



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

14 12s 23w Trego

1515 Wynkoop Ste 700
Denver CO 80202

Minard 1-14

Job Ticket: 50412

DST#: 1

ATTN: Dan Pritchard

Test Start: 2014.01.06 @ 06:19:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: 2452.00 ft (KB)

Time Tool Opened: 08:54:45

Time Test Ended: 16:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 54

Interval: 3726.00 ft (KB) To 3788.00 ft (KB) (TVD)

Total Depth: 3788.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2452.00 ft (KB)

2444.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press @ Run Depth: 217.49 psig @ 3727.00 ft (KB)

Start Date: 2014.01.06

End Date:

2014.01.06

Start Time: 06:19:02

End Time:

16:18:45

Capacity: 8000.00 psig

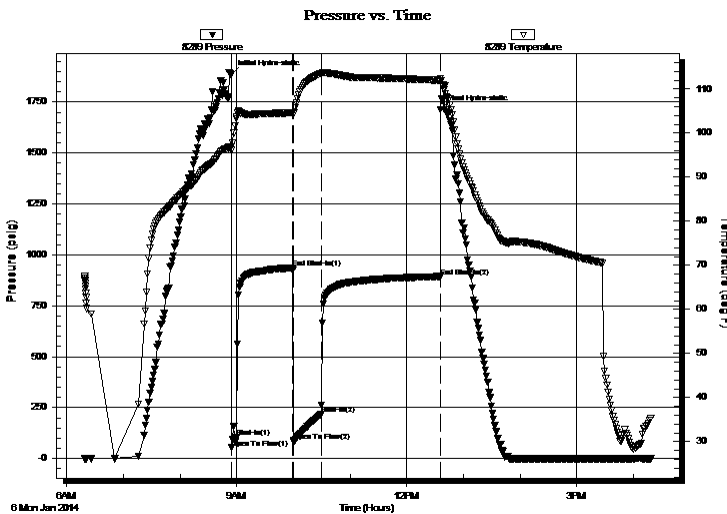
Last Calib.: 2014.01.06

Time On Btm: 2014.01.06 @ 08:54:30

Time Off Btm: 2014.01.06 @ 12:35:45

TEST COMMENT: 5-IFP- BOB in 3 min.
60-ISIP- Surface Blow
30-FFP- BOB in 2 1/2 min.
120-FSIP- BOB in 75 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.58	96.98	Initial Hydro-static
1	52.27	96.11	Open To Flow (1)
6	105.81	103.76	Shut-In(1)
65	935.29	104.61	End Shut-In(1)
66	83.63	104.33	Open To Flow (2)
95	217.49	113.53	Shut-In(2)
221	893.99	111.97	End Shut-In(2)
222	1714.87	112.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OSMCW 15%w 85%w	1.26
219.00	MWCO 10%w 30%w 60%o	3.07
125.00	WMCO 20%w 25%w 55%o	1.75
30.00	OCM 5%w 95%w	0.42
0.00	402 GIP	0.00

Gas Rates

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



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Reference Elevations: 2452.00 ft (KB)

Total Depth: 3788.00 ft (KB) (TVD)

2444.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press @ Run Depth: psig @ 3727.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.06

End Date: 2014.01.06

Last Calib.: 2014.01.06

Start Time: 06:19:02

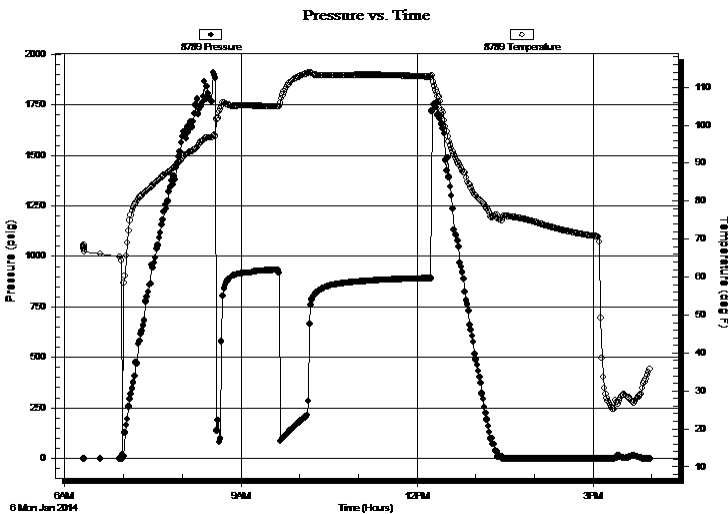
End Time: 15:58:10

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP- BOB in 3 min.
60-ISIP- Surface Blow
30-FFP- BOB in 2 1/2 min.
120-FSIP- BOB in 75 min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OSMCW 15% m 85% w	1.26
219.00	MWCO 10% m 30% w 60% o	3.07
125.00	WMCO 20% w 25% m 55% o	1.75
30.00	OCM 5% o 95% m	0.42
0.00	402 GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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14 12s 23w Trego

1515 Wynkoop Ste 700
Denver CO 80202

Minard 1-14

Job Ticket: 50412

DST#: 1

ATTN: Dan Pritchard

Test Start: 2014.01.06 @ 06:19:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

80000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 0.25 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	OSMCW 15%m 85%w	1.262
219.00	MWCO 10%m 30%w 60%o	3.072
125.00	WMCO 20%w 25%m 55%o	1.753
30.00	OCM 5%o 95%m	0.421
0.00	402 GIP	0.000

Total Length: 464.00 ft Total Volume: 6.508 bbl

Num Fluid Samples: 0

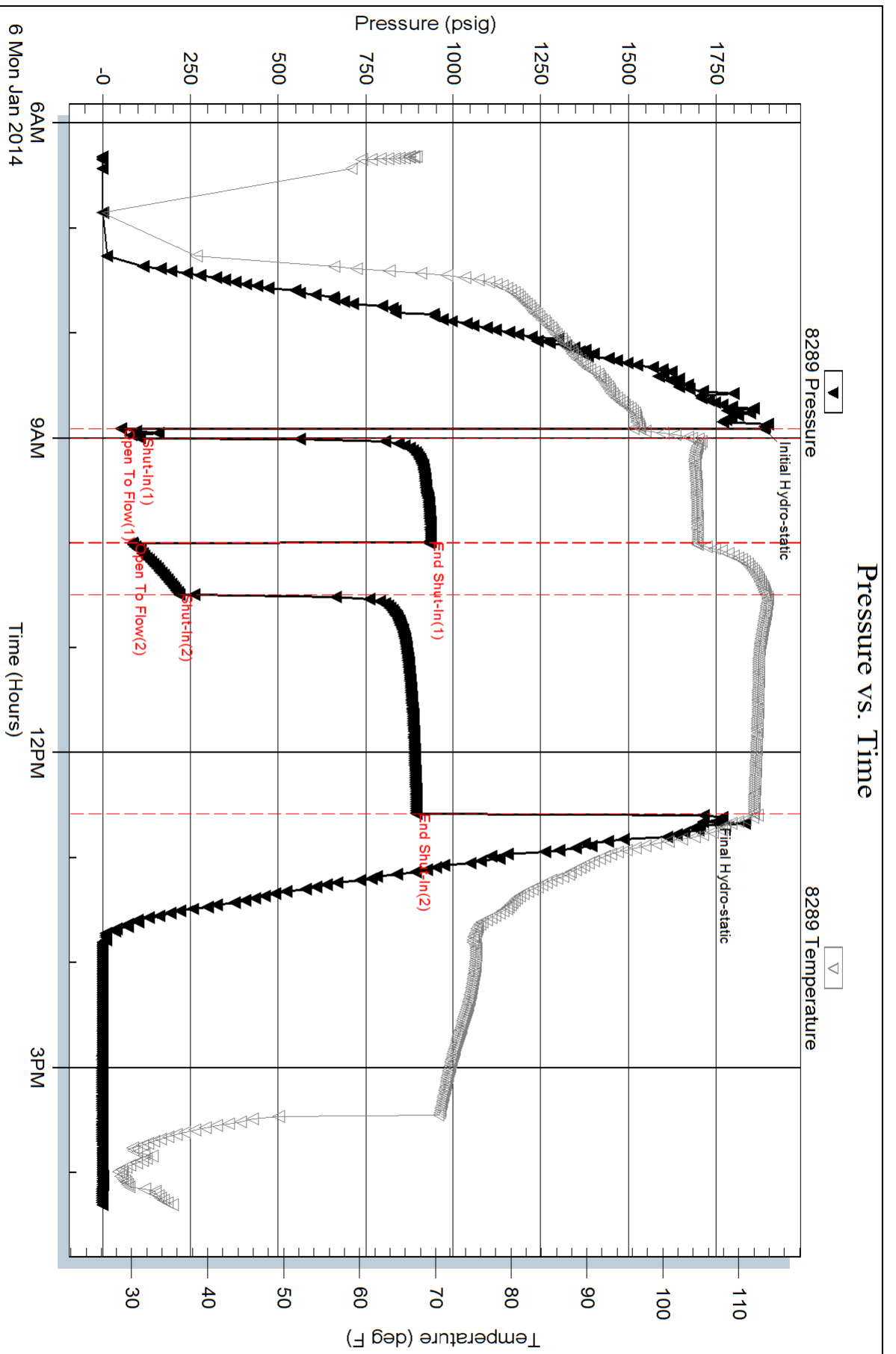
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler 2200ml CO 100% Gravity 36 450psi
.185 @ 38



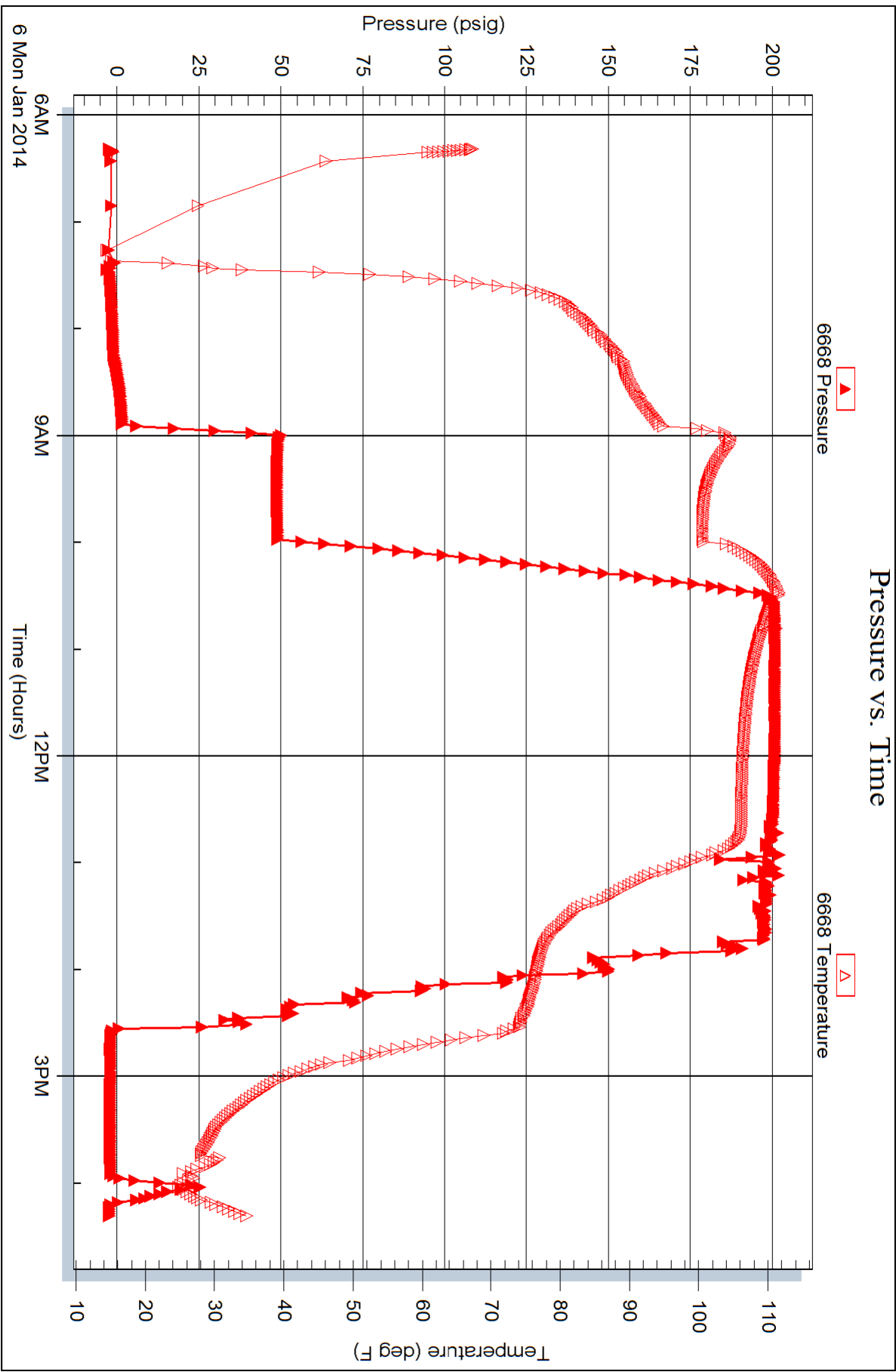
Serial #: 6668

Fluid

Samuel Gary Jr & Assoc Inc

Minard 1-14

DST Test Number: 1



Serial #: 8789

Inside

Samuel Gary Jr & Assoc Inc

Minard 1-14

DST Test Number: 1

