



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Culbreath Oil & Gas

22-14s-34w Logan, Ks

3501 S. Yale Ave
Tulsa, Ok
74135-8014
ATTN: Steve Murphy

Baker #1-22

Job Ticket: 45504

DST#: 3

Test Start: 2015.08.19 @ 13:33:30

GENERAL INFORMATION:

Formation: **Cherokee-Johnson**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:35:15

Time Test Ended: 19:30:00

Test Type: Conventional Straddle (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4450.00 ft (KB) To 4520.00 ft (KB) (TVD)

Reference Elevations: 3002.00 ft (KB)

Total Depth: 4680.00 ft (KB) (TVD)

2997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 95.44 psig @ 4451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.19

End Date: 2015.08.19

Last Calib.: 2015.08.19

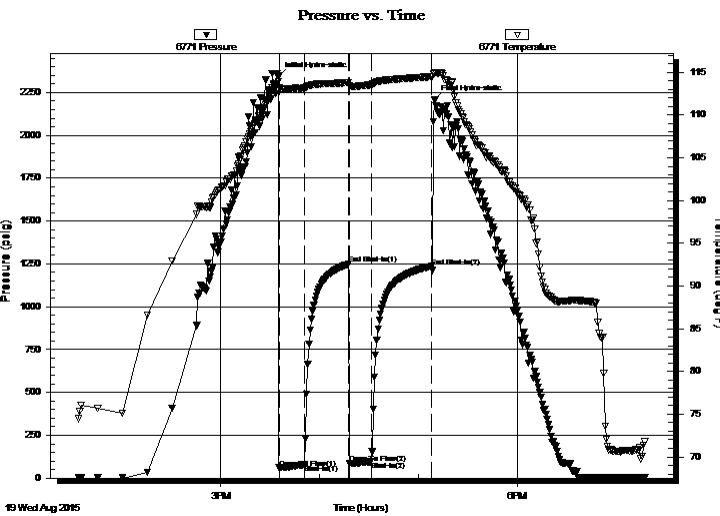
Start Time: 13:33:30

End Time: 19:18:00

Time On Btm: 2015.08.19 @ 15:35:00

Time Off Btm: 2015.08.19 @ 17:10:00

TEST COMMENT: 1/4" in blow died back to a weak surface blow
No return
Weak surface blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.16	113.90	Initial Hydro-static
1	60.02	112.87	Open To Flow (1)
16	81.88	113.18	Shut-In(1)
43	1248.22	113.79	End Shut-In(1)
43	85.56	113.41	Open To Flow (2)
57	95.44	113.52	Shut-In(2)
93	1235.35	114.49	End Shut-In(2)
95	2206.62	114.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud 100% m	0.60

* Recovery from multiple tests

Gas Rates

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



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Total Depth: 4680.00 ft (KB) (TVD)

2997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353 Outside

Press @ Run Depth: psig @ 4525.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.19

End Date: 2015.08.19

Last Calib.: 2015.08.19

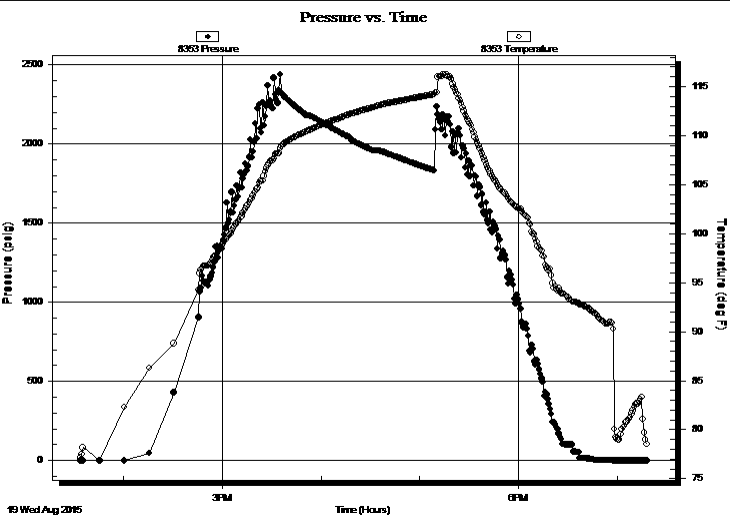
Start Time: 13:33:52

End Time: 19:18:22

Time On Btm:

Time Off Btm:

TEST COMMENT: 1/4" in blow died back to a weak surface blow
No return
Weak surface blow
No return



PRESSURE SUMMARY

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

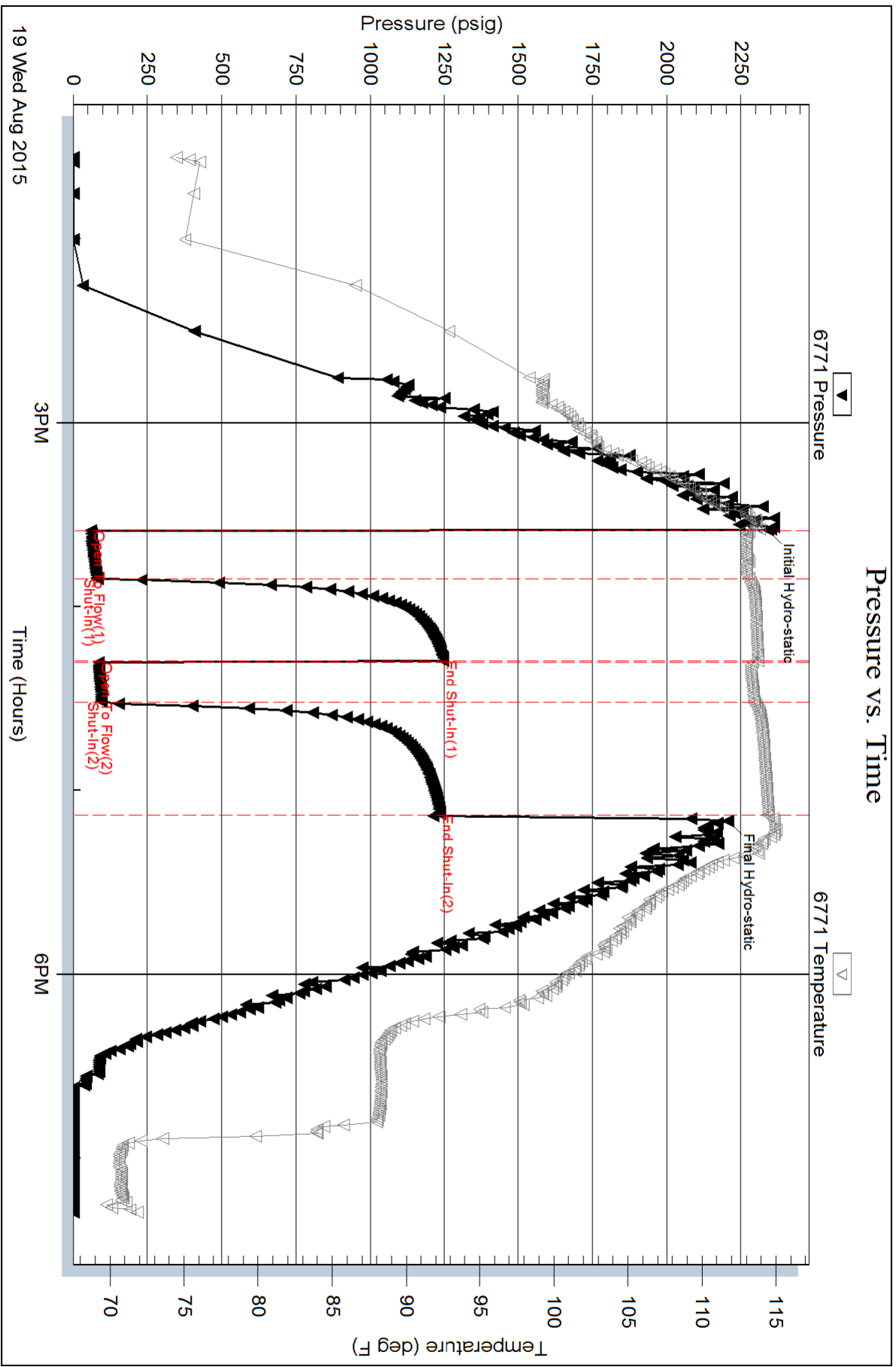
Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud 100% m	0.60

Gas Rates

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

* Recovery from multiple tests

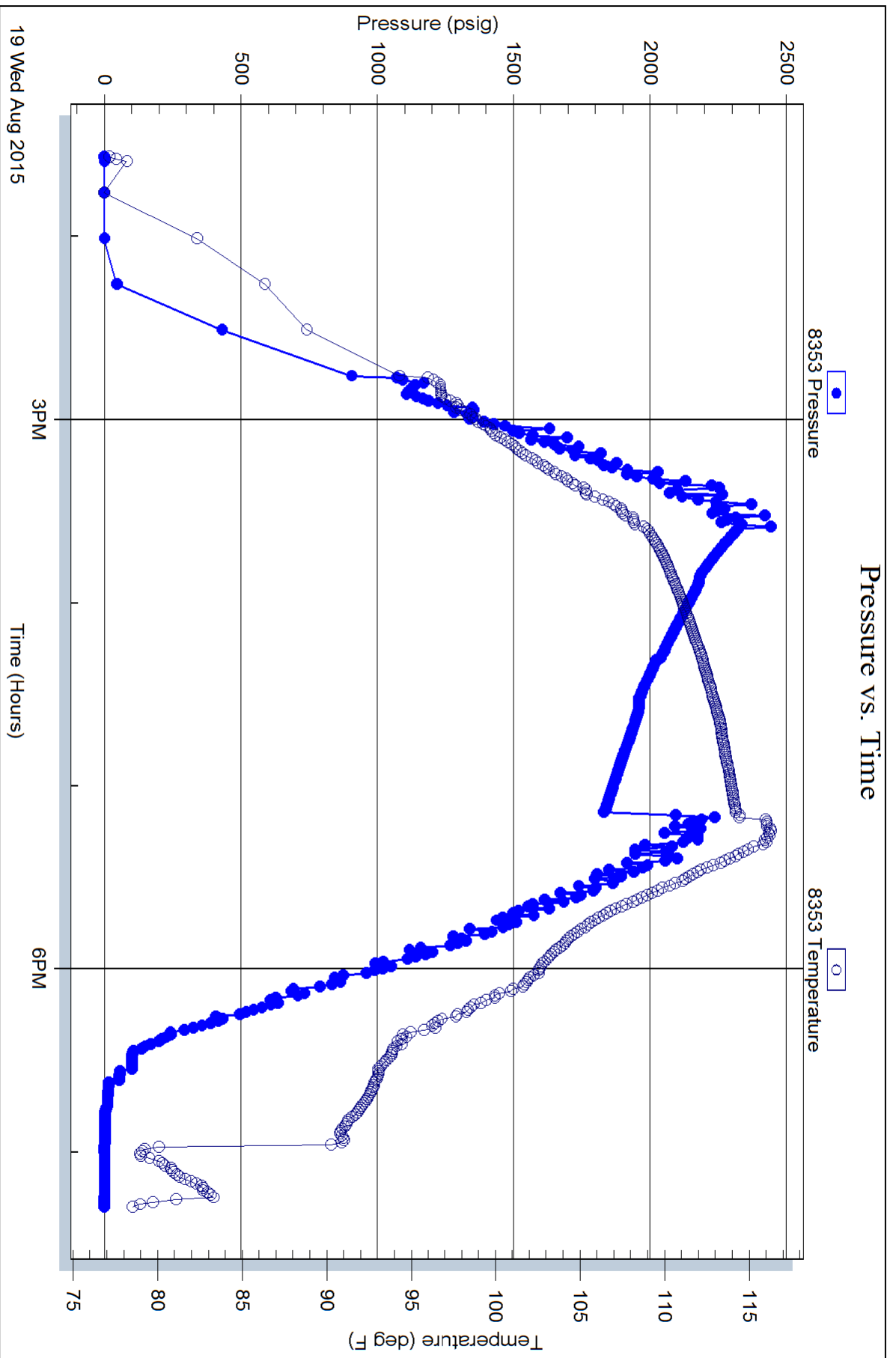


Serial #: 8353

Outside Culbreath Oil & Gas

Baker #1-22

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 45504

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