



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N. Bromblewood
Wichita, KS 67206
ATTN: Ed Grieves

13-22s-39w-Hamilton Co, KS
J-G Unit #1-13
Job Ticket: 53046 **DST#: 1**
Test Start: 2013.08.31 @ 03:15:00

GENERAL INFORMATION:

Formation: **Lower Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:32:45

Time Test Ended: 18:10:45

Test Type: Conventional Straddle (Initial)

Tester: Cornelio Landa III (

Unit No: 46

Interval: **5179.00 ft (KB) To 5195.00 ft (KB) (TVD)**

Reference Elevations: 3438.00 ft (KB)

Total Depth: 5424.00 ft (KB) (TVD)

3425.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8650

Outside

Press @ RunDepth: 1023.07 psig @ 5182.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.31

End Date:

2013.08.31

Last Calib.:

2013.08.31

Start Time: 03:15:15

End Time:

18:10:45

Time On Btm:

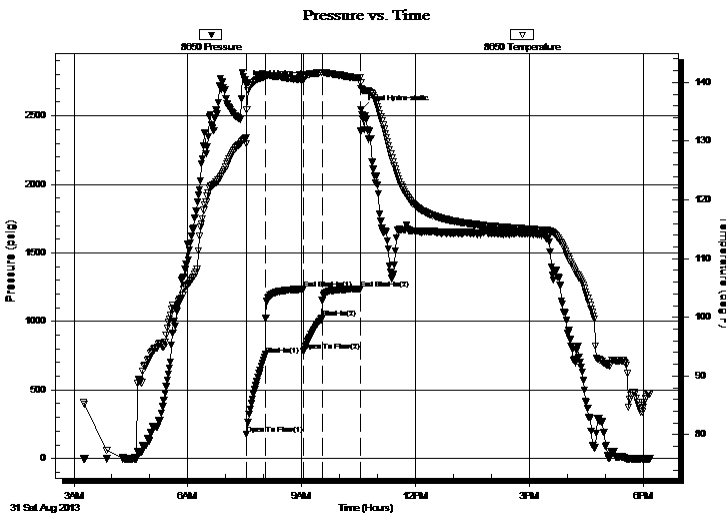
2013.08.31 @ 07:32:30

Time Off Btm:

2013.08.31 @ 10:34:15

TEST COMMENT: IF: B.o.b. in 2 mins.
IS: Bled off in 3 mins. - No return
FF: B.o.b. in 3 mins.
FS: Bled off in 1 1/4 mins. - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2726.92	130.60	Initial Hydro-static
1	177.70	129.60	Open To Flow (1)
31	758.32	141.03	Shut-In(1)
90	1236.84	140.47	End Shut-In(1)
91	781.35	140.36	Open To Flow (2)
120	1023.07	141.67	Shut-In(2)
181	1238.76	140.80	End Shut-In(2)
182	2544.95	138.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
530.00	Mw 15m 85w	2.61
630.00	Mw 5m 95w	8.84
1170.00	Mw 10m 90w	16.41
0.00	RW .17@116=23000	0.00

Gas Rates

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



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FLUID SUMMARY

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13-22s-39w-Hamilton Co, KS

2020 N. Bromblewood
Wichita, KS 67206

J-G Unit #1-13

Job Ticket: 53046

DST#: 1

ATTN: Ed Grieves

Test Start: 2013.08.31 @ 03:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
530.00	Mw 15m 85w	2.606
630.00	Mw 5m 95w	8.837
1170.00	Mw 10m 90w	16.412
0.00	RW .17@116=23000	0.000

Total Length: 2330.00 ft

Total Volume: 27.855 bbl

Num Fluid Samples: 0

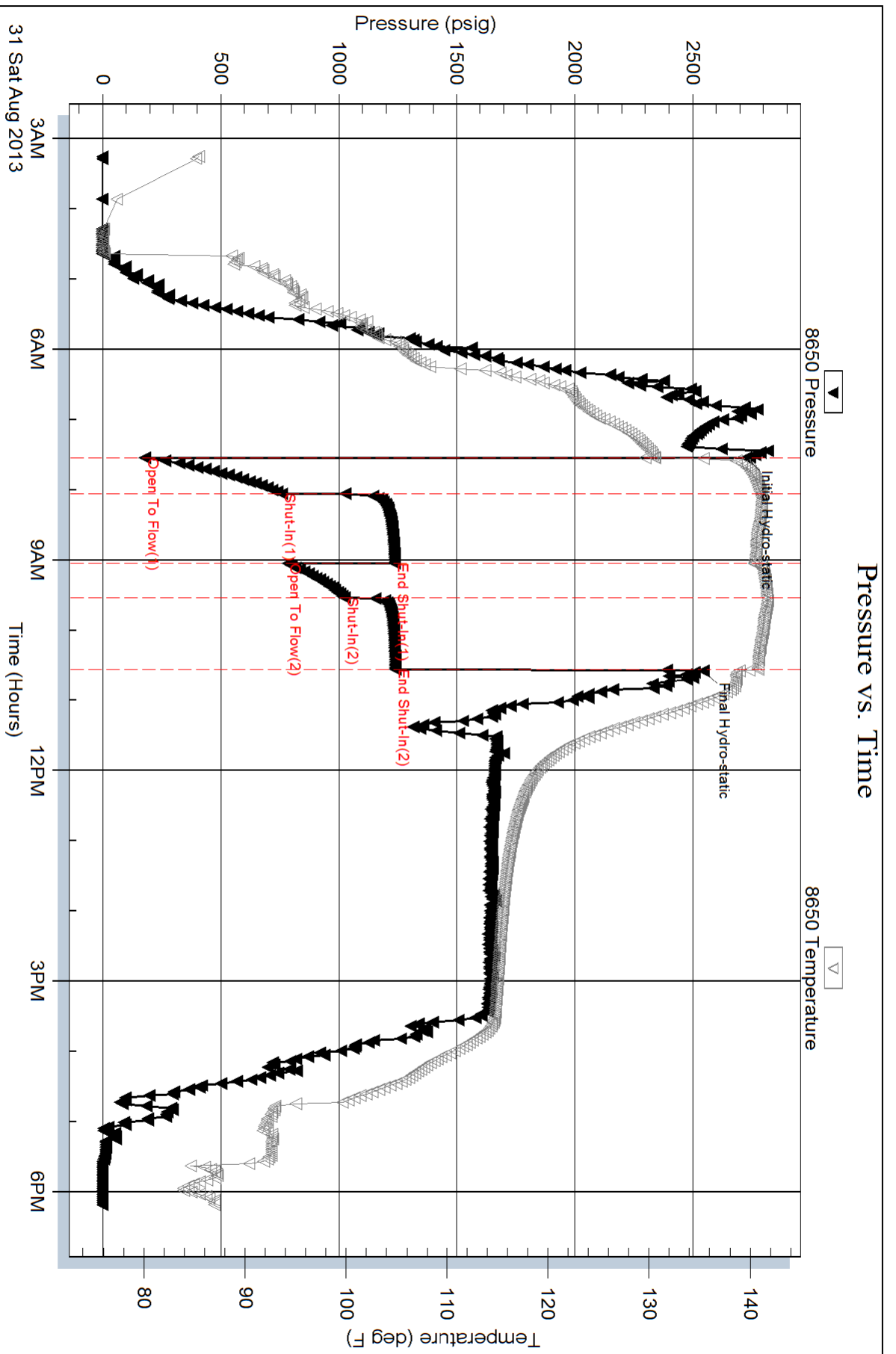
Num Gas Bombs: 0

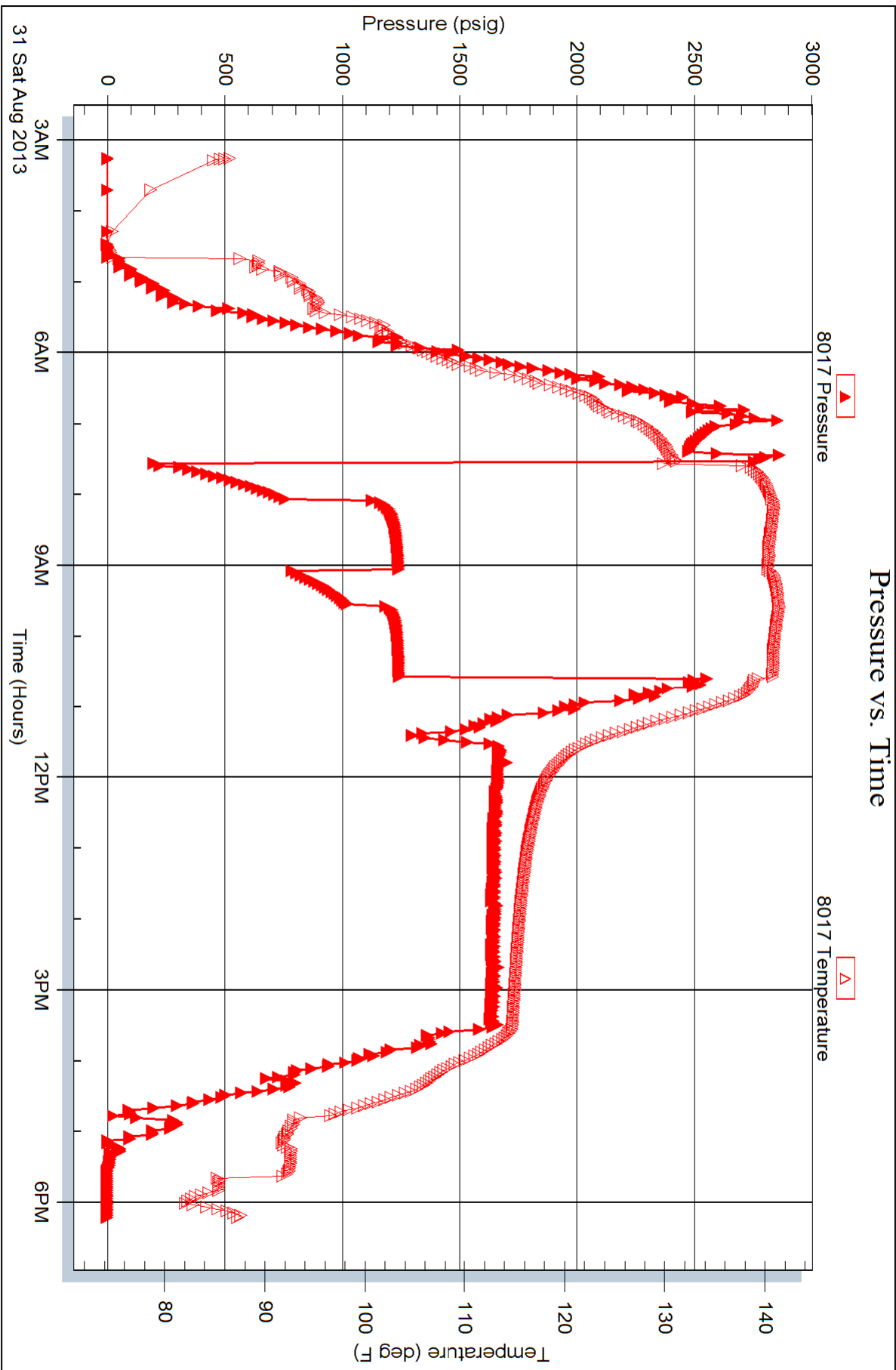
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Serial #: 8675

Inside

Berexco LLC

J-G Unit #1-13

DST Test Number: 1

