

DRILL STEM TEST REPORT

Prepared For: **American Patriot Oil LLC.**

1716 N Main St
Suite A #170
Longmont CO 80501

ATTN: Randy Kilian

APO #1

9-10s-21w Graham,KS

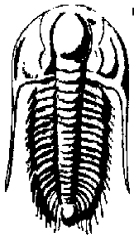
Start Date: 2012.09.16 @ 21:50:05

End Date: 2012.09.17 @ 06:00:29

Job Ticket #: 49311 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.24 @ 15:07:50



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Patriot Oil LLC.

9-10s-21w Graham,KS

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Longmont CO 80501
ATTN: Randy Kilian

APO #1

Job Ticket: 49311

DST#: 1

Test Start: 2012.09.16 @ 21:50:05

GENERAL INFORMATION:

Formation: **LKC"C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:20:30

Time Test Ended: 06:00:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: 3583.00 ft (KB) To 3630.00 ft (KB) (TVD)

Reference Elevations: 2290.00 ft (KB)

Total Depth: 3630.00 ft (KB) (TVD)

2285.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press@RunDepth: 181.74 psig @ 3590.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.16

End Date:

2012.09.17

Last Calib.: 2012.09.17

Start Time: 21:50:05

End Time:

06:00:29

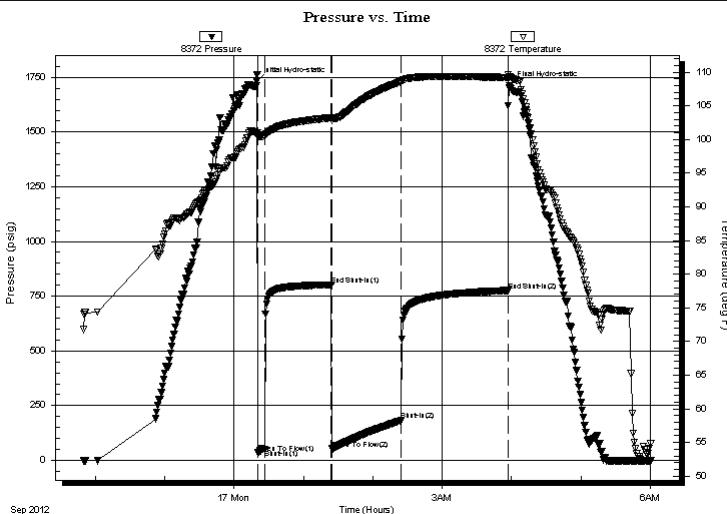
Time On Btm: 2012.09.17 @ 00:19:40

Time Off Btm: 2012.09.17 @ 03:58:20

TEST COMMENT: IF:(5min) 2" Blow
ISl:(60min) No Return
FF:(60min) 2" blow in 4 min. 4" in 9 min. Built to 7" in 28 min.
FSl:(90min) No Return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.57	100.92	Initial Hydro-static
1	34.27	100.35	Open To Flow (1)
7	49.77	100.50	Shut-In(1)
65	801.60	103.23	End Shut-In(1)
65	52.43	102.87	Open To Flow (2)
125	181.74	108.58	Shut-In(2)
218	775.87	109.20	End Shut-In(2)
219	1711.25	109.26	Final Hydro-static

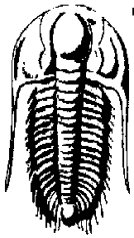


Recovery

Length (ft)	Description	Volume (bbl)
400.00	MW	5.61

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Total Depth: 3630.00 ft (KB) (TVD)

2285.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8017 Inside

Press@RunDepth: psig @ 3590.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.16

End Date:

2012.09.17

Last Calib.:

2012.09.17

Start Time: 21:50:05

End Time:

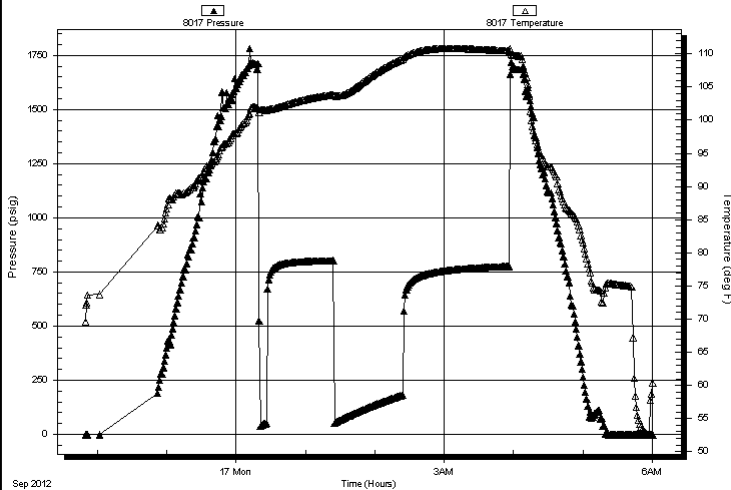
06:00:20

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(5min) 2" Blow
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Pressure vs. Time



PRESSURE SUMMARY

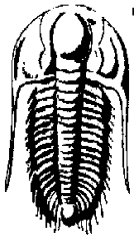
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
400.00	MW	5.61

Gas Rates

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

TOOL DIAGRAM

American Patriot Oil LLC.

9-10s-21w Graham,KS

1716 N Main St
Suite A #170
Longmont CO 80501
ATTN: Randy Kilian

APO #1

Job Ticket: 49311

DST#: 1

Test Start: 2012.09.16 @ 21:50:05

Tool Information

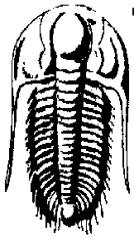
Drill Pipe:	Length:	3587.00 ft	Diameter:	3.80 inches	Volume:	50.32 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	50.32 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight: Initial	44000.00 lb
Depth to Top Packer:		3583.00 ft					Final	46000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		47.00 ft						
Tool Length:		70.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

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

Change Over Sub	1.00			3561.00	
Shut In Tool	5.00			3566.00	
Hydraulic tool	5.00			3571.00	
Safety Joint	3.00			3574.00	
Packer	5.00			3579.00	23.00 Bottom Of Top Packer
Packer	4.00			3583.00	
Stubb	1.00			3584.00	
Perforations	5.00			3589.00	
Change Over Sub	1.00			3590.00	
Recorder	0.00	8017	Inside	3590.00	
Recorder	0.00	8372	Outside	3590.00	
Drill Pipe	32.00			3622.00	
Change Over Sub	1.00			3623.00	
Perforations	4.00			3627.00	
Bullnose	3.00			3630.00	47.00 Bottom Packers & Anchor

Total Tool Length: 70.00



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FLUID SUMMARY

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APO #1

Job Ticket: 49311

DST#: 1

Test Start: 2012.09.16 @ 21:50:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 1800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 90000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
400.00	MW	5.611

Total Length: 400.00 ft Total Volume: 5.611 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

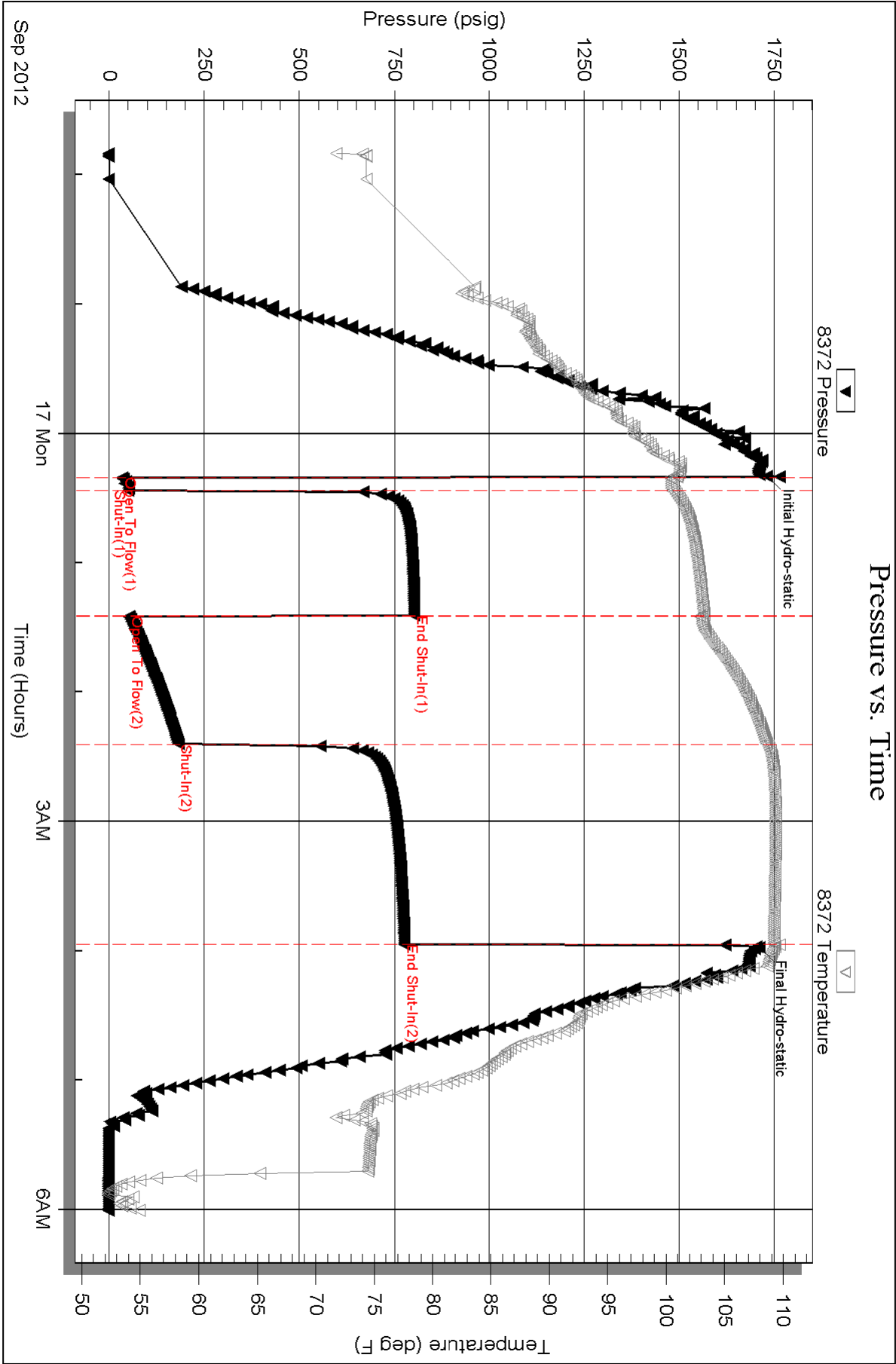
Recovery Comments:

Serial #: 8372

Outside American Patriot Oil LLC.

APO #1

DST Test Number: 1



Serial #: 8017

Inside

American Patriot Oil LLC.

AP0 #1

DST Test Number: 1

