



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Eternity Exploration LLC

13-9s-32w Thomas, Ks

338 Spyglass Dr.
Coppell, Tx 75019

#1 Landenburger

ATTN: Kim Shoemaker

Job Ticket: 65645

DST#: 2

Test Start: 2016.12.07 @ 21:34:17

GENERAL INFORMATION:

Formation: **LKC K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:23:17

Time Test Ended: 07:29:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4273.00 ft (KB) To 4333.00 ft (KB) (TVD)

Reference Elevations: 3032.00 ft (KB)

Total Depth: 4333.00 ft (KB) (TVD)

3027.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8166 Outside

Press@RunDepth: 715.88 psig @ 4274.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.12.07

End Date:

2016.12.08

Last Calib.: 2016.12.08

Start Time: 21:34:22

End Time:

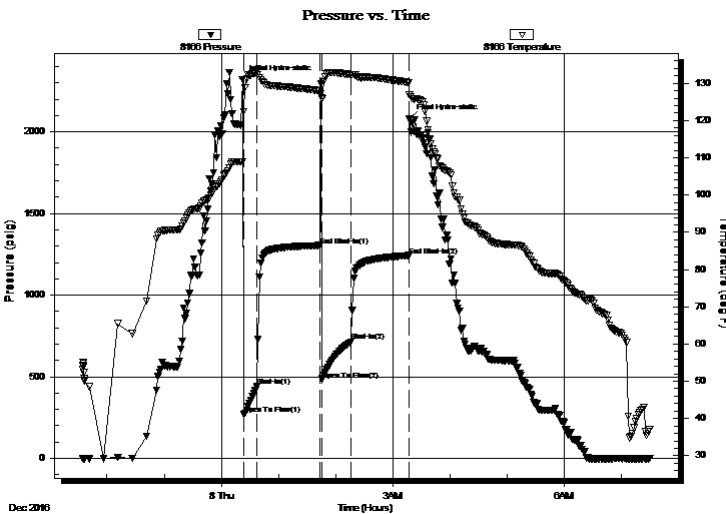
07:29:17

Time On Btm: 2016.12.08 @ 00:21:47

Time Off Btm: 2016.12.08 @ 03:17:17

TEST COMMENT: IF: BOB in 1 min.
IS: Surface blow died in 5 min.
FF: BOB in 2 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2321.64	108.95	Initial Hydro-static
2	272.06	122.40	Open To Flow (1)
16	442.93	132.88	Shut-In(1)
81	1304.02	128.02	End Shut-In(1)
84	481.36	126.07	Open To Flow (2)
115	715.88	132.34	Shut-In(2)
175	1242.20	130.24	End Shut-In(2)
176	2079.29	127.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 95%w 5%m	2.65
756.00	ocmw 10%o 80%w 10%m	10.60
315.00	ocmw 5%o 65%w 30%m	4.42
267.00	ocmw 5%o 55%w 40%m	3.75
0.00	108 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



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Interval: 4273.00 ft (KB) To 4333.00 ft (KB) (TVD) Reference Elevations: 3032.00 ft (KB)
 Total Depth: 4333.00 ft (KB) (TVD) 3027.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

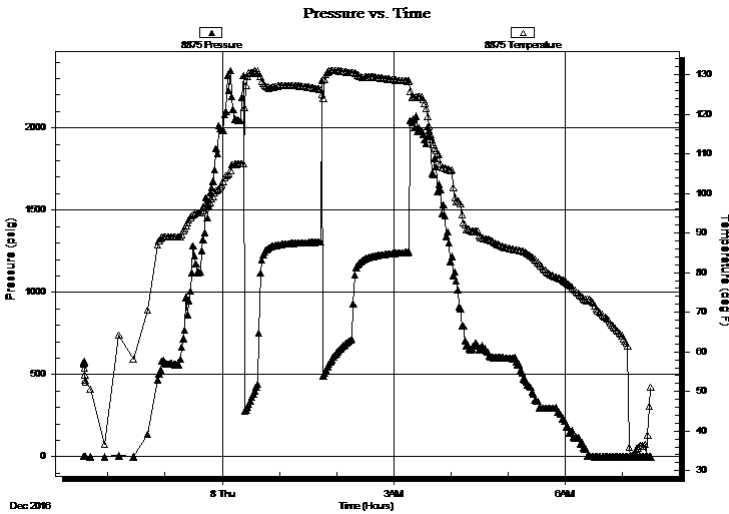
Serial #: 8875

Inside

Press@RunDepth: psig @ 4274.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.07 End Date: 2016.12.08 Last Calib.: 2016.12.08
 Start Time: 21:34:34 End Time: 07:29:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 1 min.
 IS: Surface blow died in 5 min.
 FF: BOB in 2 min.
 FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 95%w 5%m	2.65
756.00	ocmw 10%o 80%w 10%m	10.60
315.00	ocmw 5%o 65%w 30%m	4.42
267.00	ocmw 5%o 55%w 40%m	3.75
0.00	108 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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13-9s-32w Thomas, Ks

338 Spyglass Dr.
Coppell, Tx 75019

#1 Landenburger

Job Ticket: 65645

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2016.12.07 @ 21:34:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	mcw 95%w 5%m	2.651
756.00	ocmw 10%o 80%w 10%m	10.605
315.00	ocmw 5%o 65%w 30%m	4.419
267.00	ocmw 5%o 55%w 40%m	3.745
0.00	108 GIP	0.000

Total Length: 1527.00 ft Total Volume: 21.420 bbl

Num Fluid Samples: 0

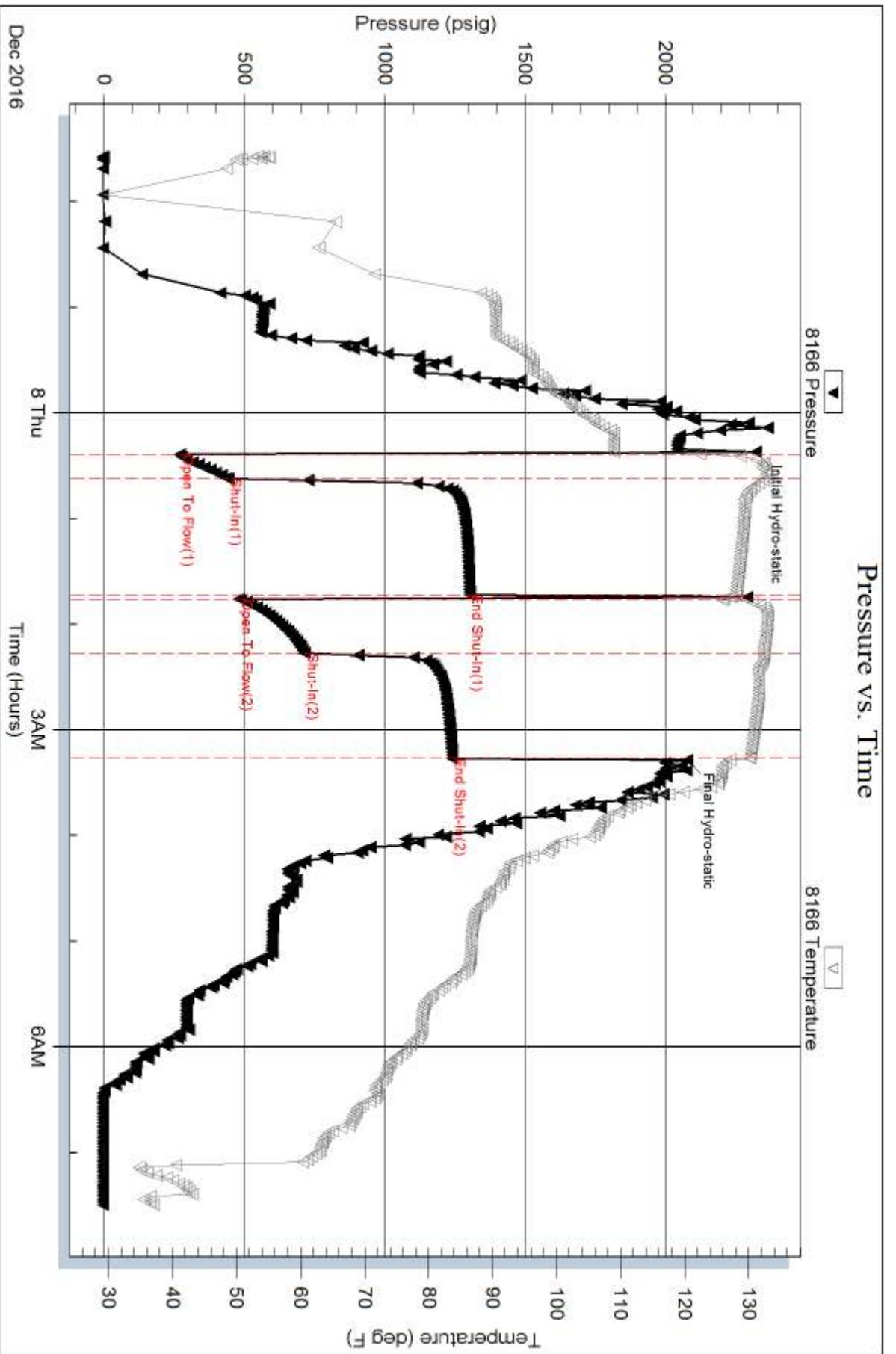
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .50@28=34000



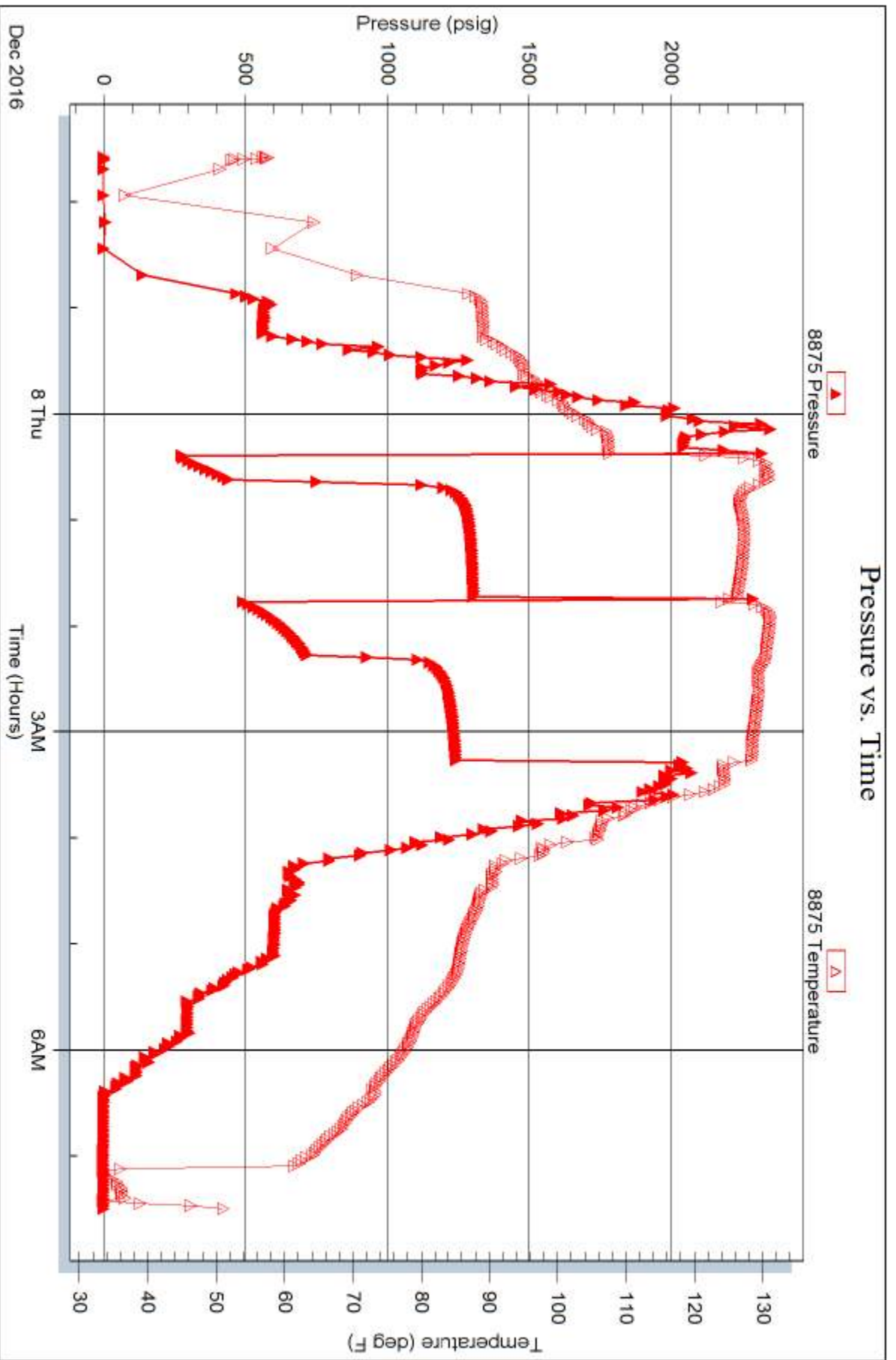
Serial #: 8875

Inside

Eernity Exploration LLC

#1 Landenburger

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65645

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