



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Co
125 N Market Ste 125
Wichita, KS 67202
ATTN: Bill Klaver

1-22S-3W Harvey

Stucky 1

Job Ticket: 65904

DST#: 2

Test Start: 2019.09.09 @ 23:48:00

GENERAL INFORMATION:

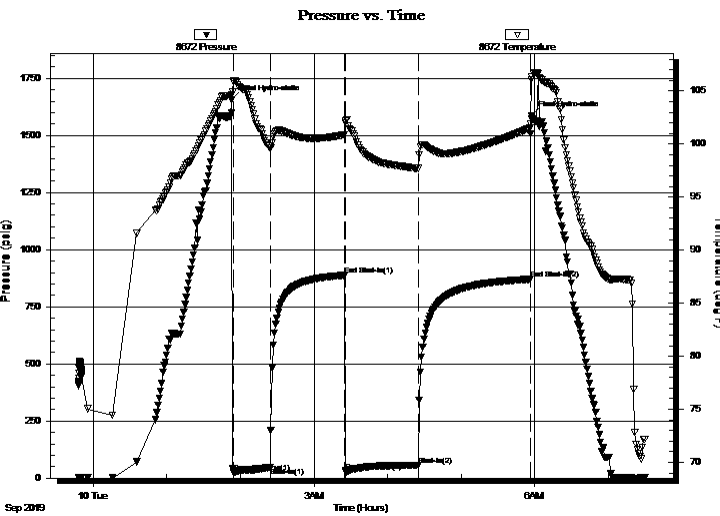
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:54:32 Tester: Leal Cason
 Time Test Ended: 07:30:02 Unit No: 74
 Interval: **3190.00 ft (KB) To 3200.00 ft (KB) (TVD)** Reference Elevations: 1466.00 ft (KB)
 Total Depth: 3200.00 ft (KB) (TVD) 1453.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 13.00 ft

Serial #: 8672

Inside

Press@RunDepth: 55.51 psig @ 3191.00 ft (KB) Capacity: psig
 Start Date: 2019.09.09 End Date: 2019.09.10 Last Calib.: 2019.09.10
 Start Time: 23:48:01 End Time: 07:30:02 Time On Btm: 2019.09.10 @ 01:52:32
 Time Off Btm: 2019.09.10 @ 05:57:17

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 10 minutes, Gauged Gas
 IS: No Blow Back
 FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.26	104.61	Initial Hydro-static
2	24.93	105.91	Open To Flow (1)
32	46.59	99.63	Shut-In(1)
93	887.62	100.91	End Shut-In(1)
94	28.62	102.22	Open To Flow (2)
153	55.51	97.73	Shut-In(2)
245	870.82	101.57	End Shut-In(2)
245	1586.95	106.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
5.00	SGCM 2%G 98%M	0.02

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	8.00	29.31
Last Gas Rate	0.25	28.00	44.42
Max. Gas Rate	0.25	29.00	46.01



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FLUID SUMMARY

Woolsey Operating Co

1-22S-3W Harvey

125 N Market Ste 125
Wichita, KS 67202

Stucky 1

Job Ticket: 65904

DST#: 2

ATTN: Bill Klaver

Test Start: 2019.09.09 @ 23:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 550.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
5.00	SGCM 2%G 98%M	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:



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DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

1-22S-3W Harvey

125 N Market Ste 125
Wichita, KS 67202

Stucky 1

Job Ticket: 65904

DST#: 2

ATTN: Bill Klaver

Test Start: 2019.09.09 @ 23:48:00

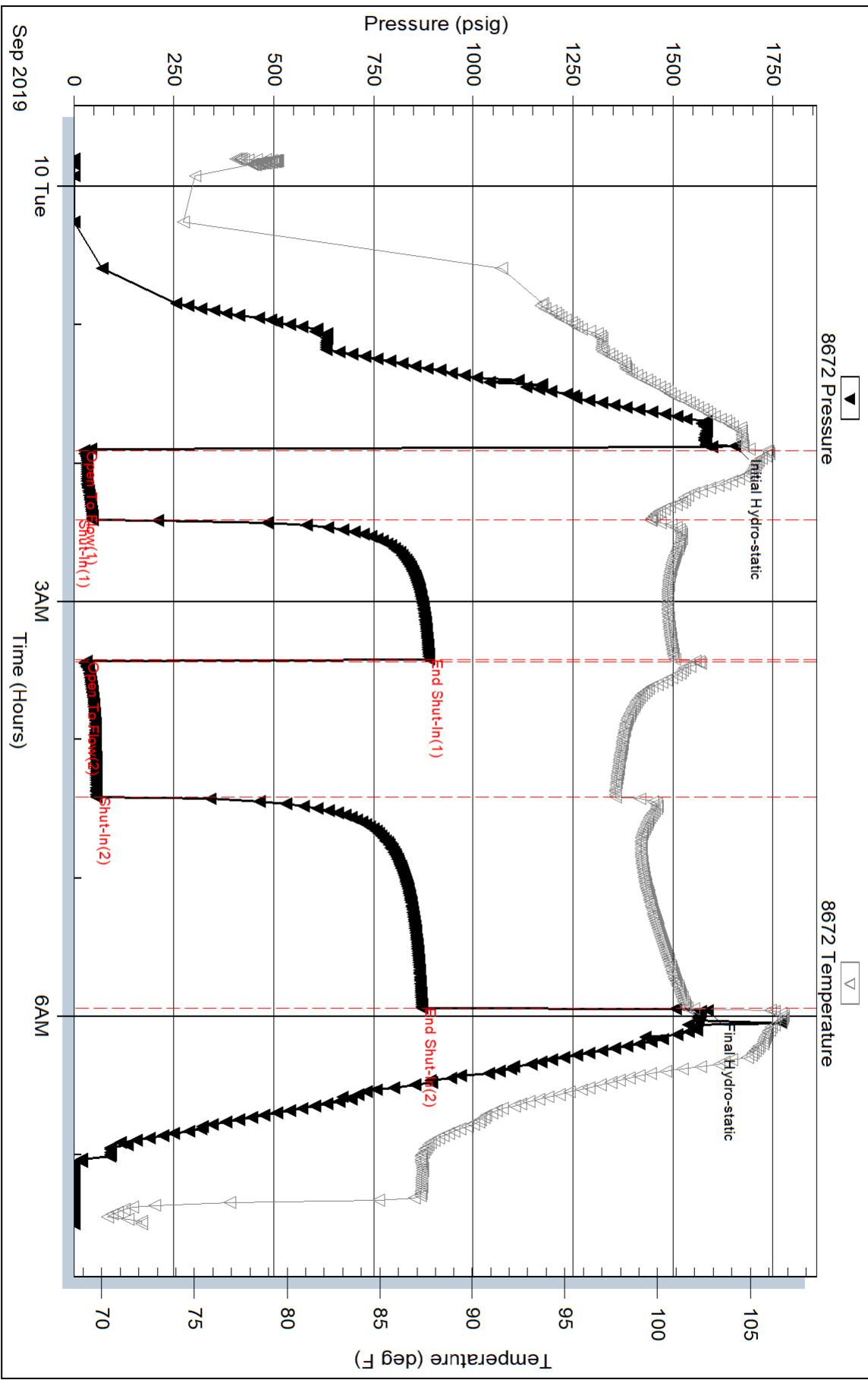
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.38	8.00	29.31
1	10	0.38	8.00	29.31
1	20	0.25	13.00	20.62
1	30	0.25	20.00	31.73
2	10	0.25	23.00	36.49
2	20	0.25	28.00	44.42
2	30	0.25	29.00	46.01
2	40	0.25	28.00	44.42
2	50	0.25	28.00	44.42

Pressure vs. Time



Serial #: 6751

Outside Woodsey Operating Co

Stucky 1

DST Test Number: 2

