

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4058  
Name: American Warrior Inc.  
Address 1: P.O. Box 399  
Address 2: \_\_\_\_\_  
City: Garden City State: Ks. Zip: 67846 + \_\_\_\_\_  
Contact Person: Jody Smith  
Phone: ( 620 ) 275-2963  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co.Inc.  
Wellsite Geologist: Jason Alm  
Purchaser: Plains Marketing LP.

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

1/19/12	1/28/12	2/8/12
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 083-21745 - 0000  
Spot Description: \_\_\_\_\_  
NE NW SW SE Sec. 4 Twp. 24 S. R. 21  East  West  
1,234 Feet from  North /  South Line of Section  
2,152 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Hodgeman  
Lease Name: Gleason Well #: 1-4  
Field Name: Saw Log Creek Southeast  
Producing Formation: Altamont  
Elevation: Ground: 2356' Kelly Bushing: 2367  
Total Depth: 4660 Plug Back Total Depth: 4626  
Amount of Surface Pipe Set and Cemented at: 221 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1432' Feet  
If Alternate II completion, cement circulated from: 1432'  
feet depth to: surface w/ 115 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 14,000 ppm Fluid volume: 50 bbls  
Dewatering method used: Evaporation  
Location of fluid disposal if hauled offsite:  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R.  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]  
Title: Foreman Date: 2/9/12

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Dg Date: 2/13/12

Operator Name: American Warrior Inc. Lease Name: Gleason Well #: 1-4  
 Sec. 4 Twp. 24 S. R. 21  East  West County: Hodgeman

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>CNL/CDL,DIL,MEL,BHCS</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhy</td> <td>1444'</td> <td>+923</td> </tr> <tr> <td>B/Anhy</td> <td>1474'</td> <td>+893</td> </tr> <tr> <td>Heebner</td> <td>3951'</td> <td>-1584</td> </tr> <tr> <td>Lansing</td> <td>4048'</td> <td>-1681</td> </tr> <tr> <td>B/KC</td> <td>4392'</td> <td>-2025</td> </tr> <tr> <td>Marm</td> <td>4410'</td> <td>-2043</td> </tr> <tr> <td>Osage</td> <td>4652'</td> <td>-2285</td> </tr> </table>	Name	Top	Datum	Anhy	1444'	+923	B/Anhy	1474'	+893	Heebner	3951'	-1584	Lansing	4048'	-1681	B/KC	4392'	-2025	Marm	4410'	-2043	Osage	4652'	-2285
Name	Top	Datum																							
Anhy	1444'	+923																							
B/Anhy	1474'	+893																							
Heebner	3951'	-1584																							
Lansing	4048'	-1681																							
B/KC	4392'	-2025																							
Marm	4410'	-2043																							
Osage	4652'	-2285																							

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	121/4	85/8	23#	221'	Common	150sx	3%CC,2%gel
Production	77/8	51/2	17#	4652'	EA-2	125sx	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4429'to 4439'	None	4429

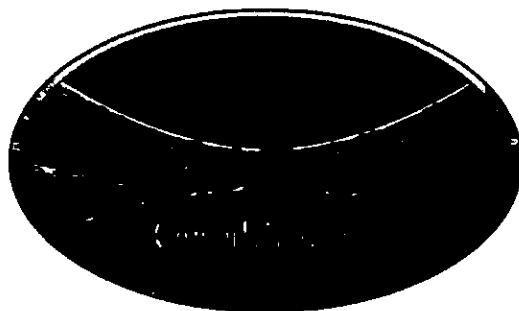
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TUBING RECORD: Size: <u>23/8</u> Set At: <u>4622'</u> Packer At: <u>None</u>		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	KCC WICHITA
Date of First, Resumed Production, SWD or ENHR. <u>2/9/12</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>NA</u>	Gas Mcf	Water Bbls. <u>NA</u>
			Gas-Oil Ratio
			Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4429'to 4439'</u>
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# **Geological Report**

American Warrior Inc.  
**Gleason #1-4**  
1234' FSL & 2152' FEL  
Sec. 4 T24s R21w  
Hodgeman County, Kansas



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**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Gleason #1-4  
1234' FSL & 2152' FEL  
Sec. 4 T24s R21w  
Hodgeman County, Kansas  
API # 15-083-21745-0000

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Jason Alm, Austin Klaus

Spud Date: January 19, 2012

Completion Date: January 28, 2012

Elevation: 2356' Ground Level  
2367' Kelly Bushing

Directions: Hanston KS, 8 mi. South on Spearville Rd. 4 mi.  
East on H Rd. 2 mi. South on 232 Rd. ½ mi. East on  
F Rd. North into location.

Casing: 221' 8 5/8" surface casing  
4652' 5 1/2" production casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3800' to RTD

Electric Logs: Log Tech, Inc. "Chris DeSaire"  
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: Two, Trilobite Testing, Inc. "Chris Staats, Leal  
Cason"

Problems: None

Remarks: Packer Shoe set @ 4652'. After DST #1 gas  
detection wasn't viable due to high oil content in  
drilling mud. Bar was dropped on fluid from DST  
#1 and circulated into a tank truck, 35 bbls. was  
recovered

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## Formation Tops

Formation	American Warrior, Inc. Gleason #1-4 Sec. 4 T24s R21w 1234' FSL & 2152' FEL
Anhydrite	1444', +923
Base	1474', +893
Heebner	3951', -1584
Douglas	3976', -1609
Lansing	4048', -1681
Stark	4285', -1918
BKc	4392', -2025
Marmaton	4410', -2043
Pawnee	4521', -2154
Fort Scott	4564', -2197
Cherokee	4590', -2223
Mississippian	4638', -2271
Osage	4652', -2285
RTD	4660', -2293
LTD	4662', -2295

## Sample Zone Descriptions

- Altamont "A"** (4410', -2043): Covered in DST #1  
 Ls – Fine to medium crystalline with scattered fair vuggy and poor inter-crystalline porosity, light to fair oil stain in porosity, good show of free oil on cup, good yellow cut fluorescents, good odor, 140 units hotwire.
- Warsaw** (4638', -2271): Covered in DST #2  
 Dolo – Fine sucrosic crystalline with scattered poor vuggy porosity, light oil stain in porosity, slight show of free oil when broken, fair yellow fluorescents, light odor.
- Osage** (4652', -2285): Covered in DST #2  
 Δ – Dolo – Fine sucrosic crystalline with poor to fair vuggy porosity, heavy trip chert, heavily weathered with poor to excellent vuggy porosity, light to good oil stain, show of free oil, very good yellow fluorescents, good odor, few pieces of granular chert.

**Drill Stem Tests**  
Trilobite Testing Inc.  
"Chris Staats, Leal Cason"

**DST #1**

**Altamont "A"**

Interval (4403' - 4475') Anchor Length 72'

IHP	- 2277 #	
IFP	- 30" - B.O.B. 30 sec. GTS 18 min.	631-1145 #
ISI	- 45" - B.O.B. 5 min.	1404 #
FFP	- 45" - B.O.B. 2 sec.	1206-1390 #
FSI	- 60" - B.O.B. 1 min.	1406 #
FHP	- 2116 #	
BHT	- 123°F	

Recovery:	3724' GCO	Gravity 38° API
	120' GMCO	60% Oil

**DST #2**

**Mississippian Osage**

Interval (4608' - 4660') Anchor Length 52'

IHP	- 2302 #	
IFP	- 15" - B.O.B. 3 min.	108-245 #
ISI	- 30" - Built to 1 in.	1416 #
FFP	- 15" - B.O.B. 1 min.	270-369 #
FSI	- 30" - Built to 1 in.	1417 #
FHP	- 2236 #	
BHT	- 127°F	

Recovery:	600' GCO	Gravity 37° API
	180' GOCM	20% Oil
	180' GOWCM	20% Oil, 26% Water

## Structural Comparison

Formation	American Warrior, Inc.	Colorado Oil and Gas		RAM Petroleum	
	Gleason #1-4 Sec. 4 T24s R21w 1234' FSL & 2152' FEL	Gleason #1 Sec. 4 T24s R21w C SW SE		Burke #1 Sec. 4 T24s R21w 1980' FSL & 3300' FEL	
Anhydrite	1444', +923	1441', +923	FL	NA	NA
Base	1474', +893	NA	NA	NA	NA
Heebner	3951', -1584	3948', -1584	FL	3978', -1608	(+24)
Douglas	3976', -1609	3976', -1612	(+3)	NA	NA
Lansing	4048', -1681	4048', -1684	(+3)	4081', -1711	(+30)
Stark	4285', -1918	4284', -1920	(+2)	NA	NA
BKc	4392', -2025	4395', -2031	(+6)	NA	NA
Marmaton	4410', -2043	4415', -2051	(+8)	NA	NA
Pawnee	4521', -2154	4526', -2162	(+8)	NA	NA
Fort Scott	4564', -2197	4571', -2206	(+9)	4598', -2228	(+31)
Cherokee	4590', -2223	4596', -2232	(+9)	4624', -2254	(+31)
Mississippian	4638', -2271	4656', -2292	(+21)	4668', -2298	(+27)
Osage	4652', -2285	4668', -2304	(+19)	4690', -2320	(+35)

### Summary

The location for the Gleason #1-4 well was found via 3-D seismic survey. The new well ran structurally higher than expected via the survey. Two drill stem tests were conducted both of which recovered commercial amounts of oil. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Gleason #1-4 well.

### Recommended Perforations

**Primary:**

**Mississippian Osage**

**Open Hole:**

**Altamont "A"**

**(4652' - 4662')**

**(4429' - 4439')**

**DST #2**

**DST #1**

**Before Abandonment:**

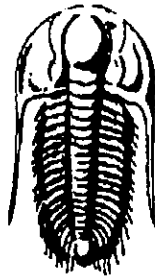
**Mississippian Warsaw**

**(4638' - 4648')**

**DST #2**

Respectfully Submitted,

Jason T. Alm  
Hard Rock Consulting, Inc.



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm/Austin Kla

**Gleason #1-4**

**4-24s-21w Hodgeman,KS**

Start Date: 2012.01.25 @ 18:46:37

End Date: 2012.01.26 @ 07:09:52

Job Ticket #: 47451                      DST #: 1

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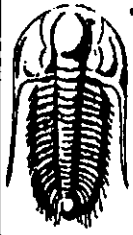
PO Box 362 Hays, KS 67601

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

Printed: 2012.02.01 @ 09:44:14

American Warrior Inc  
4-24s-21w Hodgeman,KS  
Gleason #1-4  
DST # 1  
Marmaton  
2012.01.25





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

American Warrior Inc  
PO Box 399  
Garden City, KS 67846

4-24s-21w Hodgeman, KS

Gleason #1-4

Job Ticket: 47451

DST#: 1

ATTN: Jason Alm/Austin Kla

Test Start: 2012.01.25 @ 18:46:37

### GENERAL INFORMATION:

Formation: **Marmaton**

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

Time Tool Opened: 21:59:37

Time Test Ended: 07:09:52

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Chris Staats**

Unit No: **47**

Interval: **4403.00 ft (KB) To 4475.00 ft (KB) (TVD)**

Total Depth: **4475.00 ft (KB) (TVD)**

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

Reference Elevations: **2367.00 ft (KB)**

**2356.00 ft (CF)**

KB to GR/CF: **11.00 ft**

Serial #: **6773**

**Outside**

Press@RunDepth: **1390.49 psig @ 4404.00 ft (KB)**

Start Date: **2012.01.25**

End Date:

**2012.01.26**

Capacity: **8000.00 psig**

Last Calib.:

**2012.01.26**

Start Time: **18:46:42**

End Time:

**07:09:52**

Time On Btm

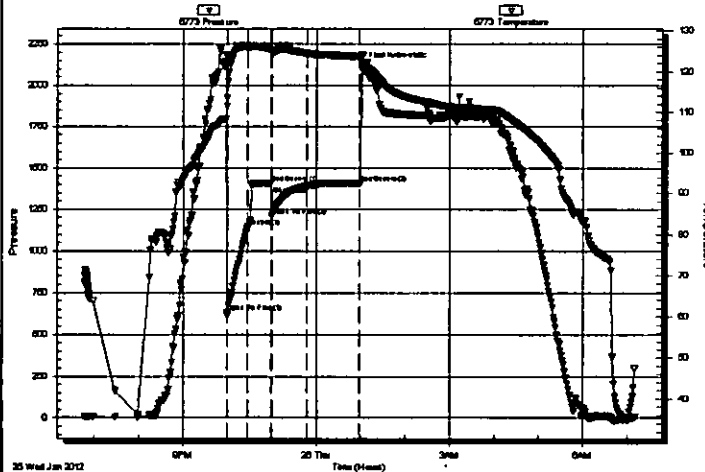
**2012.01.25 @ 21:58:07**

Time Off Btm

**2012.01.26 @ 01:00:52**

TEST COMMENT: IF: Strong blow BOB 30 sec GTS 18 min  
IS: Strong blow BOB 5 min  
FF: Strong blow BOB 2 sec  
FS: Strong blow BOB min Dropped the bar reversed out

Pressure vs. Time



### PRESSURE SUMMARY

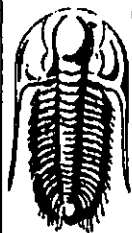
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2177.79	108.32	Initial Hydro-static
2	630.83	113.42	Open To Flow (1)
30	1145.38	126.01	Shut-In(1)
60	1404.80	125.38	End Shut-In(1)
62	1206.41	124.86	Open To Flow (2)
110	1390.49	124.50	Shut-In(2)
180	1406.11	123.71	End Shut-In(2)
183	2116.72	124.04	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	4388' GIP	0.00
3724.00	O,G 40% gas 60% oil	49.76
120.00	O,M,G 10% gas 30% mud 60% oil	1.68

### Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

American Warrior Inc

4-24s-21w Hodgeman, KS

PO Box 399  
Garden City, KS 67846

Gleason #1-4

Job Ticket: 47451

DST#: 1

ATTN: Jason Alm/Austin Kla

Test Start: 2012.01.25 @ 18:46:37

### GENERAL INFORMATION:

Formation: **Marmaton**

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

Time Tool Opened: 21:59:37

Time Test Ended: 07:09:52

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Chris Staats**

Unit No: **47**

Interval: **4403.00 ft (KB) To 4475.00 ft (KB) (TVD)**

Total Depth: **4475.00 ft (KB) (TVD)**

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

Reference Elevations: **2367.00 ft (KB)**

**2356.00 ft (CF)**

KB to GR/CF: **11.00 ft**

Serial #: **8676**

Outside

Press@RunDepth: psig @ **4404.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.01.25**

End Date:

**2012.01.26**

Last Calib.:

**2012.01.26**

Start Time: **18:43:08**

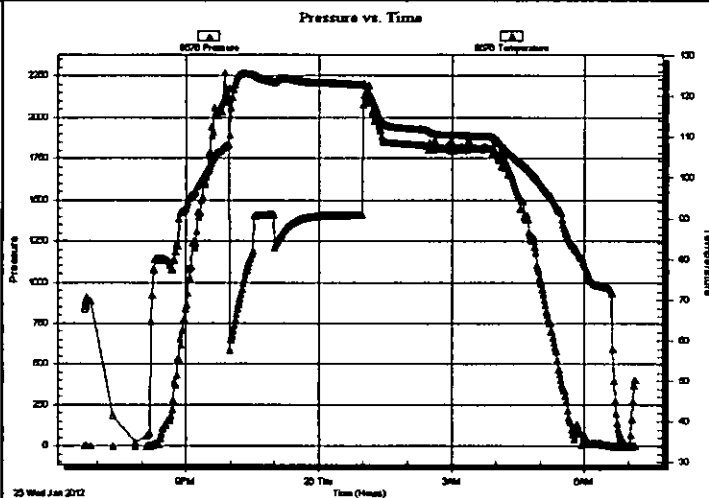
End Time:

**07:08:18**

Time On Btm

Time Off Btm

TEST COMMENT: IF: Strong blow BOB 30 sec GTS 18 min  
IS: Strong blow BOB 5 min  
FF: Strong blow BOB 2 sec  
FS: Strong blow BOB min Dropped the bar reversed out



### PRESSURE SUMMARY

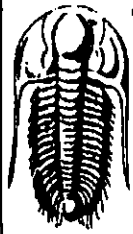
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	4388' GIP	0.00
3724.00	O,G 40% gas 60% oil	49.76
120.00	O,M,G 10% gas 30% mud 60% oil	1.68

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc

4-24s-21w Hodgeman, KS

PO Box 399  
Garden City, KS 67846

Gleason #1-4

Job Ticket: 47451

DST#: 1

ATTN: Jason Alm/Austin Kla

Test Start: 2012.01.25 @ 18:46:37

### Tool Information

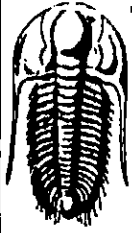
Drill Pipe:	Length: 4116.00 ft	Diameter: 3.80 inches	Volume: 57.74 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 272.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 59.08 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4403.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4375.00	
Shut In Tool	5.00			4380.00	
Hydraulic tool	5.00			4385.00	
Jars	5.00			4390.00	
Safety Joint	3.00			4393.00	
Packer	5.00			4398.00	29.00 Bottom Of Top Packer
Packer	5.00			4403.00	
Stubb	1.00			4404.00	
Recorder	0.00	6773	Outside	4404.00	
Recorder	0.00	8676	Outside	4404.00	
Change Over Sub	0.50			4404.50	
Drill Pipe	31.00			4435.50	
Change Over Sub	0.50			4436.00	
Perforations	36.00			4472.00	
Bullnose	3.00			4475.00	72.00 Bottom Packers & Anchor

**Total Tool Length: 101.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

4-24s-21w Hodgeman,KS

PO Box 399  
Garden City, KS 67846

Gleason #1-4

Job Ticket: 47451

DST#: 1

ATTN: Jason Alm/Austin Kla

Test Start: 2012.01.25 @ 18:46:37

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	4388' GP	0.000
3724.00	O,G 40% gas 60% oil	49.760
120.00	O,M,G 10% gas 30% mud 60% oil	1.683

Total Length: 3844.00 ft

Total Volume: 51.443 bbl

Num Fluid Samples: 0

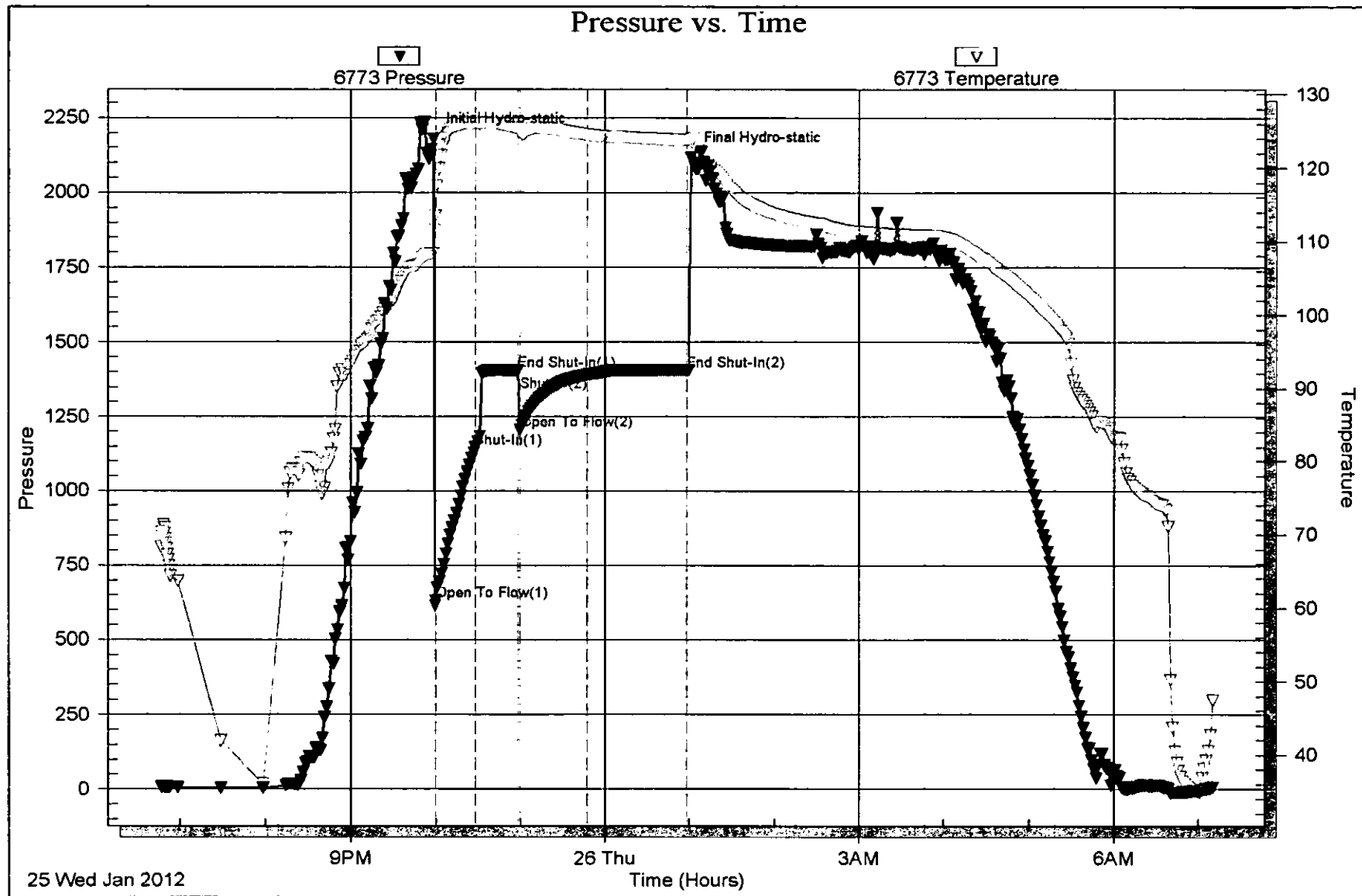
Num Gas Bombs: 0

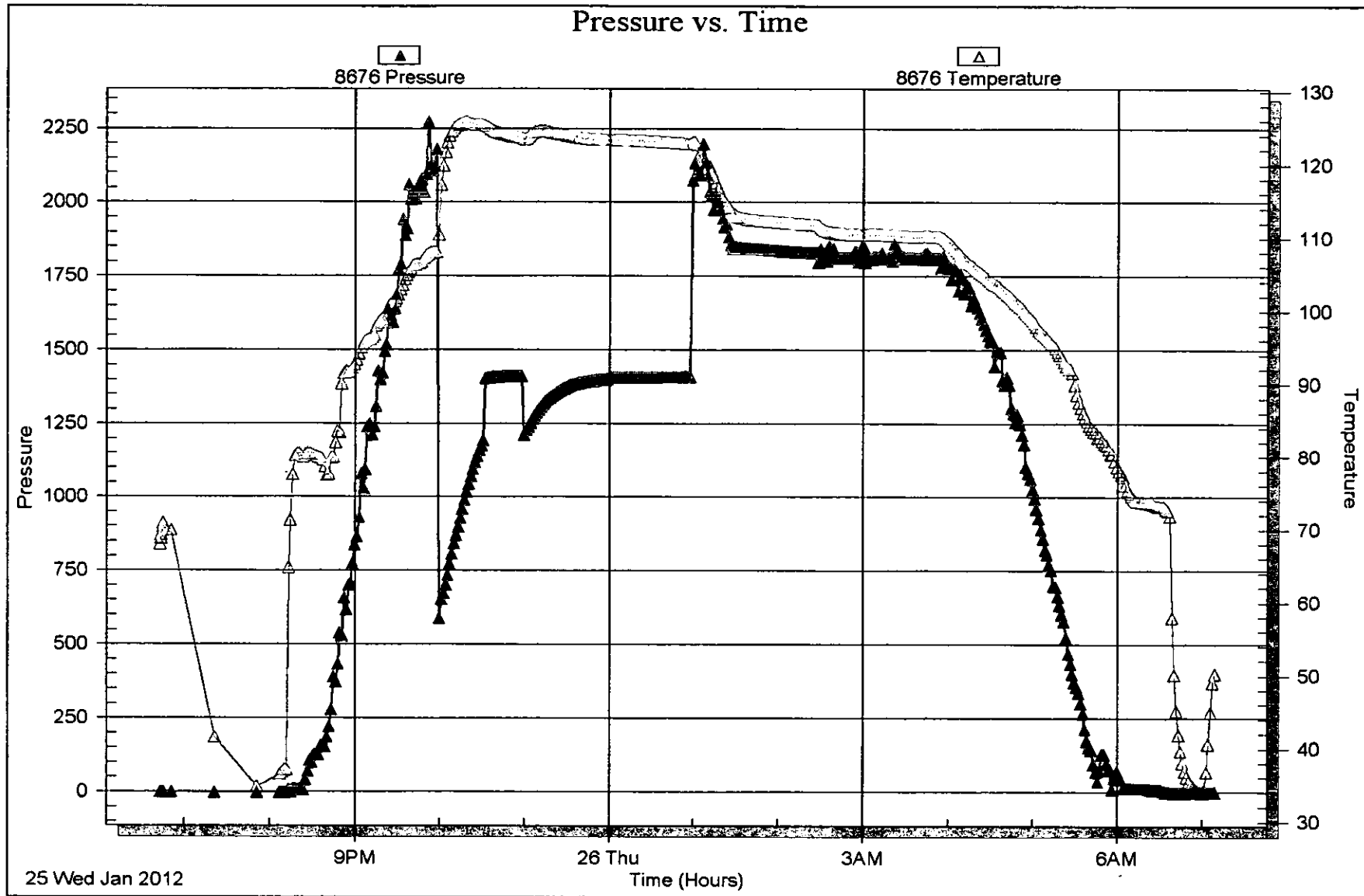
Serial #:

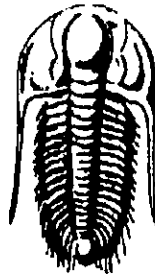
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm/Austin Kla

**Gleason #1-4**

**4-24s-21w Hodgeman,KS**

Start Date: 2012.01.27 @ 02:20:15

End Date: 2012.01.27 @ 09:07:45

Job Ticket #: 44145                      DST #: 2

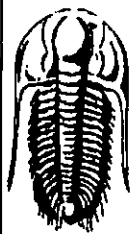
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.01 @ 09:06:22

American Warrior Inc  
4-24s-21w Hodgeman,KS  
Gleason #1-4  
DST # 2  
Mississippi  
2012.01.27



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

American Warrior Inc

4-24s-21w Hodgeman, KS

PO Box 399  
Garden City, KS 67846

**Gleason #1-4**

Job Ticket: 44145

DST#: 2

ATTN: Jason Alm/Austin Kla

Test Start: 2012.01.27 @ 02:20:15

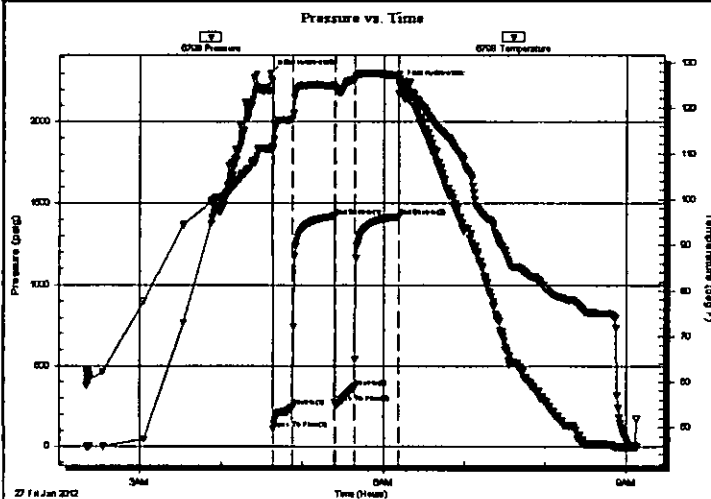
### GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 04:38:15  
 Time Test Ended: 09:07:45  
 Interval: **4608.00 ft (KB) To 4660.00 ft (KB) (TVD)**  
 Total Depth: **4660.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Leal Cason**  
 Unit No: **45**  
 Reference Elevations: **2367.00 ft (KB)**  
**2356.00 ft (CF)**  
**KB to GRVCF: 11.00 ft**

**Serial #: 6798** Inside  
 Press@RunDepth: **369.64 psig @ 4609.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2012.01.27** End Date: **2012.01.27** Last Calib.: **2012.01.27**  
 Start Time: **02:20:16** End Time: **09:07:45** Time On Btm: **2012.01.27 @ 04:36:00**  
 Time Off Btm: **2012.01.27 @ 06:11:45**

**TEST COMMENT:** IF: Strong Blow, BOB in 3 minutes  
 St: 1 inch Blow back  
 FF: Strong Blow, BOB in 1 minute  
 St: 1 inch Blow back

### PRESSURE SUMMARY



Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.34	110.89	Initial Hydro-static
3	108.84	111.10	Open To Flow (1)
17	245.08	117.58	Shut-In(1)
48	1416.13	124.80	End Shut-In(1)
49	270.27	124.17	Open To Flow (2)
63	369.64	126.23	Shut-In(2)
95	1417.77	127.13	End Shut-In(2)
96	2235.60	126.28	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOWCM 20%G 20%O 26%W 34%M	0.89
180.00	GOCM 20%G 20%O 60%M	1.69
600.00	Gassy Oil 20%G 80%O	8.42

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

American Warrior Inc

4-24s-21w Hodgeman, KS

PO Box 399  
Garden City, KS 67846

Gleason #1-4

Job Ticket: 44145

DST#: 2

ATTN: Jason Alm/Austin Kla

Test Start: 2012.01.27 @ 02:20:15

### GENERAL INFORMATION:

Formation: **Mississippi**

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

Time Tool Opened: 04:38:15

Time Test Ended: 09:07:45

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Leal Cason**

Unit No: **45**

Interval: **4608.00 ft (KB) To 4660.00 ft (KB) (TVD)**

Total Depth: **4660.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2367.00 ft (KB)**

**2356.00 ft (CF)**

KB to GR/CF: **11.00 ft**

Serial #: **8367**

Outside

Press@RunDepth: **psig @ 4609.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.01.27**

End Date:

**2012.01.27**

Last Calib.:

**2012.01.27**

Start Time: **02:20:31**

End Time:

**09:08:00**

Time On Btm

Time Off Btm

**TEST COMMENT:** IF: Strong Blow, BOB in 3 minutes  
St 1 inch Blow back  
FF: Strong Blow, BOB in 1 minute  
St 1 inch Blow back

Pressure vs. Time



### PRESSURE SUMMARY

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

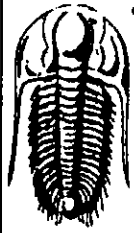
### Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOWCM 20%G 20%O 26%W 34%M	0.89
180.00	GOCM 20%G 20%O 60%M	1.69
600.00	Gassy Oil 20%G 80%O	8.42

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc  
PO Box 399  
Garden City, KS 67846

4-24s-21w Hodgeman, KS

Gleason #1-4

Job Ticket: 44145

DST#: 2

ATTN: Jason Alm/Austin Kla

Test Start: 2012.01.27 @ 02:20:15

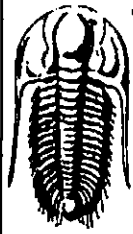
### Tool Information

Drill Pipe:	Length: 4331.00 ft	Diameter: 3.80 inches	Volume: 60.75 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: 272.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.09 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4608.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 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			4586.00	
Hydraulic tool	5.00			4591.00	
Jars	5.00			4596.00	
Safety Joint	2.00			4598.00	
Packer	5.00			4603.00	27.00 Bottom Of Top Packer
Packer	5.00			4608.00	
Stubb	1.00			4609.00	
Recorder	0.00	6798	Inside	4609.00	
Recorder	0.00	8367	Outside	4609.00	
Perforations	10.00			4619.00	
Change Over Sub	1.00			4620.00	
Drill Pipe	31.00			4651.00	
Change Over Sub	1.00			4652.00	
Perforations	5.00			4657.00	
Bullnose	3.00			4660.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior Inc

4-24s-21w Hodgeman, KS

PO Box 399  
Garden City, KS 67846

**Gleason #1-4**

Job Ticket: 44145

**DST#: 2**

ATTN: Jason Alm/Austin Kla

Test Start: 2012.01.27 @ 02:20:15

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbbl
180.00	GOWCM 20%G 20%O 26%W 34%M	0.885
180.00	GOCM 20%G 20%O 60%M	1.687
600.00	Gassy Oil 20%G 80%O	8.416

Total Length: 960.00 ft      Total Volume: 10.988 bbl

Num Fluid Samples: 0

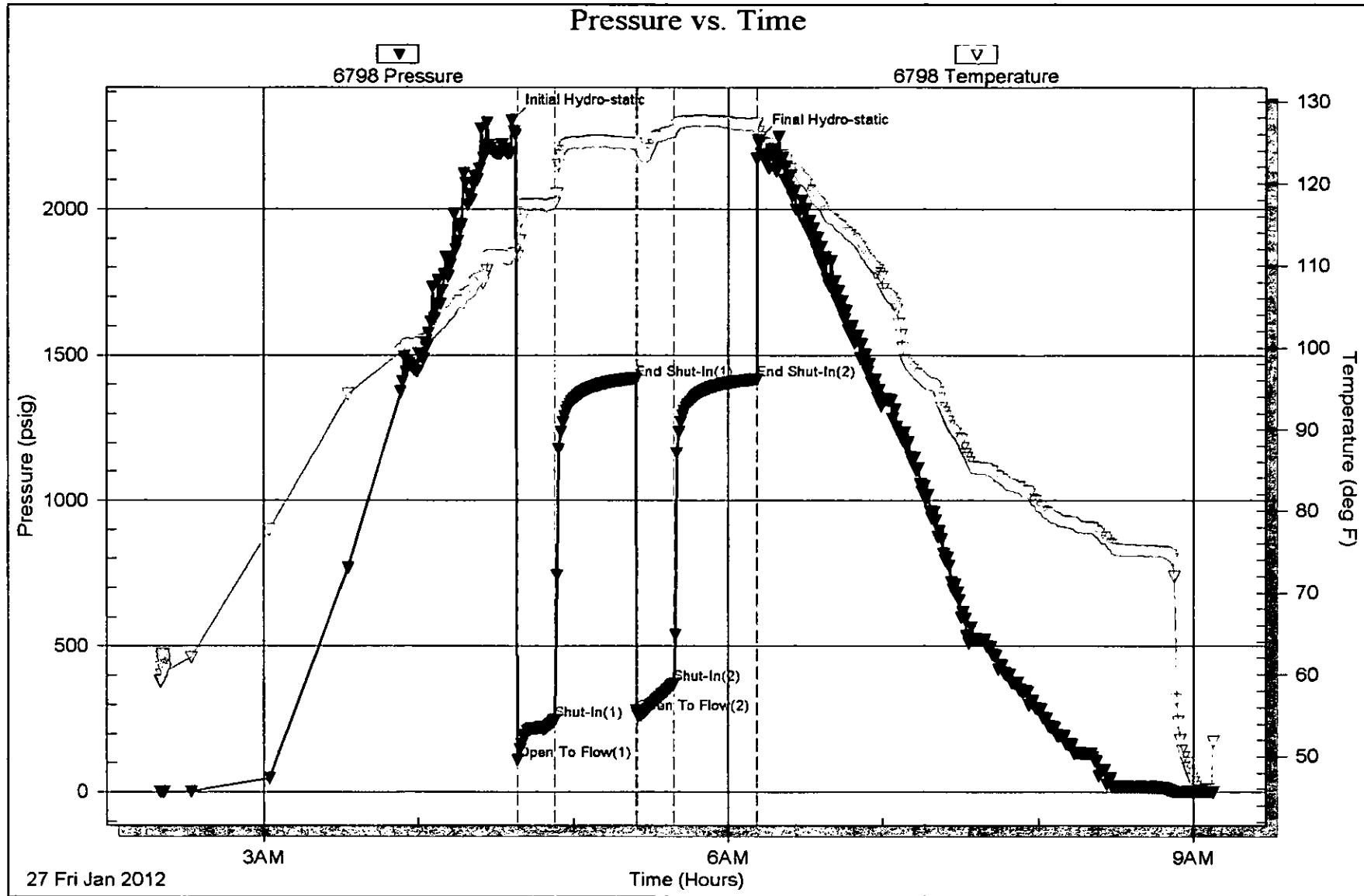
Num Gas Bombs: 0

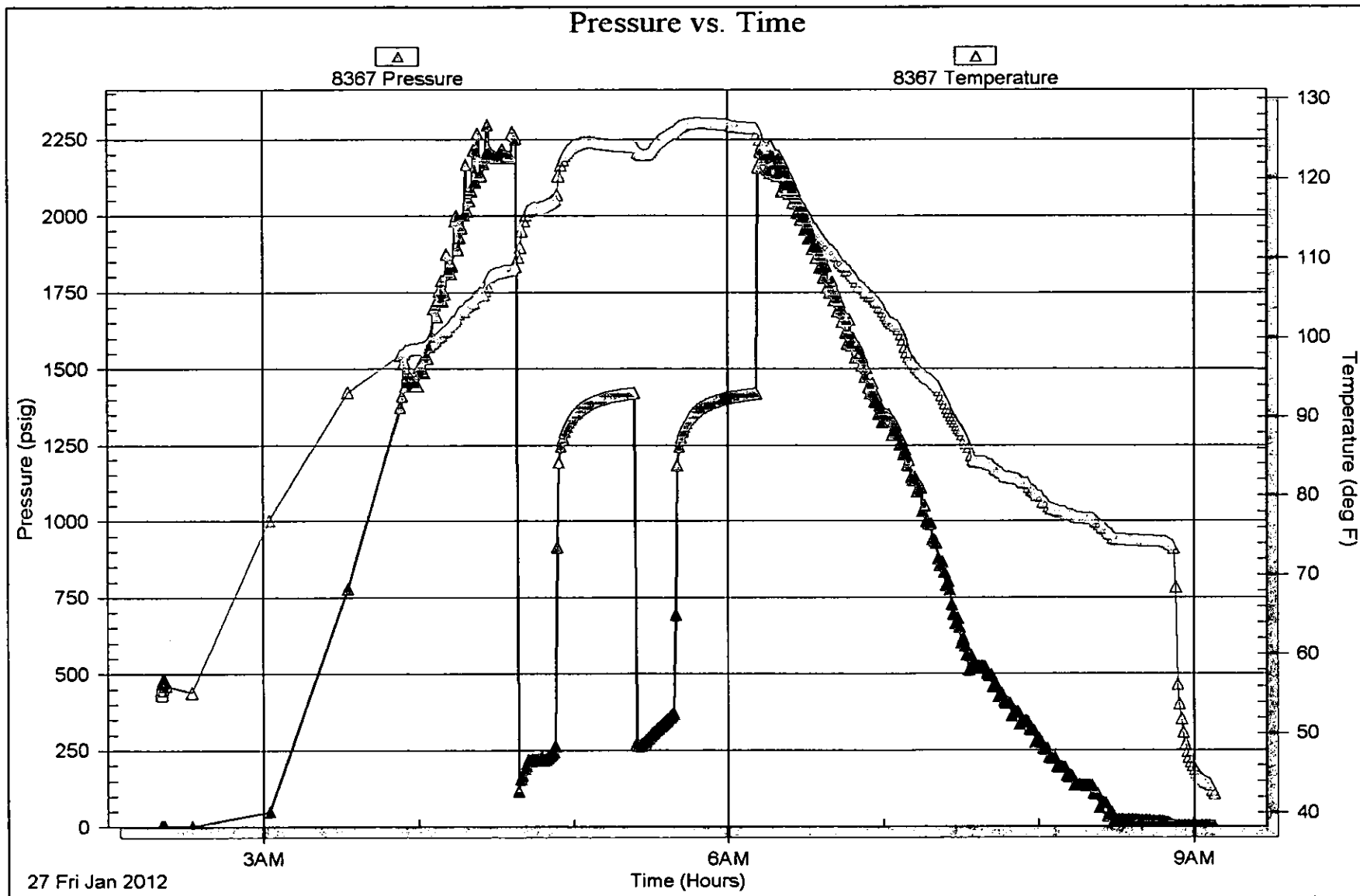
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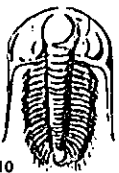
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity was 37 @ 58 degrees  
RW was .02 @ 41 degrees







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## RECEIVED Test Ticket

NO. 47451

Well Name & No. Gleason #1-4 BY: 1 Test No. 1 Date 1-25-12  
 Company American Warrior INC Elevation 2367 KB 2356 GL  
 Address 3118 Cummings RD PO BOX 399 Garden City, KS 67846  
 Co. Rep / Geo. Cecil O. Brate / Jason Alm / Austin Klaus Rig DUKE DRIG #5  
 Location: Sec. 4 Twp. 24S Rge. 21W Co. Hodgeman State KS

Interval Tested 4403 - 4475 Zone Tested Marmaton  
 Anchor Length 72' Drill Pipe Run 416 Mud Wt. 9.3  
 Top Packer Depth 4398 Drill Collars Run 272 Vis 50  
 Bottom Packer Depth 4403 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4475 Chlorides 5000 ppm System LCM 2#

Blow Description IF: STRONG blow BOB 30 sec GTS 18 min  
IST: STRONG blow BOB 5 min

FF: STRONG blow BOB 2 sec  
FST: STRONG blow BOB 4.5 min

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>3724</u>	Feet of <u>4-388' GLP</u>				
Rec <u>3844</u>	Feet of <u>Oil, Gas</u>	<u>40</u>	<u>60</u>		
Rec <u>120'</u>	Feet of <u>O, M, G</u>	<u>10</u>	<u>60</u>	<u>30</u>	
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

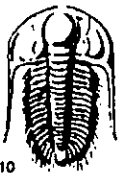
Rec Total 3844 BHT 125 Gravity 38 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 5000 ppm  
 (A) Initial Hydrostatic 2177  Test 1200' T-On Location 18:30  
 (B) First Initial Flow 630  Jars 260' T-Started 18:46  
 (C) First Final Flow 1145  Safety Joint 15' T-Open 21:59  
 (D) Initial Shut-In 1404  Circ Sub 50 T-Pulled 1:00  
 (E) Second Initial Flow 1206  Hourly Standby 9/26/12 T-Out 7:00  
 (F) Second Final Flow 1390  Mileage 180 Miles Comments Dropped the Bar Reversed out  
 (G) Final Shut-In 1406  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2116  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60

Approved By Jason F...

Sub Total 2107 Our Representative Chie...  
 Sub Total 2107 RECEIVED FEB 10 2012 KCC WICHITA  
 MP/DST Disc't \_\_\_\_\_

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
JAN 30 2012

## Test Ticket

NO. 44145

Well Name & No. ~~Ameswell 214~~ Gleason 1-4 Test No. 2 Date 01/27/12  
 Company American Warrior Elevation 2367 KB 2356 GL  
 Address PO Box 399 Garden City, KS 67846  
 Co. Rep/Geo. Austin Klaus Rig Duke 5  
 Location: Sec. 4 Twp. 21S Rge. 24W Co. Hodgeman State KS

Interval Tested 4608 - 4660 Zone Tested Mississippi  
 Anchor Length 52 Drill Pipe Run 4331 Mud Wt. 9.2  
 Top Packer Depth 4603 Drill Collars Run 272 Vis 51  
 Bottom Packer Depth 4608 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4660 Chlorides 5500 ppm System LCM 1#

Blow Description IF: Strong Blow, BOB in 3 minutes  
FSI: 1 inch Blow back  
FF: Strong Blow, BOB in 1 minute  
FSI: 1 inch Blow back

Rec	Feet of	%gas	%oil	%water	%mud
600	Gassy oil	20	80		
180	GOCM	20	20		60
180	GOWCM	20	20	26	34

Rec Total 960 BHT 127° Gravity 37.2 API RW 0.7@ 41 °F Chlorides 65000 ppm

(A) Initial Hydrostatic <u>2302</u>	<input checked="" type="checkbox"/> Test <u>12:25</u>	T-On Location <u>01:30</u>
(B) First Initial Flow <u>109</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>02:20</u>
(C) First Final Flow <u>245</u>	<input checked="" type="checkbox"/> Safety Joint <u>15'</u>	T-Open <u>04:38</u>
(D) Initial Shut-In <u>1416</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>06:11</u>
(E) Second Initial Flow <u>270</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>09:07</u>
(F) Second Final Flow <u>370</u>	<input checked="" type="checkbox"/> Mileage <u>1600</u> <u>2012</u>	Comments _____
(G) Final Shut-In <u>1418</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2236</u>	<input type="checkbox"/> Straddle	

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1214

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1214  
 MP/DST Disc't \_\_\_\_\_

Approved By Jason Alon

Our Representative \_\_\_\_\_

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

RECEIVED

FEB 10 2012

KCC WICHITA



CHARGE TO: American Warrior  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

RECEIVED  
 FEB 10 2012  
 KOC WICHITA

TICKET No 21565  
 PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>New City KS</u>	WELL/PROJECT NO. <u>1-4</u>	LEASE <u>Gleason</u>	COUNTY/PARISH <u>Hodgeman</u>	STATE <u>KS</u>	CITY <u>Harston</u>	DATE <u>2 Feb 12</u>	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>CO TOOLS</u>	RIG NAME/NO.	SHIPPED VIA <u>LT</u>	DELIVERED TO <u>location</u>	ORDER NO.	
3.	WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement post collar</u>	WELL PERMIT NO.	WELL LOCATION <u>4-24-2140</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE TRK 114	50	mi			6.00	300	00
576D		1			Pump Charge	1	ea			1250.00	1250	00
330		1			SMD cement	115	sk			16.50	1897	50
276		1			Floacle	50	lb			2.00	100	00
290		1			D-AIR	1	gal			35.00	35	00
581		1			service charge	175	sk			2.00	350	00
583		1			Drayage	17414	lb	435.36	TM	1.00	435	36
104		1			Post Collar tool Rental	1	ea			250.00	250	00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  A.M.  
 P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	4617	86
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?						
WE UNDERSTOOD AND MET YOUR NEEDS?						
OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Hodgeman TAX 7.45%	170	05
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	4787	91
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						



JOB LOG

SWIFT Services, Inc.

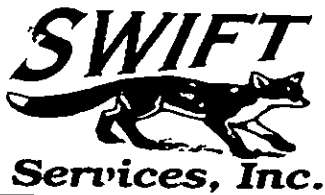
DATE 2 FEB 12 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-4 LEASE Glendon JOB TYPE Cement port collar TICKET NO.

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk 5MD 4 1/4" floater 2 3/8" x 5 1/2" DET collar @ 1435'
	0830							on loc TRK 114
	0900		7			1000	1000	pressure to 1000psi - held open port collar
	0905	3	3				400	inj rate 3 bpm @ 400psi
	0910	3 3/4					400	mix 5MD cement @ 11.2 ppg fluid to surface - cement to surface - } 115 sks mixed 20 topit }
		3 3/4	4				400	
		3 3/4	62				500	
	0925		4 1/2					Displace w/ H <sub>2</sub> O
	0935					1000	1000	close port collar pressure to 1000psi - held run 4 joints
	0945		15					Reverse hole close 2 cement flags
	0955							wash truck
								Rack up
	1015							job complete
								Thanks Blaine Dine & Russ

RECEIVED  
FEB 10 2012

KCC WICHITA



CHARGE TO: American Warrior  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

RECEIVED  
 FEB 10 2012  
 KCC WICHITA

TICKET  
 No 21559

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Wichita KS WELL/PROJECT NO. 1-4 LEASE Gleason COUNTY/PARISH Hodgeman STATE KS CITY Houston DATE 28 Jan 12 OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR DUKB RIG NAME/NO. DUKB 5 SHIPPED VACT DELIVERED TO Location ORDER NO.  
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement long string WELL PERMIT NO. WELL LOCATION 4-24-21W  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRX 114	60	mi			6.00	360.00
578		1			Pump Charge	1	ea			1500.00	1500.00
402		1			Centralizer	5 1/2	in	9	ea	70.00	630.00
403		1			Cement Basket	5 1/2	in	2	ea	250.00	500.00
404		1			Port collar	5 1/2	in	1	ea	2400.00	2400.00
405		1			Formation packer shoe	5 1/2	in	1	ea	1400.00	1400.00
406		1			Latch down plug & baffle	5 1/2	in	1	ea	250.00	250.00
Continuation Page										page 1	7040.00
										page 2	5536.00
											12576.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X  
 DATE SIGNED: TIME SIGNED:  A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				SUB	12576.00
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Hodgeman TAX 7.45%	731.31
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	13,307.31
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: Boyer APPROVAL:

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 21559

CUSTOMER American Warrior WELL Gleason 1-4 DATE 28 Jan 12 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT	PRICE	AMOUNT	
		LOG	ACCT	DF			QTY.	UNIT				
325		1				Standard Cement (for ST-2)	175	sk		13.50	2362.50	
284		1				Calseal	800	lb	8 sk	35.00	280.00	
283		1				Salt	900	lb		0.20	180.00	
292		1				halad-322	125	lb		7.75	968.75	
276		1				flocele	50	lb		2.00	100.00	
290		1				D-AIR	2	gal		35.00	70.00	
281		1				mud flush	500	gal		1.25	625.00	
221		1				KCL liquid	2	gal		25.00	50.00	
581		1				SERVICE CHARGE				2.00	350.00	
583		1				TOTAL WEIGHT	18325		LOADED MILES	60	TON MILES	641.75

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CONTINUATION TOTAL 5536.00

JOB LOG

SWIFT Services, Inc.

DATE 28 Jan 12 PAGE NO. 9

CUSTOMER American Warrior WELL NO. 1-4 LEASE Gleason JOB TYPE cement long string TICKET NO. 21559

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sks EA-2 w/ halad -322 5/8" floccula 5 1/2" 17" pipe 109 joints 4652'
								shoe joint 2061' PC collar #76 1435' Cort 1, 3, 5, 7, 9, 11, 13, 15, 75 Bislat 14, 76 Packer shoe on loc YRX 114
	0530							
	0750							start 5 1/2" 17" casing in well
	0950							circulate
	1015							Drop ball - open set packer shoe
	1020	3 3/4	12				200	Pump mud flush 500gal
		3 3/4	20				200	Pump KCL flush 20bbl
	1030		7					Plug RH - MH 30sks - 20sks
	1035	4 3/4	35				200	mix 125sks EA-2 @ 15.3 ppq
	1045							Drop latch down plug wash out pump & line
	1050	6 3/4					250	Displace plug
		6 3/4	90				700	
	1115	10 3/4	108				1550	Land plug
								Release pressure to truck - dried up
	1120							wash truck
								RECEIVED Rack up FEB 10 2012
	1150							Job complete KCC WICHITA Russ Dams & Blaine



# CEMENTING LOG

STAGE NO. \_\_\_\_\_

Date 1-19-12 District Great Basin Ticket No. 42394  
 Company AW Warrior Rig Duke 8  
 Lease 10966 Well No. 1-4  
 County Hogman State KS  
 Location \_\_\_\_\_ Field \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: freshwater  
 Amt. 5 Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 5 5/8 Type 2-6 Weight 23.5 Collar 2-6

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

Casing Depths: Top KB Bottom 221

TAIL: Pump Time thicken time hrs. Type 6/99 A  
500cc 290 gal Excess \_\_\_\_\_  
 Amt. 150 Skys Yield 9.34 ft<sup>3</sup>/sk Density 15.2 PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Drill Pipe: Size 4 1/2 Weight 16.6 Collars 410  
 Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Pump Trucks Used 398 Duke  
 Bulk Equip. 341 Vicer

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70  
 Open Holes: Bbls/Lin. ft. 1.455 Lin. ft./Bbl. 1.35  
 Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. 110.32  
 Annulus: Bbls/Lin. ft. 0.735 Lin. ft./Bbl. 13.60  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type freshwater Amt. \_\_\_\_\_ Bbls. Weight 9.7 PPG  
 Mud Type Justine Weight 9.7 PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Greg R.

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						On location - dig up nois safety meeting
						run 8 5/8 casing
						circulate casing w/ rig mud
				5		Hook up - Run 5 bbl ahead
			40.50	75.30		With 150 gal cement
			53.92	13.12		Displace with 13.12 bbl freshwater
						Shut in
						Cement job circulate
						Rig down

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