



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Darrah Oil Company

**2-21s-14w**

125 N Market Suite 1425 Wichita KS 67202+1425

**Birback-Keller Unit**

ATTN: Seth Evenson

Job Ticket: 65825

**DST#: 3**

Test Start: 2019.09.24 @ 06:13:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:26:00

Time Test Ended: 13:42:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: **3550.00 ft (KB) To 3640.00 ft (KB) (TVD)**

Reference Elevations: 1924.00 ft (KB)

Total Depth: 3640.00 ft (KB) (TVD)

1919.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6666 Inside**

Press@RunDepth: 710.93 psig @ 3551.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.24

End Date:

2019.09.24

Last Calib.: 2019.09.24

Start Time: 06:13:01

End Time:

13:42:15

Time On Btm: 2019.09.24 @ 08:18:15

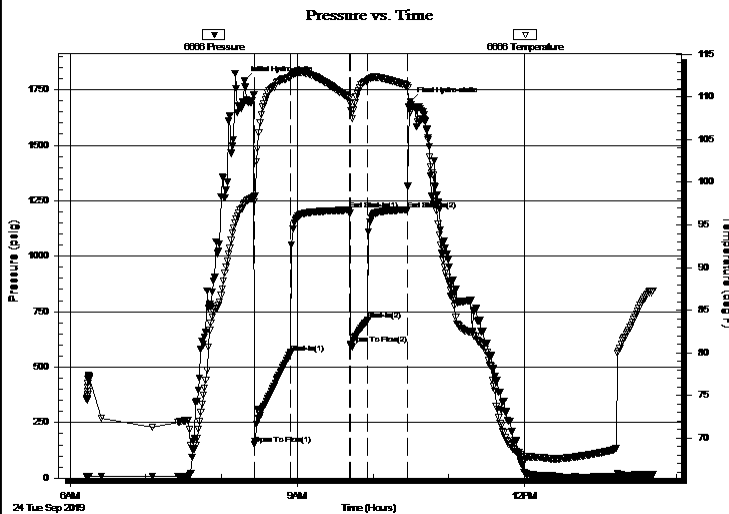
Time Off Btm: 2019.09.24 @ 10:29:45

TEST COMMENT: IF-30- BOB 1min 45secs total build of 172"

ISI-45- 1/4" blow back

FF-15- BOB 2mins total build of 70"

FIS-30- weak surface blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.46	97.49	Initial Hydro-static
8	152.53	97.73	Open To Flow (1)
37	565.56	112.34	Shut-In(1)
83	1208.07	109.88	End Shut-In(1)
84	604.50	109.21	Open To Flow (2)
98	710.93	111.87	Shut-In(2)
129	1207.51	111.32	End Shut-In(2)
132	1696.90	108.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	GMCO 10%G 10%M 80%O	0.93
1472.00	GCO 20%G 80%O	14.64

## Gas Rates

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



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Total Depth: 3640.00 ft (KB) (TVD)

1919.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: psig @ 3551.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.24

End Date:

2019.09.24

Last Calib.:

2019.09.24

Start Time: 06:13:01

End Time:

13:42:21

Time On Btm:

Time Off Btm:

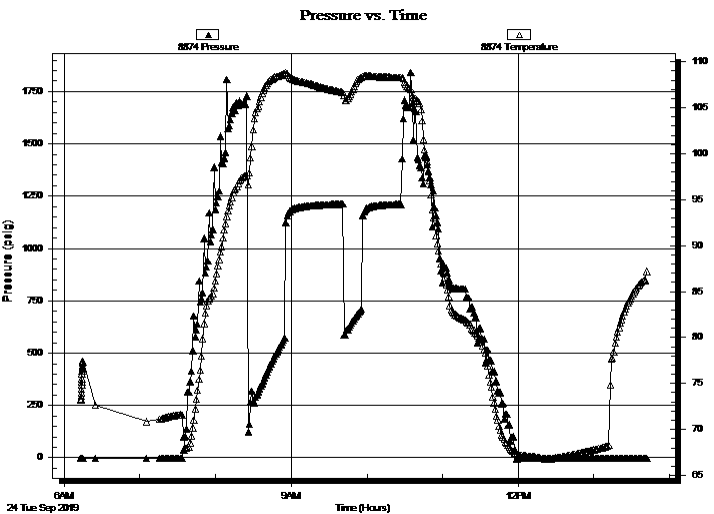
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### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
240.00	GMCO 10%G 10%M 80%O	0.93
1472.00	GCO 20%G 80%O	14.64

### Gas Rates

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



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TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company

**2-21s-14w**

125 N Market Suite 1425 Wichita KS 67202+1425

**Birback-Keller Unit**

Job Ticket: 65825

**DST#: 3**

ATTN: Seth Evenson

Test Start: 2019.09.24 @ 06:13:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	GMCO 10%G 10%M 80%O	0.933
1472.00	GCO 20%G 80%O	14.643

Total Length: 1712.00 ft      Total Volume: 15.576 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6666

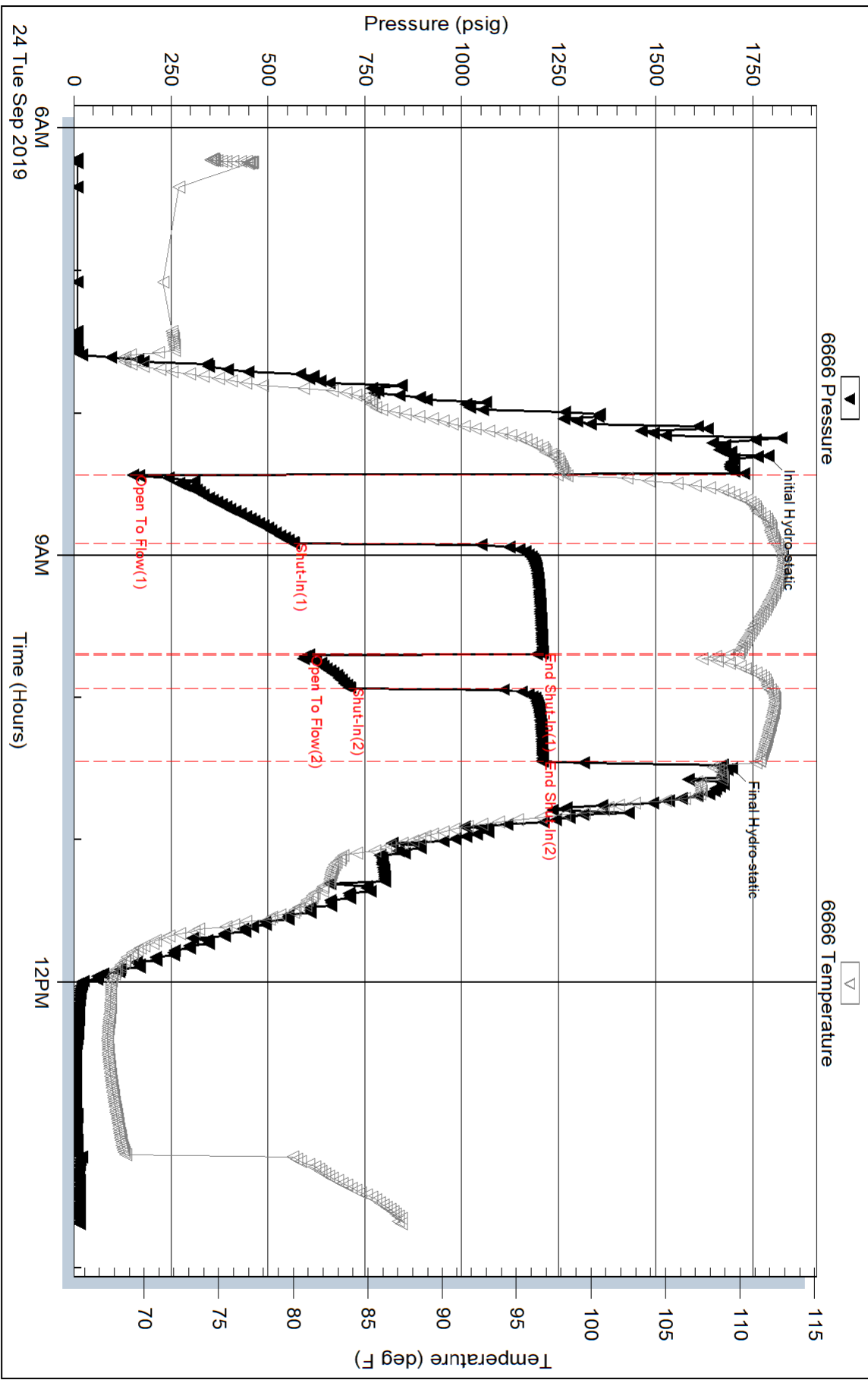
Inside

Darrah Oil Company

Birback-Keller Unit

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 65825

Printed: 2019.09.24 @ 14:20:18

Serial #: 8874

Outside Darrah Oil Company

Birback-Keller Unit

DST Test Number: 3

