DRILL STEM TEST REPORT

Caroden Energy LLC

7302 Spanish Bay Dr.
Windsor, Co 80550

ATTN: Chris Frevert, Herb

1-17s-10w Ellsworth

Thelma #1

Job Ticket: 65460 **DST#: 1**

Test Start: 2016.05.18 @ 01:25:14

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:02:39
Time Test Ended: 07:35:08

Test Type: Conventional Straddle (Initial)
Tester: Ray Schw ager
Unit No: 77

Interval: 3214.00 ft (KB) To 3280.00 ft (KB) (TVD)
Total Depth: 3362.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

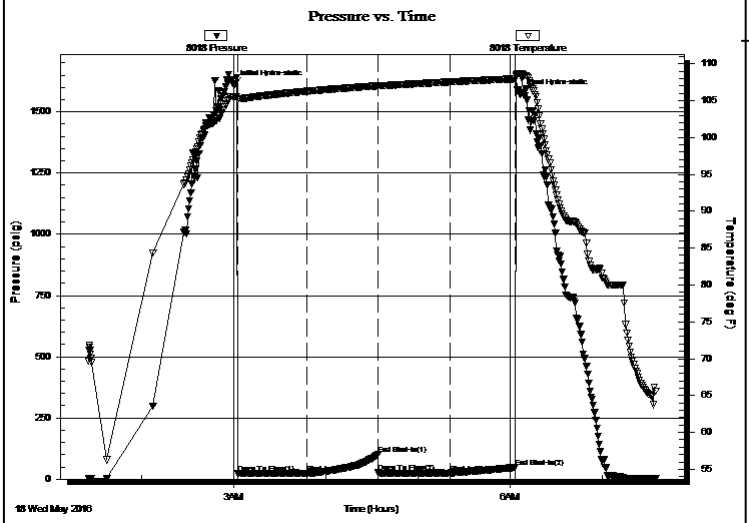
Reference Elevations: 1810.00 ft (KB)
1802.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: 24.95 psig @ 3220.00 ft (KB)
Start Date: 2016.05.18 End Date: 2016.05.18
Start Time: 01:25:14 End Time: 07:35:08

Capacity: 8000.00 psig
Last Calib.: 2016.05.18
Time On Btm: 2016.05.18 @ 02:59:54
Time Off Btm: 2016.05.18 @ 06:06:23

TEST COMMENT: 45-IFP-w k bl thru-out 1/2'to 1"bl
45-ISIP-no bl bk
45-FFP-w k bl thru-out surface to 1/4"bl
45-FSIP-no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1611.17	105.57	Initial Hydro-static
3	23.84	105.12	Open To Flow (1)
48	25.02	106.26	Shut-In(1)
94	101.15	106.99	End Shut-In(1)
95	27.91	106.95	Open To Flow (2)
141	24.95	107.53	Shut-In(2)
184	47.92	107.95	End Shut-In(2)
187	1572.93	108.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.07
10.00	OCM 15%O85%M	0.14

Gas Rates

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

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Thelma #1

Job Ticket: 65460 **DST#: 1**

Test Start: 2016.05.18 @ 01:25:14

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:02:39
Time Test Ended: 07:35:08

Test Type: Conventional Straddle (Initial)
Tester: Ray Schw ager
Unit No: 77

Interval: 3214.00 ft (KB) To 3280.00 ft (KB) (TVD)
Total Depth: 3362.00 ft (KB) (TVD)
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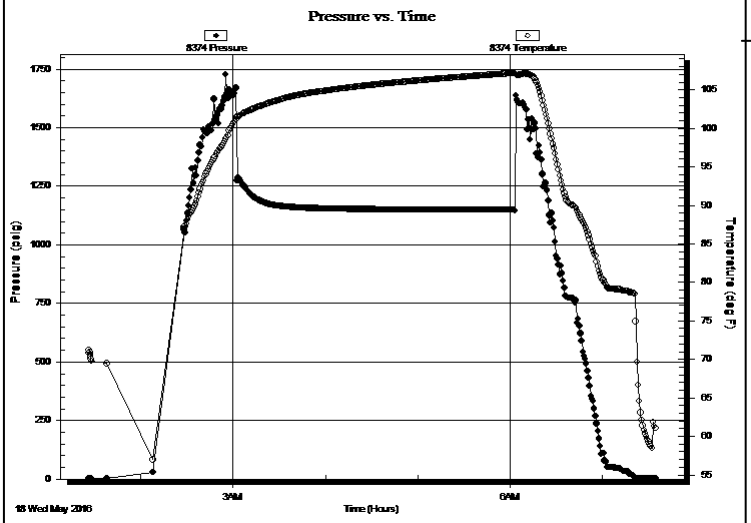
Reference Elevations: 1810.00 ft (KB)
1802.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8374 **Below (Straddle)**

Press@RunDepth: psig @ 3286.00 ft (KB)
Start Date: 2016.05.18 End Date: 2016.05.18
Start Time: 01:25:57 End Time: 07:35:06

Capacity: 8000.00 psig
Last Calib.: 2016.05.18
Time On Btm:
Time Off Btm:

TEST COMMENT: 45-IFP-w k bl thru-out 1/2'to 1"bl
45-ISIP-no bl bk
45-FFP-w k bl thru-out surface to 1/4"bl
45-FSIP-no bl bk



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.07
10.00	OCM 15%O85%M	0.14

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Caroden Energy LLC

7302 Spanish Bay Dr.
Windsor, Co 80550

ATTN: Chris Frevert, Herb

1-17s-10w Ellsworth

Thelma #1

Job Ticket: 65460 **DST#: 1**

Test Start: 2016.05.18 @ 01:25:14

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	43 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	CO	0.070
10.00	OCM 15%O85%M	0.140

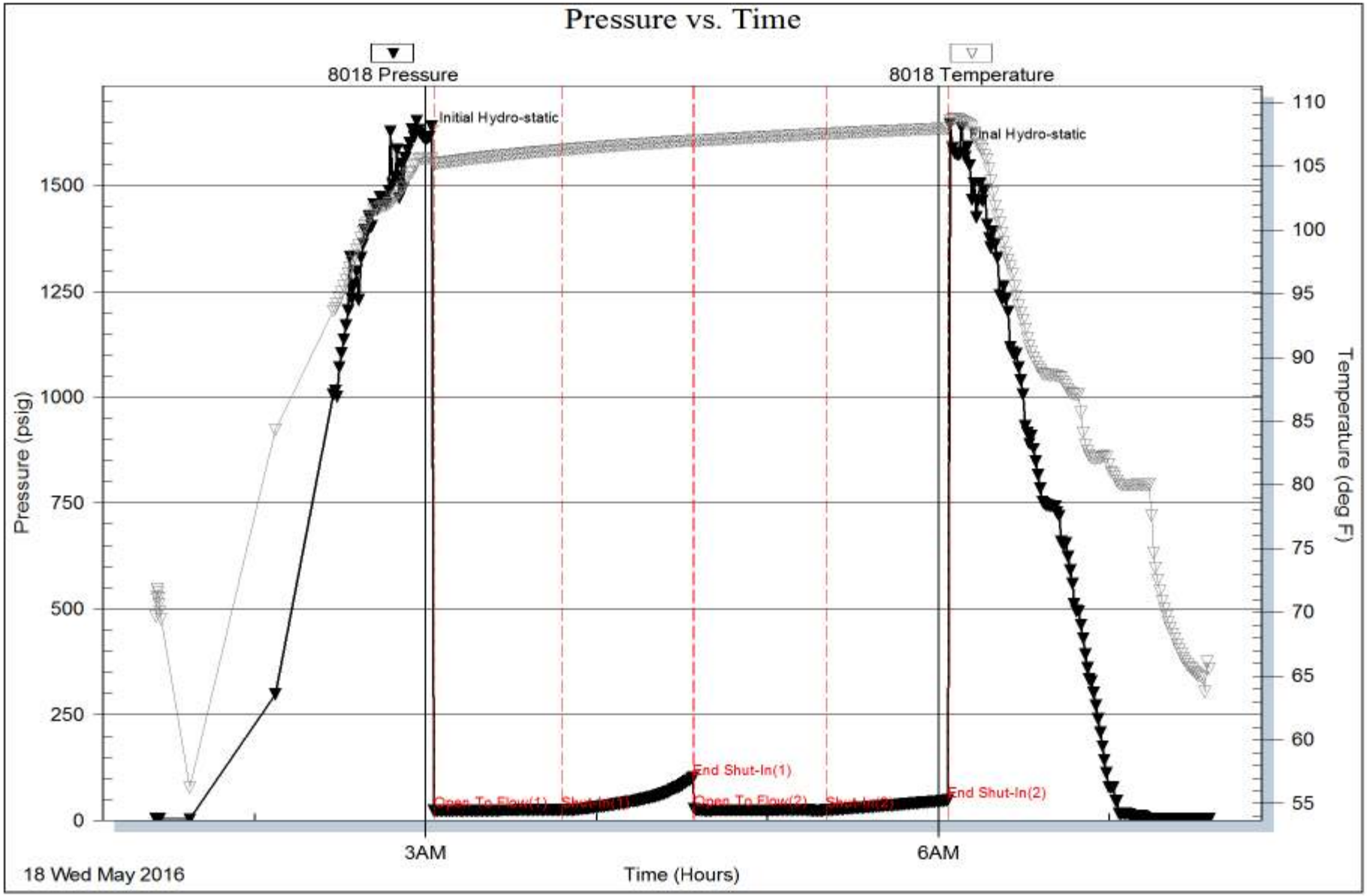
Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

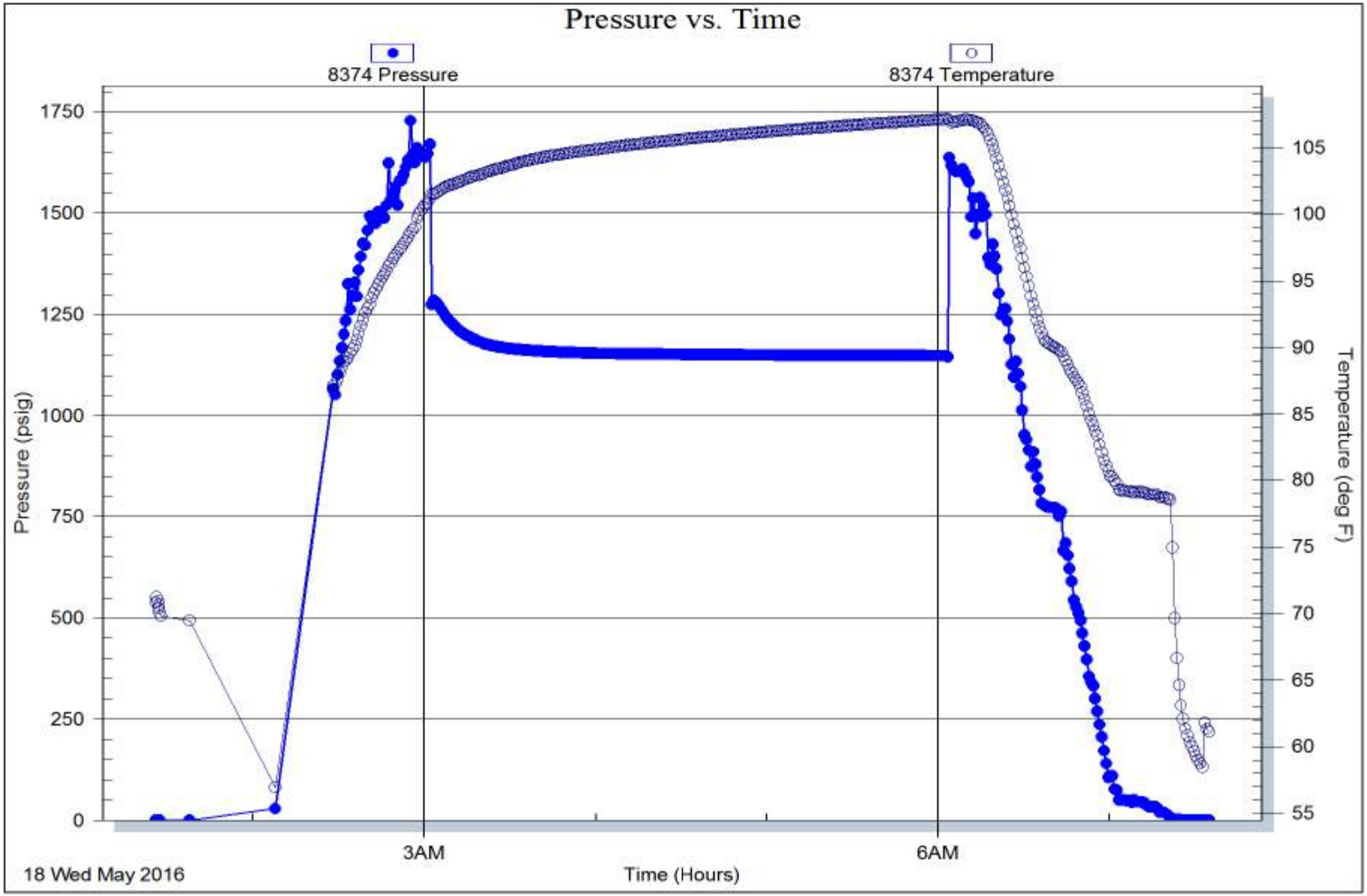
Recovery Comments:

Serial #: 8018 **Inside** Caroden Energy LLC Thelma #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65460 Printed: 2016.05.18 @ 09:01:50

Serial #: 8374 Below (Straddle) Chesapeake Energy LLC Thelma #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65460 Printed: 2016.05.18 @ 09:01:50