



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Miller-Becker Enterprises Inc

100 S Main St  
Russell KS 67665

ATTN: Herb Deines

27 15s 15w Russell

**Wegele #1 A**

Job Ticket: 62380

**DST#: 1**

Test Start: 2015.05.11 @ 06:24:00

## GENERAL INFORMATION:

Formation: **LKC "C"**  
Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:01:15  
Time Test Ended: 11:57:00

Interval: **3165.00 ft (KB) To 3186.00 ft (KB) (TVD)**

Total Depth: 3186.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Reference Elevations: 1928.00 ft (KB)

1922.00 ft (CF)

KB to GR/CF: 6.00 ft

**Serial #: 8289**

Outside

Press@RunDepth: 58.34 psig @ 3168.00 ft (KB)

Start Date: 2015.05.11

End Date:

2015.05.11

Capacity: 8000.00 psig

Start Time: 06:24:02

End Time:

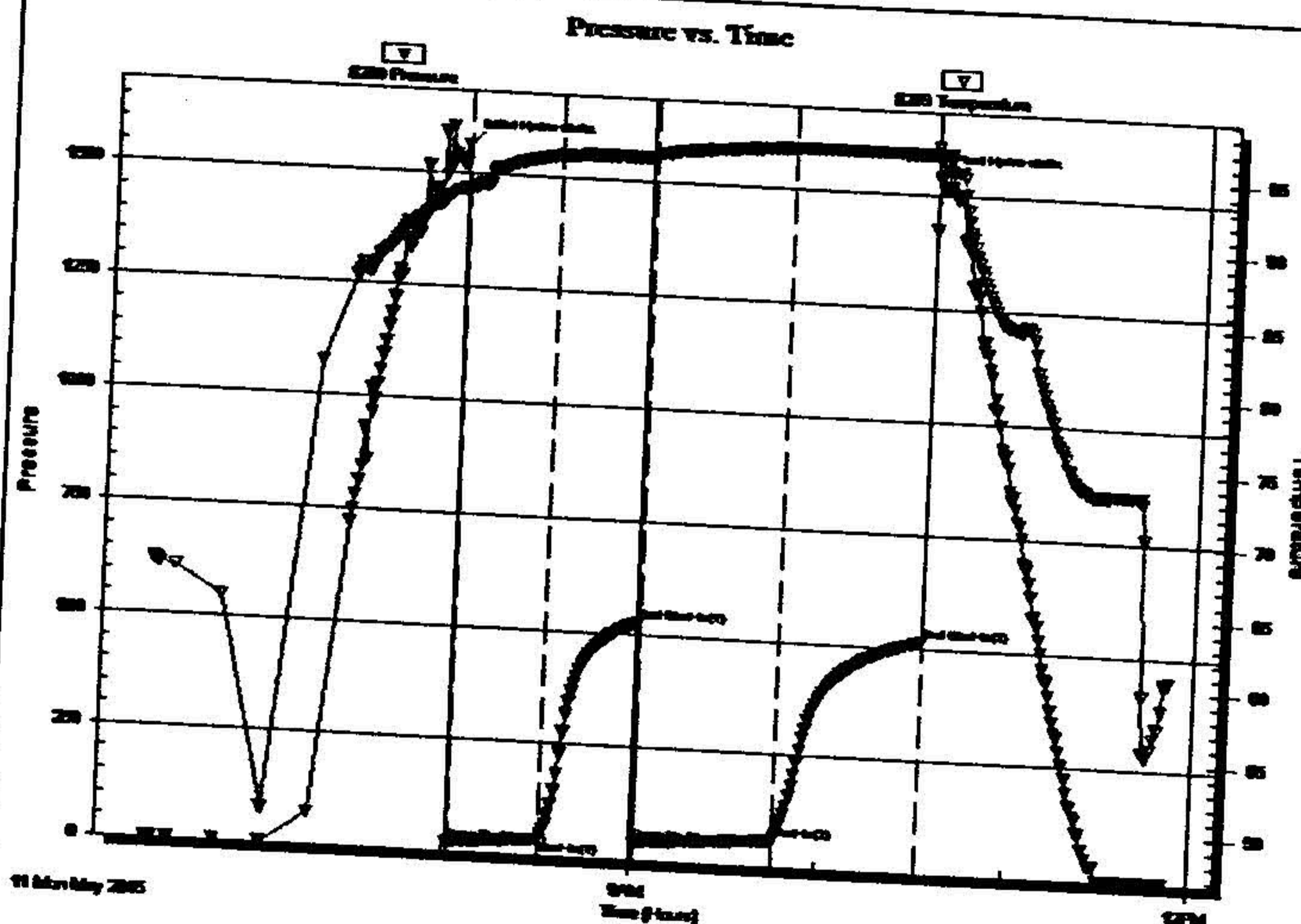
11:52:06

Last Calib.: 2015.05.11

Time On Btm: 2015.05.11 @ 08:00:45

Time Off Btm: 2015.05.11 @ 10:32:45

**TEST COMMENT:** 30-IF- BOB in 14 min.  
30-ISI- Weak Surface Blow in 2 min.  
45-FF- BOB in 21 min.  
45-FSI- Weak Surface Blow in 2 min.



## PRESSURE SUMMARY

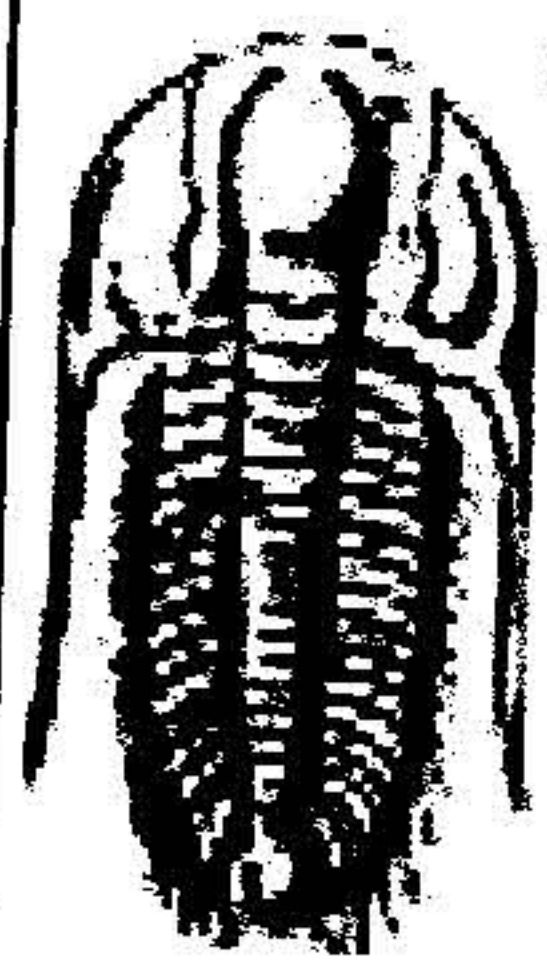
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1564.88	92.53	Initial Hydro-static
1	18.17	92.22	Open To Flow (1)
30	35.04	95.04	Shut-In(1)
60	528.58	95.17	End Shut-In(1)
61	38.95	95.01	Open To Flow (2)
106	58.34	96.31	Shut-In(2)
152	515.00	96.27	End Shut-In(2)
152	1537.13	96.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	OMCW 2%o 20%m 78%w	0.88
30.00	WOCM 20%w 40%o 40%m	0.42
0.00	280 GIP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Miller-Becker Enterprises Inc

27 15s 15w Russell

100 S Main St  
Russell KS 67665

Wegele #1 A

ATTN: Herb Deines

Job Ticket: 62380

DST#: 1

Test Start: 2015.05.11 @ 06:24:00

## GENERAL INFORMATION:

Formation: LKC "C"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:01:15  
 Time Test Ended: 11:57:00  
 Interval: 3165.00 ft (KB) To 3186.00 ft (KB) (TVD)  
 Total Depth: 3186.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 76  
 Reference Elevations: 1928.00 ft (KB)  
 1922.00 ft (CF)  
 KB to GR/CF: 6.00 ft

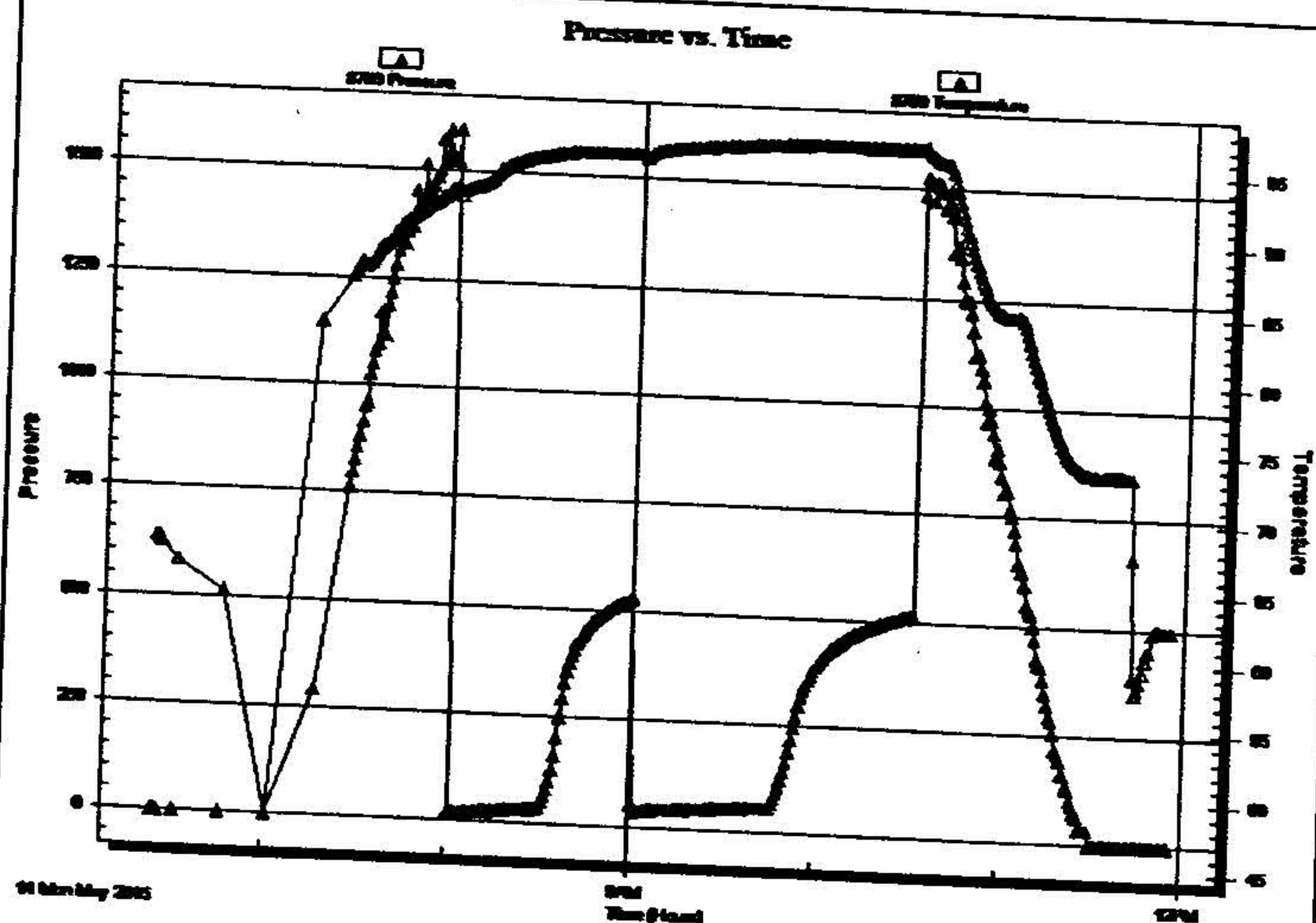
Serial #: 8789

Inside

Press@RunDepth: psig @ 3168.00 ft (KB)  
 Start Date: 2015.05.11 End Date: 2015.05.11  
 Start Time: 06:24:02 End Time: 11:56:45

Capacity: 8000.00 psig  
 Last Calib.: 2015.05.11  
 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30-IF- BOB in 14 min.  
 30-ISI- Weak Surface Blow in 2 min.  
 45-FF- BOB in 21 min.  
 45-FSI- Weak Surface Blow in 2 min.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	OMCW 2%o 20%m 78%w	0.88
30.00	WOCM 20%w 40%o 40%m	0.42
0.00	280 GIP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Miller-Becker Enterprises Inc

27 15s 15w Russell

100 S Main St  
Russell KS 67665

Wegele #1 A

ATTN: Herb Deines

Job Ticket: 62381

DST#: 2

Test Start: 2015.05.11 @ 16:51:00

## GENERAL INFORMATION:

Formation: **LKC "D"**  
Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:15:00

Time Test Ended: 23:15:00

Interval: **3189.00 ft (KB) To 3200.00 ft (KB) (TVD)**

Total Depth: 3200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Reference Elevations: 1928.00 ft (KB)

1922.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8289

Outside

Press@RunDepth: 22.83 psig @ 3192.00 ft (KB)

Start Date: 2015.05.11

End Date:

2015.05.11

Capacity: 8000.00 psig

Start Time: 16:51:02

End Time:

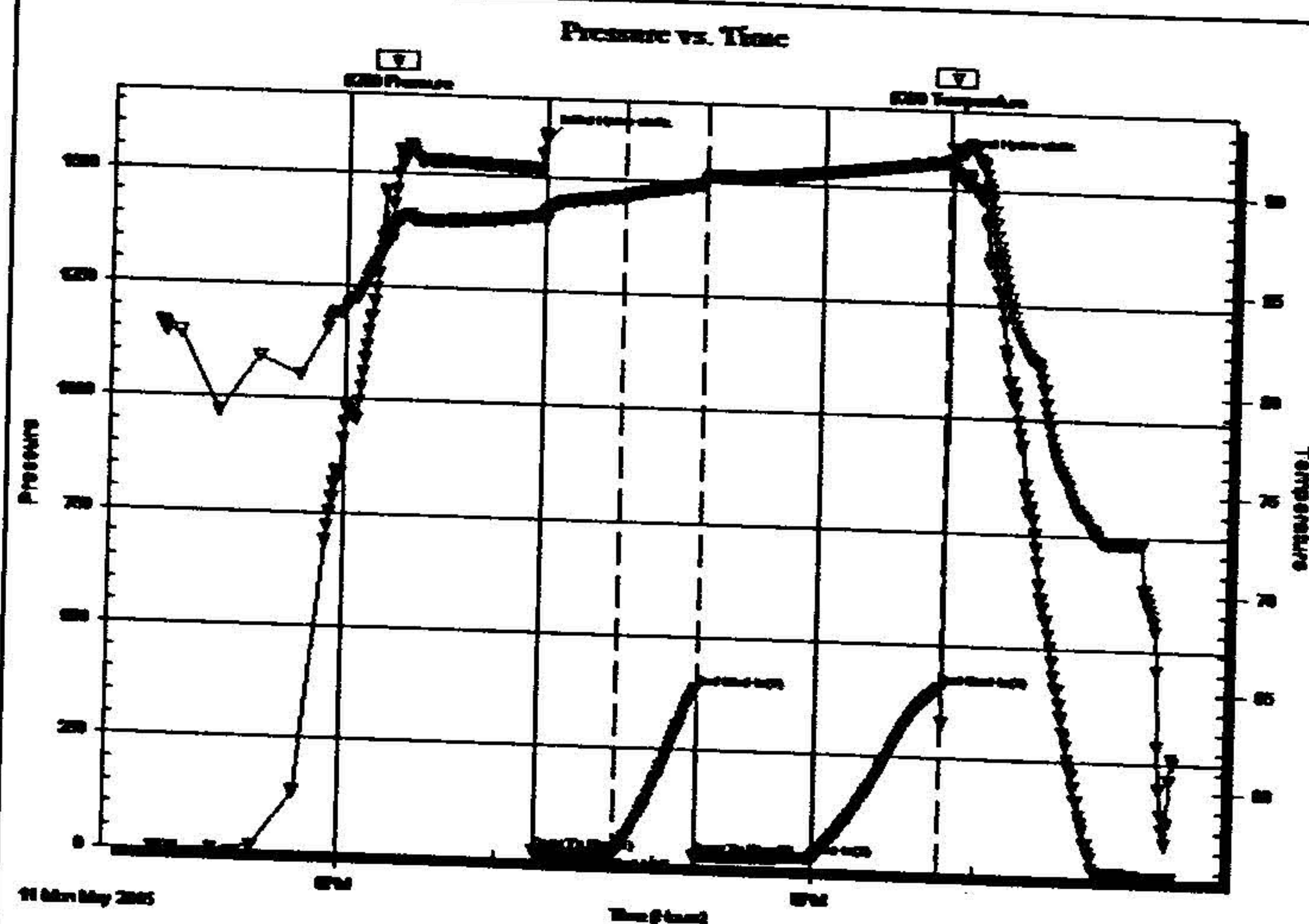
23:15:00

Last Calib.: 2015.05.11

Time On Btm: 2015.05.11 @ 19:14:45

Time Off Btm: 2015.05.11 @ 21:47:45

TEST COMMENT: 30-IF- BOB in 14 min.  
30-IS- No Blow  
45-FF- BOB in 6 1/2 min.  
45-FS- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1581.14	88.36	Initial Hydro-static
1	17.58	87.95	Open To Flow (1)
30	16.52	89.28	Shut-in(1)
61	385.55	89.99	End Shut-in(1)
61	19.82	90.15	Open To Flow (2)
105	22.83	90.76	Shut-in(2)
153	405.93	91.52	End Shut-in(2)
153	1558.16	92.18	Final Hydro-static

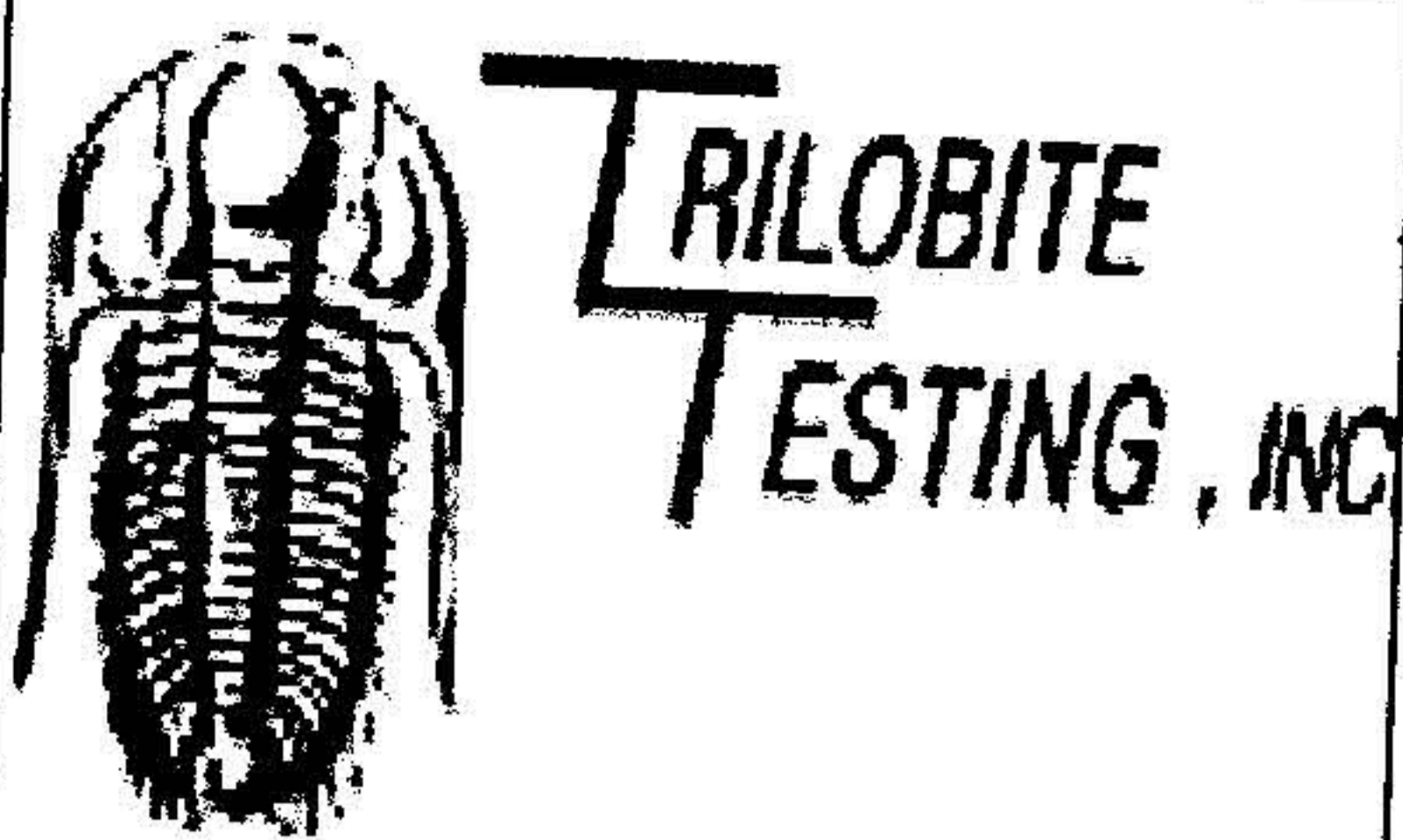
## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 20% m 80% o	0.84
0.00	440 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



# DRILL STEM TEST REPORT

Miller-Becker Enterprises Inc

27 15s 15w Russell

100 S Main St  
Russell KS 67665

**Wegele #1 A**

ATTN: Herb Deines

Job Ticket: 62381

**DST#: 2**

Test Start: 2015.05.11 @ 16:51:00

## GENERAL INFORMATION:

Formation: **LKC "D"**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 19:15:00

Time Test Ended: 23:15:00

Interval: **3189.00 ft (KB) To 3200.00 ft (KB) (TVD)**  
Total Depth: 3200.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Reference Elevations: 1928.00 ft (KB)

1922.00 ft (CF)

KB to GR/CF: 6.00 ft

**Serial #: 8789** Inside

Press@RunDepth:                      psig @ 3192.00 ft (KB)

Start Date: 2015.05.11

End Date:

Capacity: 8000.00 psig

Start Time: 16:51:02

End Time:

2015.05.11

Last Calib.:

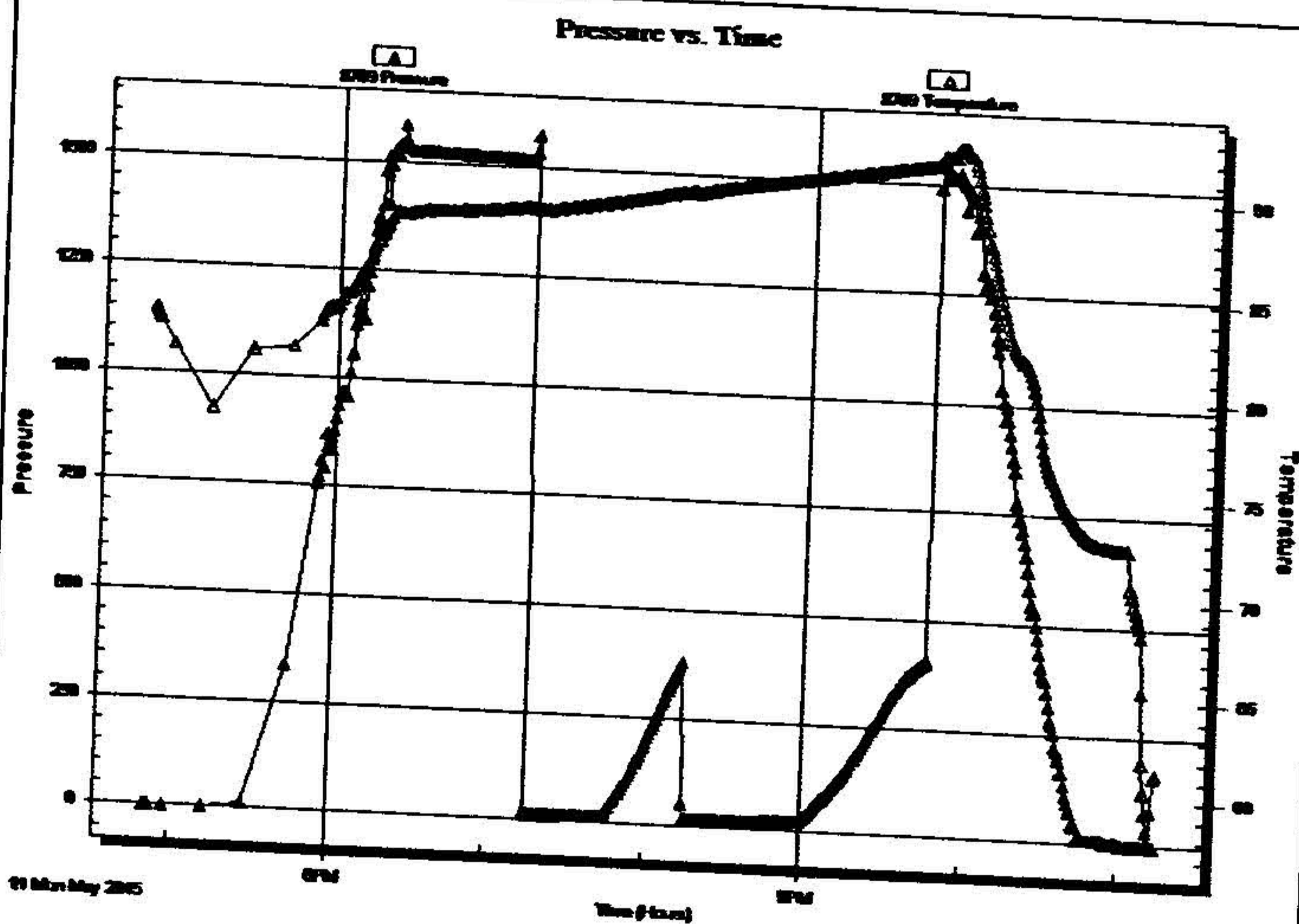
2015.05.11

23:14:45

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-F- BOB in 14 min.  
30-ISI- No Blow  
45-FF- BOB in 6 1/2 min.  
45-FSI- No Blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 20% m 80% o	0.84
0.00	440 GIP	0.00

\* Recovery from multiple tests

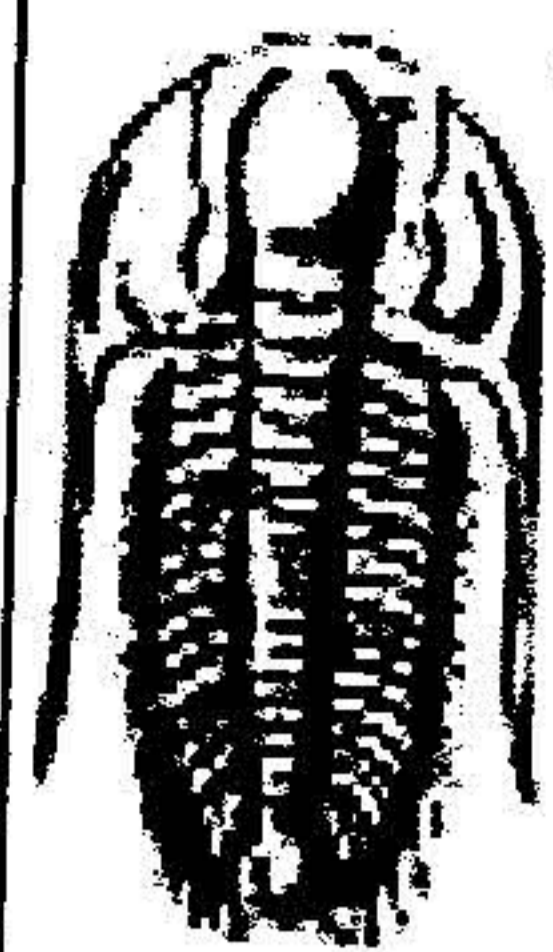
## Gas Rates

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

Trilobite Testing, Inc

Ref. No: 62381

Printed: 2015.05.13 @ 11:27:29



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Miller-Becker Enterprises Inc

27 15s 15w Russell

100 S Main St  
Russell KS 67665

**Wegele #1 A**

ATTN: Herb Deines

Job Ticket: 62382

DST#: 3

Test Start: 2015.05.12 @ 05:25:00

## GENERAL INFORMATION:

Formation: LKC "F & G"  
Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:01:15

Time Test Ended: 10:43:00

Interval: 3214.00 ft (KB) To 3244.00 ft (KB) (TVD)

Total Depth: 3244.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Reference Elevations: 1928.00 ft (KB)

1922.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8289

Outside

Press@RunDepth: 49.11 psig @ 3217.00 ft (KB)

Start Date: 2015.05.12

End Date:

2015.05.12

Capacity: 8000.00 psig

Start Time: 05:25:02

End Time:

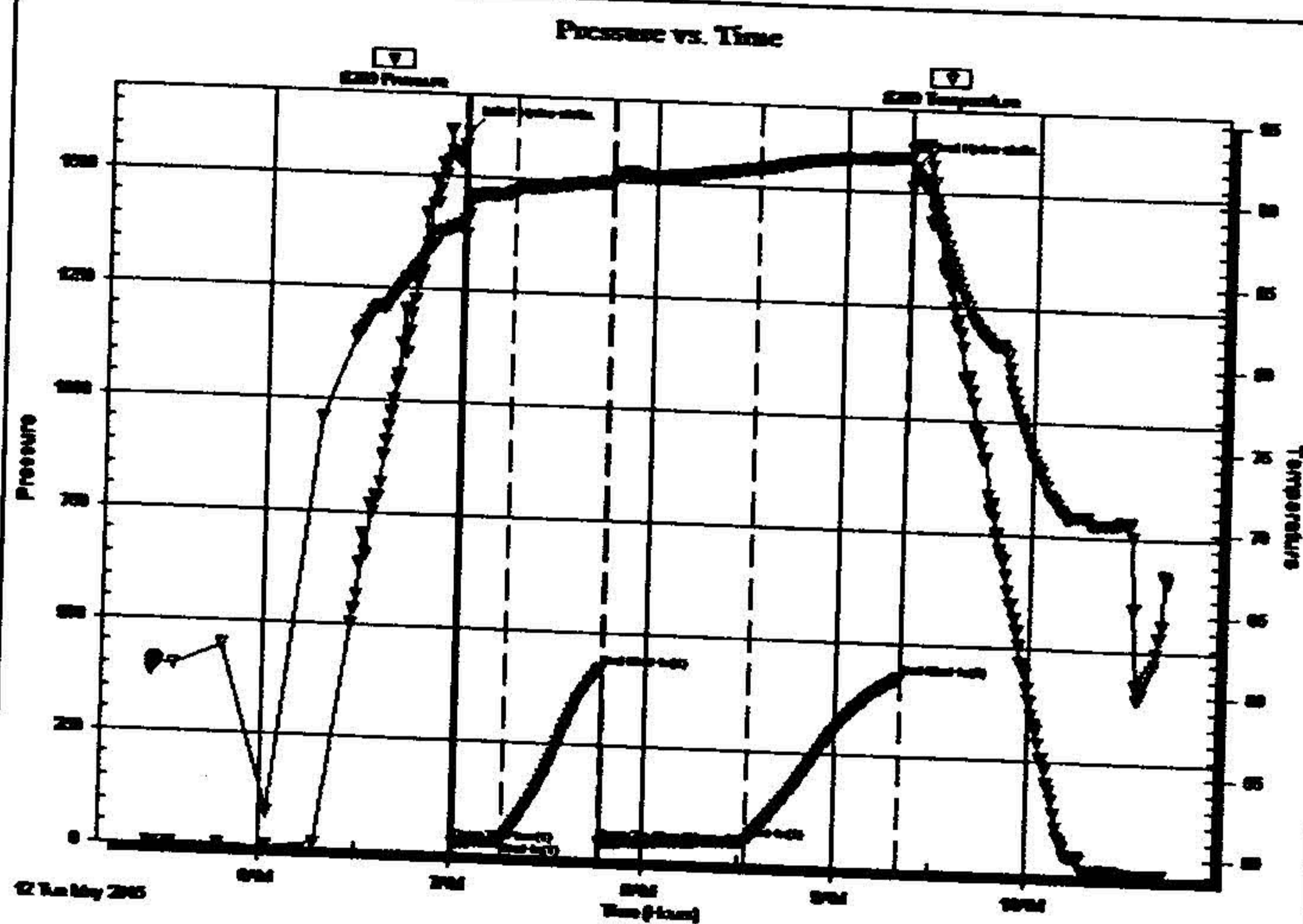
10:42:52

Last Calib.: 2015.05.12

Time On Btm: 2015.05.12 @ 07:01:00

Time Off Btm: 2015.05.12 @ 09:20:45

TEST COMMENT: 15-IF- BOB in 6min.  
30-ISI- Weak Surface Blow in 4 min.  
45-FF- BOB in 30 sec.  
45-FSI- Weak Surface Blow in 2 min. Died in 15 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.83	87.86	Initial Hydro-static
1	22.72	86.98	Open To Flow (1)
15	30.22	89.63	Shut-in(1)
46	418.74	90.42	End Shut-in(1)
46	35.50	90.36	Open To Flow (2)
92	49.11	91.59	Shut-in(2)
139	424.07	92.56	End Shut-in(2)
140	1554.93	93.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	GMWCO 10%g 10%m 10%w 70%o	0.88
30.00	OCM 25%o 75%m	0.42
0.00	850 GIP	0.00

\* Recovery from multiple tests

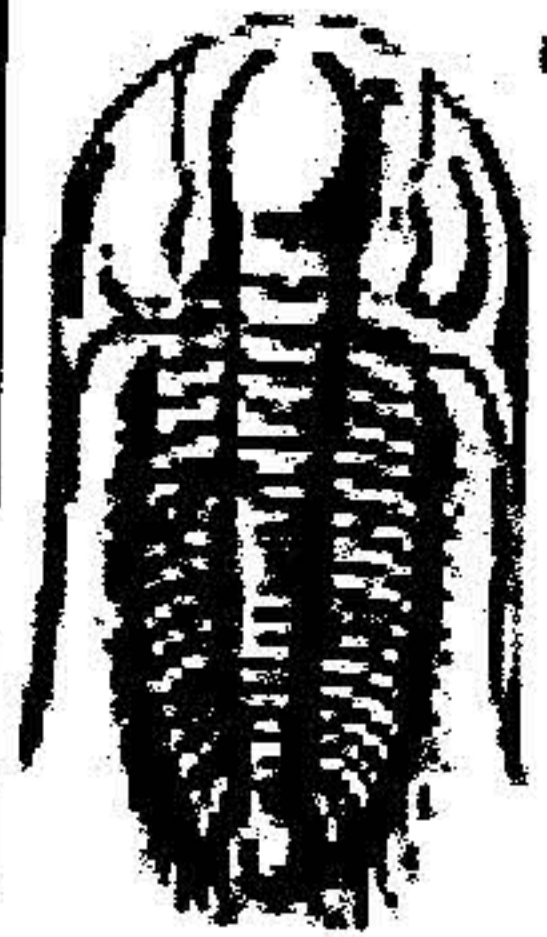
## Gas Rates

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

Trilobite Testing, Inc

Ref. No: 62382

Printed: 2015.05.13 @ 11:25:56



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Miller-Becker Enterprises Inc

27 15s 15w Russell

100 S Main St  
Russell KS 67665

**Wegele #1 A**

ATTN: Herb Deines

Job Ticket: 62382

DST#: 3

Test Start: 2015.05.12 @ 05:25:00

**GENERAL INFORMATION:**

Formation: LKC " F & G "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:01:15

Time Test Ended: 10:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3214.00 ft (KB) To 3244.00 ft (KB) (TVD)

Total Depth: 3244.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1928.00 ft (KB)

1922.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8789 Inside

Press@RunDepth: psig @ 3217.00 ft (KB)

Start Date: 2015.05.12

End Date:

2015.05.12

Capacity: 8000.00 psig

Start Time: 05:25:02

End Time:

10:42:45

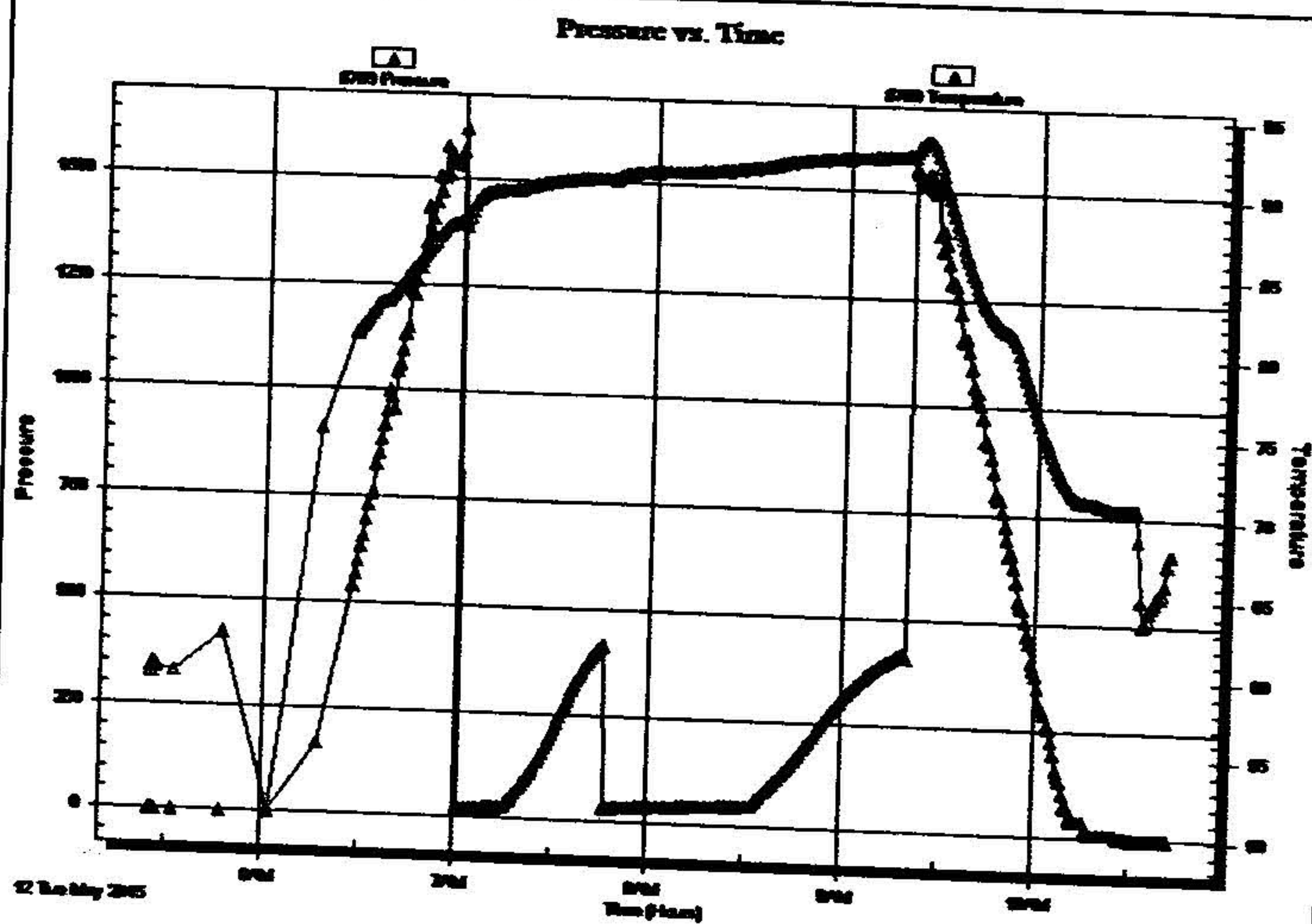
Last Calib.:

2015.05.12

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF- BOB in 6min.  
30-ISI- Weak Surface Blow in 4 min.  
45-FF- BOB in 30 sec.  
45-FSI- Weak Surface Blow in 2 min. Died in 15 min.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	GMWCO 10%g 10%m 10%w 70%o	0.88
30.00	OCM 25%o 75%m	0.42
0.00	850 GIP	0.00

\* Recovery from multiple tests

**Gas Rates**

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