



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

34 14s 15w Russell

1515 Wynkoop Ste 700
Denver CO 80202

Roman Catholic D1-34

ATTN: Chris Mitchell

Job Ticket: 47645

DST#: 3

Test Start: 2012.08.21 @ 15:00:00

GENERAL INFORMATION:

Formation: **Penn Sand**

Deviated: No Whipstock: 1886.00 ft (KB)

Time Tool Opened: 16:39:15

Time Test Ended: 22:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 58

Interval: 3355.00 ft (KB) To 3375.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3375.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8672 Outside

Press @ Run Depth: 873.99 psig @ 3356.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.21

End Date:

2012.08.21

Last Calib.:

2012.08.21

Start Time: 15:00:05

End Time:

22:21:44

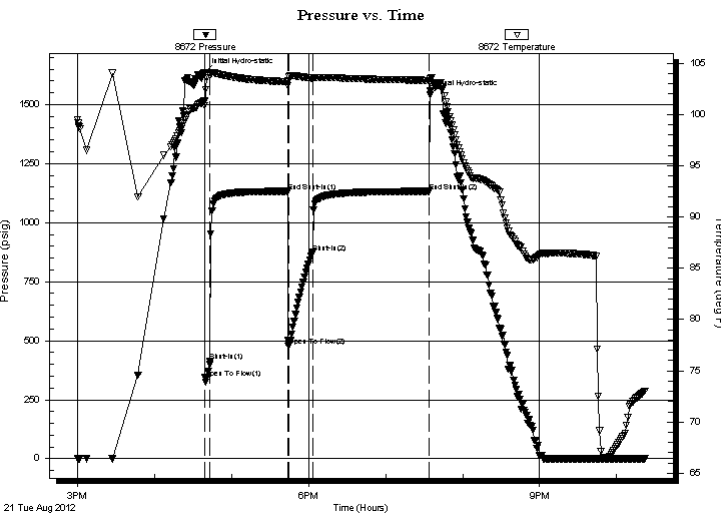
Time On Btm:

2012.08.21 @ 16:38:45

Time Off Btm:

2012.08.21 @ 19:34:30

TEST COMMENT: 5-IFP- BOB in 1min
60-ISIP- Weak Surface Blow in 1min Died in 10min
20-FFP- BOB in 30sec
90-FSIP- No Blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1636.10 | 101.31 | Initial Hydro-static |
| 1 | 343.22 | 100.88 | Open To Flow (1) |
| 5 | 414.52 | 103.86 | Shut-In(1) |
| 65 | 1132.77 | 103.22 | End Shut-In(1) |
| 66 | 476.74 | 103.33 | Open To Flow (2) |
| 85 | 873.99 | 103.55 | Shut-In(2) |
| 176 | 1131.61 | 103.33 | End Shut-In(2) |
| 176 | 1540.65 | 103.55 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 202.00 | MCW 20% m 80% w | 2.83 |
| 248.00 | MCW 10% m 90% w | 3.48 |
| 1370.00 | MCW 1% m 99% w | 19.22 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 47645

DST#: 3

ATTN: Chris Mitchell

Test Start: 2012.08.21 @ 15:00:00

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:

9000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 202.00 | MCW 20%m 80%w | 2.834 |
| 248.00 | MCW 10%m 90%w | 3.479 |
| 1370.00 | MCW 1%m 99%w | 19.217 |

Total Length: 1820.00 ft Total Volume: 25.530 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

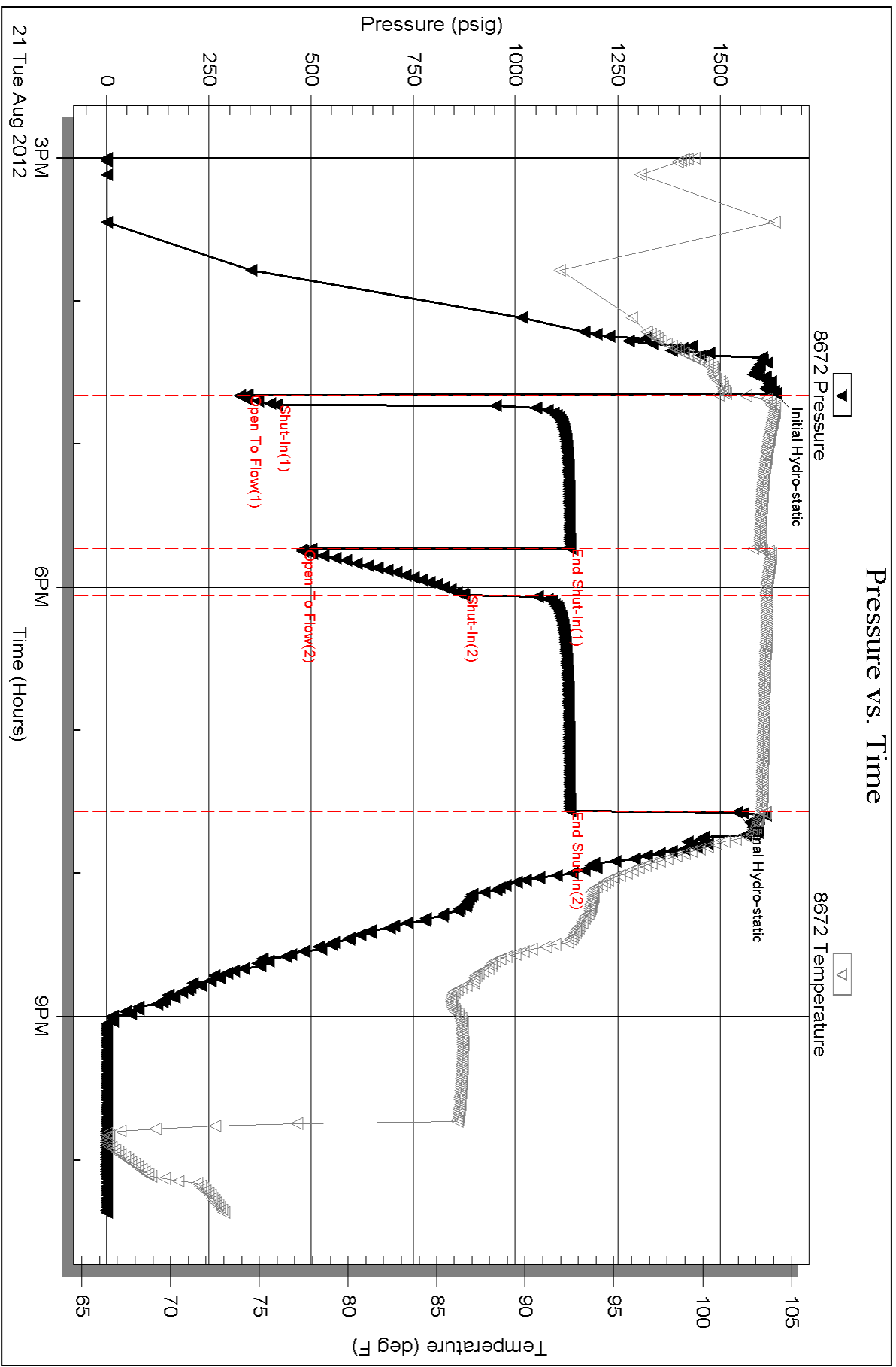
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .60@80

Sampler Chlorides .55@78 - 10000ppm



Serial #: 8674

Fluid

Samuel Gary Jr & Assoc Inc

Roman Catholic D1-34

DST Test Number: 3

