



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary JR & Assoc Inc

23 10s 23w Graham

1515 Wynkoop Ste 700
Denver CO 80202

R Connes 1-23

Job Ticket: 56019

DST#: 2

ATTN: Chris Mitchell

Test Start: 2014.03.17 @ 11:49:00

GENERAL INFORMATION:

Formation: **LKC " C - F "**

Deviated: No Whipstock: 2336.00 ft (KB)

Time Tool Opened: 13:43:45

Time Test Ended: 20:38:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3650.00 ft (KB) To 3718.00 ft (KB) (TVD)

Reference Elevations: 2336.00 ft (KB)

Total Depth: 3718.00 ft (KB) (TVD)

2329.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press @ RunDepth: 456.98 psig @ 3653.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.17

End Date:

2014.03.17

Last Calib.:

2014.03.17

Start Time: 11:49:02

End Time:

20:37:45

Time On Btm:

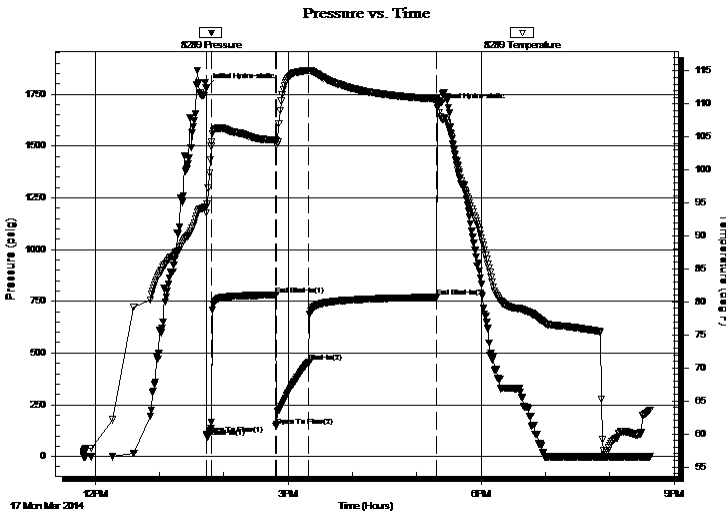
2014.03.17 @ 13:43:30

Time Off Btm:

2014.03.17 @ 17:19:15

TEST COMMENT: 5-IFP- BOB in 2min.
60-ISIP- No Blow For 15min. to 1/4in. Blow Back
30-FFP- BOB in 2 1/2min.
120-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.39	94.41	Initial Hydro-static
1	107.92	93.52	Open To Flow (1)
5	134.83	103.58	Shut-In(1)
65	779.87	104.54	End Shut-In(1)
66	146.67	104.32	Open To Flow (2)
96	456.98	115.04	Shut-In(2)
216	768.86	110.69	End Shut-In(2)
216	1683.55	110.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Water 100%	1.82
625.00	GOMCW 5%o 10%m 15%g 70%w	8.77
130.00	GOWCM 5%o 10%g 30%w 55%m	1.82

Gas Rates

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

* Recovery from multiple tests



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Tester: Jim Svaty

Unit No: 76

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Reference Elevations: 2336.00 ft (KB)

Total Depth: 3718.00 ft (KB) (TVD)

2329.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6668 **Fluid**

Press@RunDepth: psig @ 3616.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.17

End Date: 2014.03.17

Last Calib.: 2014.03.17

Start Time: 11:49:02

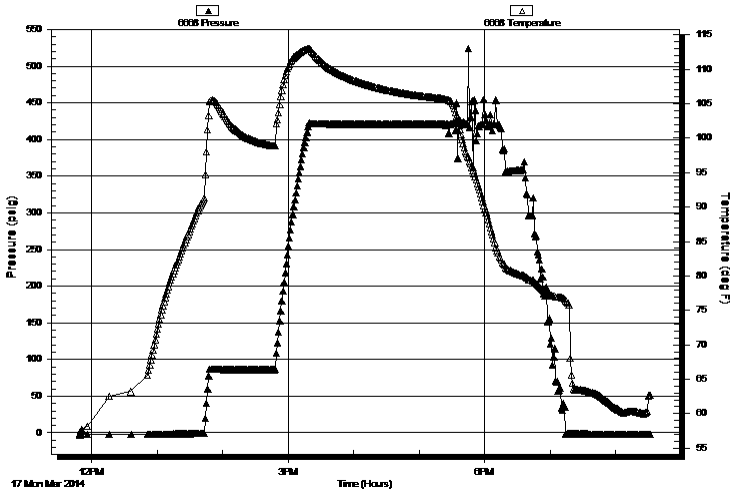
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Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP- BOB in 2min.
60-ISIP- No Blow For 15min. to 1/4in. Blow Back
30-FFP- BOB in 2 1/2min.
120-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Water 100%	1.82
625.00	GOMCW 5%o 10%m 15%g 70%w	8.77
130.00	GOWCM 5%o 10%g 30%w 55%m	1.82

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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DST#: 2

ATTN: Chris Mitchell

Test Start: 2014.03.17 @ 11:49:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 3200.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 35 deg API
Water Salinity: 76000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Water 100%	1.824
625.00	GOMCW 5%o 10%m 15%g 70%w	8.767
130.00	GOWCM 5%o 10%g 30%w 55%m	1.824

Total Length: 885.00 ft Total Volume: 12.415 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

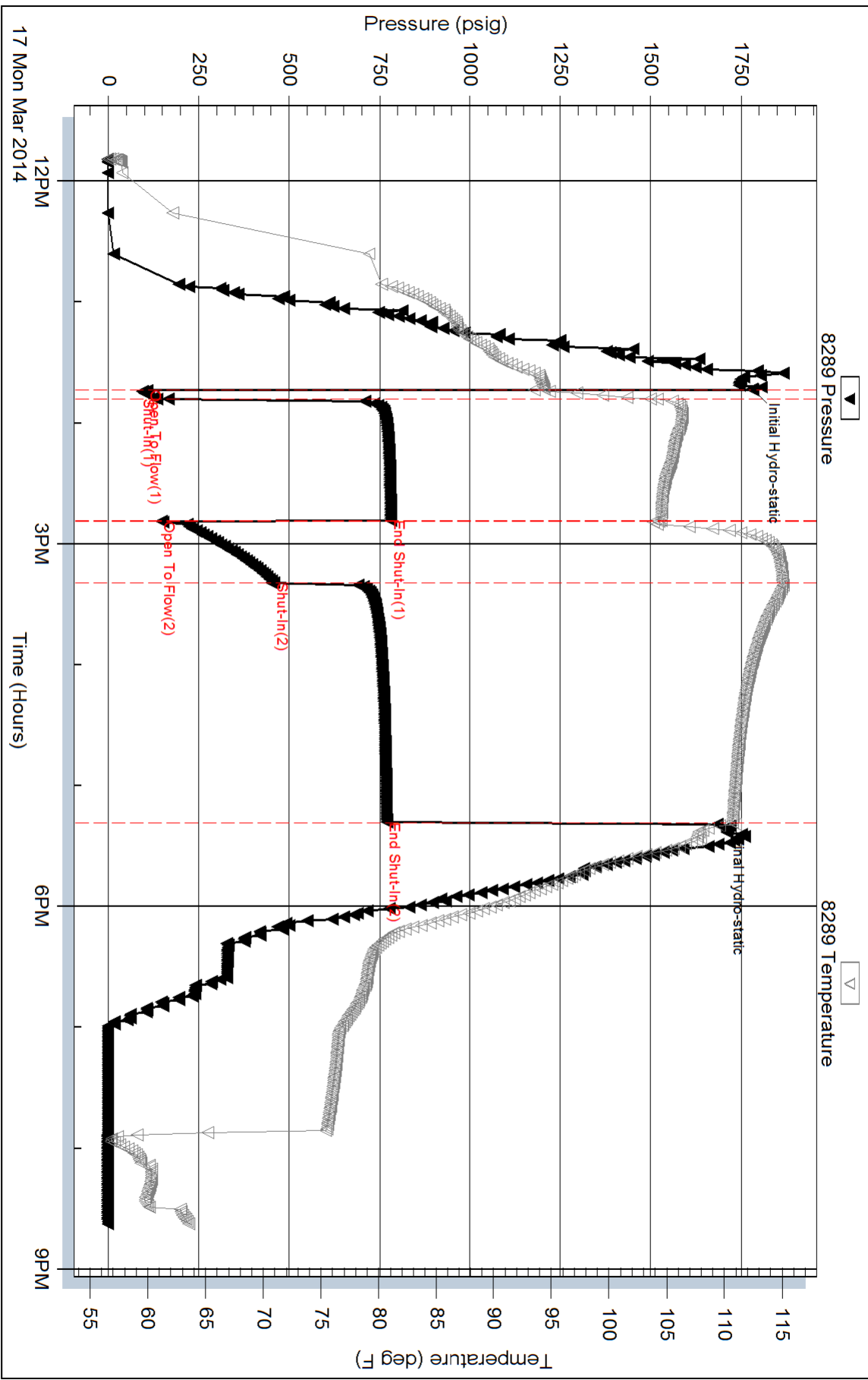
Laboratory Name:

Laboratory Location:

Recovery Comments: .122 @ 60

Sampler --- 480ml oil -- 1120ml water -- 200psi -- 35 gravity -- .159 @ 60
62000ppm

Pressure vs. Time



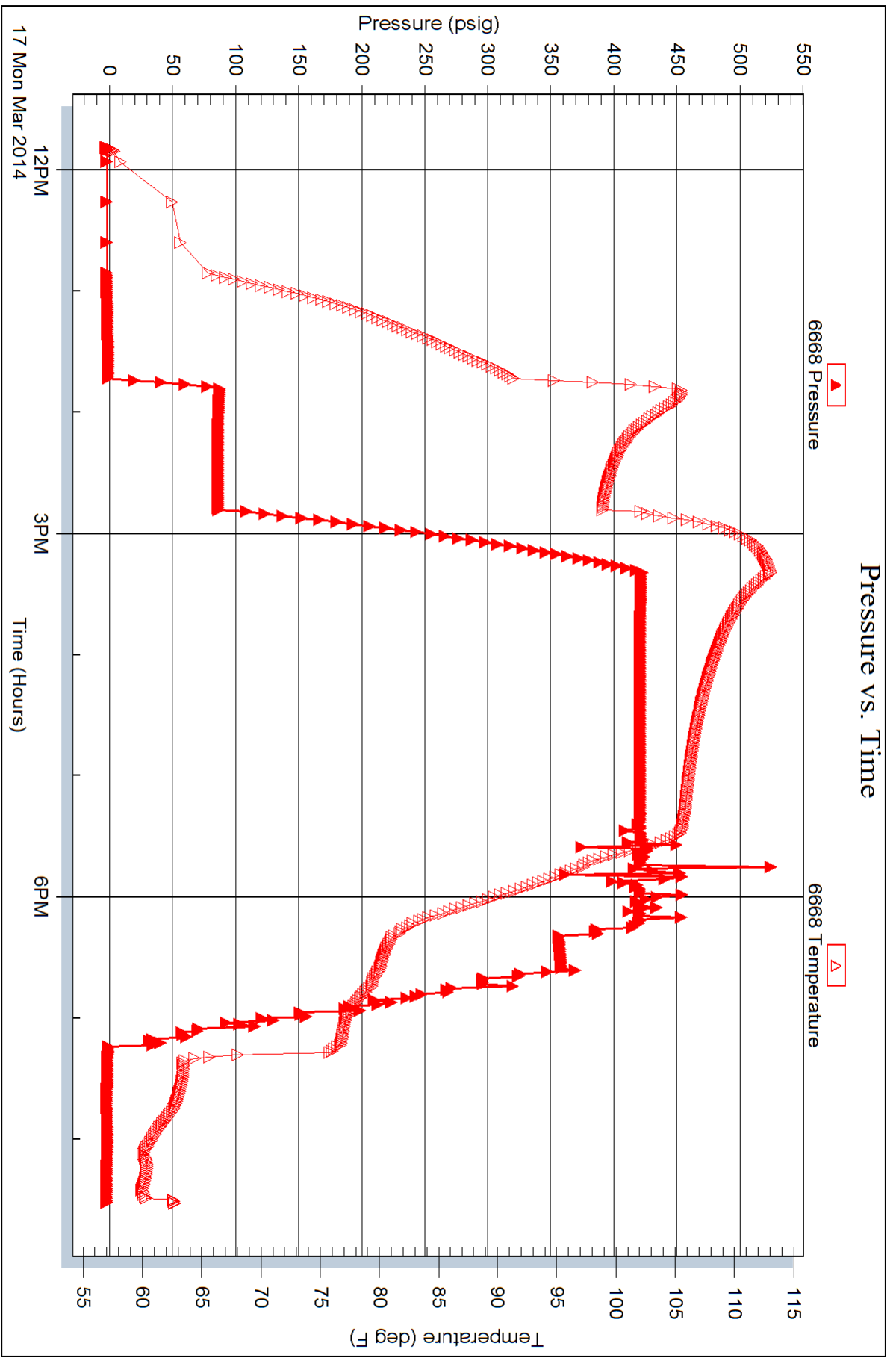
Serial #: 6668

Fluid

Samuel Gary JR & Assoc Inc

RComnes 1-23

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56019

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