



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company

7-9s-25w Graham KS

3501 S. Yale Ave
Tulsa OK 74135

Rohleder #1

ATTN: Larry Nicholson

Job Ticket: 65536

DST#: 1

Test Start: 2019.04.23 @ 05:27:00

GENERAL INFORMATION:

Formation: **LKC "I - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:07:00

Time Test Ended: 12:08:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 71

Interval: 4044.00 ft (KB) To 4085.00 ft (KB) (TVD)

Reference Elevations: 2613.00 ft (KB)

Total Depth: 4085.00 ft (KB) (TVD)

2606.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8366

Outside

Press@RunDepth: 21.17 psig @ 4045.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.23

End Date:

2019.04.23

Last Calib.:

2019.04.23

Start Time: 05:27:01

End Time:

12:08:20

Time On Btm:

2019.04.23 @ 08:06:40

Time Off Btm:

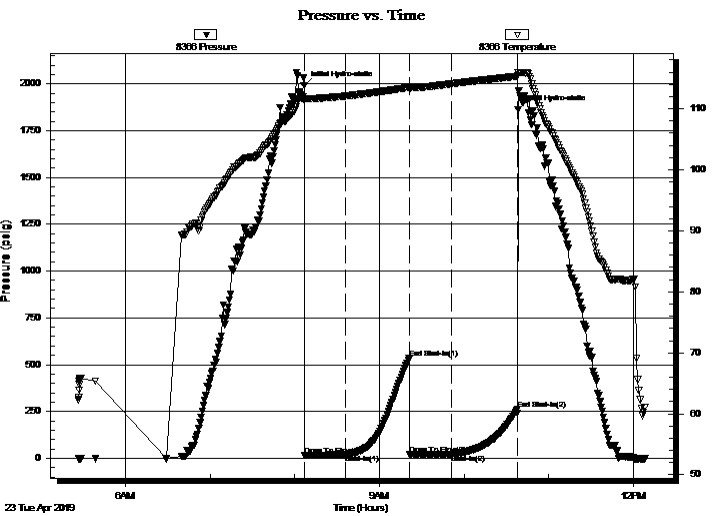
2019.04.23 @ 10:38:20

TEST COMMENT: 30 IF - Weak surface blow died @ 8 mins

45 ISI - No return

30 FF - No blow

45 FSI - No return



PRESSURE SUMMARY

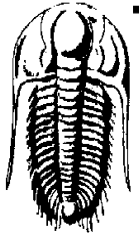
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1989.73	112.00	Initial Hydro-static
1	15.11	111.32	Open To Flow (1)
30	18.10	112.09	Shut-In(1)
75	533.92	113.49	End Shut-In(1)
75	19.61	113.29	Open To Flow (2)
105	21.17	114.11	Shut-In(2)
152	263.45	115.35	End Shut-In(2)
152	1863.59	115.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05

Gas Rates

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



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Unit No: 71

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Reference Elevations: 2613.00 ft (KB)

Total Depth: 4085.00 ft (KB) (TVD)

2606.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8353 Inside

Press@RunDepth: psig @ 4045.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.23

End Date:

2019.04.23

Last Calib.:

2019.04.23

Start Time: 05:27:01

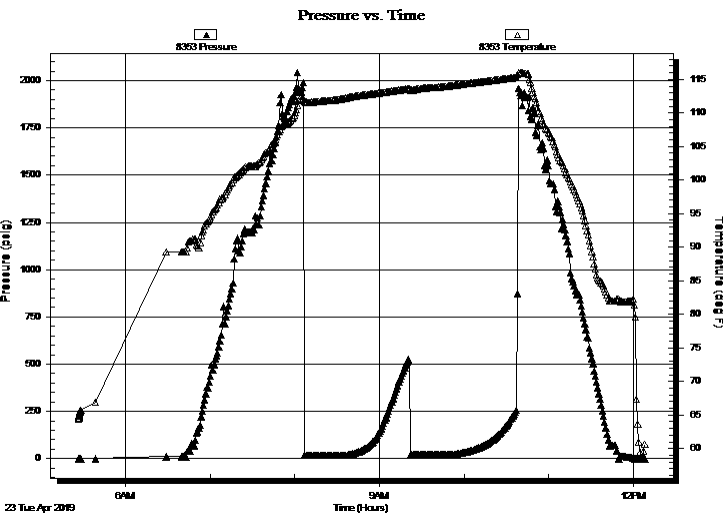
End Time:

12:08:10

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - Weak surface blow died @ 8 mins
45 ISI - No return
30 FF - No blow
45 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Company

7-9s-25w Graham KS

3501 S. Yale Ave
Tulsa OK 74135

Rohleder #1

Job Ticket: 65536

DST#: 1

ATTN: Larry Nicholson

Test Start: 2019.04.23 @ 05:27:00

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:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

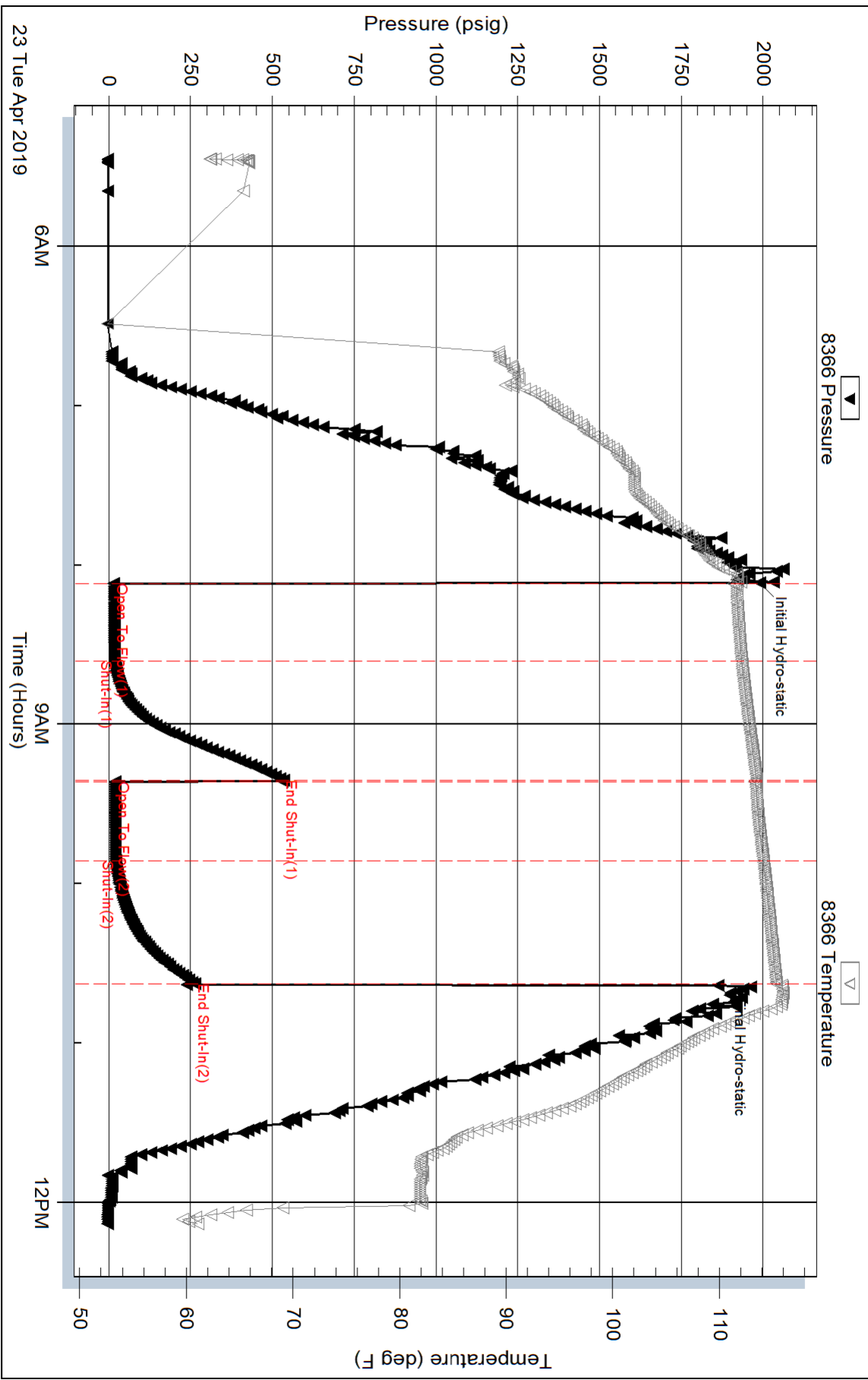
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 8353

Inside

Culbreath Oil & Gas Company

Rohleder #1

DST Test Number: 1

