | 104.67 | Open To Flow (1) |
| 7 | 66.48 | 106.75 | Shut-In(1) |
| 66 | 1051.66 | 108.18 | End Shut-In(1) |
| 67 | 61.72 | 107.99 | Open To Flow (2) |
| 95 | 77.55 | 112.51 | Shut-In(2) |
| 219 | 1038.46 | 112.38 | End Shut-In(2) |
| 220 | 1868.45 | 112.71 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 88.00 | SOCWM 5%O 25%W 70%M | 1.23 |
| 5.00 | Gassy Oil 5%G 95%O | 0.07 |
| 0.00 | 62-GIP | 0.00 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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31-11s-21w

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Job Ticket: 44317

DST#: 2

ATTN: Chis Mitchell

Test Start: 2012.11.19 @ 21:05:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 75.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------------|----------------|
| 88.00 | SOCWM 5%O 25%W 70%M | 1.234 |
| 5.00 | Gassy Oil 5%G 95%O | 0.070 |
| 0.00 | 62-GIP | 0.000 |

Total Length: 93.00 ft Total Volume: 1.304 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2000 MI of total fluid 1500 MI of water
500 MI of Oil 350 Psi

Serial #: 8321

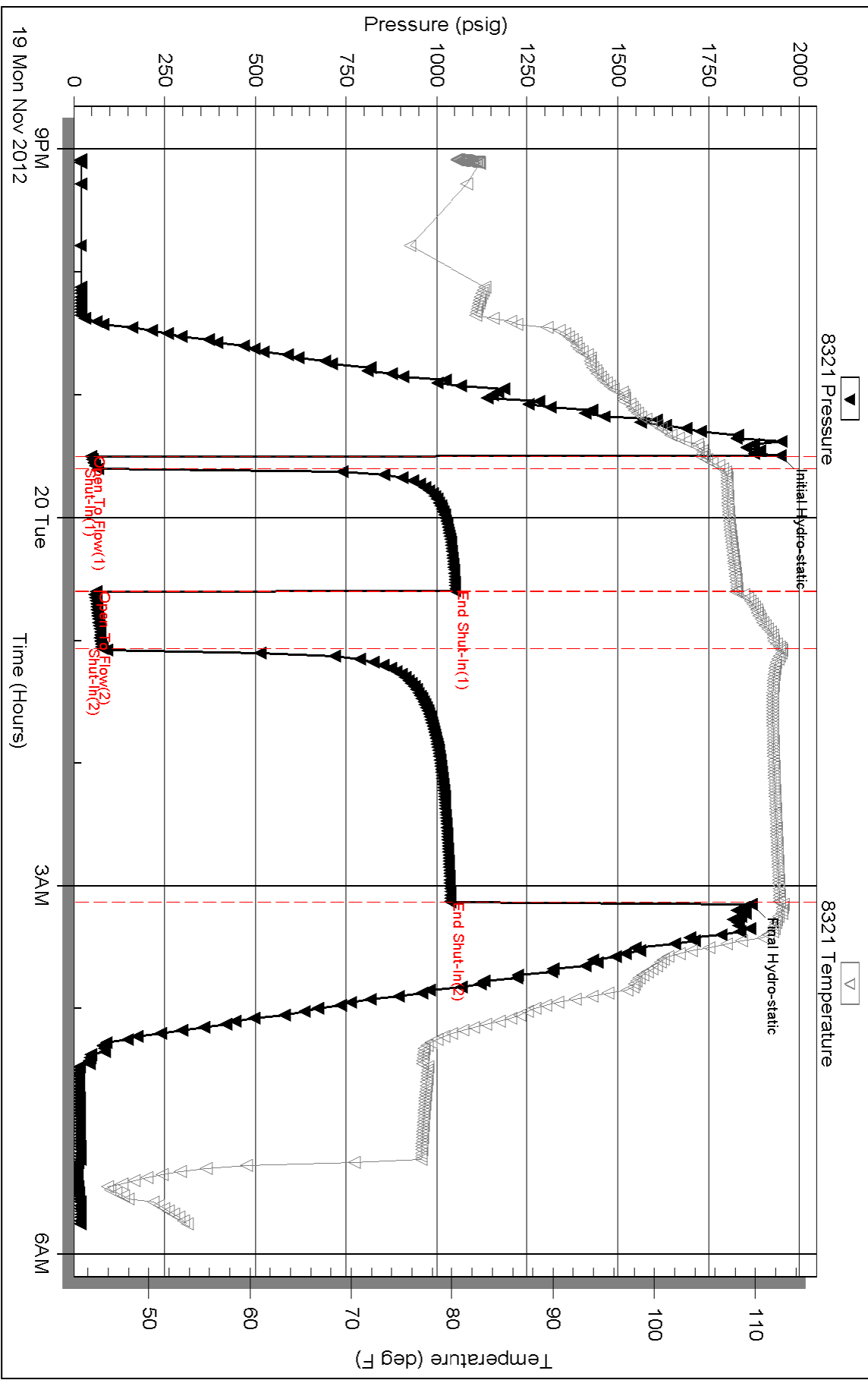
Inside

Samuel Gary Jr and Associates Inc

Shubert E AI 2-31

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44317

Printed: 2012.11.20 @ 07:49:07

Serial #: 8679

Fluid

Samuel Gary Jr and Associates Inc

Shubert E AI 2-31

DST Test Number: 2

