



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company

21-14-34 Logan, Ks

3501 S Yale Ave.
Tulsa, Ok 74135

KS Baker 2-21

Job Ticket: 65513

DST#: 1

ATTN: Larry Nicholson

Test Start: 2016.09.21 @ 19:49:30

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:00:30

Time Test Ended: 04:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4356.00 ft (KB) To 4394.00 ft (KB) (TVD)

Reference Elevations: 3099.00 ft (KB)

Total Depth: 4394.00 ft (KB) (TVD)

3089.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 57.56 psig @ 4361.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.21

End Date:

2016.09.22

Last Calib.:

2016.09.22

Start Time: 19:49:35

End Time:

04:48:00

Time On Btm:

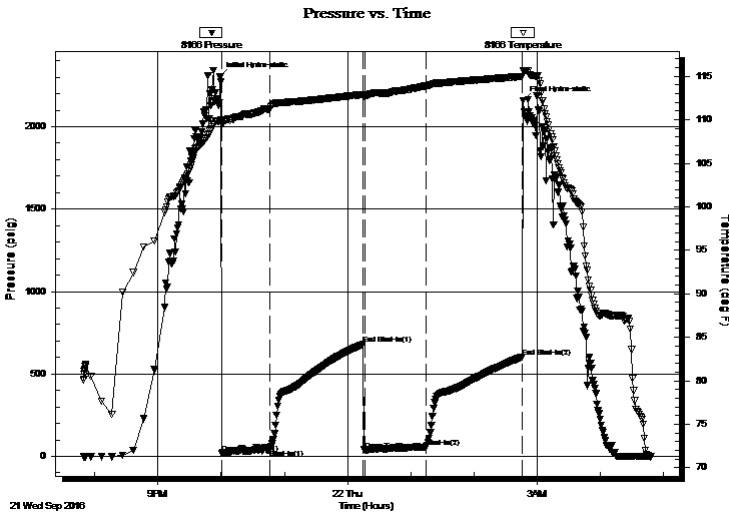
2016.09.21 @ 21:59:00

Time Off Btm:

2016.09.22 @ 02:46:30

TEST COMMENT: IF: 1/4 blow built to 4 in 45 min.
IS: No return.
FF: Surface blow built to 5 in 60 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.46	109.93	Initial Hydro-static
2	20.17	109.48	Open To Flow (1)
47	40.37	111.25	Shut-In(1)
136	680.83	112.91	End Shut-In(1)
137	36.24	112.71	Open To Flow (2)
196	57.56	113.89	Shut-In(2)
287	603.09	114.96	End Shut-In(2)
288	2158.93	115.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	gocm 10%g 10%o 80%m	1.29
10.00	oil 100%o	0.14
0.00	82 GIP	0.00

Gas Rates

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



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Tester: Brandon Turley

Unit No: 79

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Total Depth: 4394.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3099.00 ft (KB)

3089.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4361.00 ft (KB)

Start Date: 2016.09.21

End Date: 2016.09.22

Start Time: 19:49:22

End Time: 04:47:47

Capacity: 8000.00 psig

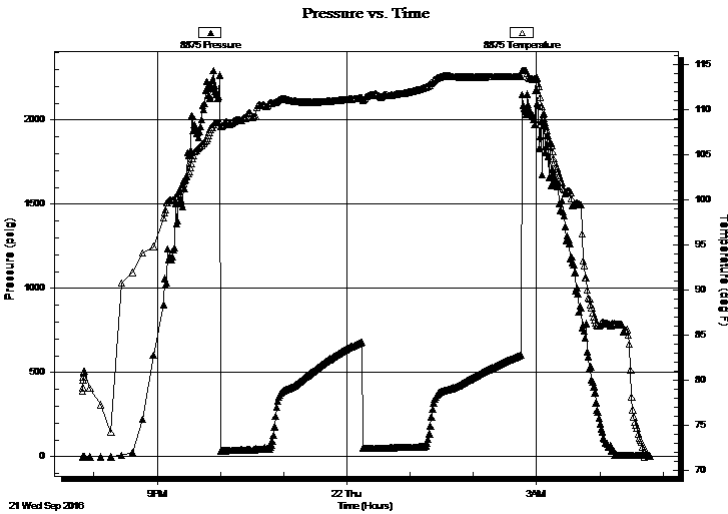
Last Calib.: 2016.09.22

Time On Btm:

Time Off Btm:

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PRESSURE SUMMARY



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

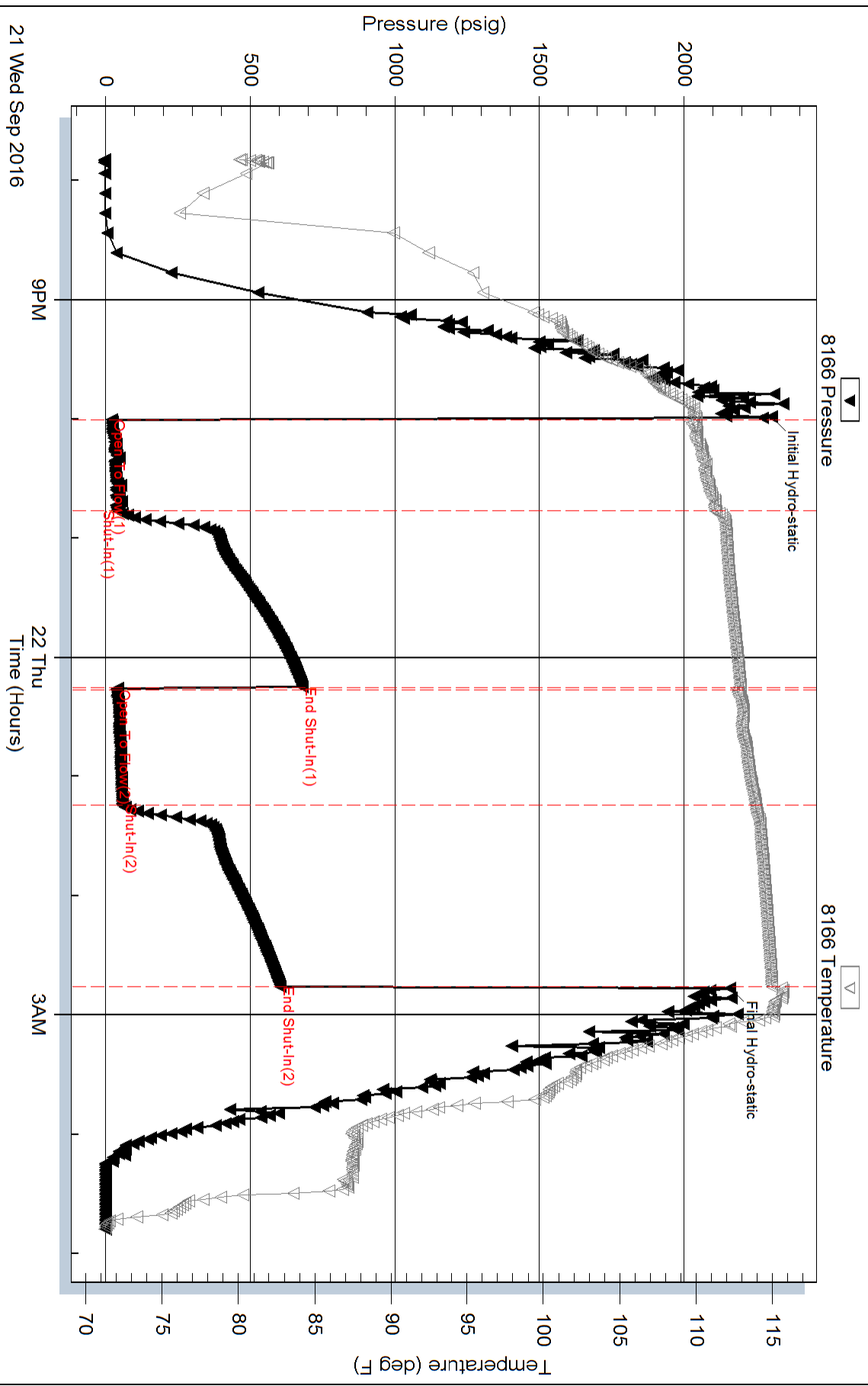
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Length (ft)	Description	Volume (bbl)
92.00	gocm 10%g 10%o 80%m	1.29
10.00	oil 100%o	0.14
0.00	82 GIP	0.00

Gas Rates

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

Pressure vs. Time



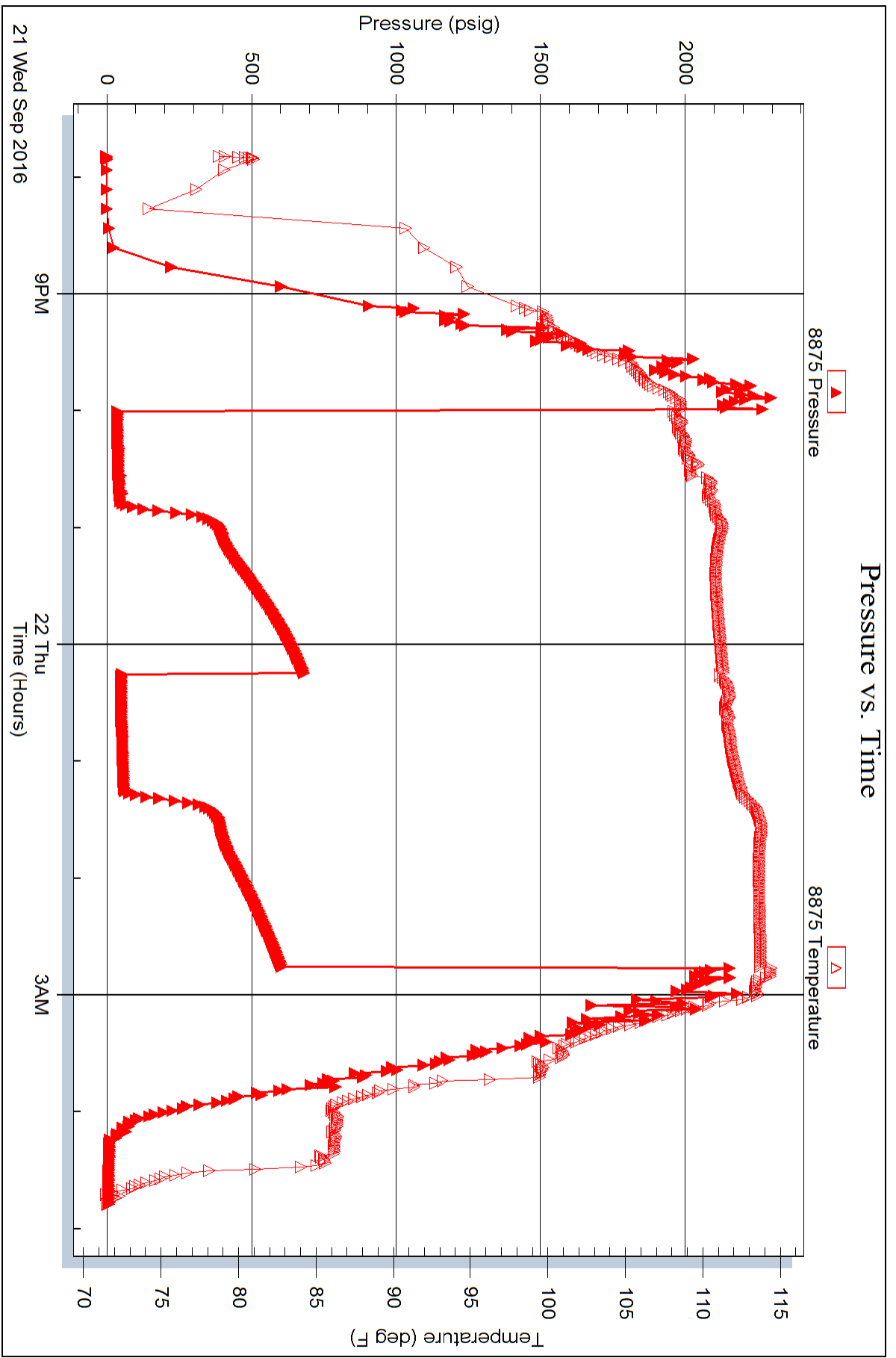
Serial #: 8875

Inside

Culbreath Oil & Gas Company

KS Baker 2-21

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65513

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