



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Company LLC

22 - 2S. - 27W Decatur, KS

125 N. Market
Suite 1425
Wichita, KS 67202
ATTN: Roger Martin

Long # 3-22

Job Ticket: 65346

DST#: 2

Test Start: 2019.03.19 @ 12:03:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:35:20

Time Test Ended: 17:57:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 3479.00 ft (KB) To 3518.00 ft (KB) (TVD)

Reference Elevations: 2627.00 ft (KB)

Total Depth: 3518.00 ft (KB) (TVD)

2622.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8959

Inside

Press@RunDepth: 32.68 psig @ 3480.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.19

End Date: 2019.03.19

Last Calib.: 2019.03.19

Start Time: 12:03:01

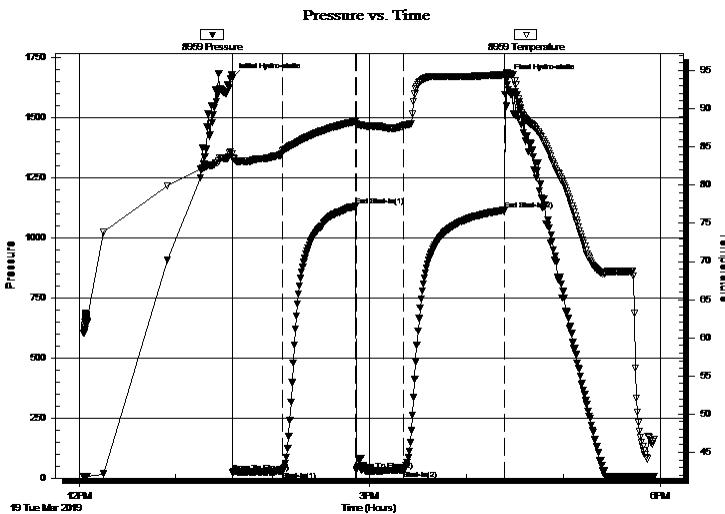
End Time: 17:57:00

Time On Btm: 2019.03.19 @ 13:35:00

Time Off Btm: 2019.03.19 @ 16:25:09

TEST COMMENT: 30-IF-S.blow built to 1 3/4"
45-ISI-S.blow back @ 26 mins built to 1/8"
30-FF-S.blow built to 1 1/4"
60-FSI-S.blow back @ 22 mins, maintained surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1663.65	84.06	Initial Hydro-static
1	25.14	83.59	Open To Flow (1)
31	27.01	84.47	Shut-In(1)
77	1130.53	88.35	End Shut-In(1)
77	31.61	88.08	Open To Flow (2)
106	32.68	87.75	Shut-In(2)
169	1114.07	94.45	End Shut-In(2)
171	1659.64	94.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	SOSWM 1%O, 39%W, 60%M	0.35
0.00	Tool Sample OSWM 3%O, 47%W, 50%M	0.00

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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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:

39000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
25.00	SOSWM 1%O, 39%W, 60%M	0.351
0.00	Tool Sample OSWM 3%O, 47%W, 50%M	0.000

Total Length: 25.00 ft Total Volume: 0.351 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .279 @ 48.2 degs = 39,000 PPM

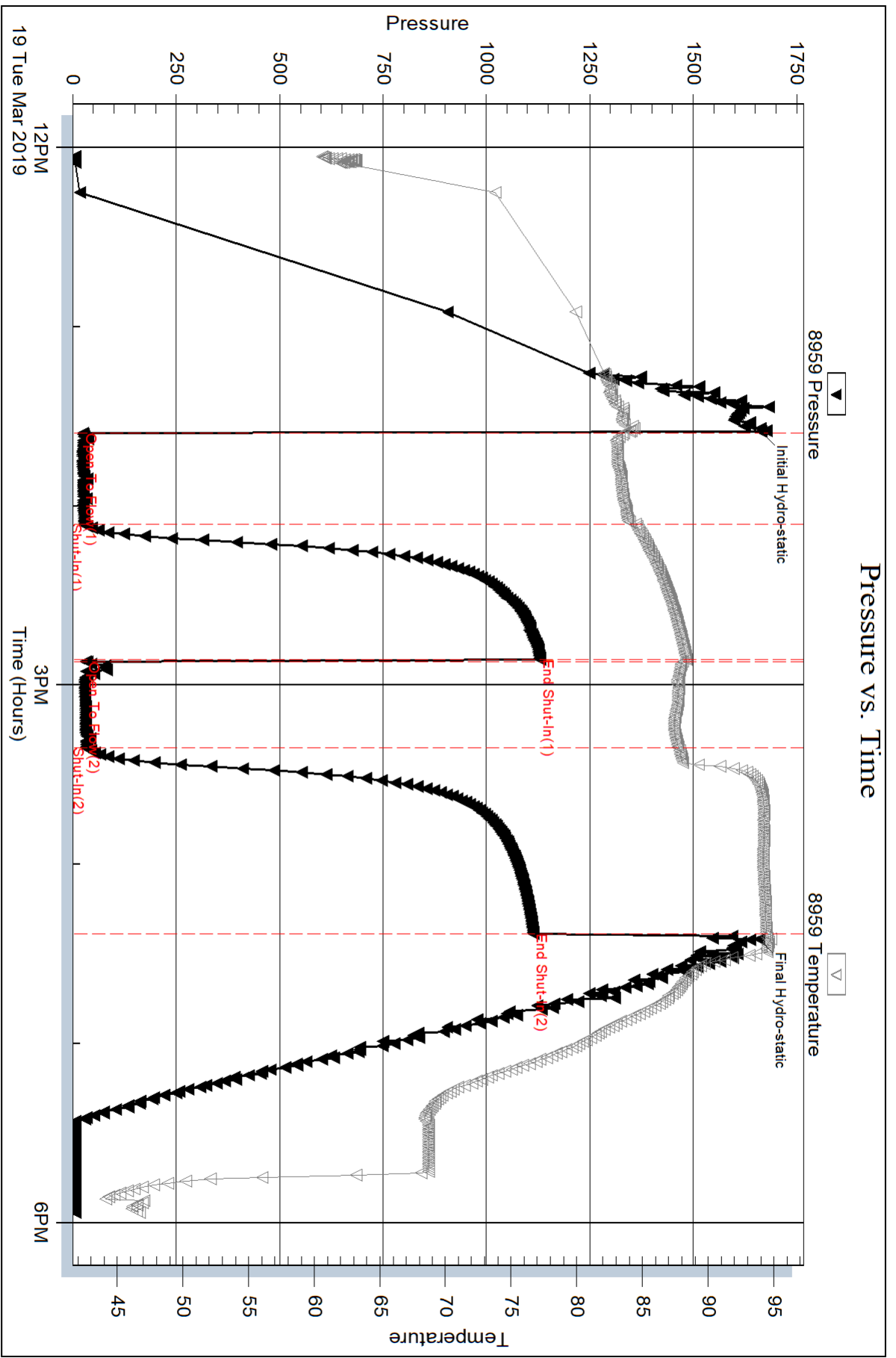
Serial #: 8959

Inside

Darrah Oil Company LLC

Long #3-22

DST Test Number: 2

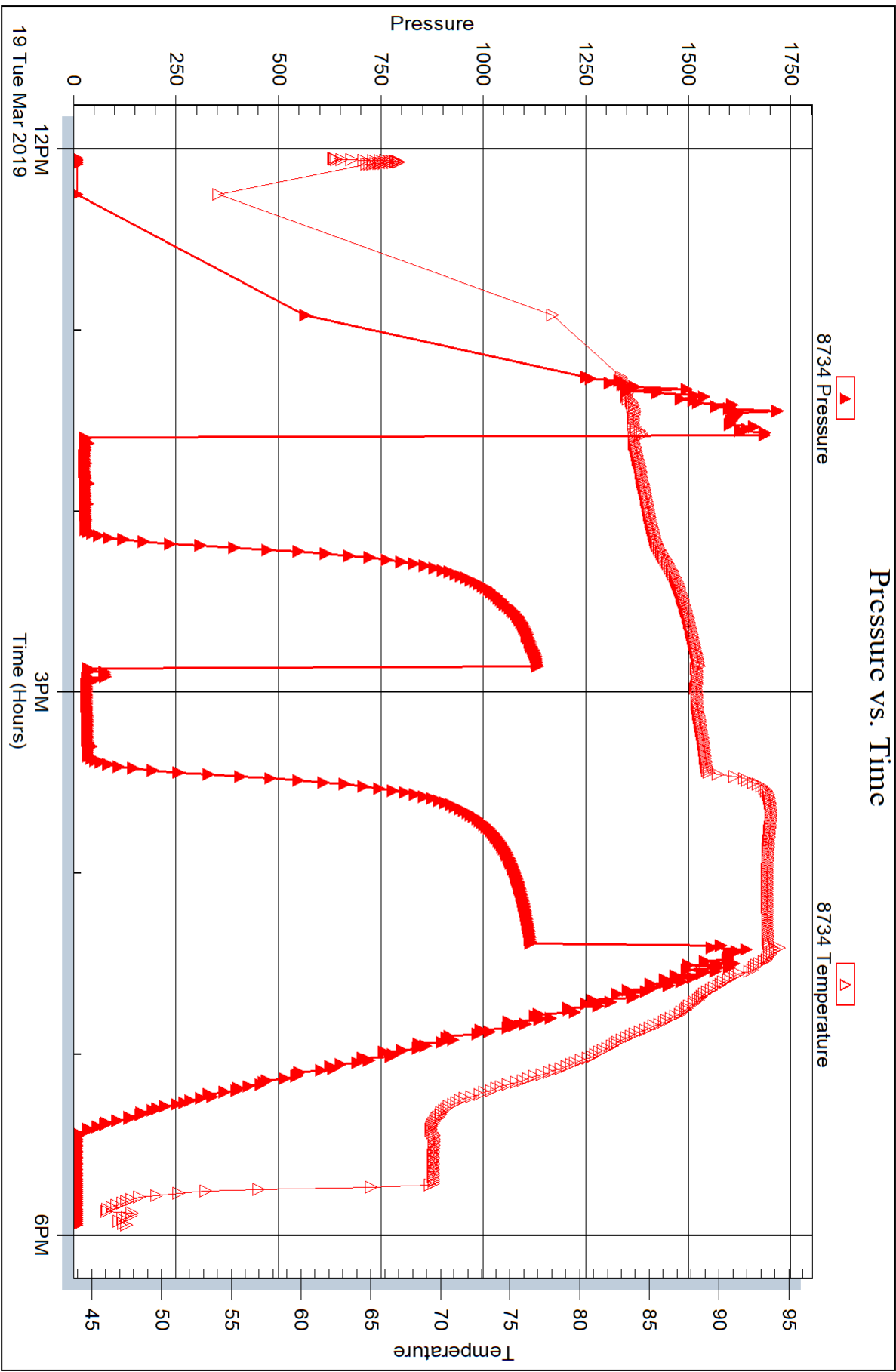


Serial #: 8734

Outside Darrah Oil Company LLC

Long #3-22

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65346

Printed: 2019.03.20 @ 11:04:57