



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Culbreath Oil&Gas Oil Co Inc

3-12s-32w Logan

3501 S. Yale Ave
Tulsa Ok 74135--8014

Boyd 3-3

Job Ticket: 64592

DST#: 2

ATTN: Larry Nicholson

Test Start: 2016.07.31 @ 09:02:15

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:04:45

Time Test Ended: 15:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4619.00 ft (KB) To 4660.00 ft (KB) (TVD)

Reference Elevations: 3059.00 ft (KB)

Total Depth: 4660.00 ft (KB) (TVD)

3049.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8737 Outside

Press@RunDepth: 39.29 psig @ 4655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.31

End Date:

2016.07.31

Last Calib.:

2016.07.31

Start Time:

09:02:15

End Time:

15:47:00

Time On Btm:

2016.07.31 @ 11:04:30

Time Off Btm:

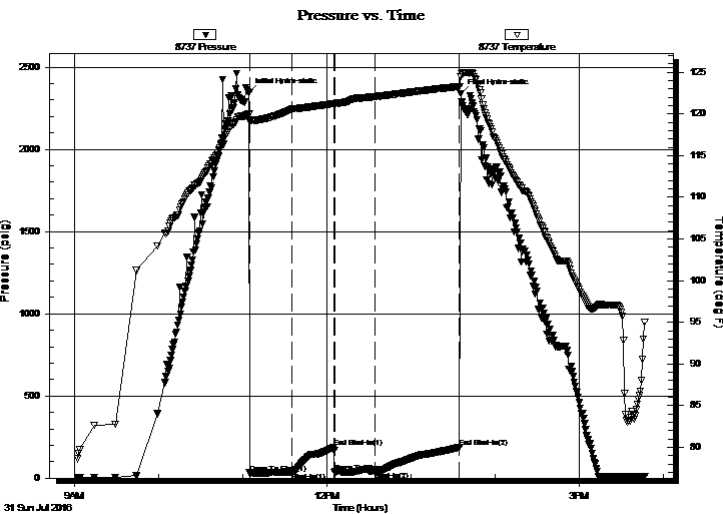
2016.07.31 @ 13:35:15

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2343.64	119.97	Initial Hydro-static
1	31.20	119.12	Open To Flow (1)
31	36.68	120.56	Shut-In(1)
61	188.23	121.24	End Shut-In(1)
61	35.59	121.23	Open To Flow (2)
90	39.29	122.06	Shut-In(2)
150	187.49	123.30	End Shut-In(2)
151	2337.16	124.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud with oil spots	0.14

Gas Rates

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

* Recovery from multiple tests



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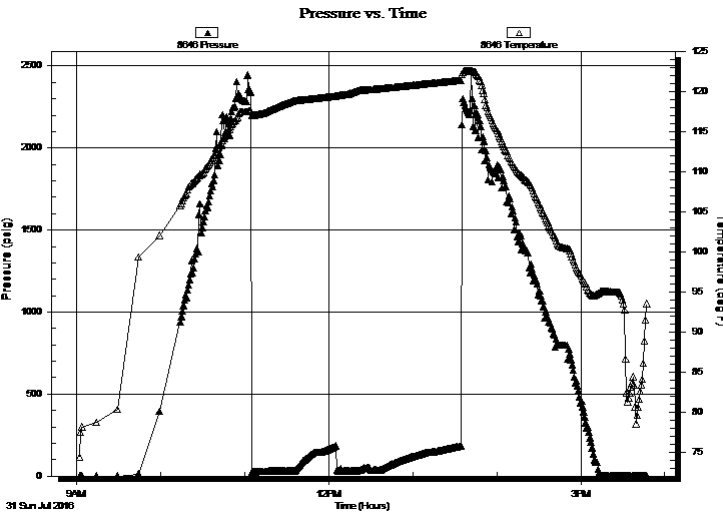
Test Start: 2016.07.31 @ 09:02:15

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 3049.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Poor
 KB to GR/CF: 10.00 ft

Serial #: 8646 Inside
 Press@RunDepth: psig @ 4655.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.07.31 End Date: 2016.07.31 Last Calib.: 2016.07.31
 Start Time: 09:02:15 End Time: 15:47:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to weak surface blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud with oil spots	0.14

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 Oil Co Inc

3-12s-32w Logan

3501 S. Yale Ave
Tulsa Ok 74135--8014

Boyd 3-3

Job Ticket: 64592

DST#: 2

ATTN: Larry Nicholson

Test Start: 2016.07.31 @ 09:02:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud w ith oil spots	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

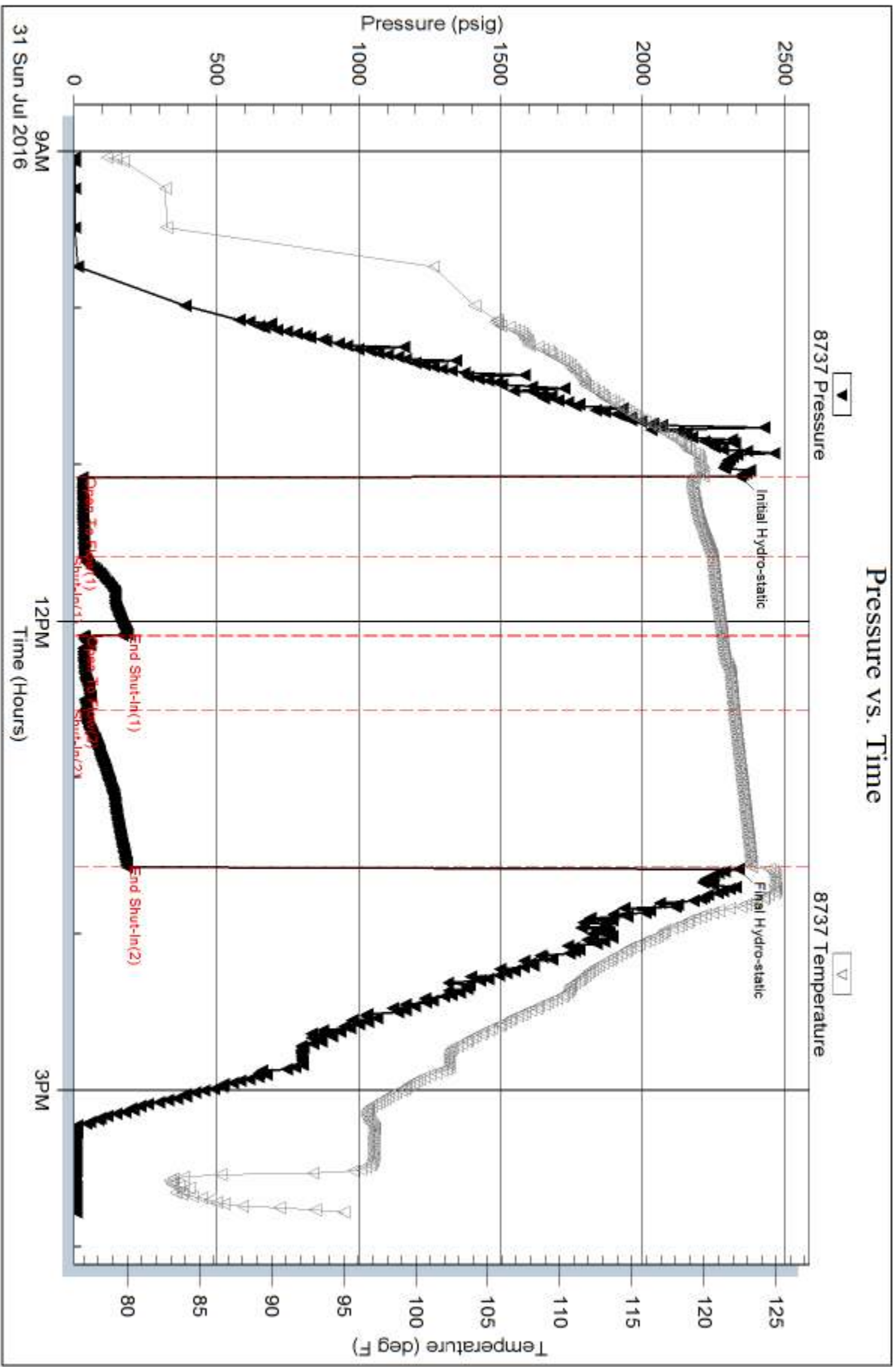
Recovery Comments:

Serial #: 8737

Outside Culbreath Oil&Gas Oil Co Inc

Boyd 3-3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64592

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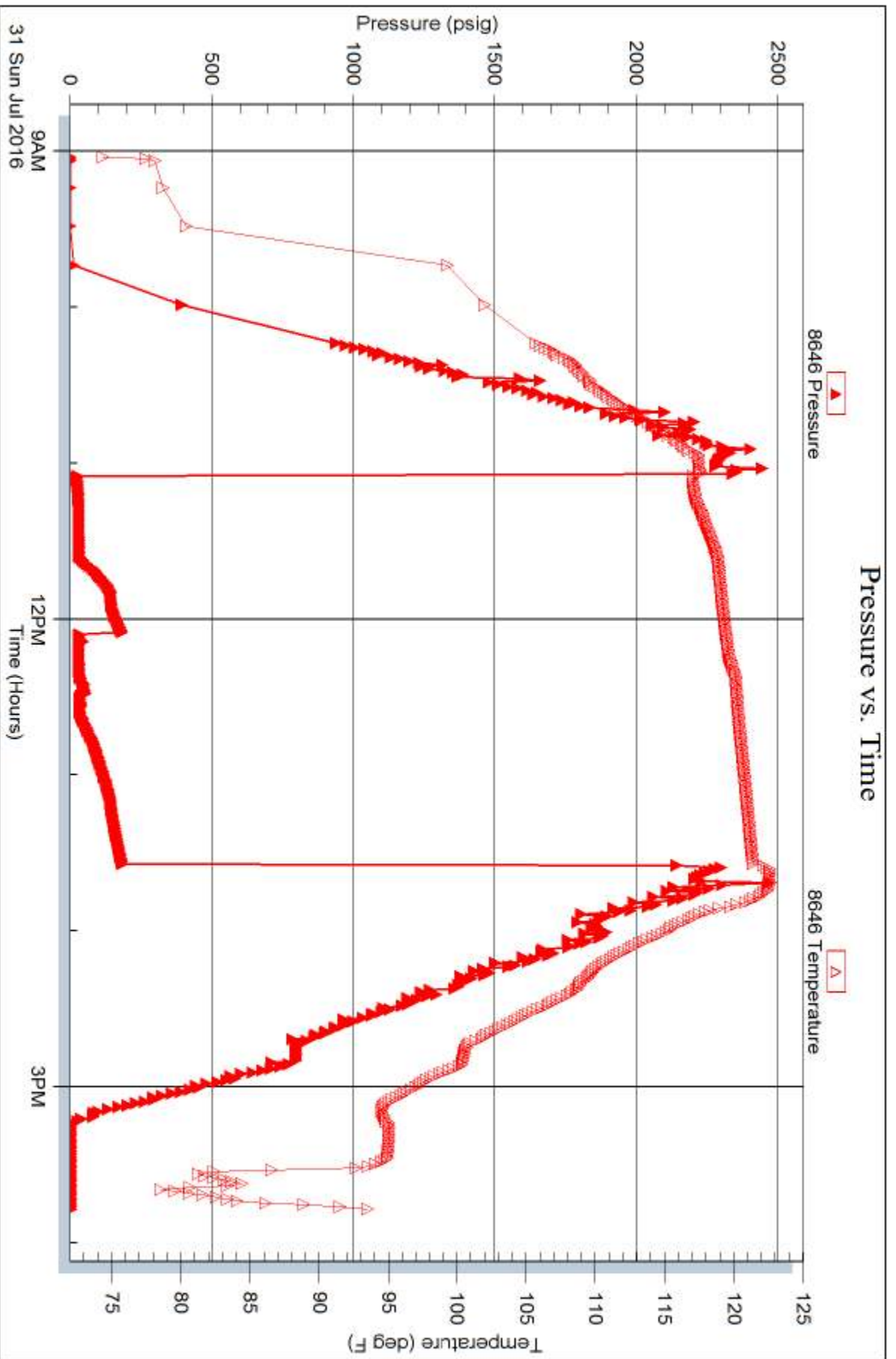
Serial #: 8646

Inside

Culbreath Oil&Gas Oil Co Inc

Boyd 3-3

DST Test Number: 2



Triobite Testing, Inc

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