



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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 #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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.

Submitted Electronically

**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: \_\_\_\_\_ Date: \_\_\_\_\_



1087345

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input 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

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	H & S 1-8
Doc ID	1087345

Tops

Name	Top	Datum
Anhy	1374'	+896
B/Anhy	1410'	+860
Heebner	3826'	-1556
Lansing	3887'	-1617
Stark	4142'	-1872
B/KC	4243'	-1973
Marmaton	4266'	-1996
Ft.Scott	4417'	-2147
Mississippian	4491'	-2221

Date 5-27-12 District South Bend Ticket No. 33544  
 Company American's Warrior Rig Duke 9  
 Lease H 23 Well No. 1-8  
 County Hodgeman State Ks.  
 Location Hogansaw, KS 3900th Field \_\_\_\_\_  
1 1/2 west southw side

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 8 5/8 Type new Weight 24 Collar 8rd

Casing Depths: Top KB Bottom 1017.18  
 Drill Pipe: Size 4 1/2 Weight 16.6 Collars XH  
 Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbbls/Lin. ft. .0639 Lin. ft./Bbl. 15.70  
 Open Holes: Bbbls/Lin. ft. .1458 Lin. ft./Bbl. 6.85  
 Drill Pipe: Bbbls/Lin. ft. .0142 Lin. ft./Bbl. 70.70  
 Annulus: Bbbls/Lin. ft. .0735 Lin. ft./Bbl. 13.60  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: Freshwater  
 Amt. 5 Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density 8.34 PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type 60/40 6% gel  
3% cc 1/4 floeal Excess \_\_\_\_\_  
 Amt. 350 Sks Yield 1.9 ft<sup>3</sup>/sk Density 13.5 PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type Class A  
3% cc 2% gel Excess \_\_\_\_\_  
 Amt. 200 Sks Yield 1.21 ft<sup>3</sup>/sk Density 15.2 PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbbls.

Pump Trucks Used 366 (Joni)  
 Bulk Equip. 452-241 (Joni)  
375 (Kevin W)

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top Rubber Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. 8 5/8 Baffle Plate  
 Disp. Fluid Type Fresh H<sub>2</sub>O Amt. \_\_\_\_\_ Bbbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ 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 Bbbls Min.	
						On location - Rig up hold safety meeting
						Run 8 5/8" casing
						Break circulation with rig mud
				10.00		Hook up cement pump, 10 bbl spacer
			128.44	118.44		Mix lead cement 60/40 6% gel 3% cc 1/4 floeal
			178.66	50.22		Mix Tail cement Class A 3% cc 2% gel
			141.15	67.49		Stop - Switch valves - release plug Displace with 62.49 BBL Freshwater
						Shut in
						Rig down
						Plug down @ 1:30pm



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

TICKET  
 No 21760

PAGE 1 OF 2

SERVICE LOCATIONS: 1. *Hays, KS*  
 WELL/PROJECT NO. *1-8* LEASE *H&S* COUNTY/PARISH *Hodgeman* STATE *Ks.* CITY DATE *6-2-12* OWNER *Same*  
 2. TICKET TYPE  SERVICE SALES CONTRACTOR *Duke Rig #9* RIG NAME/NO. SHIPPED VIA *CLT* DELIVERED TO *Loc.* ORDER NO.  
 3. WELL TYPE *Oil* WELL CATEGORY *Development* JOB PURPOSE *Com. 5 1/2" Prod. Csg.* WELL PERMIT NO. WELL LOCATION *Sec 8-28<sup>s</sup>-22<sup>w</sup>*  
 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 #110	40		mil		6	00	240	00
578		1			Pump Service	1		ea		1500	00	1500	00
405		1			Formation Packer Shoe	1		ea	5 1/2 in	1400	00	1400	00
406		1			Latch down Plug & Baffle	1		ea	"	250	00	250	00
402		1			Centralizers	9		ea	"	70	00	630	00
403		1			Car. Basket	1		ea		250	00	250	00
281		1			Mud Flush	500		gal		1	25	625	00
221		1			KCL	2		gal		25	00	50	00
290		1			D-Air	2		gal		35	00	70	00
Sec Continuation											page 1	5015	00
											page 2	3,968	24
											Sub	8,983	84

**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 *[Signature]*  
 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
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?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

*Hodgeman TAX 7.45%*  
 486 25  
 9470 09

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

SWIFT OPERATOR *[Signature]* APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 21760

CUSTOMER *American Warrior* WELL *H/S #1-8* DATE *6-2-12* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
325		1				Standard Cement	175	SKS			13.50	2,362.50
284		1				Calseal	8	SKS			35.00	280.00
283		1				Salt	947	#			20	189.40
285		1				CFR-1	83	#			4.00	332.00
276		1				Flocele	44	#			2.00	88.00
581		1				SERVICE CHARGE					2.00	350.00
583		1				MILEAGE CHARGE					1.00	366.94
						TOTAL WEIGHT	18,347					
						LOADED MILES	40					
						CUBIC FEET	175 SKS					
						TON MILES	366.94					

CONTINUATION TOTAL 3,968.84

**JOB LOG**

**SWIFT Services, Inc.**

DATE 6-2-12 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 1-8 LEASE H&S JOB TYPE Long String TICKET NO. 21760

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							On Loc.
	0910							Start in with 5 1/2" 15.5 csg. PKR Shoe 4514' TD 4520' Latched down Baffle 4493' Cent. #1, 2, 3, 4, 5, 6, 7, 8, 9 Cent. Basket #2
	11:15							Tag Bottom Pickup 6' Circulate WOC
	1250							Drop Ball 1100 Set PKR shoe
			12					Pump 500gal Mud Flush
			20					20SS RCL Flush Plug M. H. 20SS R.H. 30SS
	13:15	5						MIX 125SS EA-2 Finish mixing wash out pump & line
	13:25	7						Displ. latched down plug
	13:45		109				1500	Plug down 1500 psc holding Release Dried up wash & Rack up truck
	1415							Job Complete

*Handwritten signature*

*Boyd Blair Jeff Isaac*

# **Geological Report**

American Warrior Inc.

**H & S #1-8**

2310' FNL & 223' FEL

Sec. 8 T23s R22w

Hodgeman County, Kansas



**American Warrior, Inc.**



## General Data

Well Data: American Warrior, Inc.  
H& S #1-8  
2310' FNL & 223' FEL  
Sec. 8 T23s R22w  
Hodgeman County, Kansas  
API # 15-083-21782-0000

Drilling Contractor: Duke Drilling Co. Rig #9

Geologist: Harley Sayles

Spud Date: May 26, 2012

Completion Date: June 1, 2012

Elevation: 2257' Ground Level  
2270' Kelly Bushing

Directions: Hanston KS, 4 mi Southwest on Hwy 156 to 225 Rd, then 1.4 mi South to L Rd, then 1 mi East on L Rd, then South 0.5 mi into location

Casing: 24# 8 5/8" surface casing @ 1030, 15.5# 5 1/2" @ 4518

Samples: 10' wet and dry, 3750' to RTD

Drilling Time: 3700' to RTD

Electric Logs: Dual Induction, Microresistivity, Dual Compensated Porosity

Drillstem Tests: One, "Chris Staats"

Problems: None

Remarks: None

## Formation Tops

<b>Formation</b>	American Warrior, Inc. H & S #1-8 Sec. 8 T23s R22w 2310' FNL & 223' FEL
Anhydrite	1374', +896
Base	1410', +860
Heebner	3826', -1556
Lansing	3887', -1617
Stark	4142', -1872
BKc	4243', -1973
Marmaton	4266', -1996
Pawnee	4352', -2082
Fort Scott	4417', -2147
Cherokee	4442', -2172
Mississippian	4491', -2221
Osage	4518', -2248
LTD	4523', -2253

## Sample Zone Descriptions

- Warsaw** (4491', -2221) Covered in DST #1 & #2
- Dolo- Light gray to cream to tan, fine sucrosic crystalline, poor vuggy porosity, fair to very good inter-crystalline porosity, good odor, good show of free oil, bright yellow florescence, partial to complete saturation and stain, dense to very friable
- Osage** (4518', -2248): not tested
- Δ-Dolo- Cream to off white, fine to sub crystalline, good intercrystalline porosity, mostly chert in sample, white to opaque, fresh, very slight show of free oil, no odor, mostly barren
- Fort Scott** (4417', -2147): not tested
- Ls- Cream to tan, fine to sub crystalline, good intercrystalline porosity, no odor, no florescence, chert, fresh, white, barren, no show of free oil





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior INC  
3118 Cummings RD  
PO Box 399  
Gardencity KS 67846  
ATTN: Cecil Obrate/ Harley

**8-23s-22w**

**H+S #1-8**

Job Ticket: 47750

**DST#: 1**

Test Start: 2012.05.31 @ 23:16:30

## GENERAL INFORMATION:

Formation: **Miss-Warsaw**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 04:59:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

**Interval: 4489.00 ft (KB) To 4504.00 ft (KB) (TVD)**

Reference Elevations: 2270.00 ft (KB)

Total Depth: 4504.00 ft (KB) (TVD)

2257.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 6755 Inside**

Press @ Run Depth: psig @ 4490.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.31

End Date:

2012.06.01

Last Calib.:

2012.06.01

Start Time: 23:36:35

End Time:

05:19:29

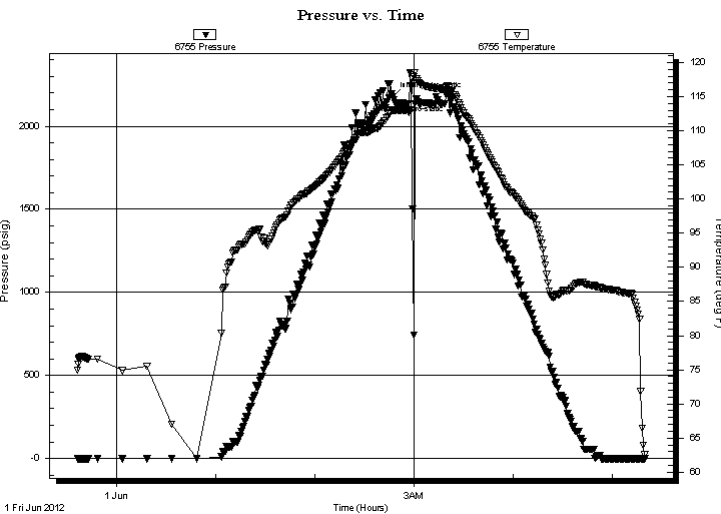
Time On Btm:

2012.06.01 @ 02:47:00

Time Off Btm:

2012.06.01 @ 03:21:45

TEST COMMENT: MISS RUN PACKER FAILED



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.23	113.03	Initial Hydro-static
35	2173.30	115.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	MUD	2.64

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior INC

**8-23s-22w**

3118 Cummings RD  
PO Box 399  
Gardencity KS 67846

**H+S #1-8**

Job Ticket: 47750

**DST#: 1**

ATTN: Cecil Obrate/ Harley

Test Start: 2012.05.31 @ 23:16:30

## 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: 51.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 6800.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	MUD	2.636

Total Length: 310.00 ft      Total Volume: 2.636 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

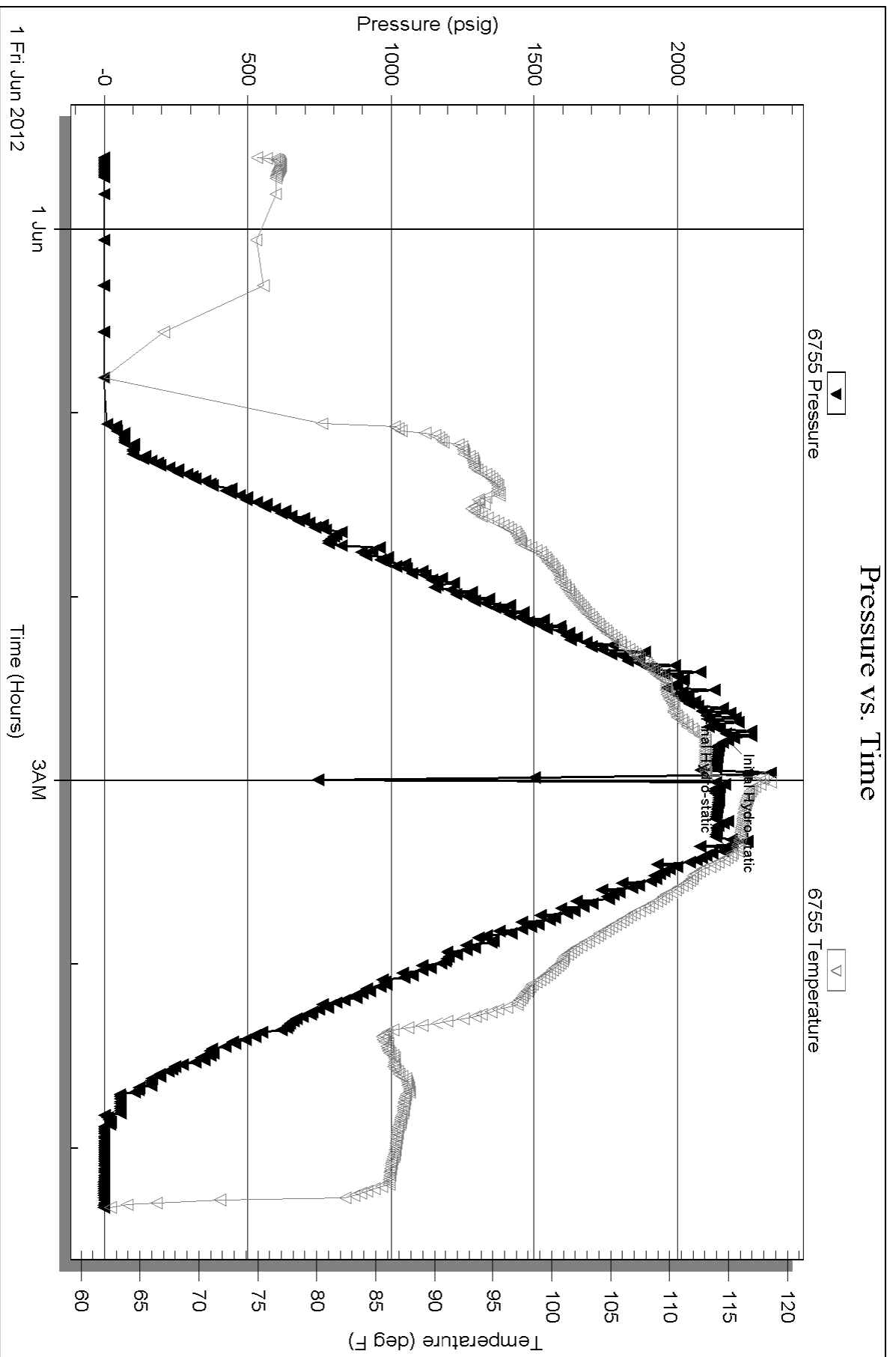
Serial #: 6755

Inside

American Warrior INC

HS#1-8

DST Test Number: 1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior INC  
 3118 Cummings RD  
 PO Box 399  
 Gardencity KS 67846  
 ATTN: Cecil Obrate/ Harley

**8-23s-22w Hodgeman, KS**

**H&S #1-8**

Job Ticket: 47551

**DST#: 2**

Test Start: 2012.06.01 @ 05:26:00

## GENERAL INFORMATION:

Formation: **Miss-Warsaw**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:39:15

Time Test Ended: 13:08:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Chris Staats

Unit No: 47

**Interval: 4457.00 ft (KB) To 4504.00 ft (KB) (TVD)**

Reference Elevations: 2270.00 ft (KB)

Total Depth: 4504.00 ft (KB) (TVD)

2257.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 6755**

**Inside**

Press @ Run Depth: 159.11 psig @ 4458.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.01

End Date:

2012.06.01

Last Calib.:

2012.06.01

Start Time: 05:26:05

End Time:

13:08:44

Time On Btm:

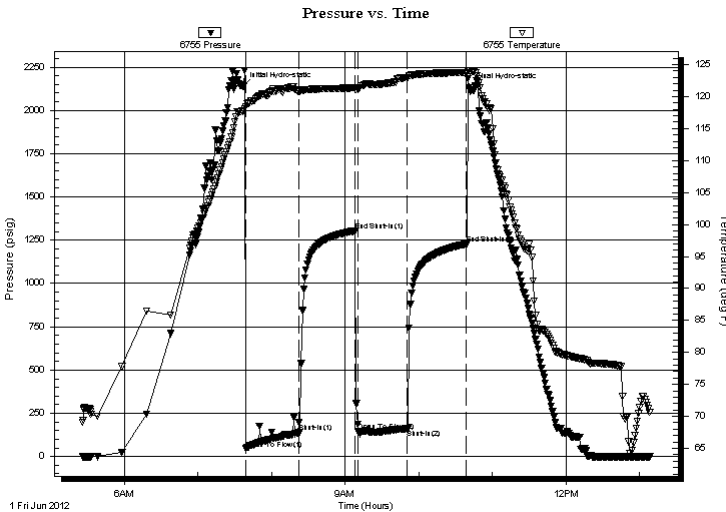
2012.06.01 @ 07:36:30

Time Off Btm:

2012.06.01 @ 10:41:15

**TEST COMMENT:** IF: Strong blow 8"  
 IS: Weak surface blow back  
 FF: Strong blow BOB 40 min  
 FS: Weak surface blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.61	117.75	Initial Hydro-static
3	45.19	118.45	Open To Flow (1)
46	138.40	120.82	Shut-In(1)
92	1304.55	121.37	End Shut-In(1)
94	143.54	121.16	Open To Flow (2)
135	159.11	122.95	Shut-In(2)
183	1228.21	123.75	End Shut-In(2)
185	2131.15	124.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	435' GIP	0.00
310.00	GASSY OIL MUD 15% gas 35% oil 50%	r2.64

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior INC

**8-23s-22w Hodgeman,KS**

3118 Cummings RD  
PO Box 399  
Gardencity KS 67846  
ATTN: Cecil Obrate/ Harley

**H&S #1-8**

Job Ticket: 47551

**DST#: 2**

Test Start: 2012.06.01 @ 05:26:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 8.77 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 6800.00 ppm  
Filter Cake: 0.02 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	435' GIP	0.000
310.00	GASSY OIL MUD 15% gas 35% oil 50% mud	2.636

Total Length: 310.00 ft      Total Volume: 2.636 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



