



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Culbreath Oil & Gas

**4-12-32 Logan, Ks**

3501 S Yale Ave.  
Tulsa, Ok 74135

**Voth 2-4**

ATTN: Larry Nicholson

Job Ticket: 63799

**DST#: 2**

Test Start: 2017.05.04 @ 05:30:22

## GENERAL INFORMATION:

Formation: **J**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: 07:31:22 Tester: **Brandon Turley**  
 Time Test Ended: 11:28:22 Unit No: **79**

**Interval: 4265.00 ft (KB) To 4305.00 ft (KB) (TVD)** Reference Elevations: **3060.00 ft (KB)**  
 Total Depth: **4305.00 ft (KB) (TVD)** **3050.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **10.00 ft**

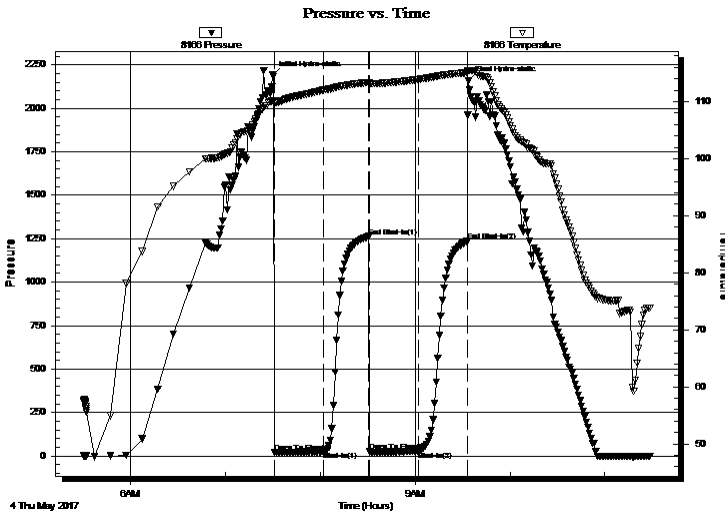
## Serial #: 8166

**Outside**

Press@RunDepth: 26.60 psig @ 4266.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.05.04 End Date: 2017.05.04 Last Calib.: 2017.05.04  
 Start Time: 05:30:27 End Time: 11:28:21 Time On Btm: 2017.05.04 @ 07:29:52  
 Time Off Btm: 2017.05.04 @ 09:33:52

**TEST COMMENT:** IF: Weak surface blow died in 3 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2190.05	110.16	Initial Hydro-static
2	20.79	109.76	Open To Flow (1)
32	26.69	112.02	Shut-In(1)
61	1262.66	113.37	End Shut-In(1)
62	25.31	113.06	Open To Flow (2)
92	26.60	113.90	Shut-In(2)
123	1234.39	115.07	End Shut-In(2)
124	2156.91	115.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	free oil 100%o	0.01
10.00	mud 100%m	0.14

\* Recovery from multiple tests

## Gas Rates

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



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ATTN: Larry Nicholson

Job Ticket: 63799

**DST#: 2**

Test Start: 2017.05.04 @ 05:30:22

## GENERAL INFORMATION:

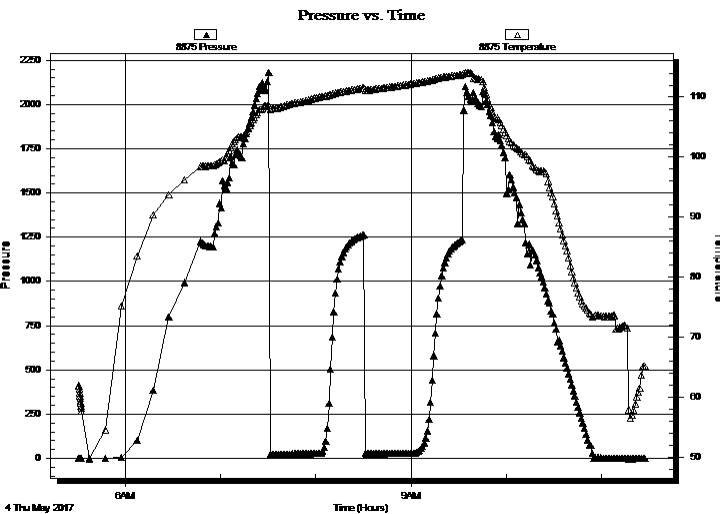
Formation: <b>J</b>			
Deviated: <b>No</b>	Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 07:31:22			Tester: Brandon Turley
Time Test Ended: 11:28:22			Unit No: 79
<b>Interval: 4265.00 ft (KB) To 4305.00 ft (KB) (TVD)</b>			Reference Elevations: 3060.00 ft (KB)
Total Depth: 4305.00 ft (KB) (TVD)			3050.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good		KB to GR/CF: 10.00 ft

## Serial #: 8875

Inside

Press@RunDepth: psig @ 4266.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2017.05.04	End Date: 2017.05.04
Start Time: 05:30:20	End Time: 11:27:44
	Last Calib.: 2017.05.04
	Time On Btm:
	Time Off Btm:

**TEST COMMENT:** IF: Weak surface blow died in 3 min.  
IS: No return.  
FF: No blow.  
FS: No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	free oil 100%o	0.01
10.00	mud 100%m	0.14

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

## FLUID SUMMARY

Culbreath Oil & Gas

**4-12-32 Logan, Ks**

3501 S Yale Ave.  
Tulsa, Ok 74135

**Voth 2-4**

Job Ticket: 63799

**DST#: 2**

ATTN: Larry Nicholson

Test Start: 2017.05.04 @ 05:30:22

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	free oil 100%o	0.014
10.00	mud 100%m	0.140

Total Length: 11.00 ft      Total Volume: 0.154 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

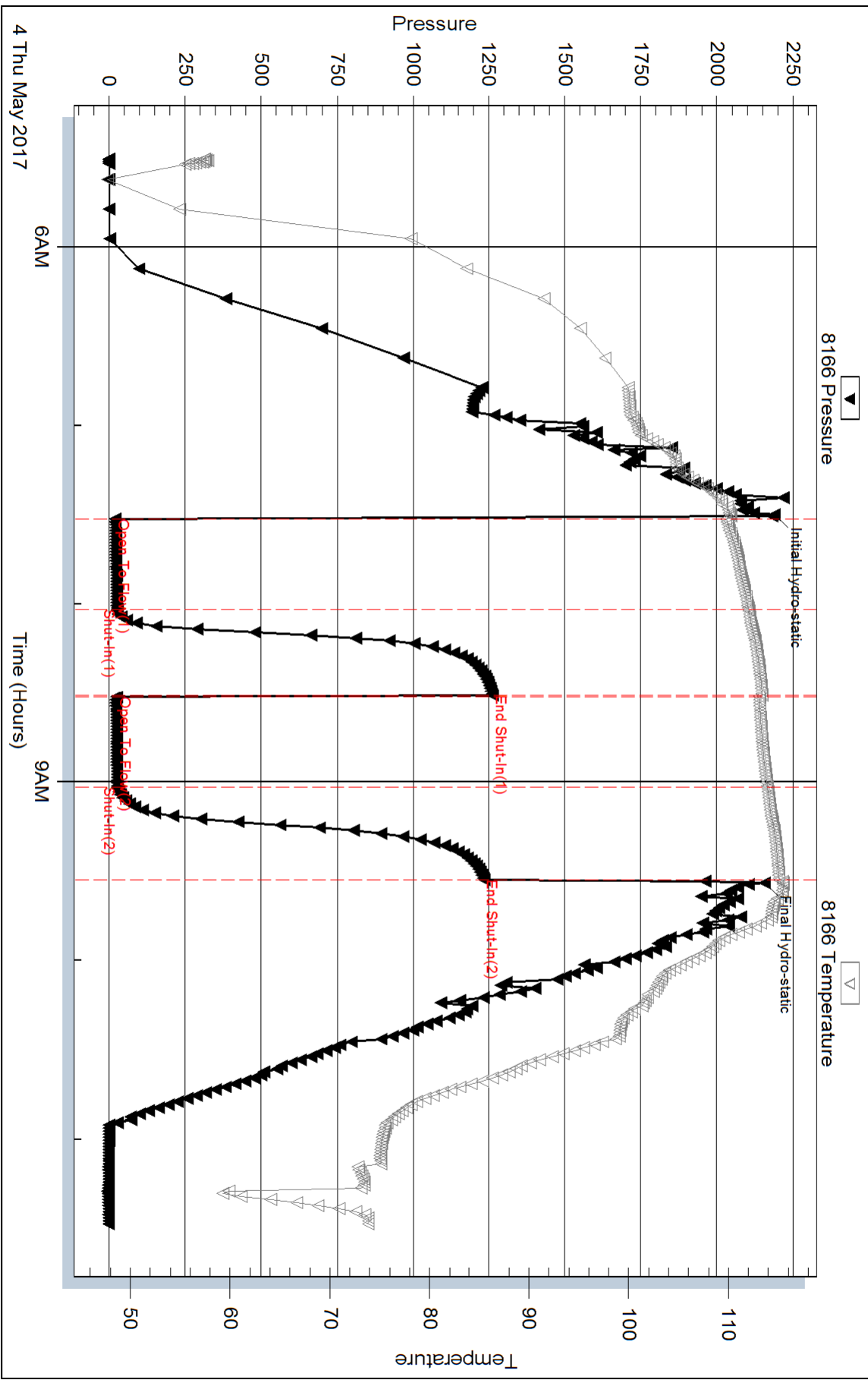
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



Serial #: 8875

Inside

Culbreath Oil & Gas

Voith 2-4

DST Test Number: 2

