



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil And Gas Company

18-10s-30w Sheridan Co KS

1532 S Peoria Ave
Tulsa OK
74120
ATTN: Steve Murphy

Bixenman Brothers118

Job Ticket: 58568 **DST#: 3**

Test Start: 2015.01.21 @ 00:19:15

GENERAL INFORMATION:

Formation: **L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:19:30
 Time Test Ended: 07:57:15
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Interval: **4247.00 ft (KB) To 4276.00 ft (KB) (TVD)**
 Reference Elevations: 2948.00 ft (KB)
 Total Depth: 4276.00 ft (KB) (TVD)
 2943.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

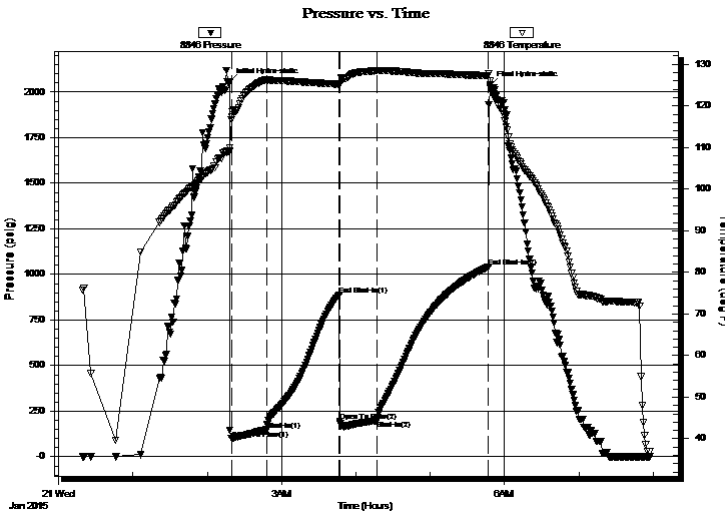
Serial #: 8846

Inside

Press@RunDepth: 197.67 psig @ 4271.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.21 End Date: 2015.01.21 Last Calib.: 2015.01.21
 Start Time: 00:19:15 End Time: 07:57:15 Time On Btm: 2015.01.21 @ 02:17:45
 Time Off Btm: 2015.01.21 @ 05:48:30

TEST COMMENT: IF:BOB in 3 min
 IS:BOB in 25 min.
 FF:BOB in 10 min.
 FS:BOB in 41 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.89	109.13	Initial Hydro-static
2	98.76	117.49	Open To Flow (1)
30	148.21	126.37	Shut-In(1)
89	886.54	125.20	End Shut-In(1)
90	193.64	125.20	Open To Flow (2)
120	197.67	128.48	Shut-In(2)
210	1042.51	127.33	End Shut-In(2)
211	2036.33	125.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	ocmw 1%o 10m 89% w	0.30
61.00	ocgmw 5% o 5%g 20%m 70%w	0.30
62.00	ocgw m 5%o 5%g 40%w w 50%m	0.87
278.00	mcog 30M 34%o 36%g	3.90
0.00	GIP= 526 ft.	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil And Gas Company

18-10s-30w Sheridan Co KS

1532 S Peoria Ave
Tulsa OK
74120

Bixenman Brothers118

Job Ticket: 58568

DST#: 3

ATTN: Steve Murphy

Test Start: 2015.01.21 @ 00:19:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
61.00	ocmw 1%o 10m 89% w	0.300
61.00	ocgmw 5% o 5%g 20%m 70%w	0.300
62.00	ocgw m 5%o 5%g 40%w w 50%m	0.870
278.00	mcog 30M 34%o 36%g	3.900
0.00	GIP= 526 ft.	0.000

Total Length: 462.00 ft Total Volume: 5.370 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API 37 @ 30 corrected to 40 @ 60

RW= .54@ 50.6 = 20,000 ppm

Serial #: 8846

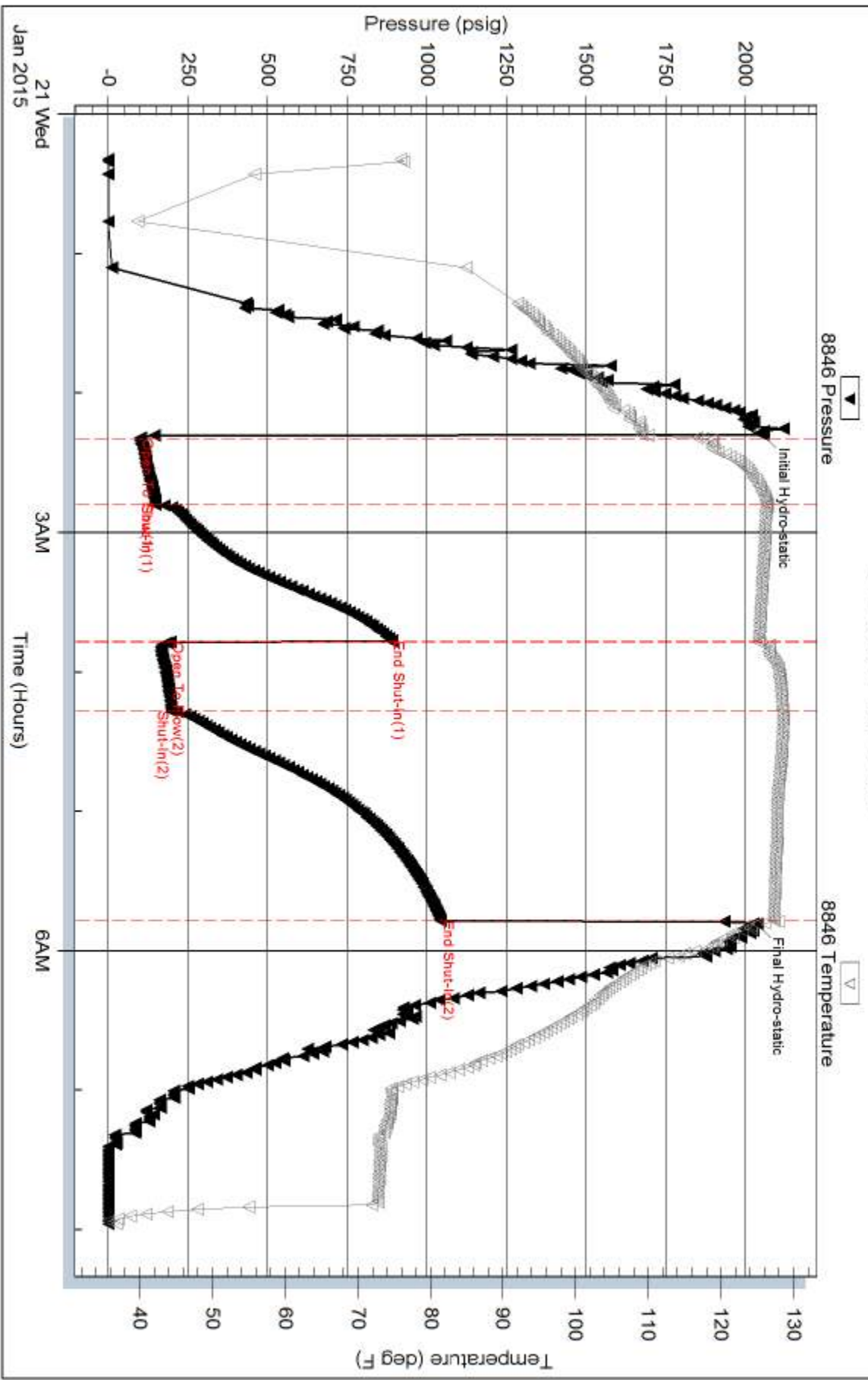
Inside

Culbreath Oil And Gas Company

Bixenman Brothers 118

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 58568

Printed: 2015.01.21 @ 08:33:32