



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hertel Oil Co.LLc

15-15-18, Ellis, KS

704 E 12th St
Hays KS 67601

Louis #1

ATTN: Herb Dienes

Job Ticket: 55484

DST#: 1

Test Start: 2013.12.11 @ 23:30:00

GENERAL INFORMATION:

Formation: **KC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:00

Time Test Ended: 06:19:00

Test Type: Conventional Straddle (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3347.00 ft (KB) To 3394.00 ft (KB) (TVD)

Reference Elevations: 2058.00 ft (KB)

Total Depth: 3394.00 ft (KB) (TVD)

2050.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Inside

Press@RunDepth: 27.32 psig @ 3390.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.11

End Date: 2013.12.12

Last Calib.: 2013.12.12

Start Time: 23:30:05

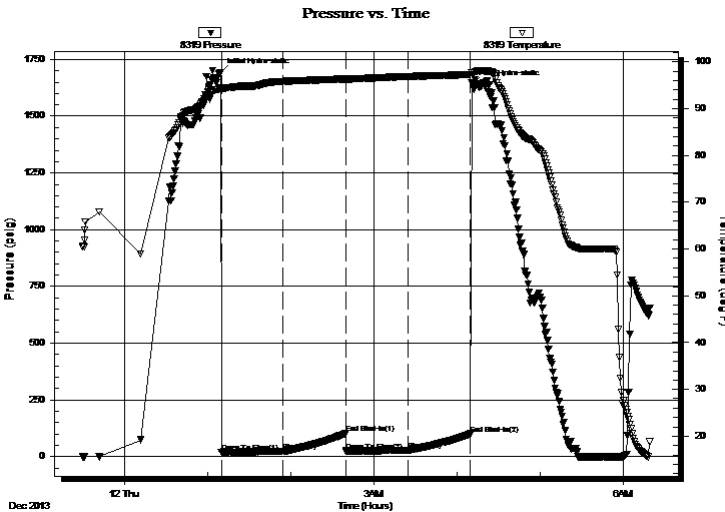
End Time: 06:18:59

Time On Btm: 2013.12.12 @ 01:09:30

Time Off Btm: 2013.12.12 @ 04:11:00

TEST COMMENT: IF-4in blow
IS-No blow
FF-6in blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1692.50	94.38	Initial Hydro-static
1	17.50	93.84	Open To Flow (1)
45	22.95	95.82	Shut-In(1)
90	101.75	96.34	End Shut-In(1)
91	22.41	96.32	Open To Flow (2)
135	27.32	96.88	Shut-In(2)
180	98.79	97.31	End Shut-In(2)
182	1640.99	97.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 10%O 90%M	0.42
0.00	90ft GIP	0.00

Gas Rates

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



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DST#: 1

ATTN: Herb Dienes

Test Start: 2013.12.11 @ 23:30:00

GENERAL INFORMATION:

Formation: **KC "C"**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Straddle (Initial)

Time Tool Opened: 01:10:00

Tester: Brett Dickinson

Time Test Ended: 06:19:00

Unit No: 59

Interval: **3347.00 ft (KB) To 3394.00 ft (KB) (TVD)**

Reference Elevations: 2058.00 ft (KB)

Total Depth: 3394.00 ft (KB) (TVD)

2050.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8736 Below (Straddle)**

Press@RunDepth: psig @ 3399.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.11

End Date:

2013.12.12

Last Calib.:

2013.12.12

Start Time: 23:30:05

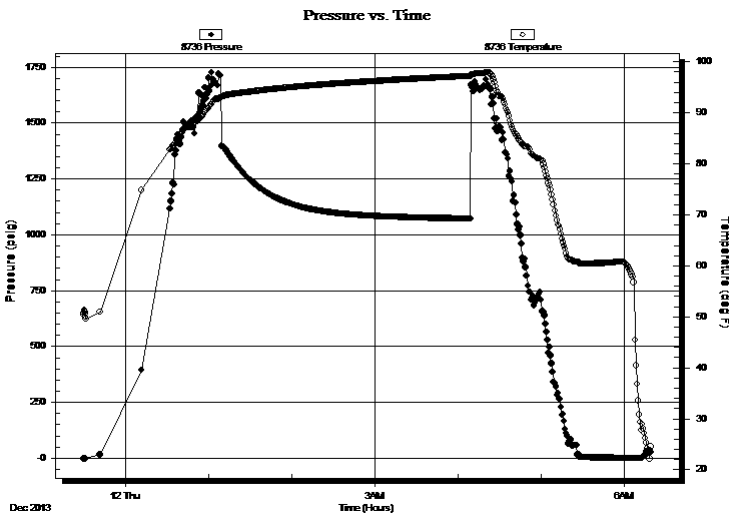
End Time:

06:18:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-4in blow
IS-No blow
FF-6in blow
FS-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 10%O 90%M	0.42
0.00	90ft GIP	0.00

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Hertel Oil Co.LLc

15-15-18, Ellis, KS

704 E 12th St
Hays KS 67601

Louis #1

Job Ticket: 55484

DST#: 1

ATTN: Herb Dienes

Test Start: 2013.12.11 @ 23:30:00

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:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 10%O 90%M	0.421
0.00	90ft GIP	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

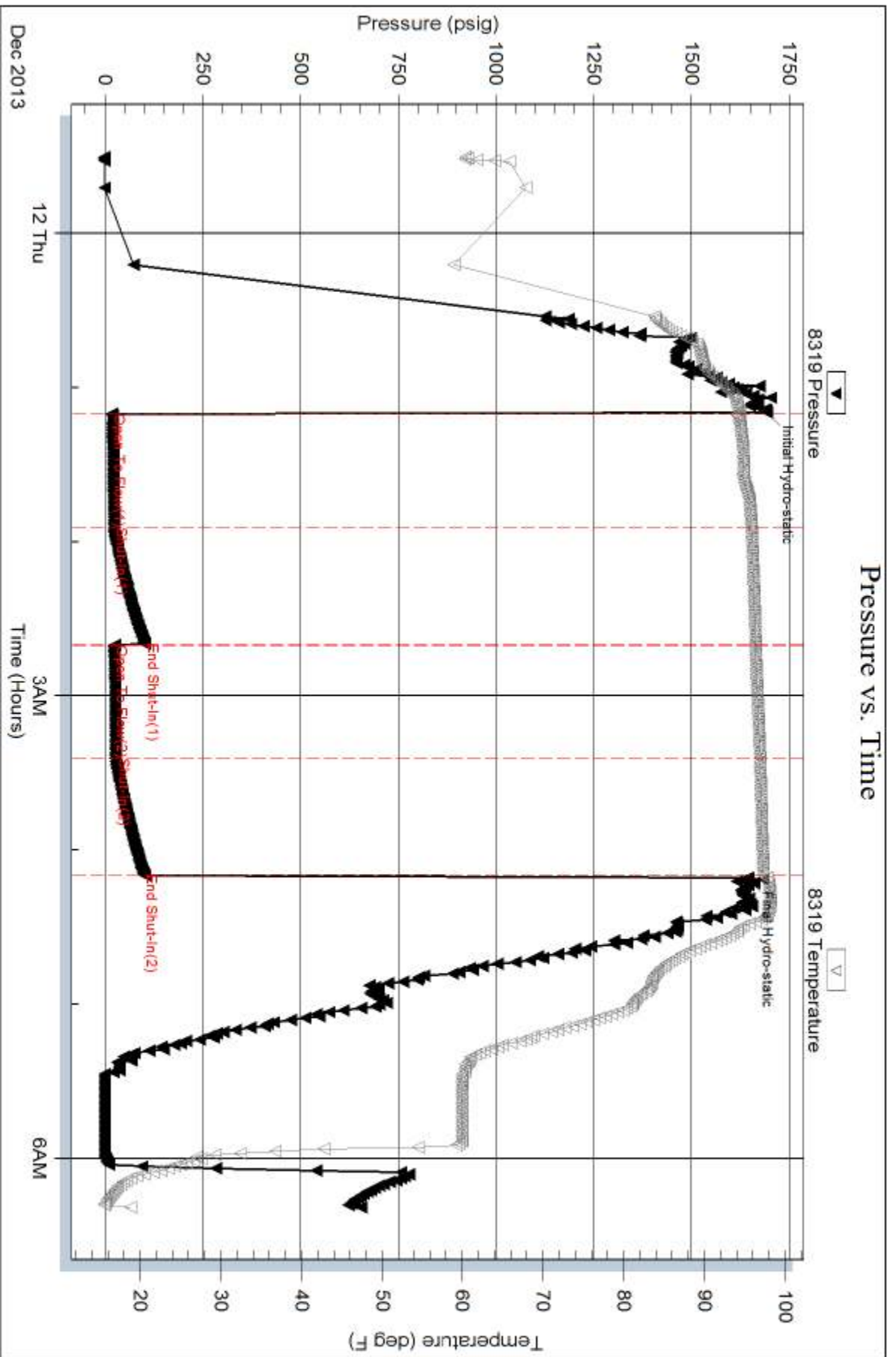
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

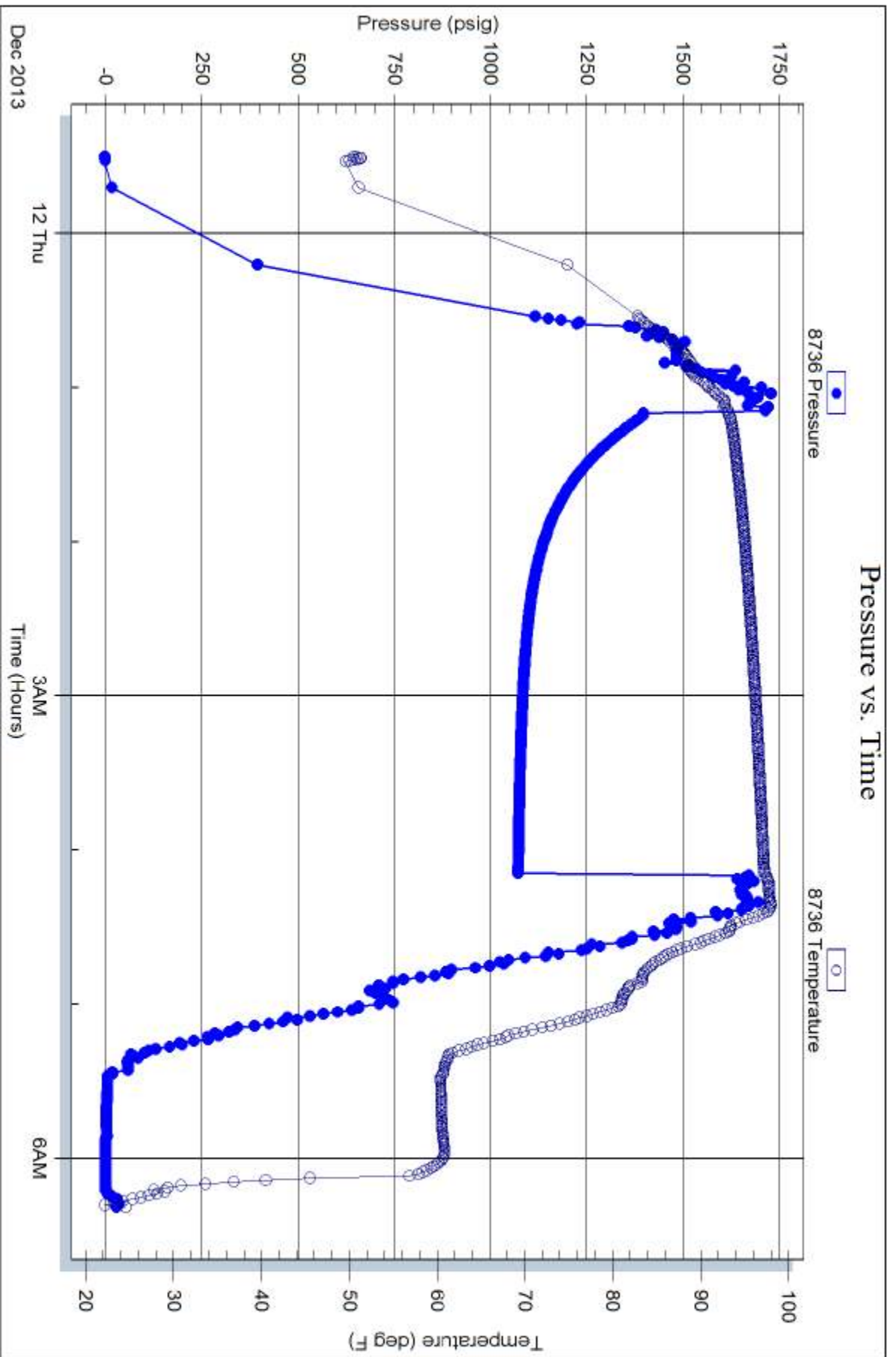


Serial #: 8736

Below (Stratfield) Oil Co. LLC

Louis #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55484

Printed: 2013.12.12 @ 07:58:18