



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Habit Petroleum, LLC

**31-14S-18W Ellis, KS**

639 280th Ave.  
PO Box 243  
Hays, KS 67601  
ATTN: Jerry Green

**Ruder #5-31**

Job Ticket: 64487

**DST#: 1**

Test Start: 2019.08.06 @ 04:44:59

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:13:50

Time Test Ended: 13:45:34

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **3560.00 ft (KB) To 3635.00 ft (KB) (TVD)**

Reference Elevations: 2046.00 ft (KB)

Total Depth: 3635.00 ft (KB) (TVD)

2041.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: 266.75 psig @ 3561.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.06 End Date: 2019.08.06

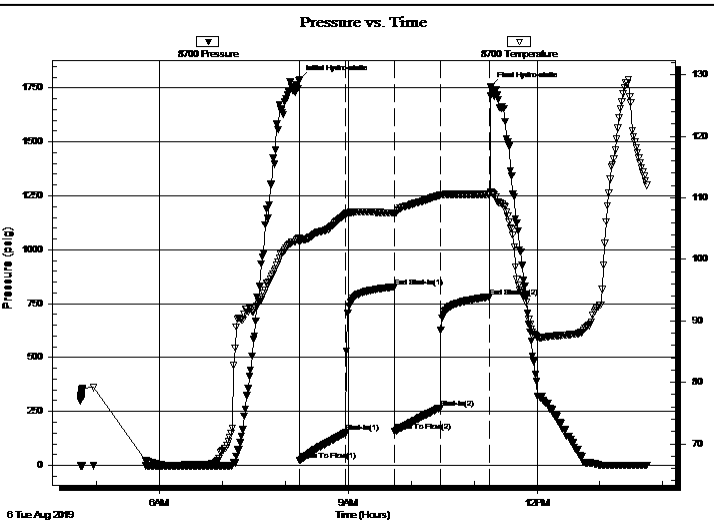
Last Calib.: 2019.08.06

Start Time: 04:45:00 End Time: 13:45:34

Time On Btm: 2019.08.06 @ 08:13:35

Time Off Btm: 2019.08.06 @ 11:16:05

TEST COMMENT: 45- IF- BOB 14mins. Built to 34.99"  
45- IS- Slow ly built to 0.81"  
45- FF- BOB 14mins. Built to 33.63"  
45- FSI- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.28	103.48	Initial Hydro-static
1	22.44	102.86	Open To Flow (1)
45	151.84	107.36	Shut-In(1)
91	828.23	107.55	End Shut-In(1)
91	157.23	107.39	Open To Flow (2)
134	266.75	110.45	Shut-In(2)
182	781.57	110.52	End Shut-In(2)
183	1754.26	110.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	MW, 10%M 90%W	2.69
255.00	OCM, 30%O 70%M	3.61
135.00	CO	1.91
0.00	50' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Habit Petroleum, LLC  
639 280th Ave.  
PO Box 243  
Hays, KS 67601  
ATTN: Jerry Green

**31-14S-18W Ellis, KS**  
**Ruder #5-31**  
Job Ticket: 64487      **DST#: 1**  
Test Start: 2019.08.06 @ 04:44:59

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 21000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.19 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5500.00 ppm		
Filter Cake: inches		

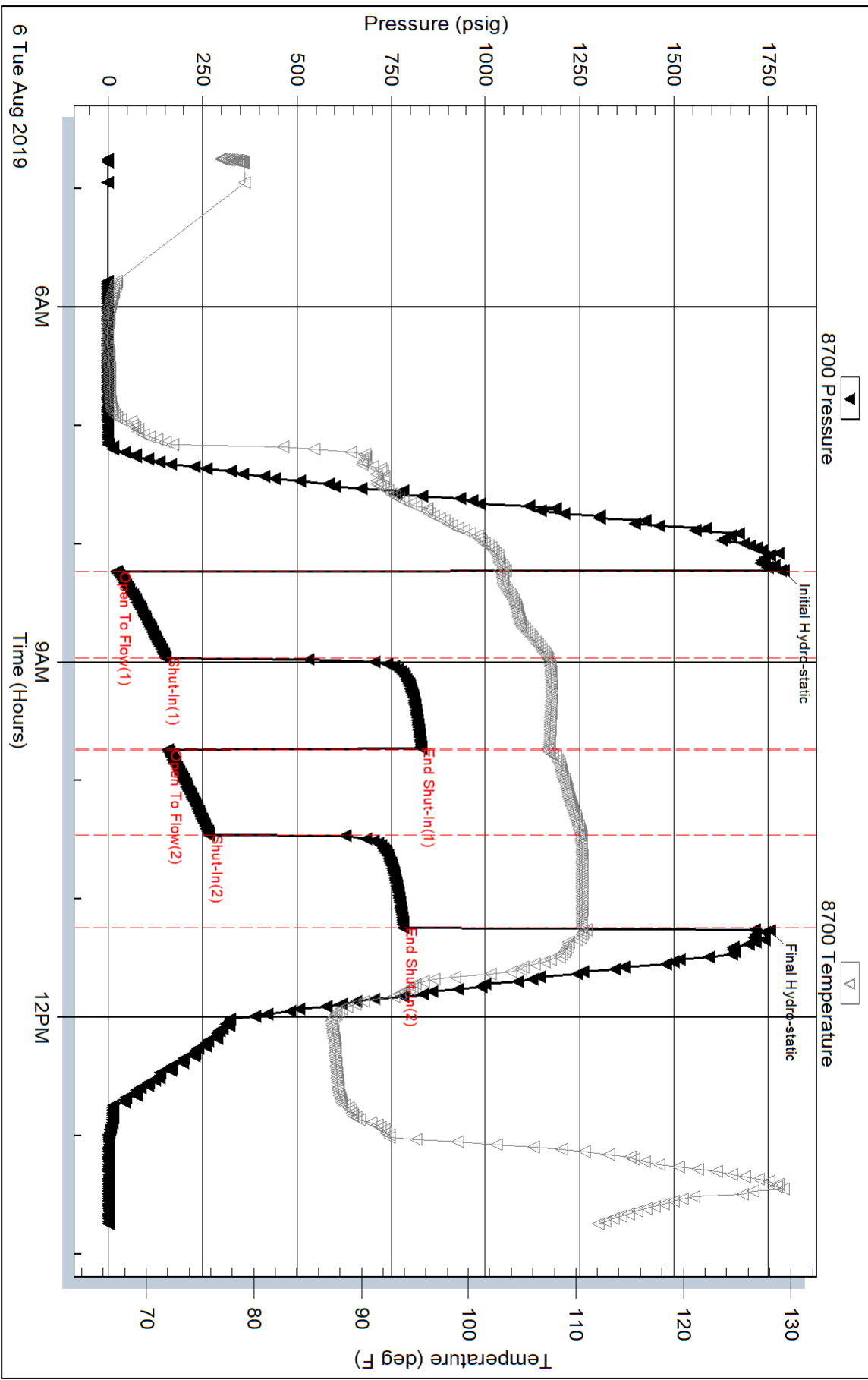
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	MW, 10%M 90%W	2.693
255.00	OCM, 30%O 70%M	3.615
135.00	CO	1.914
0.00	50' GIP	0.000

Total Length: 580.00 ft      Total Volume: 8.222 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW: .25@87deg

### Pressure vs. Time



Serial #: 6771

Inside

Habit Petroleum, LLC

Ruder #5-31

DST Test Number: 1

