



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas

3-5S-35W Rawlins KS

3501 S. Yale Ave
Tulsa Ok 74135

Tom/Kelly Dewey #1-3

ATTN: Anthony Luna

Job Ticket: 62774

DST#: 5

Test Start: 2015.08.29 @ 11:10:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:53:30

Time Test Ended: 19:49:49

Test Type: Conventional Straddle (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 4326.00 ft (KB) To 4417.00 ft (KB) (TVD)

Total Depth: 4823.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3150.00 ft (KB)

3145.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 156.61 psig @ 4327.00 ft (KB)

Start Date: 2015.08.29

End Date:

2015.08.29

Start Time: 11:10:01

End Time:

19:49:49

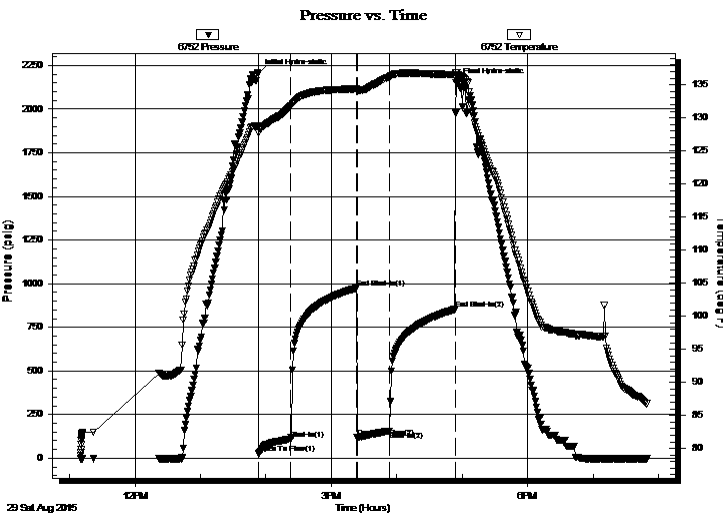
Capacity: 8000.00 psig

Last Calib.: 2015.08.29

Time On Btm: 2015.08.29 @ 13:53:20

Time Off Btm: 2015.08.29 @ 16:54:09

TEST COMMENT: 30 IF - 3/4" blow built to 7"
60 ISI - No return
30 FF - Surface blow started @ 3 mins built to 5"
60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.22	128.76	Initial Hydro-static
1	25.93	127.77	Open To Flow (1)
30	110.32	131.81	Shut-In(1)
90	974.47	134.39	End Shut-In(1)
90	118.52	134.12	Open To Flow (2)
120	156.61	136.22	Shut-In(2)
181	853.79	136.59	End Shut-In(2)
181	2153.01	136.86	Final Hydro-static

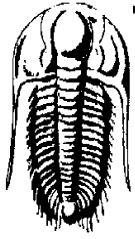
Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW - 15%M - 85%W	0.59
63.00	MCW - 40%M - 60%W	0.88
63.00	OMCW - 5%o - 45%M - 50%W	0.88
63.00	OWCM - 5%o - 30%W - 65%M	0.88
2.00	OIL 100%	0.03

* Recovery from multiple tests

Gas Rates

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



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Job Ticket: 62774

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Tester: Ryan Nichols

Unit No: 78

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Total Depth: 4823.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3150.00 ft (KB)

3145.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8734 Below (Straddle)

Press @ RunDepth: psig @ 4422.00 ft (KB)

Start Date: 2015.08.29

End Date: 2015.08.29

Start Time: 11:10:01

End Time: 19:49:49

Capacity: 8000.00 psig

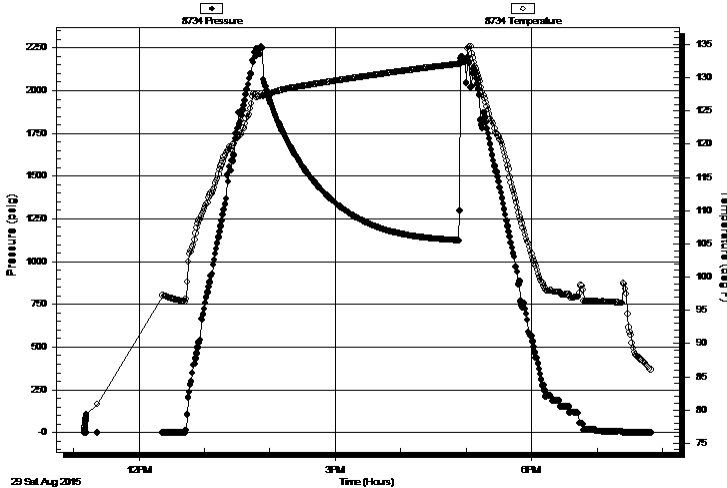
Last Calib.: 2015.08.29

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 3/4" blow built to 7"
60 ISI - No return
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60 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW - 15%M - 85%W	0.59
63.00	MCW - 40%M - 60%W	0.88
63.00	OMCW - 5%o - 45%M - 50%W	0.88
63.00	OWCM - 5%o - 30%W - 65%M	0.88
2.00	OIL 100%	0.03

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

Culbreath Oil & Gas

3-5S-35W Rawlins KS

3501 S. Yale Ave
Tulsa Ok 74135

Tom/Kelly Dewey #1-3

Job Ticket: 62774

DST#: 5

ATTN: Anthony Luna

Test Start: 2015.08.29 @ 11:10:00

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: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MCW - 15%M - 85%W	0.590
63.00	MCW - 40%M - 60%W	0.884
63.00	OMCW - 5%o - 45%M - 50%W	0.884
63.00	OWCM - 5%o - 30%W - 65%M	0.884
2.00	OIL 100%	0.028

Total Length: 311.00 ft Total Volume: 3.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .262 @ 90 DEG F
CHLORIDES = 20,000

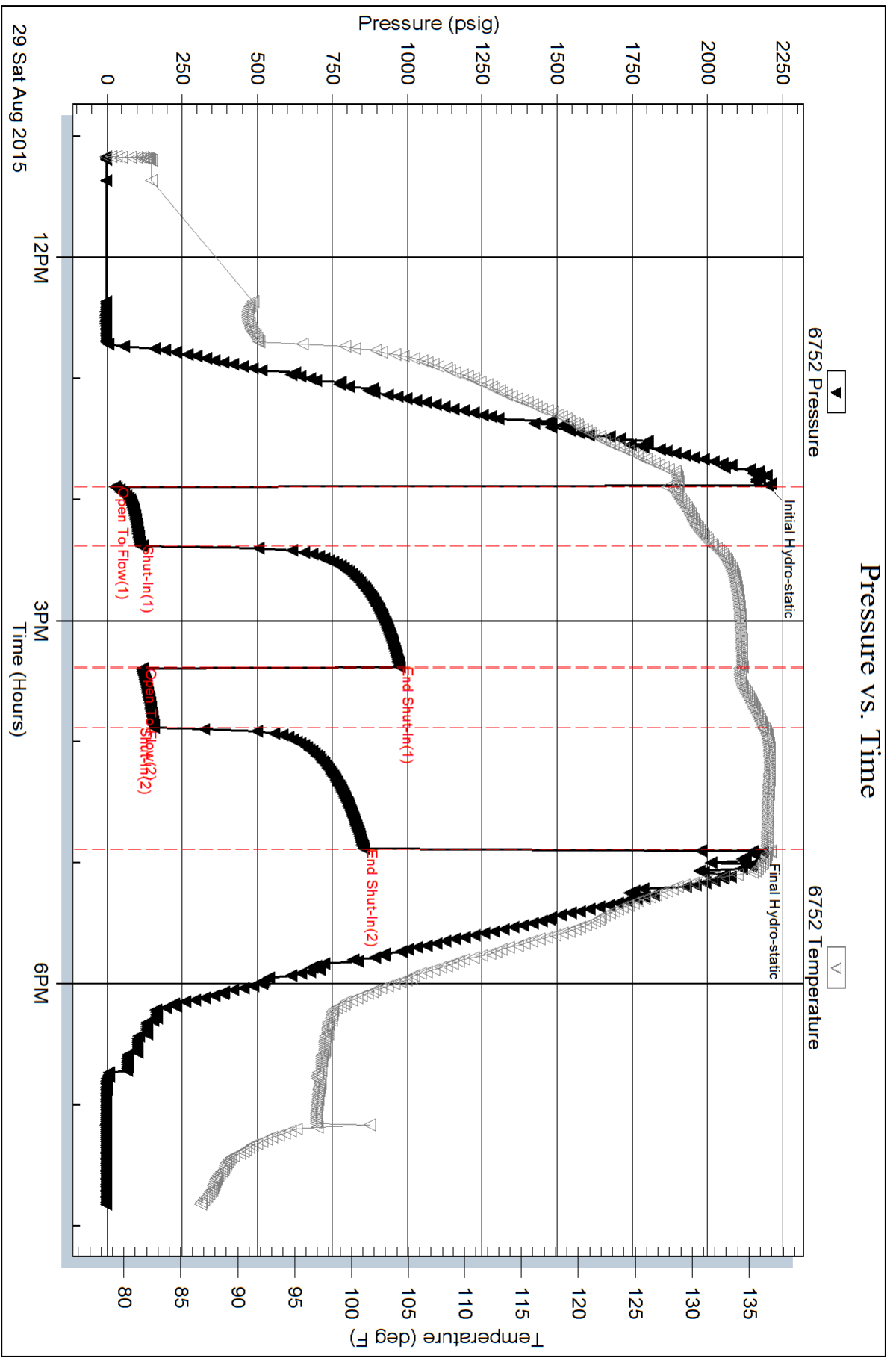
Serial #: 6752

Inside

Culbreath Oil & Gas

Tom/Kelly Dewey #1-3

DST Test Number: 5

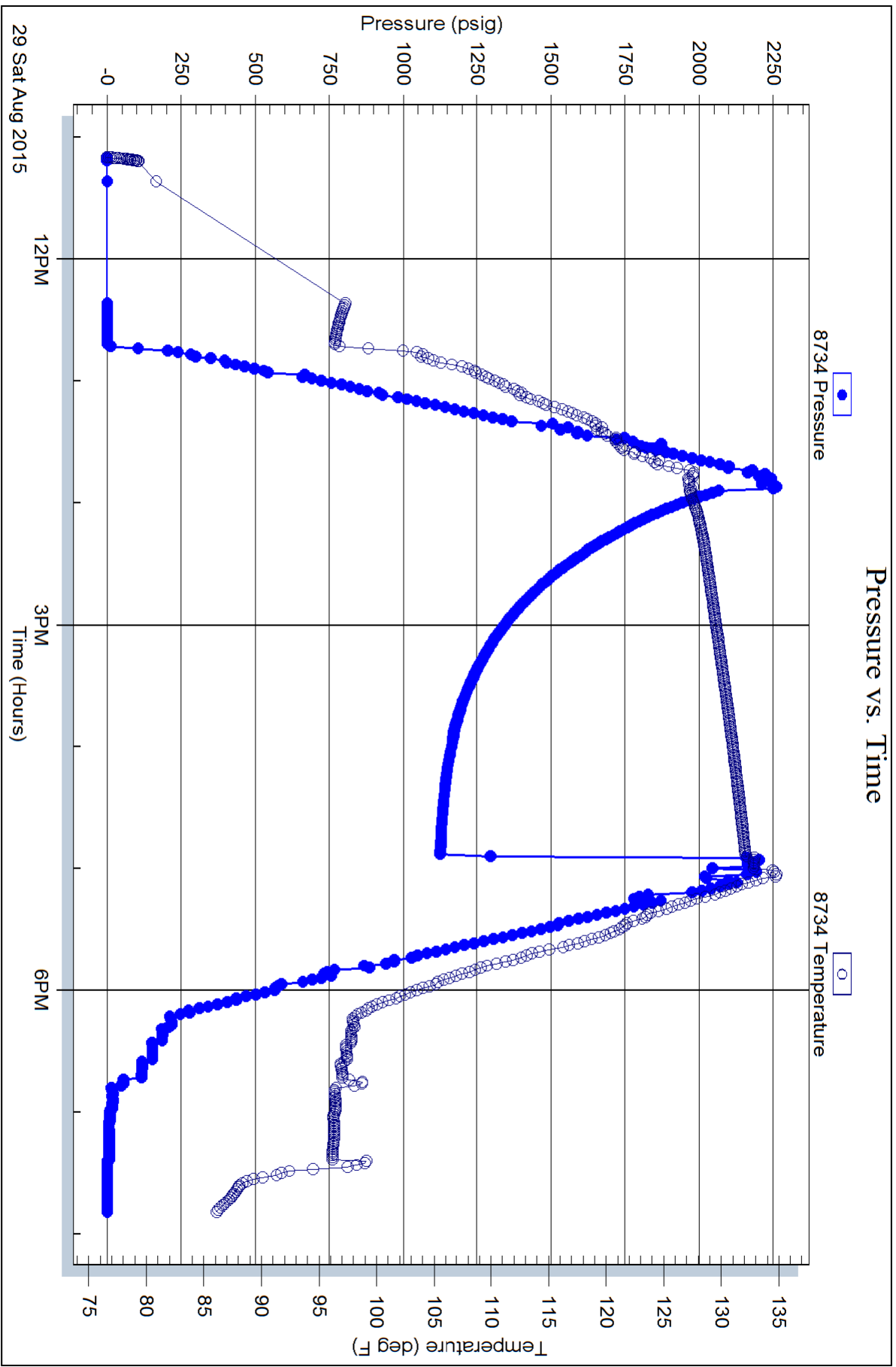


Serial #: 8734

Below (Strathgath Oil & Gas

Tom/Kelly Dewey #1-3

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 62774

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