



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary & Associates

35-16S-16W Rush, KS

1515 Wynkoop STE 700
Denevr Co 80202

Maier Family 1-35

Job Ticket: 56189

DST#: 3

ATTN: Chris Mitchell

Test Start: 2014.02.19 @ 18:03:00

GENERAL INFORMATION:

Formation: **LKC Kzone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:15:30

Time Test Ended: 02:00:00

Test Type: Conventional Straddle (Reset)

Tester: Tim Phillips

Unit No: 70

Interval: 3484.00 ft (KB) To 3505.00 ft (KB) (TVD)

Reference Elevations: 2011.00 ft (KB)

Total Depth: 3411.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press@RunDepth: 19.34 psig @ 3484.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.19

End Date:

2014.02.20

Last Calib.: 2014.02.20

Start Time: 18:03:05

End Time:

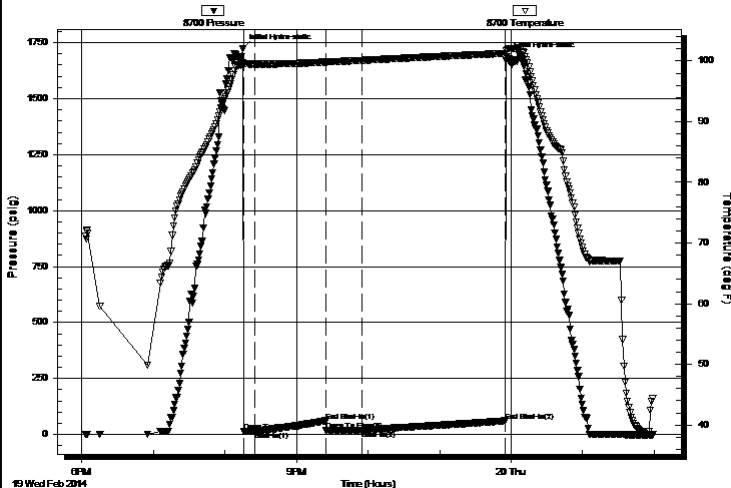
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Time On Btm: 2014.02.19 @ 20:15:00

Time Off Btm: 2014.02.19 @ 23:57:00

TEST COMMENT: IFP-10- Blow built to 1/2 in
ISI-60- Blow back built 1/4 in died back to nothing
FF-30- Blow built to 1/2 in
FSI-120- Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1724.62	99.65	Initial Hydro-static
1	15.37	99.40	Open To Flow (1)
10	15.93	99.50	Shut-In(1)
70	61.11	99.82	End Shut-In(1)
70	18.50	99.80	Open To Flow (2)
100	19.34	100.11	Shut-In(2)
221	60.55	101.25	End Shut-In(2)
222	1688.94	101.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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Unit No: 70

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Total Depth: 3411.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2011.00 ft (KB)

2006.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8374 Fluid

Press@RunDepth: psig @ 3450.00 ft (KB)

Start Date: 2014.02.19

End Date:

2014.02.20

Start Time: 18:03:05

End Time:

02:00:14

Capacity: 8000.00 psig

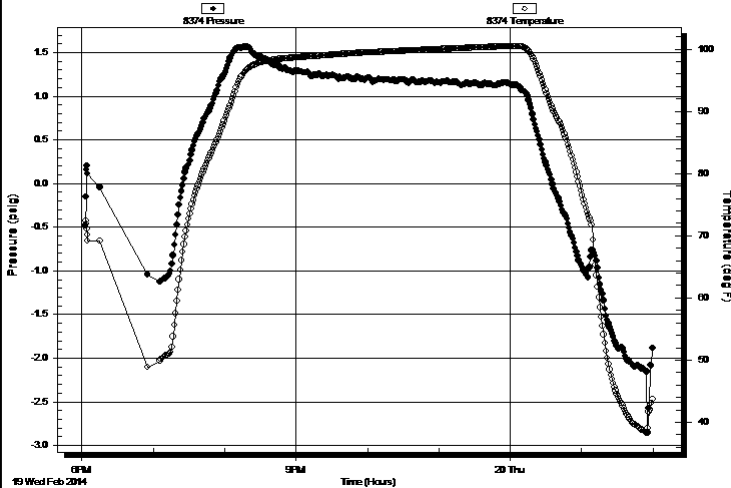
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Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-10- Blow built to 1/2 in
ISI-60- Blow back built 1/4 in died back to nothing
FF-30- Blow built to 1/2 in
FSI-120- Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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Sam Gary & Associates

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Denevr Co 80202

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35-16S-16W Rush,KS

Maier Family 1-35

Job Ticket: 56189

DST#: 3

Test Start: 2014.02.19 @ 18:03:00

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Time Test Ended: 02:00:00

Test Type: Conventional Straddle (Reset)

Tester: Tim Phillips

Unit No: 70

Interval: 3484.00 ft (KB) To 3505.00 ft (KB) (TVD)

Total Depth: 3411.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2011.00 ft (KB)

2006.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8652 Below (Straddle)

Press@RunDepth: psig @ 3507.00 ft (KB)

Start Date: 2014.02.19

End Date:

2014.02.20

Start Time: 18:03:01

End Time:

02:00:03

Capacity: 8000.00 psig

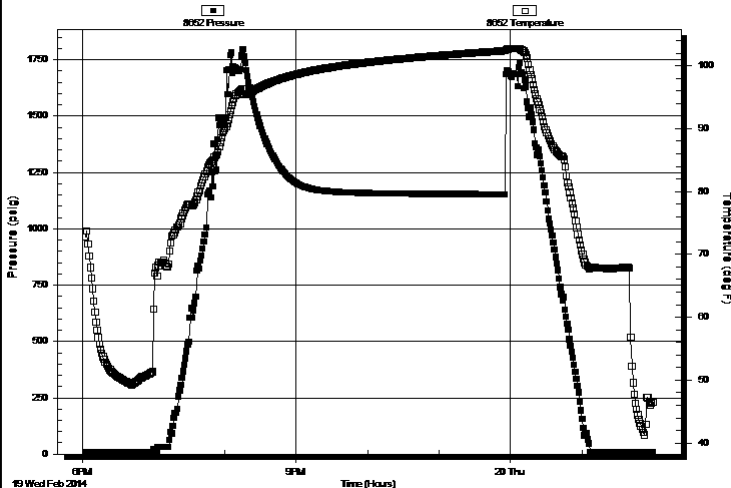
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Time On Btm:

Time Off Btm:

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ISI-60- Blow back built 1/4 in died back to nothing
FF-30- Blow built to 1/2 in
FSI-120- Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary & Associates

35-16S-16W Rush, KS

1515 Wynkoop STE 700
Denevr Co 80202

Maier Family 1-35

Job Ticket: 56189

DST#: 3

ATTN: Chris Mitchell

Test Start: 2014.02.19 @ 18:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 6900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 250ml at 50psi

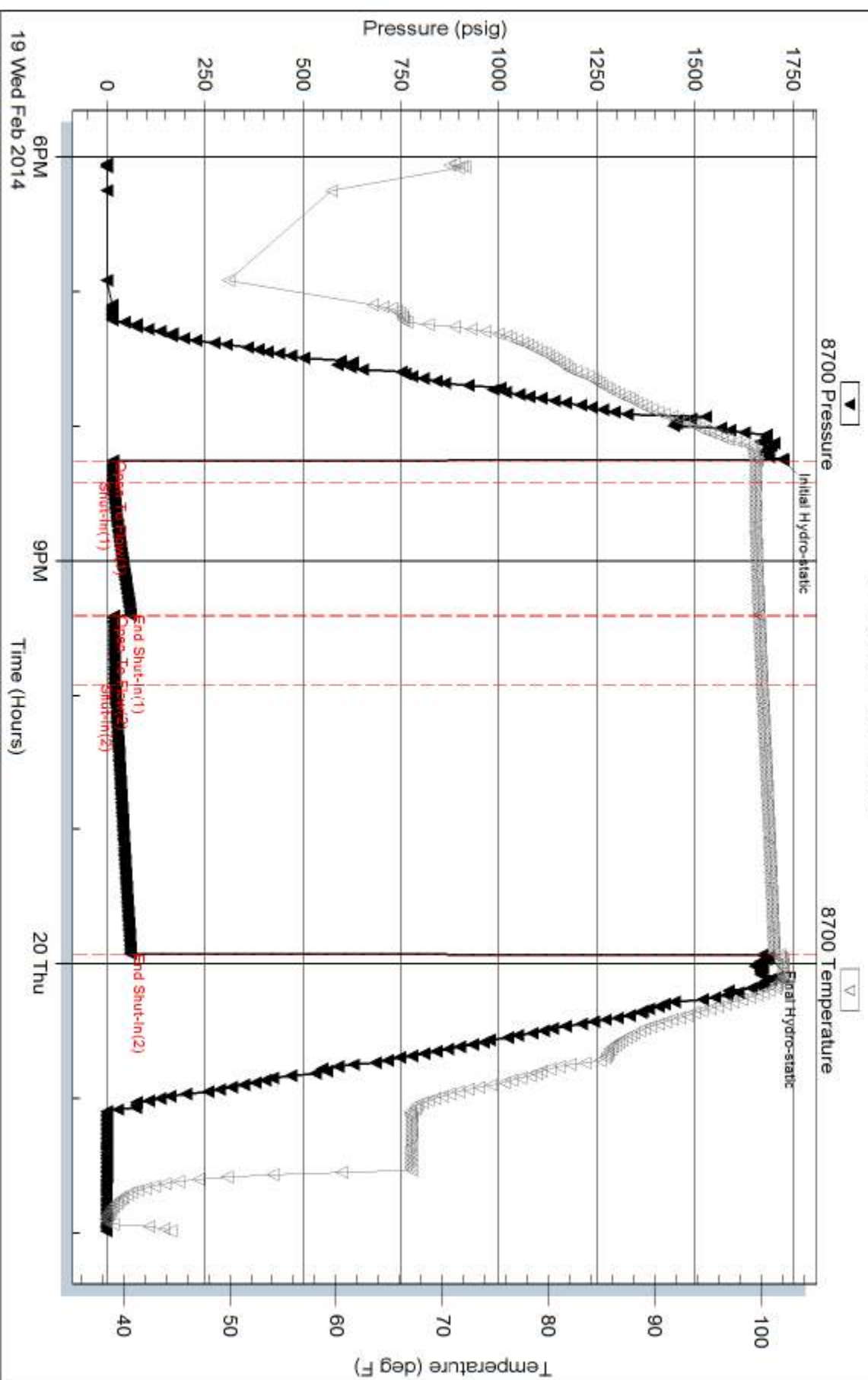
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Outside Sam Gary & Associates

Maier Family 1-35

DST Test Number: 3

Pressure vs. Time



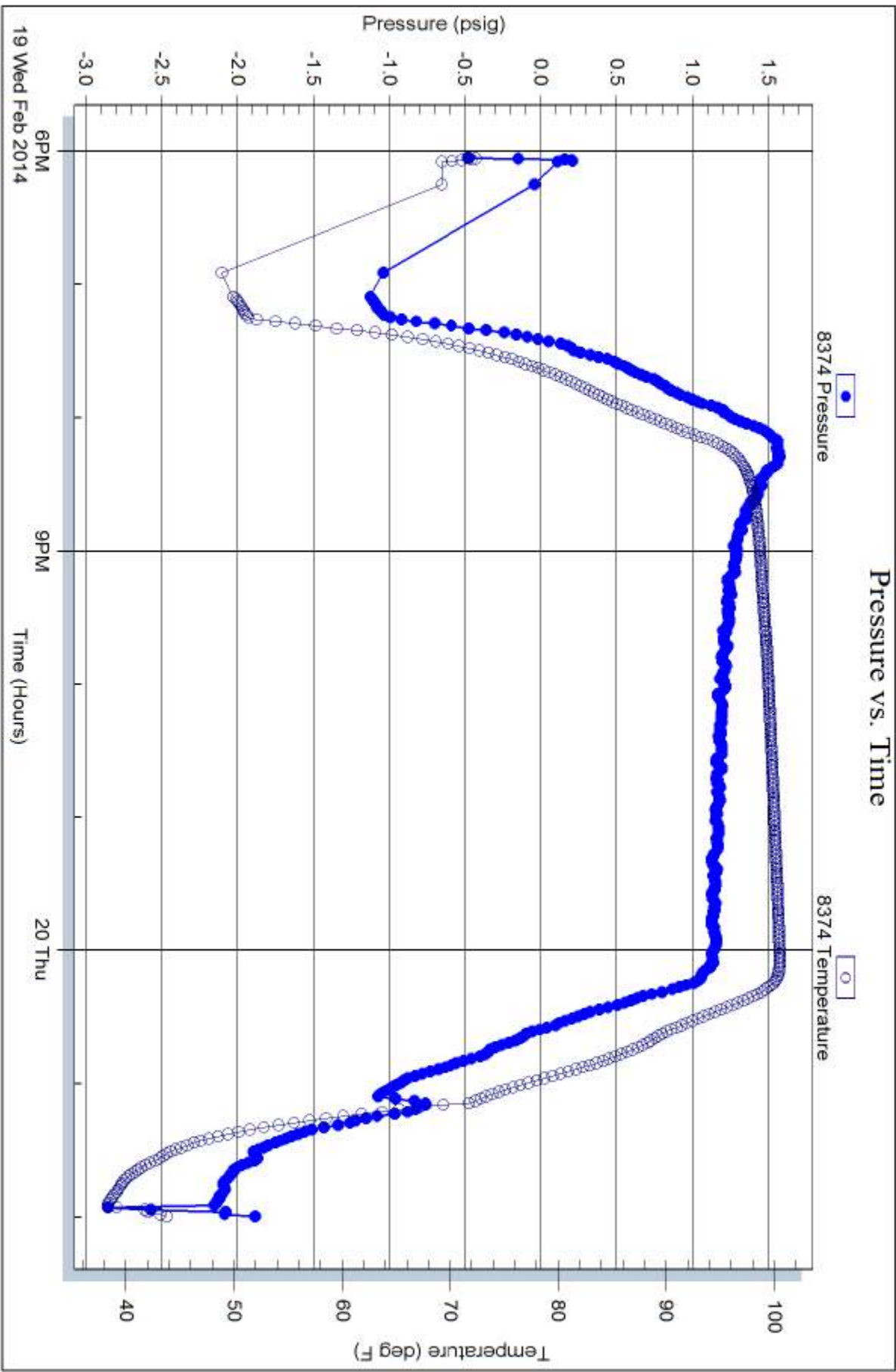
Serial #: 8374

Fluid

Sam Gary & Associates

Maier Family 1-35

DST Test Number: 3



Serial #: 8652

Below (Stratified) & Associates

Maier Family 1-35

DST Test Number: 3

