

DRILL STEM TEST REPORT

Prepared For: **American Patriot Oil LLC**

1716 N Main St Suite A #170
Longmont, CO 80501

ATTN: Randy Kilian

APO #2

19-10s-21w Graham,KS

Start Date: 2012.12.02 @ 18:25:00

End Date: 2012.12.03 @ 02:05:00

Job Ticket #: 51534 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.12.04 @ 10:45:37



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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19-10s-21w Graham,KS

APO #2

Job Ticket: 51534

DST#: 1

Test Start: 2012.12.02 @ 18:25:00

GENERAL INFORMATION:

Formation: **LKC "C & D"**

Deviated: No Whipstock: 2266.00 ft (KB)

Time Tool Opened: 20:49:40

Time Test Ended: 02:05:00

Test Type: Conventional Straddle (Initial)

Tester: Jim Svaty

Unit No: 41

Interval: 3572.00 ft (KB) To 3615.00 ft (KB) (TVD)

Total Depth: 3979.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2266.00 ft (KB)

2260.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6752 Inside

Press@RunDepth: 22.03 psig @ 3573.00 ft (KB)

Start Date: 2012.12.02

End Date:

2012.12.03

Start Time: 18:25:01

End Time:

02:04:40

Capacity: 8000.00 psig

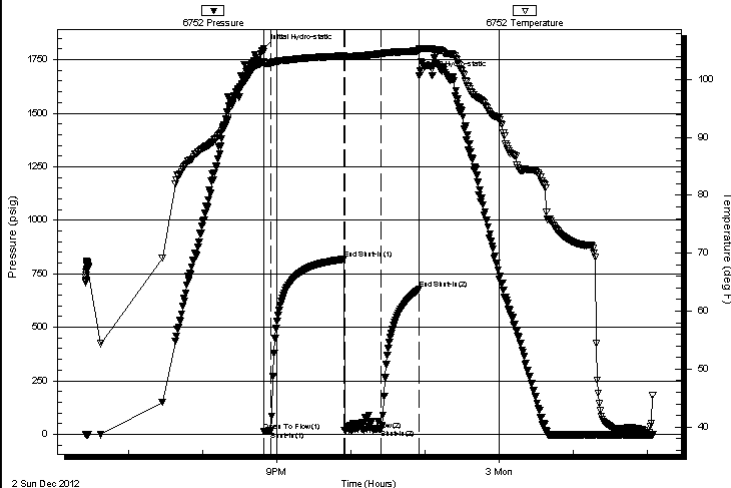
Last Calib.: 2012.12.03

Time On Btm: 2012.12.02 @ 20:49:30

Time Off Btm: 2012.12.02 @ 22:55:20

TEST COMMENT: 5-IFP- Surface Blow Building to 1"
60-ISIP- No Blow
30-FFP- Surface Blow in 2 min. Building to 1/2"
30-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

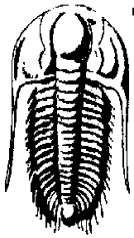
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1802.75	103.05	Initial Hydro-static
1	13.70	102.72	Open To Flow (1)
6	15.86	102.87	Shut-In(1)
65	817.91	104.08	End Shut-In(1)
66	17.09	103.93	Open To Flow (2)
95	22.03	104.48	Shut-In(2)
126	676.97	104.95	End Shut-In(2)
126	1676.57	105.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MUD 100%	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Total Depth: 3979.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2266.00 ft (KB)

2260.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8734 Below (Straddle)

Press@RunDepth: psig @ 3632.00 ft (KB)

Start Date: 2012.12.02

End Date:

2012.12.03

Start Time: 18:25:01

End Time:

02:04:30

Capacity: 8000.00 psig

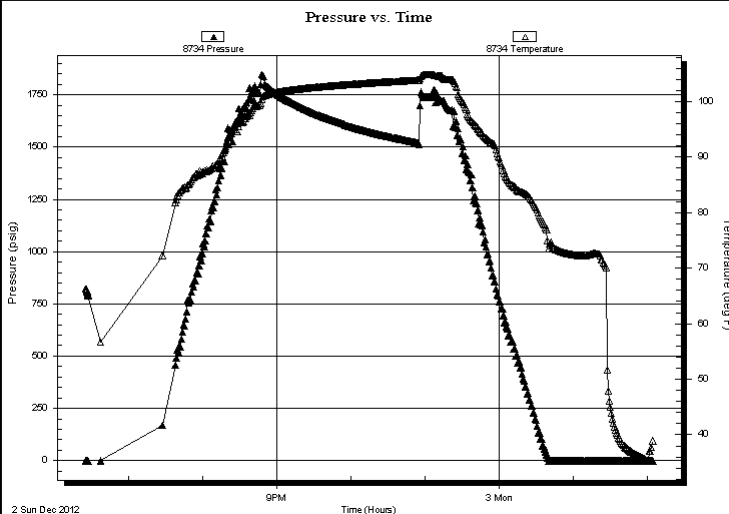
Last Calib.: 2012.12.03

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Time Off Btm:

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PRESSURE SUMMARY



Time
(Min.)

Pressure
(psig)

Temp
(deg F)

Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MUD 100%	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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APO #2

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Unit No: 41

Interval: 3572.00 ft (KB) To 3615.00 ft (KB) (TVD)

Total Depth: 3979.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2266.00 ft (KB)

2260.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 3573.00 ft (KB)

Start Date: 2012.12.02

End Date:

2012.12.03

Start Time: 18:25:01

End Time:

02:04:50

Capacity: 8000.00 psig

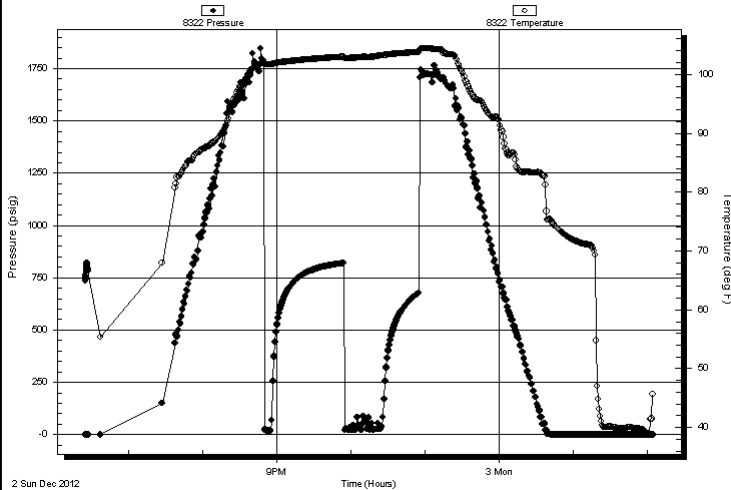
Last Calib.: 2012.12.03

Time On Btm:

Time Off Btm:

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60-ISIP- No Blow
30-FFP- Surface Blow in 2 min. Building to 1/2"
30-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
15.00	MUD 100%	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Patriot Oil LLC

19-10s-21w Graham,KS

1716 N Main St Suite A #170
Longmont, CO 80501

APO #2

Job Ticket: 51534

DST#: 1

ATTN: Randy Kilian

Test Start: 2012.12.02 @ 18:25:00

Tool Information

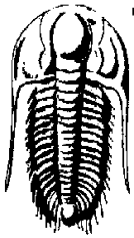
Drill Pipe:	Length:	3562.00 ft	Diameter:	3.80 inches	Volume:	49.97 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	50000.00 lb
					Total Volume:	49.97 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft					String Weight: Initial	49000.00 lb	
Depth to Top Packer:	3572.00 ft					Final	49000.00 lb	
Depth to Bottom Packer:	3615.00 ft							
Interval between Packers:	43.00 ft							
Tool Length:	429.00 ft							
Number of Packers:	2	Diameter:	6.75 inches					
Tool Comments:								

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3555.00		
Hydraulic tool	5.00			3560.00		
Safety Joint	2.00			3562.00		
Packer	5.00			3567.00	22.00	Bottom Of Top Packer
Packer	5.00			3572.00		
Stubb	1.00			3573.00		
Recorder	0.00	6752	Inside	3573.00		
Recorder	0.00	8322	Outside	3573.00		
Perforations	2.00			3575.00		
Change Over Sub	1.00			3576.00		
Blank Spacing	31.00			3607.00		
Change Over Sub	1.00			3608.00		
Perforations	3.00			3611.00		
Blank Off Sub	4.00			3615.00	43.00	Tool Interval
Packer	1.00			3616.00		
Stubb	1.00			3617.00		
Perforations	15.00			3632.00		
Recorder	0.00	8734	Below	3632.00		
Change Over Sub	1.00			3633.00		
Blank Spacing	342.00			3975.00		
Change Over Sub	1.00			3976.00		
Bullnose	3.00			3979.00	364.00	Bottom Packers & Anchor

Total Tool Length: 429.00



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FLUID SUMMARY

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APO #2

Job Ticket: 51534

DST#: 1

ATTN: Randy Kilian

Test Start: 2012.12.02 @ 18:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.79 in³

Resistivity: ohm.m

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	MUD 100%	0.210

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 #: 6752

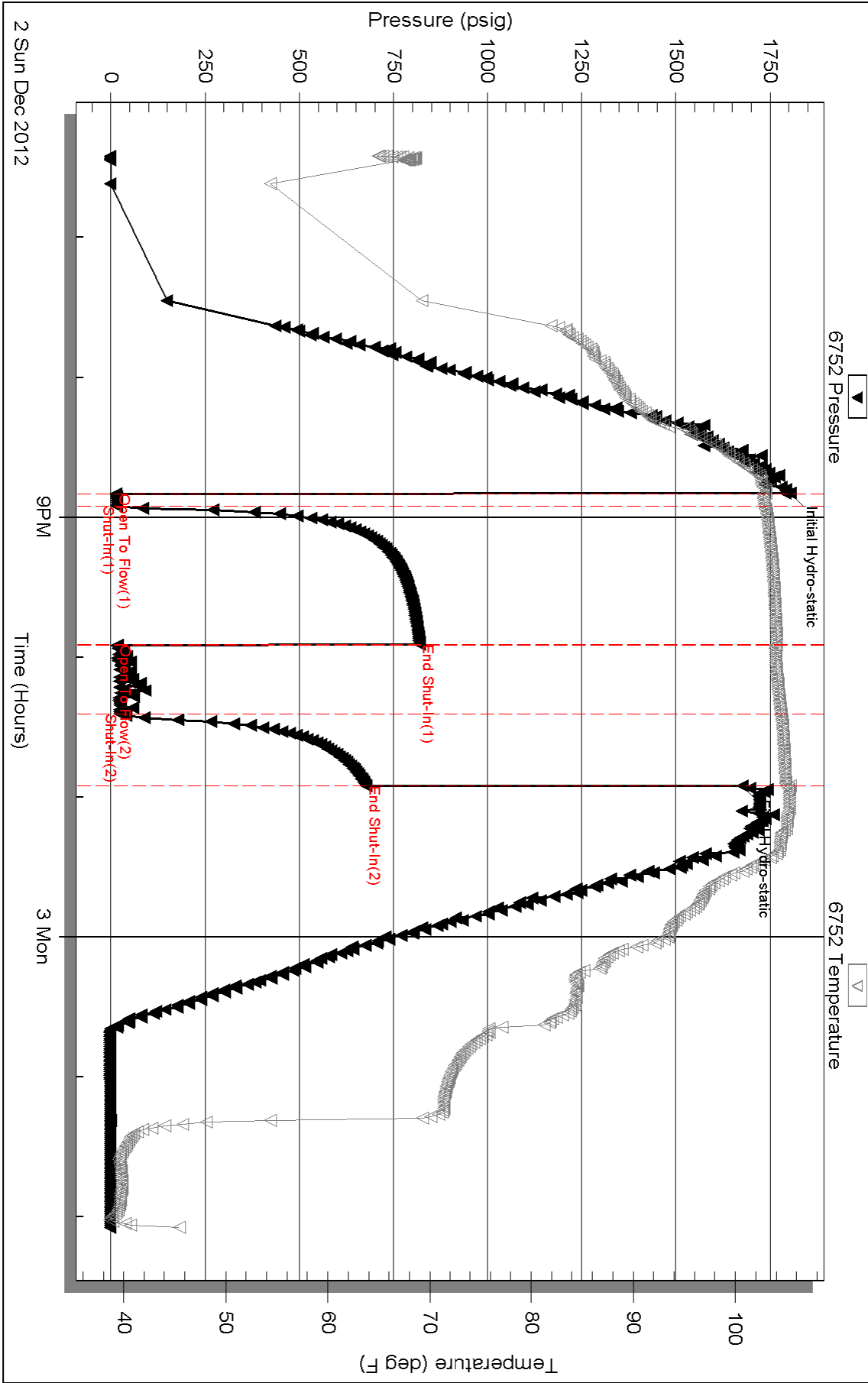
Inside

American Patriot Oil LLC

AP0#2

DST Test Number: 1

Pressure vs. Time

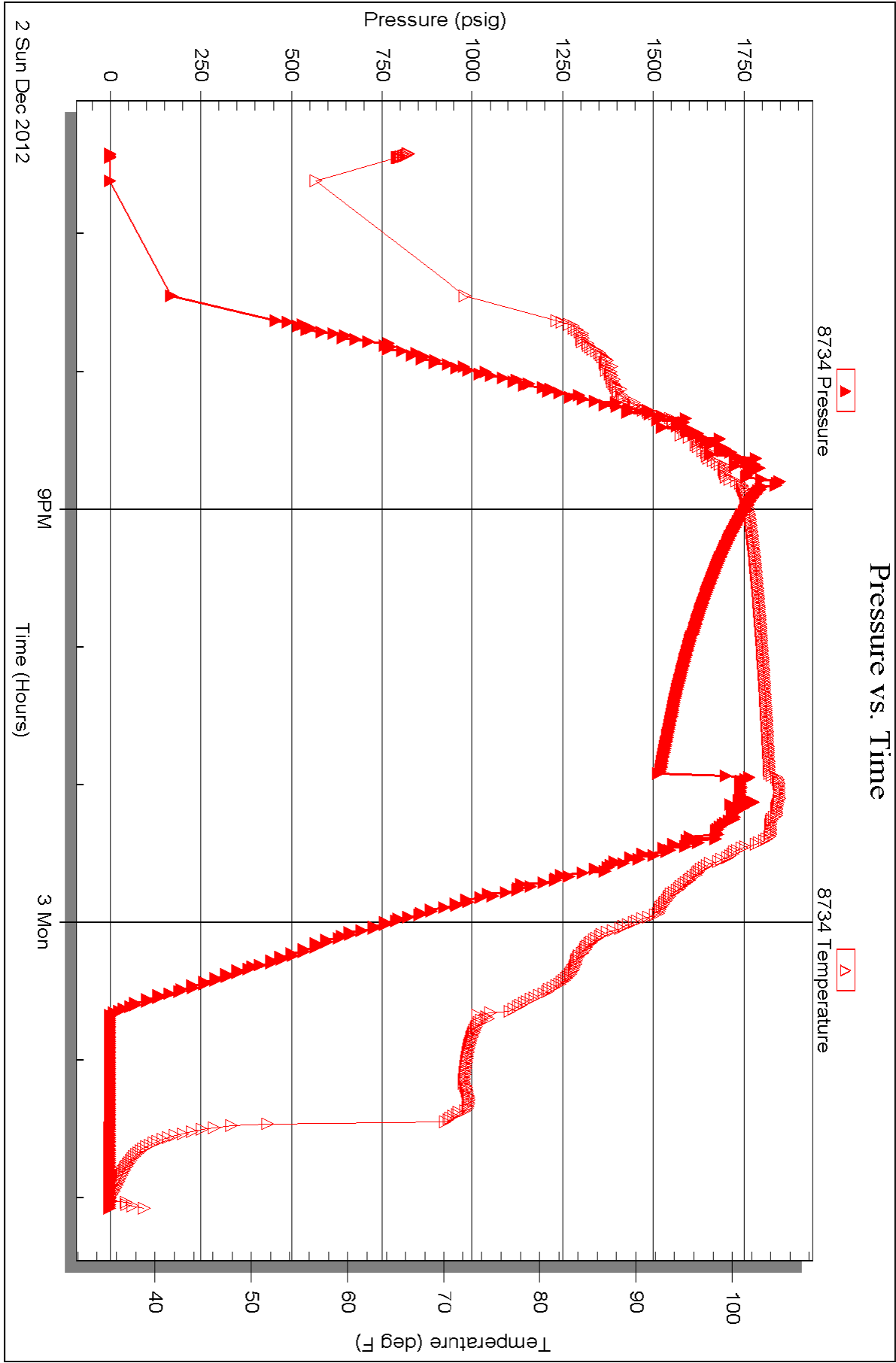


Serial #: 8734

Below (Stratton) Patriot Oil LLC

APO #2

DST Test Number: 1



Serial #: 8322

Outside American Patriot Oil LLC

AP0 #2

DST Test Number: 1

