



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman Loeb LLC
 P. O. Box 838
 Lawrenceville IL 62439
 ATTN: Jon Christensen

21 13s 17w Ellis Co.
Moeder 1-21
 Job Ticket: 64769 **DST#: 2**
 Test Start: 2016.04.02 @ 03:40:00

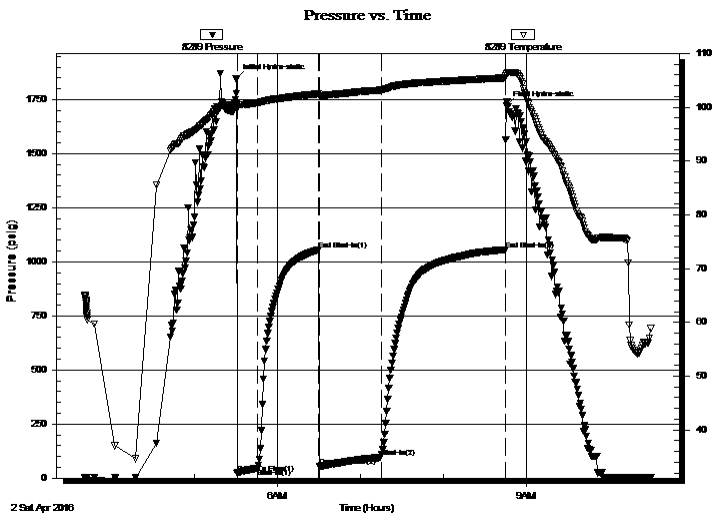
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:30:30 Tester: Jim Svaty
 Time Test Ended: 10:30:00 Unit No: 76
 Interval: **3534.00 ft (KB) To 3573.00 ft (KB) (TVD)** Reference Elevations: 2013.00 ft (KB)
 Total Depth: 3573.00 ft (KB) (TVD) 2002.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8289 Outside
 Press @ Run Depth: 95.50 psig @ 3537.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.04.02 End Date: 2016.04.02 Last Calib.: 2016.04.02
 Start Time: 03:40:02 End Time: 10:30:15 Time On Btm: 2016.04.02 @ 05:29:45
 Time Off Btm: 2016.04.02 @ 08:45:30

TEST COMMENT: 15-IFP- Surface Blow Building to 4 1/2in.
 45-ISIP- No Blow
 45-FFP- Surface Blow Building to 8in.
 90-FSIP- Surface Blow in 5min. Died in 21min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1845.15	100.54	Initial Hydro-static
1	22.47	99.80	Open To Flow (1)
16	46.83	100.84	Shut-In(1)
60	1055.12	102.50	End Shut-In(1)
61	54.13	102.11	Open To Flow (2)
105	95.50	103.19	Shut-In(2)
196	1056.80	105.47	End Shut-In(2)
196	1722.94	105.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM 45%o 55%m	0.30
126.00	CO 100%	0.62
0.00	30 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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DST#: 2

ATTN: Jon Christensen

Test Start: 2016.04.02 @ 03:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	OCM 45%o 55%m	0.305
126.00	CO 100%	0.620
0.00	30 GIP	0.000

Total Length: 188.00 ft Total Volume: 0.925 bbl

Num Fluid Samples: 0

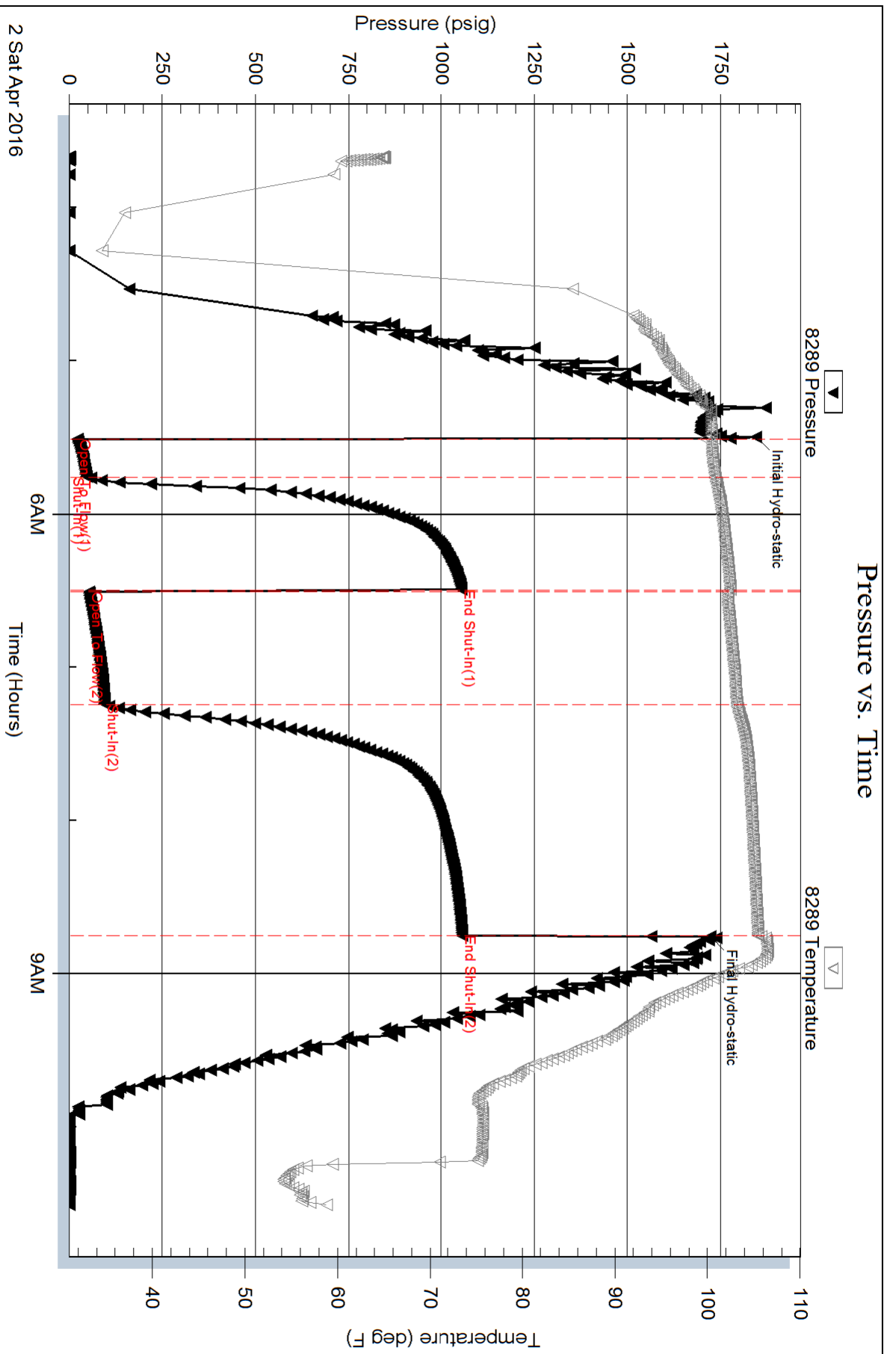
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8789

Inside

Herrman Loeb LLC

Moeder 1-21

DST Test Number: 2

