



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

12-11s-22w Trego KS

1515 Wynkoop Dr. STE 700
Denver CO, 80202

Walz Family 1-12

Job Ticket: 56076

DST#: 4

ATTN: Dan Pritchard

Test Start: 2014.02.19 @ 02:50:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:19:15

Time Test Ended: 12:02:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3768.00 ft (KB) To 3786.00 ft (KB) (TVD)

Reference Elevations: 2184.00 ft (KB)

Total Depth: 3786.00 ft (KB) (TVD)

2176.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8655 Outside

Press@RunDepth: 40.66 psig @ 3770.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.19

End Date:

2014.02.19

Last Calib.:

2014.02.19

Start Time: 02:50:05

End Time:

12:02:00

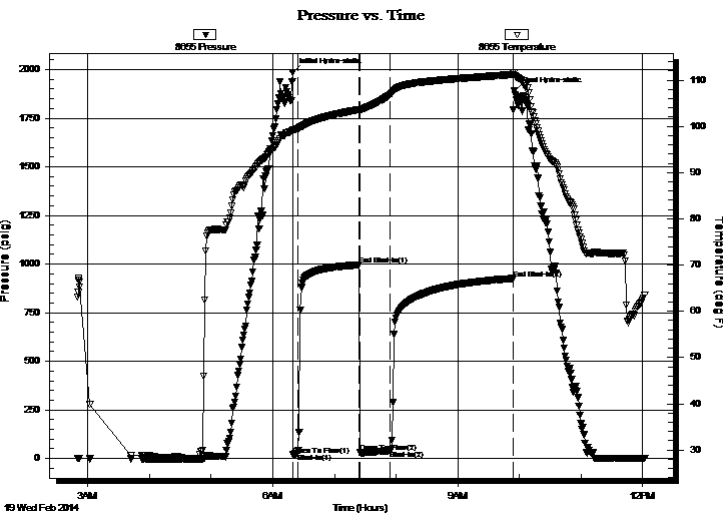
Time On Btm:

2014.02.19 @ 06:19:00

Time Off Btm:

2014.02.19 @ 09:54:45

TEST COMMENT: 05 - IF- 1 1/2" blow
60 - IS- No return
30 - FF- 6" blow
120 - FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.62	99.16	Initial Hydro-static
1	18.40	98.82	Open To Flow (1)
6	26.43	99.46	Shut-In(1)
65	995.60	103.64	End Shut-In(1)
66	33.10	103.46	Open To Flow (2)
95	40.66	106.83	Shut-In(2)
215	922.89	111.18	End Shut-In(2)
216	1889.34	111.52	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
20.00	HOCM, 30%O, 70%M	0.10
45.00	GO, 5%G, 95%O	0.54
0.00	186' of G.I.P.	0.00

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

* Recovery from multiple tests



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GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:19:15

Time Test Ended: 12:02:00

Interval: 3768.00 ft (KB) To 3786.00 ft (KB) (TVD)

Total Depth: 3786.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Reference Elevations: 2184.00 ft (KB)

2176.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8875

Fluid

Press@RunDepth: psig @ 3732.00 ft (KB)

Start Date: 2014.02.19

End Date:

2014.02.19

Start Time: 02:50:05

End Time:

12:03:30

Capacity: 8000.00 psig

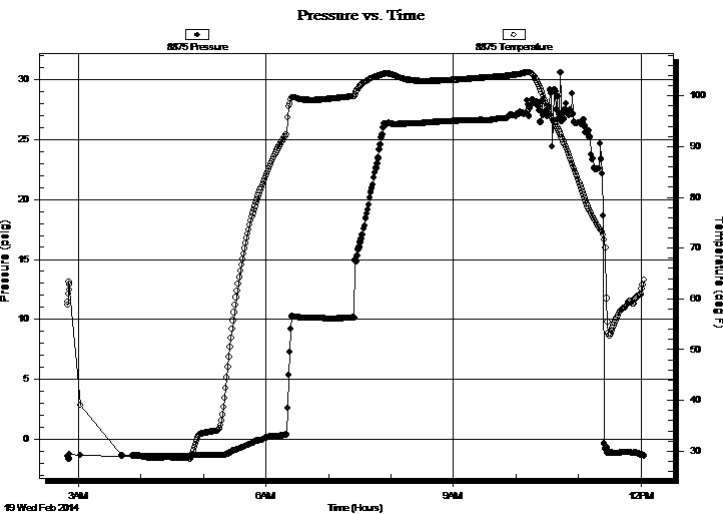
Last Calib.:

2014.02.19

Time On Btm:

Time Off Btm:

TEST COMMENT: 05 - IF- 1 1/2" blow
60 - IS- No return
30 - FF- 6" blow
120 - FS- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	HOCM, 30%O, 70%M	0.10
45.00	GO, 5%G, 95%O	0.54
0.00	186' of G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



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TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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12-11s-22w Trego KS

1515 Wynkoop Dr. STE 700
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Walz Family 1-12

Job Ticket: 56076

DST#: 4

ATTN: Dan Pritchard

Test Start: 2014.02.19 @ 02:50:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 9.18 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: inches

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

Oil API: 34 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	HOCM, 30%O, 70%M	0.098
45.00	GO, 5%G, 95%O	0.540
0.00	186' of G.I.P.	0.000

Total Length: 65.00 ft Total Volume: 0.638 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

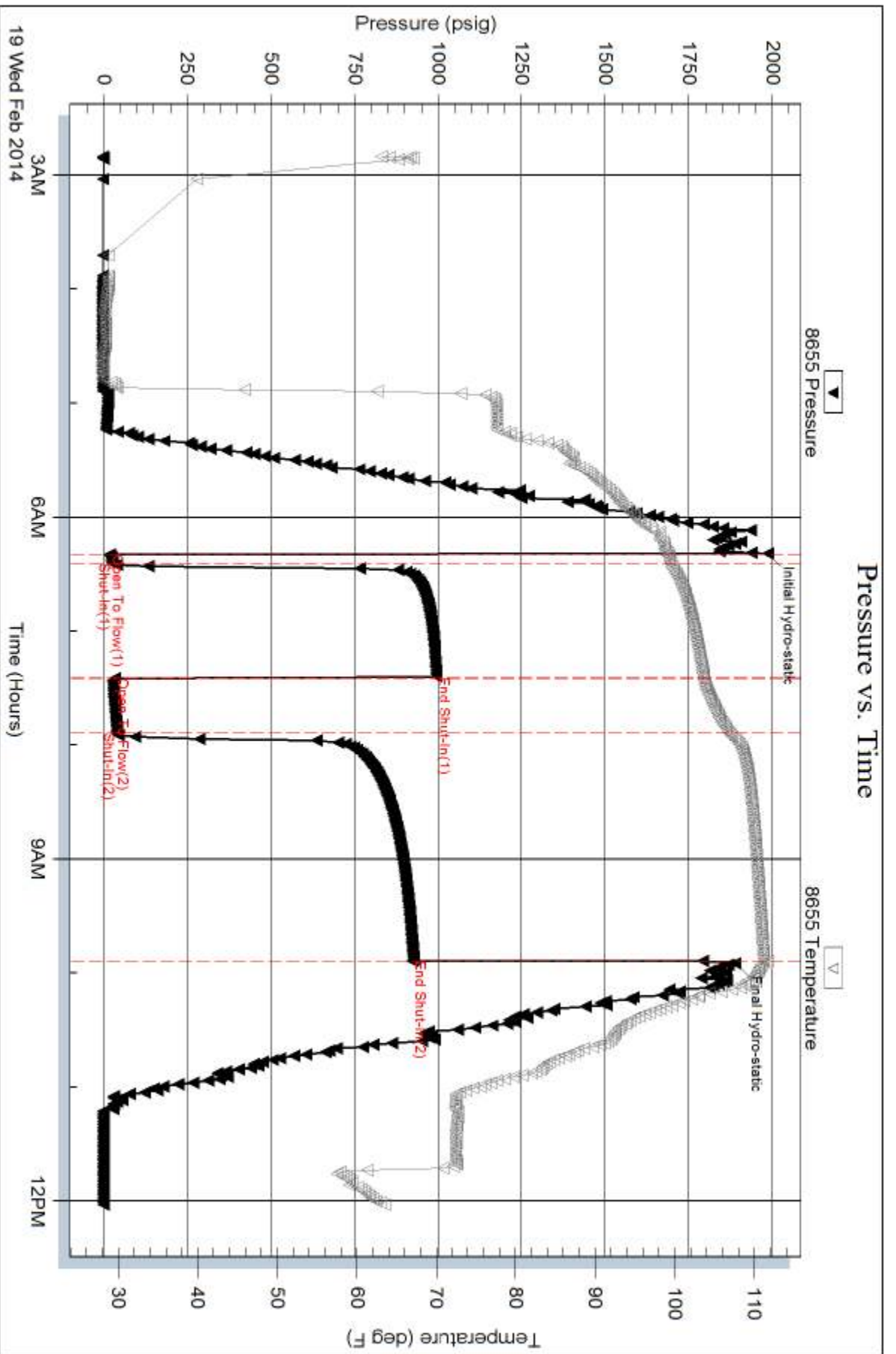
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 200PSI, 100ML Mud, 1900 ML Oil

Gravity = 34 36@ 80 Degrees = 34



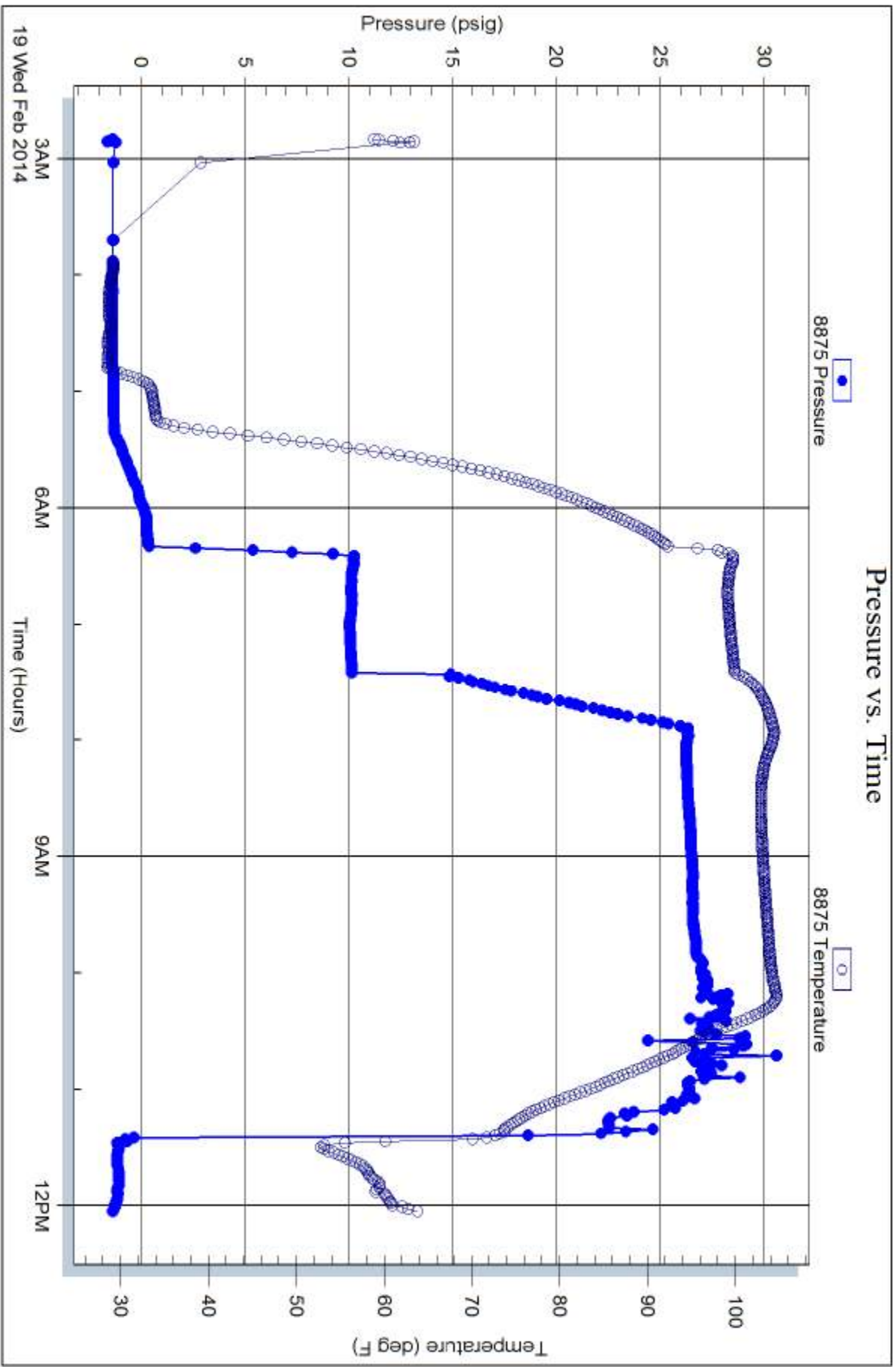
Serial #: 8875

Fluid

Samuel Gary Jr. & Associates

Walz Family 1-12

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 56076

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