

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

**ORIGINAL**

Form ACO-1  
October 2008  
Form Must Be Typed

OPERATOR: License # 4058  
Name: American Warrior, Inc.  
Address 1: PO Box 399  
Address 2: \_\_\_\_\_  
City: Garden City State: KS Zip: 67846 + 0399  
Contact Person: Scott Corsair  
Phone: ( 785 ) 398-2270  
CONTRACTOR: License # 5822  
Name: Val Energy, Inc.  
Wellsite Geologist: Jason Alm  
Purchaser: \_\_\_\_\_

**RECEIVED**

**SEP 17 2009**

**KCC WICHITA**

Designate Type of Completion:  
 New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover \_\_\_\_\_  
\_\_\_\_\_ Oil \_\_\_\_\_ SWD \_\_\_\_\_ SIOW  
\_\_\_\_\_ Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW  
\_\_\_\_\_ CM (Coal Bed Methane) \_\_\_\_\_ Temp. Abd.  
 Dry \_\_\_\_\_ Other \_\_\_\_\_  
*(Core, WSW, Expl., Cathodic, 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  
\_\_\_\_\_ Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No.: \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No.: \_\_\_\_\_  
\_\_\_\_\_ Other (SWD or Enhr.?) \_\_\_\_\_ Docket No.: \_\_\_\_\_  
08/21/2008      08/28/2008      08/28/2008  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 135-24799-000  
Spot Description: 15' S & 110' W N2 SE NE SW  
NW SE NE SW Sec. 12 Twp. 20 S. R. 21  East  West  
1800 Feet from  North /  South Line of Section  
2200 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ness  
Lease Name: Hinnergardt Well #: 2-12  
Field Name: Ben  
Producing Formation: NA  
Elevation: Ground: 2234' Kelly Bushing: 2239'  
Total Depth: 4387' Plug Back Total Depth: NA  
Amount of Surface Pipe Set and Cemented at: 220' 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** P+A Alt II NR  
*(Data must be collected from the Reserve Pit)* 9-22-09  
Chloride content: 42,000 ppm Fluid volume: 300 bbls  
Dewatering method used: evaporate  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**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.

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: \_\_\_\_\_  
Title: Petroleum Engineer Date: 09/15/2009

Subscribed and sworn to before me this 15th day of September,  
20 09

Notary Public: Denise Corsair  
Date Commission Expires: 8-15-12

NOTARY PUBLIC - State of Kansas  
**DENISE CORSAIR**  
My Appt. Exp. 8-15-12

**KCC Office Use ONLY**

Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
\_\_\_\_\_ UIC Distribution

Operator Name: American Warrior, Inc. Lease Name: Hinnergardt Well #: 2-12  
 Sec. 12 Twp. 20 S. R. 21  East  West County: Ness

**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 copy of all Electric Wireline 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction, Dual Compensated Porosity, Microlog</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:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1428</td> <td>+811</td> </tr> <tr> <td>Heebner</td> <td>3762</td> <td>-1523</td> </tr> <tr> <td>Lansing</td> <td>3814</td> <td>-1575</td> </tr> <tr> <td>BKC</td> <td>4138</td> <td>-1899</td> </tr> <tr> <td>Ft. Scott</td> <td>4300</td> <td>-2061</td> </tr> <tr> <td>Cherokee</td> <td>4318</td> <td>-2079</td> </tr> <tr> <td>Mississippian</td> <td>4368</td> <td>-2129</td> </tr> </table>	Name	Top	Datum	Anhydrite	1428	+811	Heebner	3762	-1523	Lansing	3814	-1575	BKC	4138	-1899	Ft. Scott	4300	-2061	Cherokee	4318	-2079	Mississippian	4368	-2129
Name	Top	Datum																							
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Mississippian	4368	-2129																							

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	12 1/4"	8 5/8"	23	220'	Common	160	2% gel, 3% CC

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls.      Gas Mcf      Water Bbls.      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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# ALLIED CEMENTING CO., LLC. 31592

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

SERVICE POINT: Oakley, Ks

DATE <u>8/28/08</u>	SEC. <u>12</u>	TWP. <u>20</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION <u>8:30pm</u>	JOB START <u>1:00am</u>	JOB FINISH <u>2:00am</u>
Himmegard LEASE			WELL # <u>2-12</u>	LOCATION <u>Grizine E TO Rd H, 8.5.2E</u>		COUNTY <u>Neosho</u>	STATE <u>Ks</u>
OLD OR NEW (Circle one)				<u>3/4 S W. 5.</u>			

CONTRACTOR Val Drilling #4

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8" T.D. 4622'

CASING SIZE 8 1/8" DEPTH 240'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT **RECEIVED**

OWNER Same

CEMENT

AMOUNT ORDERED 215 SK, 60/40 400' gel  
4 1/2 lb FLO Seal

EQUIPMENT **SEP 17 2009**

PUMP TRUCK CEMENTER Alan KCC WICHITA

# 422 HELPER Wayne

BULK TRUCK

# 347 DRIVER Darrin

BULK TRUCK

# DRIVER

COMMON	<u>130</u>	@	<u>15.45</u>	<u>2008.20</u>
POZMIX	<u>85</u>	@	<u>8.00</u>	<u>680.00</u>
GEL	<u>7</u>	@	<u>20.00</u>	<u>140.00</u>
CHLORIDE		@		
ASC		@		
<u>Flo Seal 5416</u>		@	<u>2.22</u>	<u>135.00</u>
HANDLING <u>217 SK</u>		@	<u>2.44</u>	<u>520.00</u>
MILEAGE <u>12.4 SK/mile</u>		@		<u>542.50</u>
TOTAL				<u>4032.00</u>

**REMARKS:**

50 SK @ 1500'  
70 SK @ 600'  
50 SK @ 240'  
27 SK @ 60'  
15 SK @ RH  
10 SK @ MH

Thank You  
Alan, Wayne, Darrin

**SERVICE**

DEPTH OF JOB	<u>1500'</u>
PUMP TRUCK CHARGE	<u>1017.00</u>
EXTRA FOOTAGE	
MILEAGE <u>25 miles</u>	@ <u>7.00</u> <u>175.00</u>
MANIFOLD	@
TOTAL <u>1192.00</u>	

CHARGE TO: American Warrior Inc

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

	@	
	@	
	@	
	@	
TOTAL		

To Allied Cementing Co., 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.

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_

SIGNATURE Tim [Signature]

# ALLIED CEMENTING CO., INC.

25548

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

SERVICE POINT:  
Great Bend

DATE <u>8-22-08</u>	SEC <u>12</u>	TWP <u>20s</u>	RANGE <u>21w</u>	CALLED-OUT <u>12:30am</u>	ON LOCATION <u>4:00am</u>	JOB START <u>6:00am</u>	JOB FINISH <u>7:00am</u>
LEASE # <u>Under part #</u>		WELL # <u>2-12</u>	LOCATION <u>Bazine 4540 H Hrd, 8s,</u>	COUNTY <u>Ness</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>			<u>1 3/4", 15, 1/2 into</u>				

CONTRACTOR Val Rig #4

OWNER American Warrior

TYPE OF JOB Surface

HOLE SIZE \_\_\_\_\_ T.D. 225'

CEMENT

CASING SIZE 8 3/8 DEPTH 225'

AMOUNT ORDERED 160sr common, 36cc, 2% gel

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX 300psi MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 155'

COMMON \_\_\_\_\_ @ \_\_\_\_\_

CEMENT LEFT IN CSG. 155'

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

PERFS. \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

DISPLACEMENT Fresh Water

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

EQUIPMENT

ASC \_\_\_\_\_ @ \_\_\_\_\_

PUMP TRUCK CEMENTER Tyler

# 181 HELPER Grailen

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

BULK TRUCK

# 341 DRIVER Carl

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD Lead Rent @ \_\_\_\_\_

TOTAL \_\_\_\_\_

**REMARKS:**

Pipe on bottom, Break Circulation, pump 160sr common, 36cc 2% gel, shut down. Release plug, displace with 13 bbls fresh water, shut down, close in. Pig down, cement did circulate

**SERVICE**

DEPTH OF JOB 225'

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD Lead Rent @ \_\_\_\_\_

TOTAL \_\_\_\_\_

CHARGE TO: American Warrior

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

8 3/8 wooden plug @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE Robert Douglas

Robert Douglas

PRINTED NAME

*Thank You.*

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

**RECEIVED**  
**SEP 17 2009**  
**KCC WICHITA**

# **Geological Report**

American Warrior Inc.  
Hinnergardt #2-12  
1800' FSL & 2200' FWL  
Sec. 12 T20s R21w  
Ness County, Kansas

RECEIVED  
SEP 17 2009  
KCC WICHITA

Hard Rock Consulting, Inc.  
Jason Alm Petroleum Geologist

**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Hinnergardt #2-12  
1800' FSL & 2200' FWL  
Sec. 12 T20s R20w  
Ness County, Kansas  
API # 15-135-24799-0000

Drilling Contractor: Val Energy, Inc. Rig #4

Geologist: Jason Alm

Spud Date: August 21, 2008

Completion Date: August 28, 2008

Elevation: 2234' Ground Level  
2239' Kelly Bushing

Directions: Alexander KS, West on Hwy 96 to HH Rd., South to 50 Rd., East 1½ mi., South on farmstead drive, West into location.

Casing: 220' 8 5/8" surface casing

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

Drilling Time: 3600' to RTD

Electric Logs: Log Tech "Mike Garrison, Chris Desaire"  
CNL/CDL, DIL, MEL

Drillstem Tests: One, Trilobite Testing, Inc. "Brett Dickinson"

Problems: None

Remarks: None

## Formation Tops

Formation	American Warrior, Inc. Hinnergardt #2-12 Sec. 12 T20s R21w 1800' FSL & 2200' FWL
Anhydrite	1428', +811
Base	1457', +782
Heebner	3762', -1523
Lansing	3814', -1575
BKc	4138', -1899
Pawnee	4278', -2039
Fort Scott	4300', -2061
Cherokee	4318', -2079
Mississippian	4368', -2129
RTD	4385', -2146
LTD	4387', -2148

### Sample Zone Descriptions

Miss

(4359', -2121):

Dolo – Δ – Fine sucrosic crystalline dolomite with poor to fair vuggy and inter-crystalline porosity, weathered trip chert with light to fair oil stain, show of free oil, light odor, 3 units hotwire.

### Drill Stem Tests

Trilobite Testing Inc.

"Brett Dickinson"

DST #1

Mississippian

Interval (4338' – 4385') Anchor Length 47'

IHP	– 2164 #	
IFP	– 45" – Built to 7 in.	41-89 #
ISI	– 45" – Dead	1369 #
FFP	– 45" – Built to 3 in.	91-134 #
FSI	– 45" – Dead	1316 #
FHP	– 2139 #	
BHT	– 122°F	

Recovery: 5' Clean Oil  
 60' OCM 20% Oil  
 60' SOCM 5% Oil  
 60' MW 60% Water  
 Chlorides 20,000 ppm

## Structural Comparison

Formation	American Warrior, Inc. Hinnergardt #2-12 Sec. 12 T20s R21w 1800' FSL & 2200' FWL	Palomino Petroleum Roger Hinnergardt #1 Sec. 12 T20S R21W 2310' FSL & 2310' FEL	Nadel & Gussman Hinnergardt #1 Sec. 12 T20S R21W C SE SW
Anhydrite	1428', +811	1434', +802	1434', +795
Base	1457', +782	NA	NA
Heebner	3762', -1523	3756', -1520	3769', -1540
Lansing	3814', -1575	3804', -1568	3820', -1591
BKc	4138', -1899	4136', -1900	4156', -1927
Pawnee	4278', -2039	NA	NA
Fort Scott	4300', -2061	4292', -2056	4317', -2088
Cherokee	4318', -2079	4312', -2076	4332', -2103
Mississippian	4368', -2129	4361', -2125	4396', -2167

(+9)	(+16)
NA	NA
(-3)	(+17)
(-7)	(+16)
(+1)	(+28)
NA	NA
(-5)	(+27)
(-3)	(+24)
(-4)	(+38)

### Summary

The location for the Hinnergardt #2-12 was found via 3-D seismic survey. The new well ran structurally as expected via survey. One drill stem test was conducted in the Mississippian Formation which had negative results. After all gathered data had been thoroughly examined the decision was made to plug and abandon Hinnergardt #2-12 well.

Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

American Warrior Inc.

**Hinnergart #2-12**

**Sec.12Twp.20sRge.21w**

Job Ticket: 33048

**DST#: 1**

ATTN: Jason Alm

Test Start: 2008.08.28 @ 14:10:58

**GENERAL INFORMATION:**

Formation: **Miss.**  
 Deviated: **No** Whipstock:                   ft (KB)  
 Time Tool Opened: 18:10:58  
 Time Test Ended: 23:34:58  
**Interval: 4338.00 ft (KB) To 4385.00 ft (KB) (TVD)**  
 Total Depth: 4385.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:

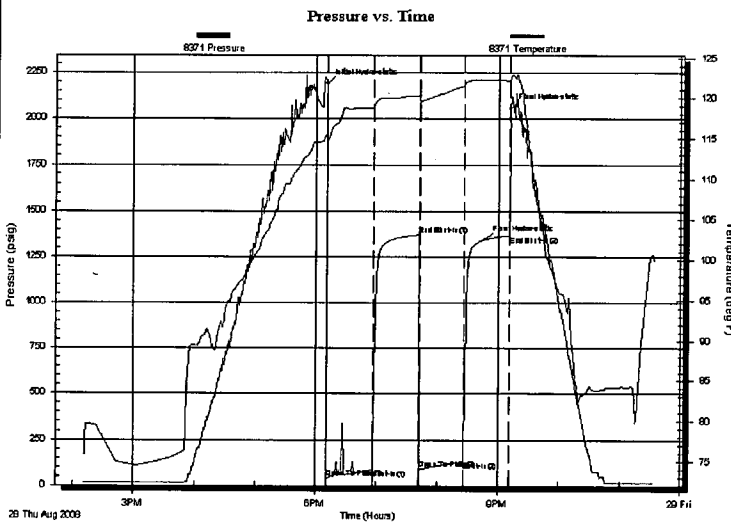
**RECEIVED**  
**SEP 17 2009**  
**KCC WICHITA**

Test Type: Conventional Bottom Hole  
 Tester: Brett Dickinson  
 Unit No: #41  
 Reference Elevations: 2239.00 ft (KB)  
 2234.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8371**      **Outside**  
 Press@RunDepth: 133.90 psig @ 4344.00 ft (KB)  
 Start Date: 2008.08.28      End Date: 2008.08.28  
 Start Time: 14:11:03      End Time: 23:34:58

Capacity: 7000.00 psig  
 Last Calib.: 2008.08.28  
 Time On Btm: 2008.08.28 @ 18:10:28  
 Time Off Btm: 2008.08.28 @ 20:46:27

**TEST COMMENT:** IF 7in blow  
 ISI no blow  
 FF 3in blow  
 FSI no blow



**PRESSURE SUMMARY**

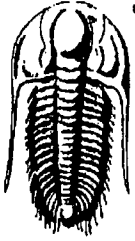
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.25	115.48	Initial Hydro-static
1	40.86	114.72	Open To Flow (1)
46	89.15	118.94	Shut-In(1)
91	1369.09	120.31	End Shut-In(1)
92	90.50	119.44	Open To Flow (2)
136	133.90	121.55	Shut-In(2)
156	1345.38	122.34	Final Hydro-static
181	1316.38	122.20	End Shut-In(2)
181	2054.88	122.51	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	Mud&w ater 40%M 60%W	0.84
60.00	95%M 5%O	0.84
60.00	80%M 20%O	0.84
5.00	Oil	0.07

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior Inc.

**Hinnergart #2-12**

**Sec.12Twp.20sRge.21w**

Job Ticket: 33048

**DST#: 1**

ATTN: Jason Alm

Test Start: 2008.08.28 @ 14:10:58

**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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud&water 40%M 60%W	0.842
60.00	95%M 5%O	0.842
60.00	80%M 20%O	0.842
5.00	Oil	0.070

Total Length: 185.00 ft

Total Volume: 2.596 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

