



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



1095025

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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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
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<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Schwien 3-13
Doc ID	1095025

Tops

Name	Top	Datum
Anhydrite	1450	767
Heebner	3692	-1475
Lansing	3740	-1523
Base Kansas City	4065	-1848
Pawnee	4149	-1932
Ft. Scott	4226	-2009
Cherokee	4244	-2027
Mississippian	4318	-2101
TD	4342	-2135

# ALLIED OIL & GAS SERVICES, LLC 053538

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
*Great Bend, KS*

DATE <i>5-16-12</i>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <i>3:30A</i>	JOB FINISH <i>4:00A</i>
LEASE <i>Schweier</i>	WELL# <i>3-13</i>	LOCATION <i>Pazine, KS. So. to rd</i>		COUNTY <i>Wes</i>	STATE <i>KS</i>		
OLD OR NEW (Circle one)			<i>100' 1/2 west south into</i>				

CONTRACTOR *Petrowski #1*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *223*

CASING SIZE *8 5/8* DEPTH *223*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15 ft.*

PERFS.

DISPLACEMENT *13.25*

OWNER *American Warrior*

CEMENT

AMOUNT ORDERED *150 sks C/999 A*

*3% cc 2% gel*

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

EQUIPMENT

PUMP TRUCK # *366* CEMENTER *Greg R* HELPER *Kevin E*

BULK TRUCK # *3178* DRIVER *Kevin W*

BULK TRUCK # DRIVER

REMARKS:

*Pipe on bottom, break circ w/ righead. Hook up cement pump. Mix 150 sks C/999 A 3% cc 2% gel. Displace w/ 13.25 BBL fresh water. Shut in. Cement did circ. Rig down. Plug down @ 4:00 AM*

TOTAL

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

CHARGE TO: *American Warrior*

STREET

CITY STATE ZIP

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *[Signature]*

SIGNATURE *[Signature]*

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

*Thank You!*



# CEMENTING LOG

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

Date 5-16-12 District Emery Road Ticket No. 53532  
 Company American Warrior Rig Petromark #1  
 Lease Schwinn Well No. 3-13  
 County Desa State KS  
 Location \_\_\_\_\_ Field \_\_\_\_\_

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

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 8 5/8 Type NEW Weight 120 Collar Std

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 TAIL: Pump Time Thickener time hrs. Type 150 Sks Com  
3% cc 2% gel Excess \_\_\_\_\_  
 Amt. 130 Sks Yield 1.34 ft<sup>3</sup>/sk Density 15.2 PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Casing Depths: Top KB Bottom 223

Pump Trucks Used 366 Kenne E  
 Bulk Equip. 378 Ken W

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbbs/Lin. ft. .0637 Lin. ft./Bbl. 15.70  
 Open Holes: Bbbs/Lin. ft. .1458 Lin. ft./Bbl. 6.85  
 Drill Pipe: Bbbs/Lin. ft. .0142 Lin. ft./Bbl. 70.32  
 Annulus: Bbbs/Lin. ft. .0795 Lin. ft./Bbl. 12.60  
 Bbbs/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 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 1.70 Amt. \_\_\_\_\_ Bbbs. Weight \_\_\_\_\_ PPG  
 Mud Type N7 Fluor Weight \_\_\_\_\_ PPG

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

CEMENTER Craig R

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbs Min.	
						On location - Rig up field safety meeting
						Run 8 5/8 csg.
						Offsite. csg w/ rig used
						Hook up cement pump
						Run 5 BBL ahead
						Mix 150 Sks cement
						Displace w/ 13.25 bbl fresh water
						Shut in
						Rig down

FINAL DISP. PRESS: \_\_\_\_\_ PSI BUMP PLUG TO \_\_\_\_\_ PSI BLEEDBACK \_\_\_\_\_ BBLs. THANK YOU



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

TICKET  
 N<sup>o</sup> 23072

PAGE 1 OF 2

SERVICE LOCATIONS: Madison, KS

WELL/PROJECT NO: 3-13 LEASE: Schwein COUNTY/PARISH: Neos STATE: KS CITY: Bazine DATE: 20 MAY 12 OWNER:  
 TICKET TYPE:  SERVICE  SALES CONTRACTOR: Permark RIG NAME/NO.: 1 SHIPPED: Y DELIVERED TO: location ORDER NO.:  
 WELL TYPE: 0.1 WELL CATEGORY: Development JOB PURPOSE: convert log string WELL PERMIT NO.: WELL LOCATION: 13-19-5-22W

INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	20	mi			6.00	120.00
578					Pump Charges	1	ea			1500.00	1500.00
402					Contractor	5 1/2	in	5	eq	70.00	350.00
403					Paint Bucket	5 1/2	in	2	ea	250.00	500.00
404					Port Collar	5 1/2	in	1	ea	2400.00	2400.00
406					Catch down plug & bottle	5 1/2	in	1	ea	250.00	250.00
407					Insert of seat & shoe & hard steel	5 1/2	in	1	ea	350.00	350.00
<del>409</del>					<del>Rotary head &amp; valve</del>	<del>5 1/2</del>	<del>in</del>	<del>1</del>	<del>ea</del>	<del>250.00</del>	<del>250.00</del>

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

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO

WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	TAX	TOTAL
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Swanton, Inc.

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

TICKET CONTINUATION

TICKET No. 23672

CUSTOMER: American Warrior  
WELL: Schwind 3-13  
DATE: 22 APR 12  
PAGE: 21 OF 2

LINE NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE	DATE	WELL	DATE	PAGE
325	Standard cement (for SA-2)	SK	175	13.50	2362.50				
284	CEMENT	SK	800	35.00	28000.00				
283	SALT	LB	900	0.20	180.00				
292	balad - 322	LB	125	7.75	968.75				
276	fincler	LB	50	2.00	100.00				
281	MULFLOSH	SK	500	1.25	625.00				
221	KCL Liquid	gal	25	25.00	50.00				
290	D-AIR	gal	25	35.00	70.00				
582	Drain Oil (min)	gal	1	250.00	250.00				
581	SERVICE CHARGE		1	2.00	350.00				
TOTAL WEIGHT 9325		LOADED MILES 70	CUBIC FEET		TON MILES				

JOB LOG

SWIFT Services, Inc.

DATE 22 MAY 12 PAGE NO.

CUSTOMER American Warrior WELL NO. 3-13 LEASE Schwein JOB TYPE Cement Plug STR vs TICKET NO. 23672

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2 w/ 1/4" floccle
								5 1/2" 15.5" casing 103 jts 434' slm j 42'
								Contr 1, 2, 3, 4, 6, 8 Basket 5, 6, 9
								LT D 431' RTD 4352' jts out 103, 104, 116
	1700							on loc TRK 114
	1710							start 5 1/2" 15.5" casing in well
	1900							Drop ball - circulate - <del>ROTATE</del>
	1905	4 3/4	12				250	Pump 500 gal mud flush
		4 3/4	20				250	Pump 20 bbl KCL flush
	1930		7					Plug RH 30 sks
	1936	4 3/4	36				200	mix EA-2 cement 145 sks @ 153 ppd
								Drop latch drum plug
								wash out pump 1/2 line
	1947	6 3/4					200	Displace plug
		6 3/4	95				80	
	2000	6 3/4	103				1500	Land plug
	2003							Release pressure to truck - dried up
	2010							wash truck
								Ruck up
	2045							job complete
								Thanks Blaine, Doug - Dave





CHARGE TO: **AMERICAN WARRIOR**  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET  
 No **22720**

PAGE 1 OF

SERVICE LOCATIONS: **NESS CITY, KS** WELL/PROJECT NO: **SCHWEN 3-13** COUNTY/PARISH: **NESS** STATE: **KS** CITY: **BAZINE, KS** DATE: **7 JUN 12** OWNER: \_\_\_\_\_  
 TICKET TYPE: **CONTRACTOR** RIG NAME/NO: \_\_\_\_\_ SHIPPED VIA: \_\_\_\_\_ DELIVERED TO: \_\_\_\_\_ ORDER NO: \_\_\_\_\_  
 WELL TYPE: **DIL** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **CEMENT PORT COLLAR** WELL PERMIT NO: \_\_\_\_\_ WELL LOCATION: **35 1/2 W SE 20**  
 REFERRAL LOCATION: \_\_\_\_\_ INVOICE INSTRUCTIONS: \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE \$	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT			UM	UM	UM		
575				MILEAGE #110	20	MIL			1.00	20.00
5761D				PUMP CHARGE	1	HR	1452	HR	1250.00	1250.00
2716				FLOCELE	25	LBS			2.00	50.00
288				SAUD	1	SX			22.00	22.00
290				D-AIR	1	94L			350.00	350.00
105				PORT COLLAR DRINK TOOL	1	HR			350.00	350.00
102				BRIDGE PLUG RENTAL	1	HR			1100.00	1100.00
331D				SWIFT MULTI DENSITY	100	SX			1.50	150.00
581				SERVICE CHARGE CEMENT	200	SX			2.00	400.00
582				MINIMUM DRAYAGE	19970	LBS	19970	TM	250.00	250.00

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 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS  
 X **Scott** DATE SIGNED: **7 JUN 12** TIME SIGNED: **1045**  A.M.  P.M.  
 REMIT PAYMENT TO:  
**SWIFT SERVICES, INC.**  
**P.O. BOX 466**  
**NESS CITY, KS 67560**  
**785-798-2300**  
 SURVEY:  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?  YES  NO  CUSTOMER DID NOT WISH TO RESPOND  
 PAGE TOTAL: **410.00** ~~410.00~~ **5227.00**  
 TAX: **7.55** **6.3%**  
 TOTAL: **5429.04**  
 Thank You!

SWIFT OPERATOR: **[Signature]** APPROVAL: \_\_\_\_\_  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

JOB LOG

SWIFT Services, Inc.

DATE: 7 Jun 12 PAGE NO.

CUSTOMER  
AMERICAN WARRIOR

WELL NO.

LEASE  
SCALWEN 3-13

JOB TYPE  
CEMENT PORT COLLAR

TICKET NO.  
22726

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0820							ON LOCATION PORT COLLAR @ 1432
	0849				✓		1000	TEST - HELD
	0851	3			✓		300	OPEN PORT COLLAR TAKE FWT RATE
	0854	4	55	✓			500	MIX 100SX SAND
		3	4 1/2	✓			200	DISPLACE CEMENT CIRCULATE 15SX TO PIT
	0911			✓			1000	CLOSE PORT COLLAR - TEST - HELD RUN 4 JTS.
	0924	<del>3</del> 3	15		✓		300	REVERSE CEMENT OUT OF TUBING RUN TUBING.
	1020	3	30		✓			CIRCULATE SAND OFF PLUG.
	1045							JOB COMPLETE.
								THANKS B110
								JASON JEFF ROB.

# **Geological Report**

American Warrior, Inc.

**Schwien #3-13**

1950' FNL & 2100' FEL

Sec. 13 T19s R22w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Schwien #3-13  
1950' FSL & 2100' FEL  
Sec. 13 T19s R22w  
Ness County, Kansas  
API # 15-135-25391-0000

Drilling Contractor: Petromark Drilling, LLc. Rig #1

Geologist: Jason T Alm

Spud Date: May 14, 2012

Completion Date: May 22, 2012

Elevation: 2211' Ground Level  
2217' Kelly Bushing

Directions: Bazine KS, intersection of Hwy 96 and Austin St.3  
mi. West on trail ½ mi. South into location.

Casing: 223' 8 5/8" surface casing  
4341' 5 1/2" production casing

Samples: 10' wet and dry, 3600' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Log Tech, Inc. "Kenyon Bange"  
CNL/CDL, DIL

Drillstem Tests: One, Trilobite Testing, Inc. "Cole Archibald"

Problems: Rig was 10 ft. long to log TD.

Remarks: Errors were made in pipe tally resulting in rig being  
10 ft. off when compared to log.

## Formation Tops

<b>Formation</b>	<b>American Warrior, Inc. Schwien #3-13 Sec. 13 T19s R22w 1950' FSL &amp; 2100' FEL</b>
Anhydrite	<b>1450', +767</b>
Base	<b>1486', +731</b>
Heebner	<b>3692', -1475</b>
Lansing	<b>3740', -1523</b>
BKc	<b>4065', -1848</b>
Pawnee	<b>4149', -1932</b>
Fort Scott	<b>4226', -2009</b>
Cherokee	<b>4244', -2027</b>
Mississippian	<b>4318', -2101</b>
RTD	<b>4352', -2135</b>
LTD	<b>4342', -2125</b>

## Sample Zone Descriptions

**Mississippian Osage (4318', -2101):**      **Covered in DST #1**  
 Dolo – Δ – Fine sucrosic crystalline with poor inter-crystalline and vuggy porosity, heavy chert, triptolitic, weathered with fair vuggy porosity, light to fair oil stain in porosity, show of free oil, good odor, good yellow fluorescents, 20-22 units hotwire.

**Drill Stem Tests**  
 Trilobite Testing, Inc.  
 "Cole Archibald"

**DST #1**

**Mississippian Osage**

Interval (4331' – 4347') Anchor Length 16'

IHP	– 2213 #	
IFP	– 45" – Built to 2 in.	21-57 #
ISI	– 45" – Dead	1187 #
FFP	– 45" – Built to 3 in.	62-82 #
FSI	– 45" – Dead	1146 #
FHP	– 2172 #	
BHT	– 118°F	

Recovery: 60' GIP  
 30' CGO  
 120' Mud

**Structural Comparison**

<b>Formation</b>	<b>American Warrior, Inc.</b> Schwien #3-13 Sec. 13 T19s R22w 1950' FSL & 2100' FEL	American Warrior, Inc. Schwien #1-13 Sec. 13 T19s R22w 1700' FNL & 1425' FEL	American Warrior, Inc. Farrow #1-13 Sec. 13 T19s R22w 4886' FSL & 3558' FEL
Anhydrite	<b>1450', +767</b>	1435', +768	1484', +757
Base	<b>1486', +731</b>	1469', +734	NA
Heebner	<b>3692', -1475</b>	3672', -1469	3710', -1469
Lansing	<b>3740', -1523</b>	3719', -1516	3756', -1515
BKc	<b>4065', -1848</b>	NA	NA
Pawnee	<b>4149', -1932</b>	4130', -1927	4177', -1936
Fort Scott	<b>4226', -2009</b>	4206', -2003	4252', -2011
Cherokee	<b>4244', -2027</b>	4223', -2020	4270', -2029
Mississippian	<b>4318', -2101</b>	4302', -2099	4343', -2102

## **Summary**

The location for the Schwien #3-13 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Schwien #3-13 well.

## **Recommended Perforations**

**Primary:**

**Mississippian Osage:           (4318' – 4340')                           DST #1**

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 87846

ATTN: Jason Alm

### **Schwien 3-13**

#### **13-19s-22w Ness,KS**

Start Date: 2012.05.21 @ 21:43:01

End Date: 2012.05.22 @ 06:01:15

Job Ticket #: 46590                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.25 @ 11:30:32



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc  
 PO Box 399  
 Garden City, KS 87846  
 ATTN: Jason Alm

**13-19s-22w Ness, KS**  
**Schwien 3-13**  
 Job Ticket: 46590      **DST#: 1**  
 Test Start: 2012.05.21 @ 21:43:01

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:57:15      Tester: Cole Archibald  
 Time Test Ended: 06:01:15      Unit No: 46  
 Interval: **4331.00 ft (KB) To 4347.00 ft (KB) (TVD)**      Reference Elevations: 2216.00 ft (KB)  
 Total Depth: 4347.00 ft (KB) (TVD)      2211.00 ft (CF)  
 Hole Diameter:      inches      Hole Condition: Fair      KB to GR/CF: 5.00 ft

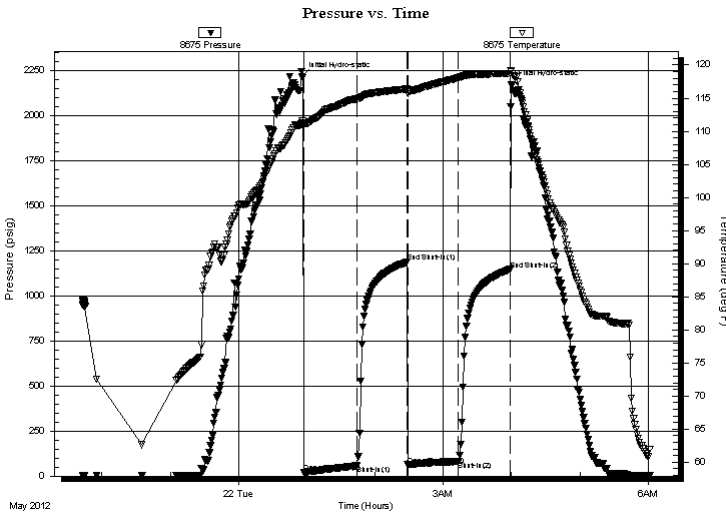
## Serial #: 8675

Inside

Press @ RunDepth: 81.99 psig @ 4332.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.05.21      End Date: 2012.05.22      Last Calib.: 2012.05.22  
 Start Time: 21:43:01      End Time: 06:01:15      Time On Btm: 2012.05.22 @ 00:55:30  
 Time Off Btm: 2012.05.22 @ 03:59:45

TEST COMMENT: Built to 2 inch  
 no return  
 built to 3 inch  
 no return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.40	111.27	Initial Hydro-static
2	21.02	111.06	Open To Flow (1)
49	57.63	114.88	Shut-In(1)
93	1186.60	116.38	End Shut-In(1)
93	62.38	115.71	Open To Flow (2)
138	81.99	118.09	Shut-In(2)
183	1145.50	118.73	End Shut-In(2)
185	2171.98	118.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	m 100 m	0.60
30.00	o 100 o	0.42
0.00	60 gip	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc  
PO Box 399  
Garden City, KS 87846  
ATTN: Jason Alm

**13-19s-22w Ness, KS**  
**Schwien 3-13**  
Job Ticket: 46590      **DST#: 1**  
Test Start: 2012.05.21 @ 21:43:01

**Tool Information**

Drill Pipe:	Length: 4204.00 ft	Diameter: 3.80 inches	Volume: 58.97 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 59.56 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	19.50 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4331.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4304.50	
Shut In Tool	5.00			4309.50	
Hydraulic tool	5.00			4314.50	
Jars	5.00			4319.50	
Safety Joint	2.50			4322.00	
Packer	5.00			4327.00	27.50      Bottom Of Top Packer
Packer	4.00			4331.00	
Stubb	1.00			4332.00	
Recorder	0.00	8675	Inside	4332.00	
Recorder	0.00	8650	Outside	4332.00	
Perforations	12.00			4344.00	
Bullnose	3.00			4347.00	16.00      Bottom Packers & Anchor

**Total Tool Length: 43.50**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior Inc  
PO Box 399  
Garden City, KS 87846  
ATTN: Jason Alm

**13-19s-22w Ness, KS**  
**Schwien 3-13**  
Job Ticket: 46590      **DST#: 1**  
Test Start: 2012.05.21 @ 21:43:01

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3300.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

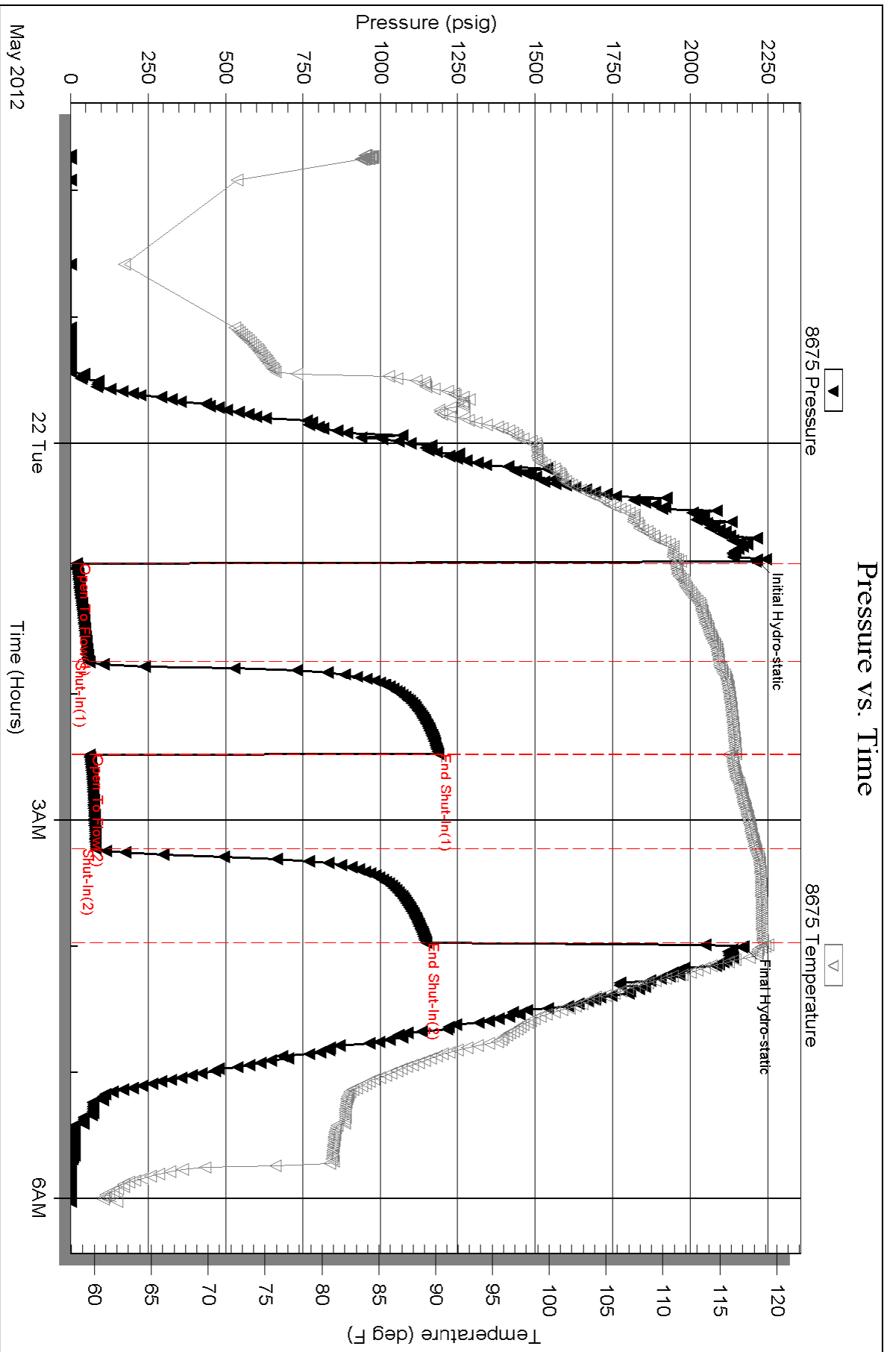
Length ft	Description	Volume bbl
120.00	m 100 m	0.599
30.00	o 100 o	0.421
0.00	60 gip	0.000

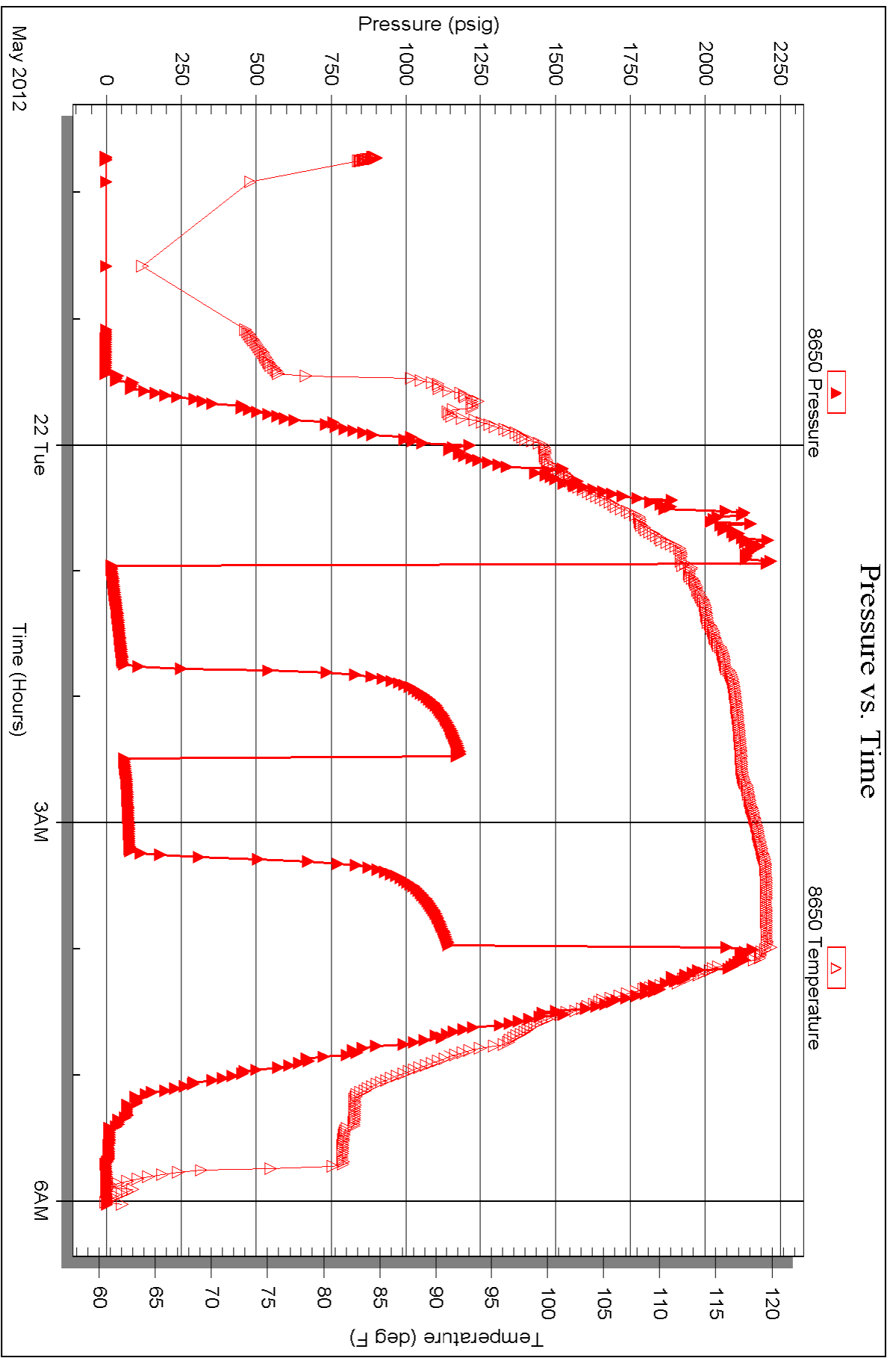
Total Length: 150.00 ft      Total Volume: 1.020 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 46590

Well Name & No. Schwien 3-13 Test No. 1 Date 5-21-12  
 Company American warrior inc Elevation 2210 KB 2211 GL  
 Address 3118 Cummings RD PO Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Jason Alm Rig Petromark #1  
 Location: Sec. 13 Twp. 19 S Rge. 22 W Co. McPh State KS

Interval Tested 4331-4347 Zone Tested MISS  
 Anchor Length 16 Drill Pipe Run 4204 Mud Wt. 9.6  
 Top Packer Depth 4326 Drill Collars Run 119 Vis 62  
 Bottom Packer Depth 4331 Wt. Pipe Run - WL 7.6  
 Total Depth 4347 Chlorides 3,300 ppm System LCM 0

Blow Description Built to 2 inches  
NO Return  
Built to 3 inches  
NO Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GIP</u>	<u>100%</u>			
<u>30</u>	<u>0</u>	<u>100</u>			
<u>120</u>	<u>M</u>			<u>100</u>	

Rec Total 150 BHT 119° Gravity 30 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2,213</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>20:48</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>21:43</u>
(C) First Final Flow <u>58</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>01:00</u>
(D) Initial Shut-In <u>1187</u>	<input checked="" type="checkbox"/> Circ Sub <u>MC</u>	T-Pulled <u>04:00</u>
(E) Second Initial Flow <u>62</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>06:01</u>
(F) Second Final Flow <u>82</u>	<input type="checkbox"/> Mileage <u>72 R/F</u> 111.60	Comments
(G) Final Shut-In <u>1146</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2172</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1686.60

MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]

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.