



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-10-21, Graham, KS

370 W Wichita Ave
Russell KS 67665

Miller #15

Job Ticket: 53885

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.05.27 @ 23:07:00

GENERAL INFORMATION:

Formation: **Arb**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:13:00

Time Test Ended: 08:13:00

Test Type: Conventional Straddle (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3826.00 ft (KB) To 3839.00 ft (KB) (TVD)

Reference Elevations: 2249.00 ft (KB)

Total Depth: 3910.00 ft (KB) (TVD)

2244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 1123.76 psig @ 3835.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.27

End Date:

2013.05.28

Last Calib.:

2013.05.28

Start Time: 23:07:05

End Time:

08:13:00

Time On Btm:

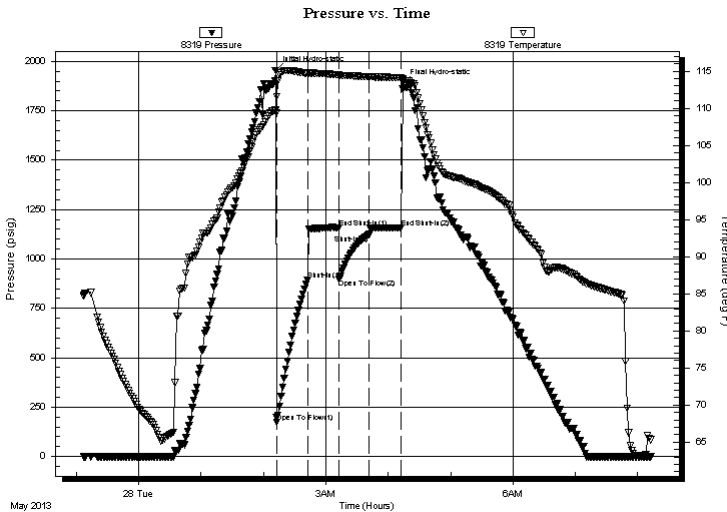
2013.05.28 @ 02:11:30

Time Off Btm:

2013.05.28 @ 04:14:30

TEST COMMENT: IF-BOB in 1min
ISI-No blow
FF-BOB in 1min
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.37	109.76	Initial Hydro-static
2	174.44	111.59	Open To Flow (1)
31	893.11	114.68	Shut-In(1)
61	1157.63	114.49	End Shut-In(1)
62	898.22	114.38	Open To Flow (2)
91	1123.76	114.23	Shut-In(2)
121	1159.02	114.14	End Shut-In(2)
123	1889.52	113.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
370.00	Water	4.10
1180.00	V SOCW 5%O 95%W	16.55
510.00	SOCW 10%O 90%W	7.15
450.00	SOCW 20%O 80%W	6.31
250.00	OCW 30%O 60%W 10%M	3.51

Gas Rates

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



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Test Start: 2013.05.27 @ 23:07:00

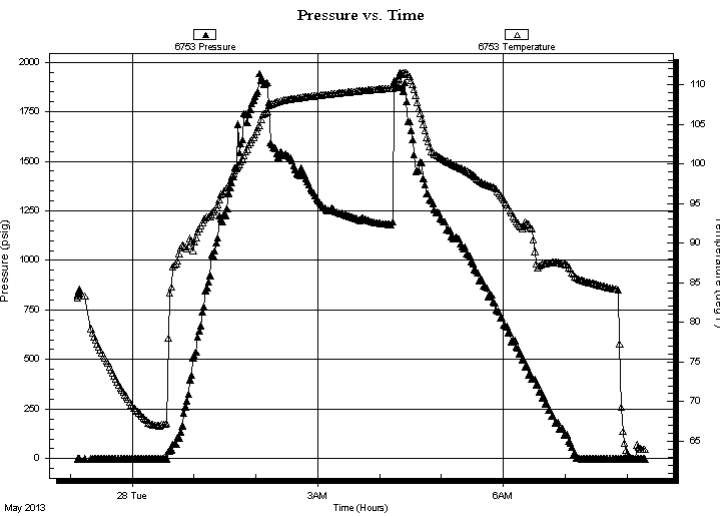
GENERAL INFORMATION:

Formation: **Arb**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:13:00
 Time Test Ended: 08:13:00
 Interval: **3826.00 ft (KB) To 3839.00 ft (KB) (TVD)**
 Total Depth: 3910.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2249.00 ft (KB)
 2244.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6753 Below (Straddle)

Press @ Run Depth: psig @ 3844.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.27 End Date: 2013.05.28 Last Calib.: 2013.05.28
 Start Time: 23:07:05 End Time: 08:17:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-BOB in 1min
 IS- No blow
 FF-BOB in 1min
 FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
370.00	Water	4.10
1180.00	V SOCW 5%O 95%W	16.55
510.00	SOCW 10%O 90%W	7.15
450.00	SOCW 20%O 80%W	6.31
250.00	OCW 30%O 60%W 10%M	3.51

Gas Rates

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



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FLUID SUMMARY

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11-10-21, Graham, KS

370 W Wichita Ave
Russell KS 67665

Miller #15

Job Ticket: 53885

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.05.27 @ 23:07:00

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:

40000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
370.00	Water	4.097
1180.00	VSOCW 5%O 95%W	16.552
510.00	SOCW 10%O 90%W	7.154
450.00	SOCW 20%O 80%W	6.312
250.00	OCW 30%O 60%W 10%M	3.507

Total Length: 2760.00 ft

Total Volume: 37.622 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

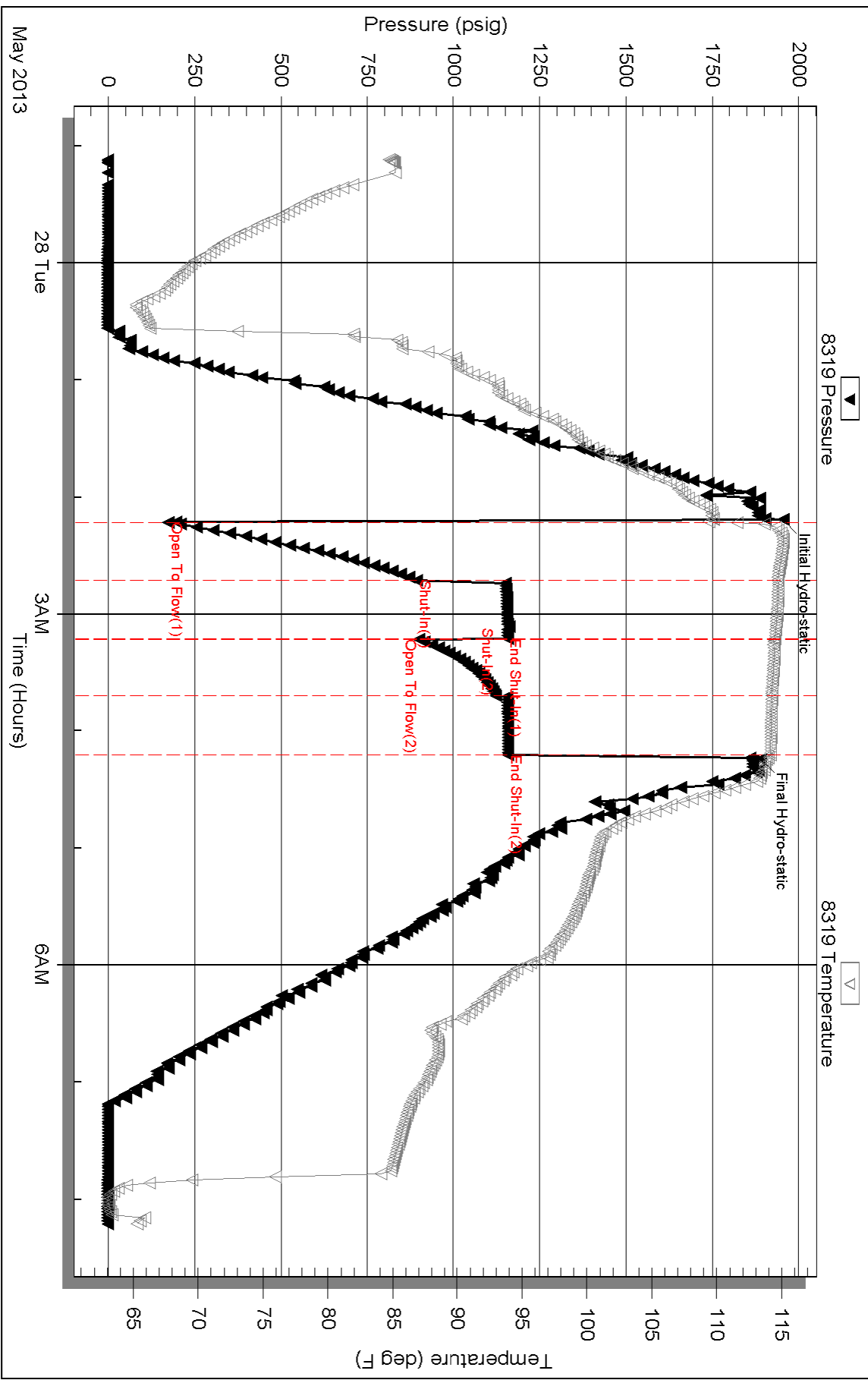
Inside

Farmer, John O, Inc.

Miller #15

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 53885

Printed: 2013.05.28 @ 10:24:32

