



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3- 7S.- 29W. Sheridan,KS**

125 N. Market  
Suite 1425  
Wichita, KS 67202  
ATTN: Seth Evenson

**Porsch Unit #1-3**

Job Ticket: 63291 **DST#: 2**

Test Start: 2019.04.30 @ 07:10:00

## GENERAL INFORMATION:

Formation: **"Deer Creek"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:53:00

Time Test Ended: 13:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: **3668.00 ft (KB) To 3700.00 ft (KB) (TVD)**

Reference Elevations: 2747.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8959**

**Inside**

Press@RunDepth: 173.23 psig @ 3669.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.30

End Date: 2019.04.30

Last Calib.: 2019.04.30

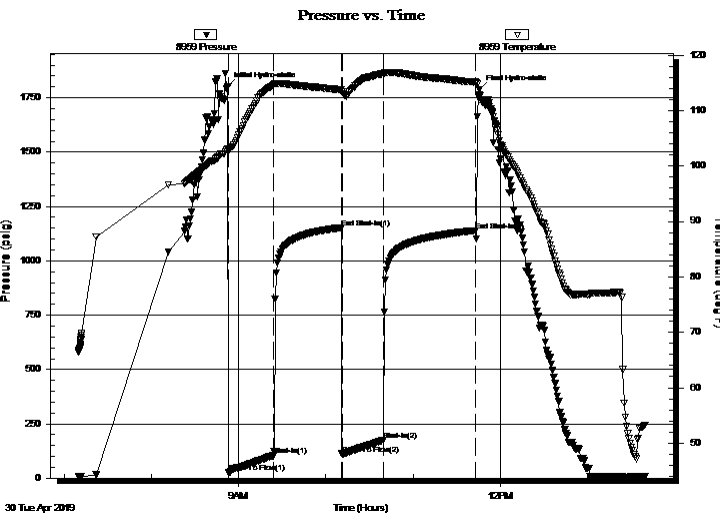
Start Time: 07:10:01

End Time: 13:39:30

Time On Btm: 2019.04.30 @ 08:52:40

Time Off Btm: 2019.04.30 @ 11:45:30

**TEST COMMENT:** 30-IF-S.blow built to B.O.B (11 inches) @ 17 mins (blow increased to 17 3/4")  
45-ISI-Weak surface blow back @ 7 mins dead @ 26 mins  
30-FF-S.blow built to B.O.B (11 inches) @ 23 mins (blow increased to 14 3/4")  
60-FSI-S.blow back @ 26 mins built to 1/4" dead @ 45 mins



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1801.52	103.16	Initial Hydro-static
1	24.71	102.80	Open To Flow (1)
32	103.35	114.59	Shut-In(1)
78	1152.49	113.74	End Shut-In(1)
79	111.33	113.38	Open To Flow (2)
107	173.23	116.63	Shut-In(2)
171	1137.91	115.14	End Shut-In(2)
173	1787.90	112.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	MSW 4%M, 96%W	2.65
146.00	HMCW 38%M, 62%W	2.05

\* Recovery from multiple tests

## Gas Rates

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





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## FLUID SUMMARY

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**Porsch Unit #1-3**

Job Ticket: 63291 **DST#: 2**

Test Start: 2019.04.30 @ 07:10:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 7.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1500.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 70000 ppm

### Recovery Information

Recovery Table

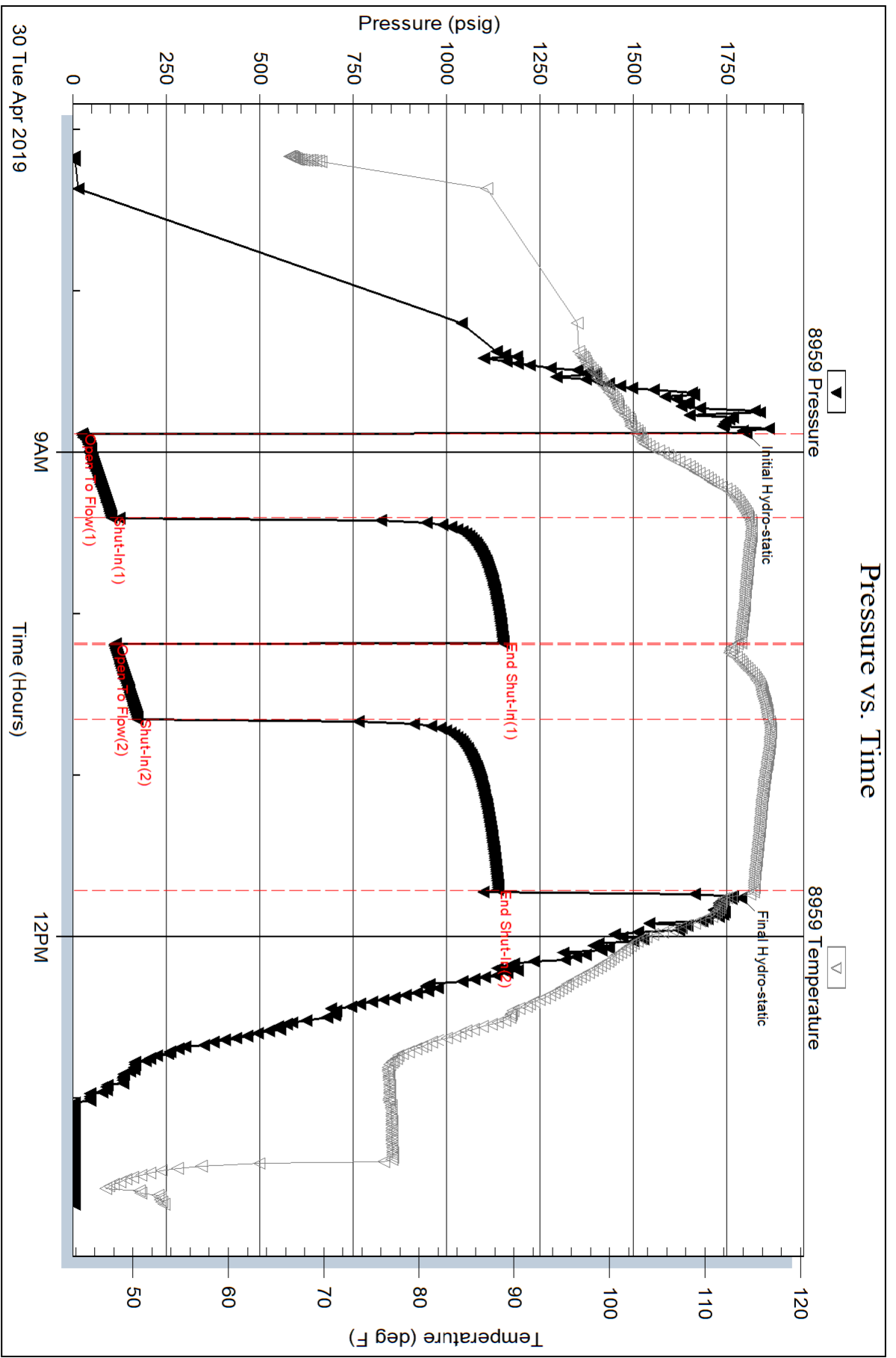
Length ft	Description	Volume bbl
189.00	MSW 4%M, 96%W	2.651
146.00	HMCW 38%M, 62%W	2.048

Total Length: 335.00 ft Total Volume: 4.699 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .174 @ 46.5 degs = 70,000 PPM



Serial #: 8734

Outside Darrah Oil Company LLC

Porsch Unit #1-3

DST Test Number: 2

