

15-077-21647-0000
K63



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O.Box 399
Garden City, KS 67846

ATTN: Jim Dilts

3 34s 7w Harper KS

Koehlen#1-3

Koehler

Start Date: 2008.12.17 @ 22:29:33

End Date: 2008.12.18 @ 07:38:33

Job Ticket #: 33991

DST #: 1

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc.

P.O.Box 399
Garden City, KS 67846

ATTN: Jim Dilts

Koehlen#1-3

3 34s 7w Harper KS

Job Ticket: 33991

DST#: 1

Test Start: 2008.12.17 @ 22:29:33

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 01:11:18

Time Test Ended: 07:38:33

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **39**

Interval: **4612.00 ft (KB) To 4627.00 ft (KB) (TVD)**

Total Depth: **4627.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1328.00 ft (KB)**

1320.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8167

Inside

Press@RunDepth: **58.35 psig @ 4613.00 ft (KB)**

Start Date: **2008.12.17**

End Date:

2008.12.18

Capacity: **7000.00 psig**

Last Calib.:

2008.12.18

Start Time: **22:29:38**

End Time:

07:38:33

Time On Btm: **2008.12.18 @ 01:10:18**

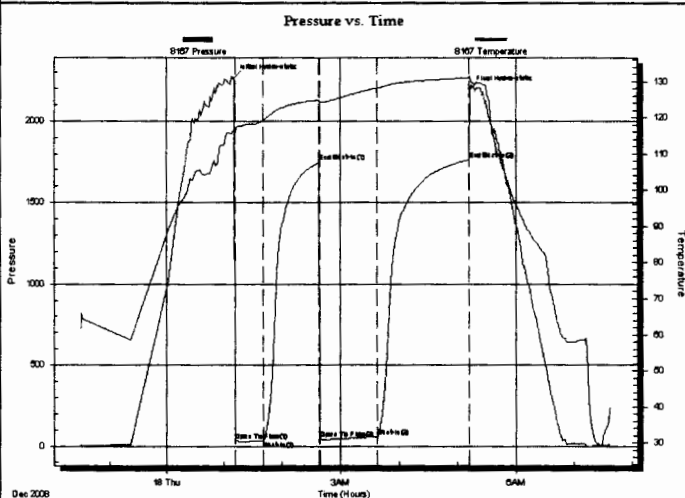
Time Off Btm: **2008.12.18 @ 05:12:17**

TEST COMMENT: IF: Strong blow . BOB in 9 1/2 mins.

ISI: No blow

FF: Strong blow . BOB in 3 mins

FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2264.55	116.51	Initial Hydro-static
1	30.79	115.88	Open To Flow (1)
30	35.08	119.17	Shut-In (1)
89	1747.97	124.85	End Shut-In (1)
90	43.77	124.21	Open To Flow (2)
148	58.35	128.16	Shut-In (2)
242	1761.67	131.04	End Shut-In (2)
242	2195.27	131.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	GOC, WM 20%g 23%o 27%w 30%m	1.19
0.00	Rw .39 ohms @ 39 deg	0.00
0.00	1340 ft. of GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

Koehlen#1-3

P.O.Box 399
Garden City, KS 67846

3 34s 7w Harper KS

Job Ticket: 33991

DST#: 1

ATTN: Jim Dilts

Test Start: 2008.12.17 @ 22:29:33

Tool Information

Drill Pipe:	Length: 4593.00 ft	Diameter: 3.80 inches	Volume: 64.43 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	81000.00 lb
			Total Volume: 64.43 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4612.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	43.00 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			4585.00	
Shut In Tool	5.00			4590.00	
Hydraulic tool	5.00			4595.00	
Jars	5.00			4600.00	
Safety Joint	3.00			4603.00	
Packer	4.00			4607.00	28.00 Bottom Of Top Packer
Packer	5.00			4612.00	
Stubb	1.00			4613.00	
Recorder	0.00	8167	Inside	4613.00	
Recorder	0.00	8370	Inside	4613.00	
Perforations	9.00			4622.00	
Jars	5.00			4627.00	15.00 Bottom Packers & Anchor

Total Tool Length: 43.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

Koehlen#1-3

P.O.Box 399
Garden City, KS 67846

3 34s 7w Harper KS

Job Ticket: 33991

DST#: 1

ATTN: Jim Dilts

Test Start: 2008.12.17 @ 22:29:33

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.58 in³

Resistivity: 0.00 ohm.m

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API: deg API

Water Salinity: 31000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	GOC,WM 20%g 23%o 27%w 30%m	1.192
0.00	Rw .39 ohms @ 39 deg	0.000
0.00	1340 ft. of GIP	0.000

Total Length: 85.00 ft

Total Volume: 1.192 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

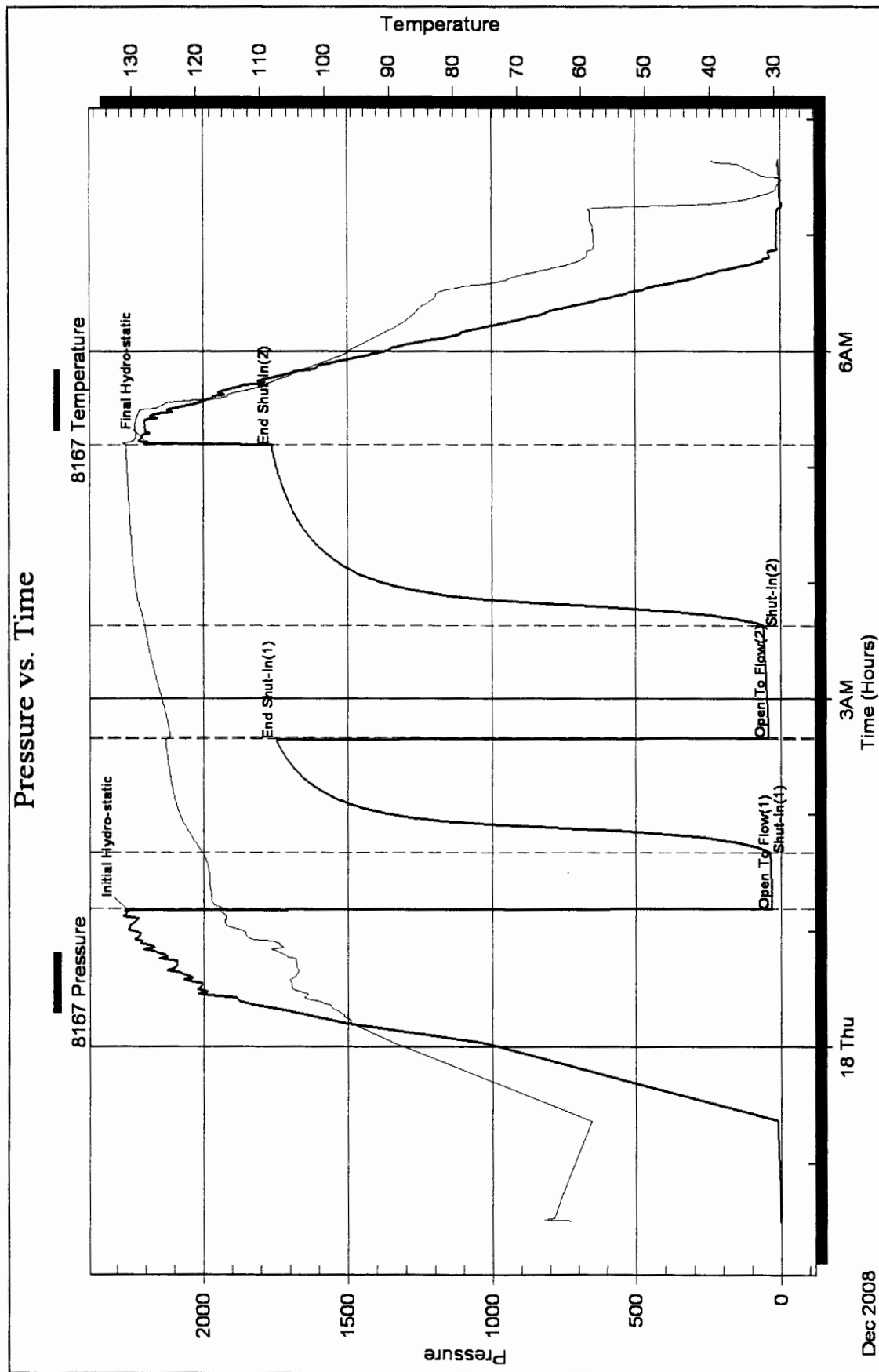
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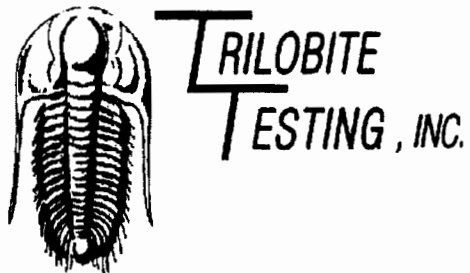
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O.Box 399
Garden City, KS 67846

ATTN: Jim Dilts

3 34s 7w Harper KS

Koehlen#1-3

Start Date: 2008.12.19 @ 21:08:00

End Date: 2008.12.20 @ 07:25:49

Job Ticket #: 35029 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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DRILL STEM TEST REPORT

American Warrior Inc.

P.O.Box 399
Garden City, KS 67846

ATTN: Jim Dilts

Koehlen#1-3

3 34s 7w Harper KS

Job Ticket: 35029

DST#: 2

Test Start: 2008.12.19 @ 21:08:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:48:50

Time Test Ended: 07:25:49

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **5025.00 ft (KB) To 5046.00 ft (KB) (TVD)**

Total Depth: 5046.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1328.00 ft (KB)

1320.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8352

Inside

Press@RunDepth: 366.31 psig @ 5026.00 ft (KB)

Start Date: 2008.12.19

End Date: 2008.12.20

Capacity: 7000.00 psig

Last Calib.: 2008.12.20

Start Time: 21:08:02

End Time: 07:25:49

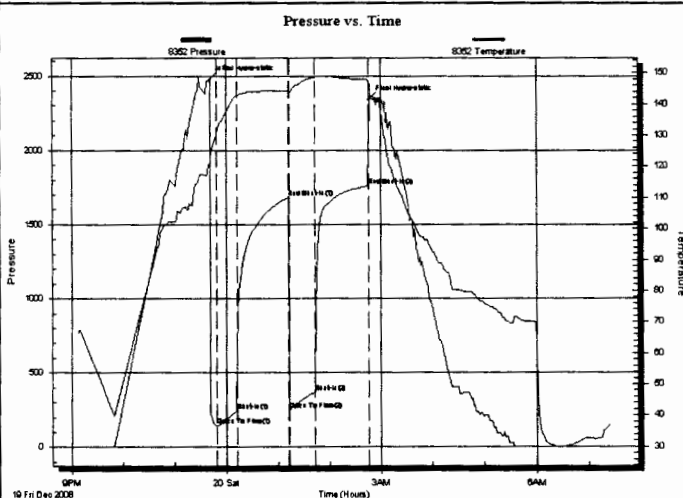
Time On Btm: 2008.12.19 @ 23:41:40

Time Off Btm: 2008.12.20 @ 02:46:30

TEST COMMENT: IF: Very strong blow, BOB 15 seconds. GTS 4 min 45 sec.

ISI: Bled off for 13 minutes, BOB 2 minutes later, dripping condensate @ flow line.

FF: Strong blow, BOB 2 min 15 sec. (Gas was TSTM during fin



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2476.94	120.81	Initial Hydro-static
8	144.65	130.08	Open To Flow (1)
30	243.00	142.61	Shut-In (1)
91	1682.09	144.19	End Shut-In (1)
92	248.78	143.61	Open To Flow (2)
121	366.31	148.60	Shut-In (2)
184	1757.96	147.77	End Shut-In (2)
185	2341.20	145.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
365.00	Gassy clean oil 25%g 75%o	5.12
125.00	HGCSWCCM 50%g 5%w 10%o 35%in	1.75
60.00	OSMCW 2%o 25%in 73%w	0.84
315.00	Salt Water 100%w	4.42
0.00	RW=.25@35degF=62000ppmCHL	0.00
0.00	Oil=42 gravity corrected	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	4.00	287.41
Last Gas Rate	0.38	14.00	104.04
Max. Gas Rate	0.38	14.00	104.04



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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

P.O.Box 399
Garden City, KS 67846

ATTN: Jim Dilts

Koehlen#1-3

3 34s 7w Harper KS

Job Ticket: 35029

DST#: 2

Test Start: 2008.12.19 @ 21:08:00

Tool Information

Drill Pipe:	Length: 5007.00 ft	Diameter: 3.80 inches	Volume: 70.24 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	66000.00 lb
		Total Volume:	70.24 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	5025.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	49.00 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			5002.00	
Hydraulic tool	5.00			5007.00	
Jars	5.00			5012.00	
Safety Joint	3.00			5015.00	
Packer	5.00			5020.00	28.00 Bottom Of Top Packer
Packer	5.00			5025.00	
Stubb	1.00			5026.00	
Recorder	0.00	8352	Inside	5026.00	
Recorder	0.00	6799	Inside	5026.00	
Perforations	17.00			5043.00	
Bullnose	3.00			5046.00	21.00 Bottom Packers & Anchor
Total Tool Length:		49.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

Koehlen#1-3

P.O.Box 399
Garden City, KS 67846

3 34s 7w Harper KS

Job Ticket: 35029

DST#: 2

ATTN: Jim Dilts

Test Start: 2008.12.19 @ 21:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 9.57 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 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
365.00	Gassy clean oil 25%g 75%o	5.120
125.00	HGCSWCCCM 50%g 5%w 10%o 35%m	1.753
60.00	OSMCW 2%o 25%m 73%w	0.842
315.00	Salt Water 100%w	4.419
0.00	RW=.25@35degF=62000ppmCHL	0.000
0.00	Oil=42 gravity corrected	0.000

Total Length: 865.00 ft

Total Volume: 12.134 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: 12# LCM



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DRILL STEM TEST REPORT

GAS RATES

American Warrior Inc.

Koehlen#1-3

P.O.Box 399
Garden City, KS 67846

3 34s 7w Harper KS

Job Ticket: 35029

DST#: 2

ATTN: Jim Dilts

Test Start: 2008.12.19 @ 21:08:00

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	8	0.75	4.00	287.41
1	8	0.75	4.00	287.41
1	15	0.38	12.00	96.71
1	20	0.38	14.00	104.04
1	30	0.38	14.00	104.04

Serial #: 8352

Inside

American Warrior Inc.

3 34s 7w Harper KS

DST Test Number: 2

