



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Company LLC

125 N Market Suite 1425
Wichita KS 67202+1720

ATTN: Wyatt Urban

14-9s-22w Graham KS

Van Loenen

Job Ticket: 65990

DST#: 1

Test Start: 2019.09.09 @ 17:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:15:02

Time Test Ended: 01:05:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 3866.00 ft (KB) To 3885.00 ft (KB) (TVD)

Reference Elevations: 2035.00 ft (KB)

Total Depth: 3885.00 ft (KB) (TVD)

2030.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8374

Inside

Press@RunDepth: 1044.54 psig @ 3867.00 ft (KB)

Capacity: psig

Start Date: 2019.09.09

End Date:

2019.09.10

Last Calib.:

2019.09.10

Start Time: 17:30:01

End Time:

01:05:02

Time On Btm:

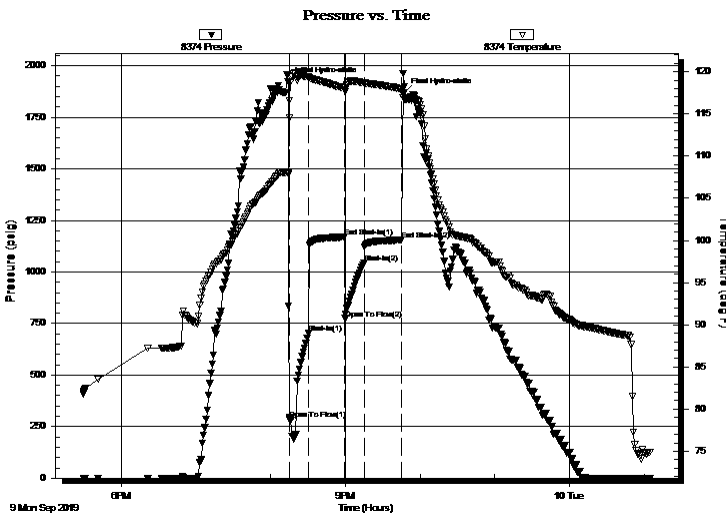
2019.09.09 @ 20:14:02

Time Off Btm:

2019.09.09 @ 21:47:32

TEST COMMENT: 15-IF-BOB 45 secs; Built to 160"
30-ISI-No Return
15-FF-BOB 30 secs; Built to 203"
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1922.35	108.00	Initial Hydro-static
1	285.93	114.52	Open To Flow (1)
17	701.68	119.37	Shut-In(1)
46	1168.75	118.05	End Shut-In(1)
46	773.73	117.89	Open To Flow (2)
61	1044.54	118.69	Shut-In(2)
92	1155.24	117.90	End Shut-In(2)
94	1869.69	116.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1950.00	MCW 10%M 90%W	27.36
450.00	MW scum oil 40%M 60%W	6.38

Gas Rates

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



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FLUID SUMMARY

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Van Loenen

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DST#: 1

ATTN: Wyatt Urban

Test Start: 2019.09.09 @ 17:30:00

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:

22500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1950.00	MCW 10%M 90%W	27.364
450.00	MW scum oil 40%M 60%W	6.379

Total Length: 2400.00 ft Total Volume: 33.743 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2&1/2#LCM

Serial #: 8374

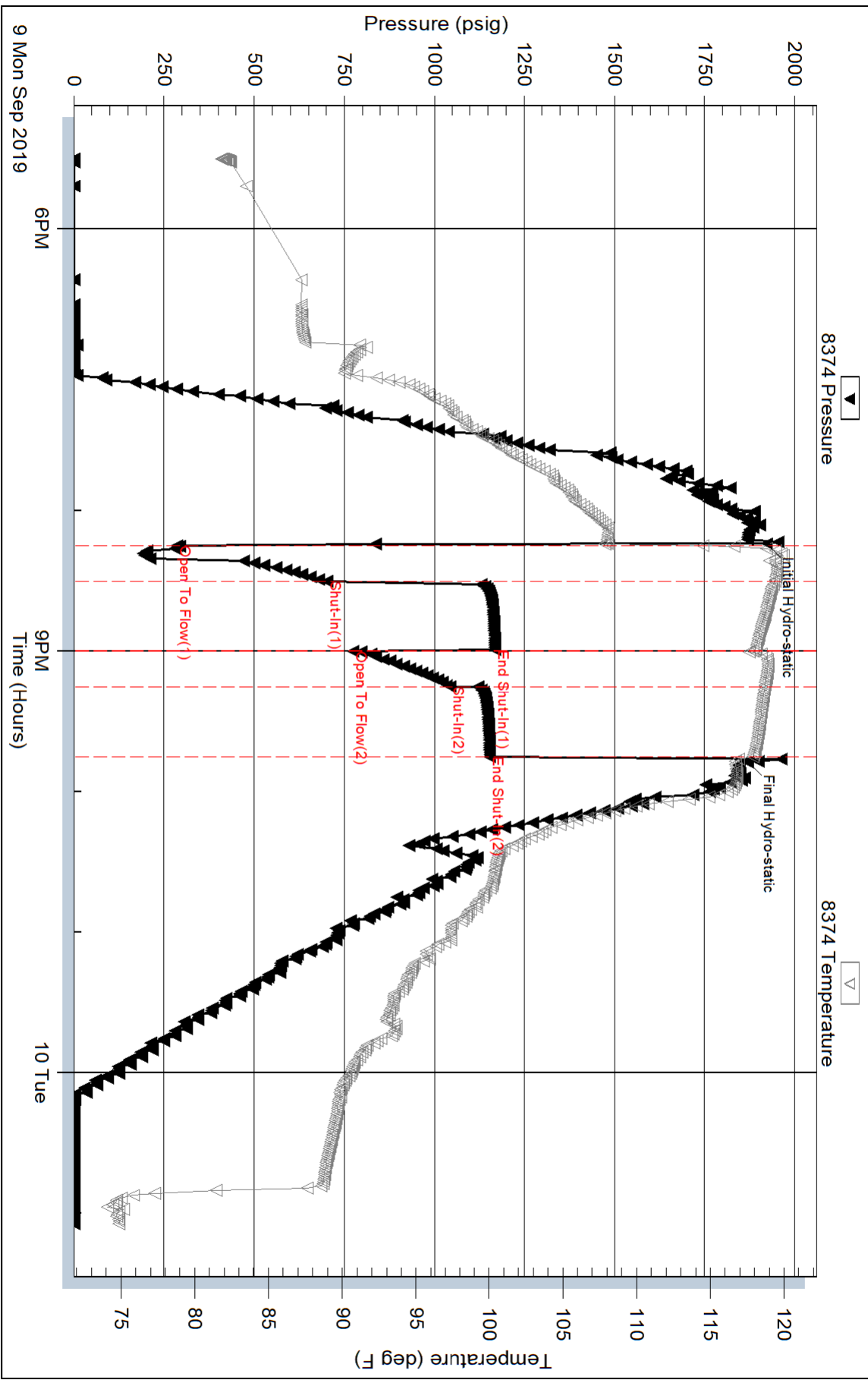
Inside

Darrah Oil Company LLC

Van Loenen

DST Test Number: 1

Pressure vs. Time



Serial #: 8372

Outside Darrah Oil Company LLC

Van Loenen

DST Test Number: 1

