

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Griffin, Charles N. (Griffin MNGT)

17-30s-15w Barber Co. , Ks.

P.O. Box 347
Pratt, Ks. 67124

Marlee #1

Job Ticket: 65461

DST#: 2

ATTN: Bruce Reed/ Eli Felt

Test Start: 2019.12.09 @ 20:08:13

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:21:43

Time Test Ended: 04:44:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 4610.00 ft (KB) To 4680.00 ft (KB) (TVD)

Reference Elevations: 1889.00 ft (KB)

Total Depth: 4680.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8931 Inside

Press@RunDepth: 95.02 psig @ 4611.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.09

End Date:

2019.12.10

Last Calib.: 2019.12.10

Start Time: 20:08:18

End Time:

04:44:13

Time On Btm: 2019.12.09 @ 23:18:43

Time Off Btm: 2019.12.10 @ 02:14:43

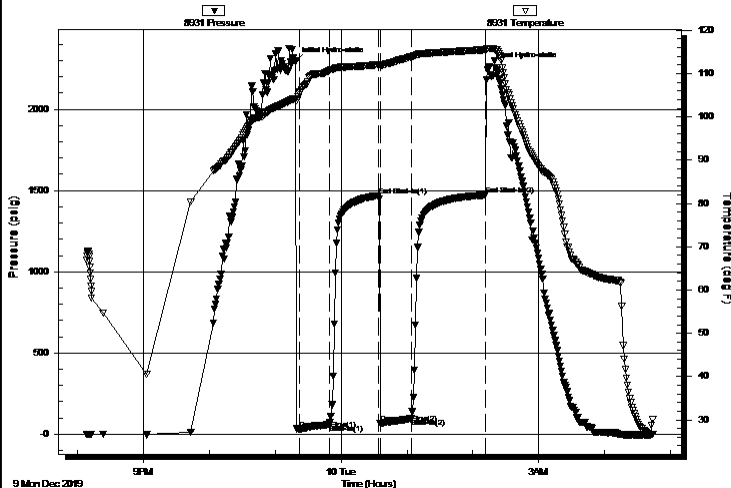
TEST COMMENT: IF: Strong Blow . B.O.B. in 11 mins. Built to 23.04".

ISI: No Blow .

FF: Strong Blow . B.O.B. in 21 mins. Built to 13.22".

FSI: Weak Blow . Surface to 1/4". Died.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2292.39	104.27	Initial Hydro-static
3	29.71	105.48	Open To Flow (1)
31	60.17	110.69	Shut-In(1)
76	1469.54	112.09	End Shut-In(1)
77	65.99	111.81	Open To Flow (2)
105	95.02	113.92	Shut-In(2)
173	1472.67	115.51	End Shut-In(2)
176	2264.57	115.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOWCM 10%g 10%o 15%w 65%m	0.91
65.00	GOCM 5%g 10%o 85%m	0.91
32.00	GOCM 1%g 5%o 94%m	0.45
0.00	320' G.I.P. 100%g	0.00

Gas Rates

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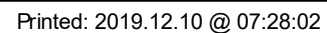
* Recovery from multiple tests



Test Start: 2019.12.09 @ 20:08:13

KB to GR/CF: 12.00 ft

FSI: Weak Blow . Surface to 1/4". Died.





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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.79 in³

Resistivity: 5000.00 ohm.m

Salinity: ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API: deg API

Water Salinity: 5000 ppm

ft
bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	GOWCM 10%g 10%o 15%w 65%m	0.912
65.00	GOCM 5%g 10%o 85%m	0.912
32.00	GOCM 1%g 5%o 94%m	0.449
0.00	320' G.I.P. 100%g	0.000

Total Length: 162.00 ft

Total Volume: 2.273 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments:

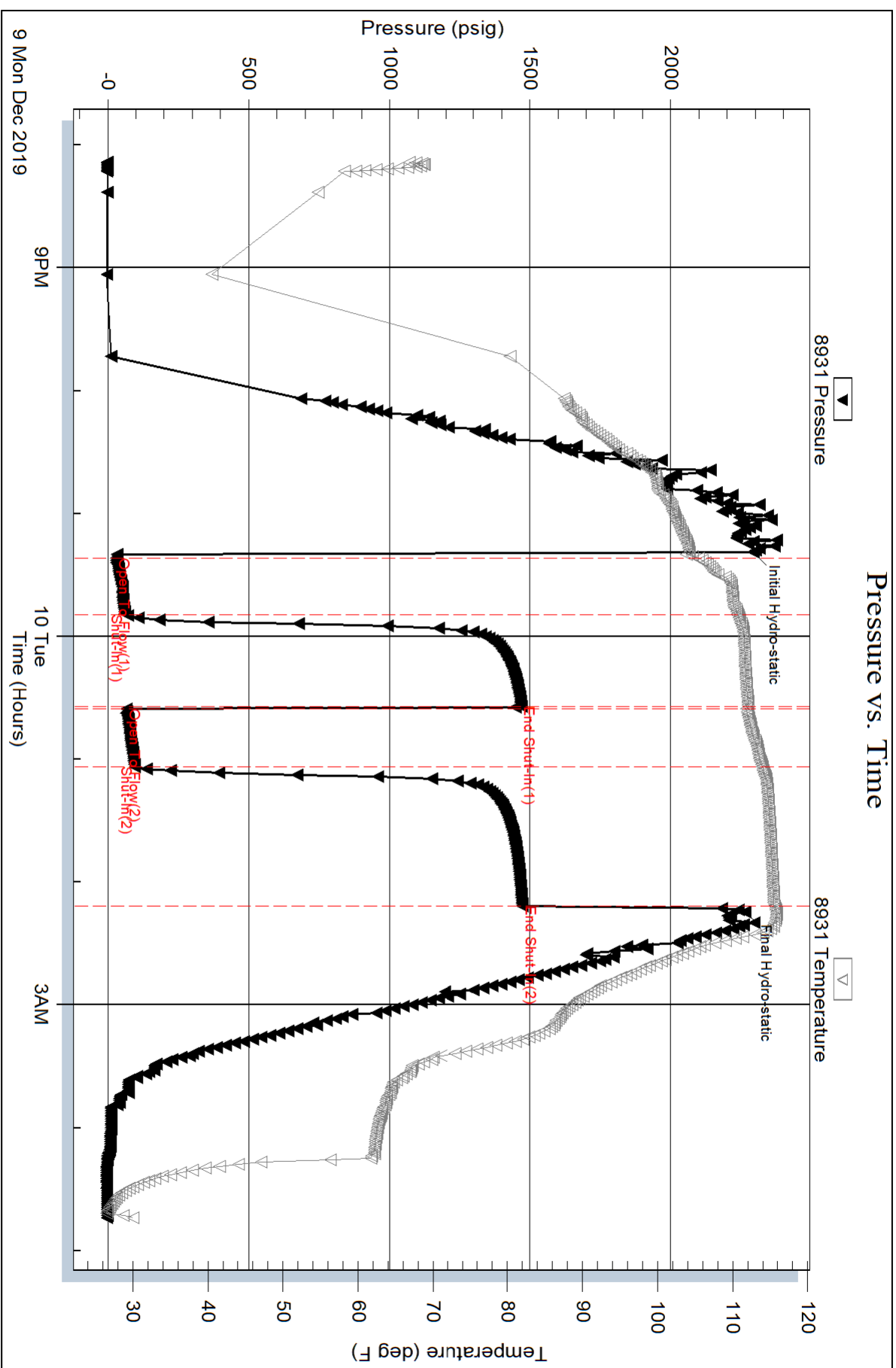
Serial #: 8931

Inside

Griffin, Charles N. (Griffin MNGT)

Marlee #1

DST Test Number: 2



Serial #: 8788

Outside Griffin, Charles N. (Griffin MNGT)

Marlee #1

DST Test Number: 2

