



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1251415  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1251415

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

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

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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 <i>(Explain)</i> _____
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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	Hinnergardt 3-12
Doc ID	1251415

Tops

Name	Top	Datum
Anhydrite	1449	799
Heebner	3763	-1515
Lansing	3814	-1566
Base Kansas City	4144	-1896
Pawnee	4272	-2024
Ft. Scott	4300	-2052
Cherokee	4316	-2068
Mississippian	4374	-2126
TD	4394	-2146



# **Geological Report**

American Warrior, Inc.  
**Hinnergardt #3-12**  
1000' FNL & 2240' FWL  
Sec. 12 T20s R21w  
Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Hinnergardt #3-12  
1000' FNL & 2240' FWL  
Sec. 12 T20s R21w  
Ness County, Kansas  
API # 15-135-25836-0000

Drilling Contractor: Discovery Drilling Rig #3

Geologist: Jason T Alm

Spud Date: January 16, 2015

Completion Date: January 23, 2015

Elevation: 2240' Ground Level  
2248' Kelly Bushing

Directions: Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 8  
mi South to 50 Rd. East 1 ½ mi, South into location.

Casing: 221' 8 5/8" surface casing  
4393' 5 1/2" production casing

Samples: 10' wet and dry, 4000' to RTD

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Phillip Gage"

Problems: None

Remarks: None

## Formation Tops

	<b>American Warrior, Inc.</b> <b>Hinnergardt #3-12</b> <b>Sec. 12 T20s R21w</b> <b>1000' FNL &amp; 2240' FWL</b>
<b>Formation</b>	
Anhydrite	<b>1449', +799</b>
Base	<b>1477', +771</b>
Heebner	<b>3763', -1515</b>
Lansing	<b>3814', -1566</b>
BKc	<b>4144', -1896</b>
Pawnee	<b>4272', -2024</b>
Fort Scott	<b>4300', -2052</b>
Cherokee	<b>4316', -2068</b>
Mississippian	<b>4374', -2126</b>
RTD	<b>4394', -2146</b>

## Sample Zone Descriptions

- Fort Scott (4300', -2052): Not Tested**  
 Ls – Fine to sub-crystalline with poor pinpoint inter-crystalline porosity, very light brown oil stain in porosity, slight show of free oil when broken, no odor, fair to good yellow fluorescents, slight chert, 10 units hotwire.
- Mississippian Osage (4374', -2126): Covered in DST #1**  
 Δ – Dolo – fine crystalline with poor to fair vuggy and inter-crystalline porosity, very heavy slightly triptolic chert, weathered in part. with fair to good vuggy porosity, light to good oil stain and fair spotted saturation, fair show of free oil, good odor, light to good yellow fluorescents, 55 units hotwire.

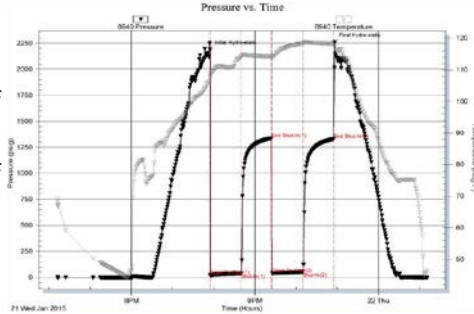
## Drill Stem Tests

Trilobite Testing, Inc.  
"Phillip Gage"

### DST #1      Mississippian Osage

Interval (4376' – 4387') Anchor Length 11'

IHP – 2186 #	
IFP – 45" – Built to 6 ½ in.	21-39 #
ISI – 45" – Dead	1337 #
FFP – 45" – Built to 5 ¾ in.	41-53 #
FSI – 45" – Dead	1329 #
FHP – 2257 #	
BHT – 118°F	



Recovery:	20' GIP	
	40' Clean Oil	
	63' VSWOCM	15% Oil, 5% Water

## Structural Comparison

	<b>American Warrior, Inc.</b> <b>Hinnergardt #3-12</b> <b>Sec. 12 T20s R21w</b> <b>1000' FNL &amp; 2240' FWL</b>	American Warrior, Inc. Hinnergardt #1-12 Sec. 12 T20s R21w 690' FNL & 1530' FWL		Ben Hinnergardt #1 National Oil Co. Sec. 12 T20s R21w 810' FNL & 1830' FEL	
<b>Formation</b>					
Anhydrite	<b>1449', +799</b>	1455', +800	<b>(-1)</b>	1450', +796	<b>(+3)</b>
Base	<b>1477', +771</b>	NA	<b>NA</b>	NA	<b>NA</b>
Heebner	<b>3763', -1515</b>	3784', -1526	<b>(+14)</b>	3764', -1518	<b>(+3)</b>
Lansing	<b>3814', -1566</b>	3833', -1578	<b>(+12)</b>	3815', -1569	<b>(+3)</b>
BKc	<b>4144', -1896</b>	NA	<b>NA</b>	NA	<b>NA</b>
Pawnee	<b>4272', -2024</b>	4293', -2038	<b>(+14)</b>	NA	<b>NA</b>
Fort Scott	<b>4300', -2052</b>	4320', -2065	<b>(+13)</b>	4305', -2059	<b>(+7)</b>
Cherokee	<b>4316', -2068</b>	4335', -2080	<b>(+14)</b>	NA	<b>NA</b>
Mississippian	<b>4374', -2126</b>	4397', -2142	<b>(+16)</b>	4378', -2132	<b>(+6)</b>



## Summary

The location for the Hinnergardt #3-12 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 ½ inch production casing to further evaluate the Hinnergardt #3-12 well.

## Recommended Perforations

**Primary:**

<b>Mississippian Osage</b>	<b>(4374' – 4389')</b>	<b>DST #1</b>
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**Before Abandonment:**

<b>Fort Scott</b>	<b>(4302' – 4308')</b>	<b>Not Tested</b>
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Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



Services, Inc.

CHARGE TO:

ADDRESS

American Warrior Trax

CITY, STATE, ZIP CODE

TICKET 26987

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <i>Haystack, KS</i>	<i>3-12</i>	<i>Haverhill</i>	<i>Miss</i>	<i>Ks</i>		<i>1-22-15</i>	<i>SOMRE</i>
2. <i>Haystack, KS</i>	TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
	<input checked="" type="checkbox"/> SERVICE	<i>Discovery Drilling</i>		<input checked="" type="checkbox"/> SALES	<i>Levelland</i>		
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
	<i>1-1</i>	<i>Development</i>	<i>Logging</i>				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
<i>575</i>					<i>MILEAGE # 111</i>	<i>30 mi</i>					<i>6.00</i>	<i>180.00</i>
<i>578</i>					<i>Pump Charge (Logging)</i>	<i>1 mi</i>					<i>150.00</i>	<i>150.00</i>
<i>221</i>					<i>RCL</i>	<i>2 mi</i>					<i>25.00</i>	<i>50.00</i>
<i>251</i>					<i>MudBlock</i>	<i>5 bags</i>					<i>1.25</i>	<i>6.25.00</i>
<i>290</i>					<i>D-A-</i>	<i>2 mi</i>					<i>42.00</i>	<i>84.00</i>
<i>402</i>					<i>Crabblers</i>	<i>5 mi</i>					<i>70.00</i>	<i>350.00</i>
<i>403</i>					<i>Baskets</i>	<i>2 mi</i>					<i>300.00</i>	<i>600.00</i>
<i>404</i>					<i>Part C Har</i>	<i>1 mi</i>					<i>2900.00</i>	<i>2900.00</i>
<i>406</i>					<i>LD Plat + Baffle</i>	<i>1 mi</i>					<i>275.00</i>	<i>275.00</i>
<i>407</i>					<i>Insert Fleat 1500 w/ 11.11</i>	<i>1 mi</i>					<i>375.00</i>	<i>375.00</i>

**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 *duke* DATE SIGNED *1-22-15* TIME SIGNED *1300*

AM  PM

**REMIT PAYMENT TO:**

**SWIFT SERVICES, INC.**  
**P.O. BOX 466**  
**NESS CITY, KS 67560**  
**785-798-2300**

<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	<input type="checkbox"/> YES	<input type="checkbox"/> NO
<b>SURVEY</b>	<b>AGREE</b>	<b>UN-DETERMINED</b>
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?		
<b>PAGE TOTAL</b>	<b>TAX</b>	<b>TOTAL</b>
<i>Page 2</i>	<i>11686</i>	<i>6939.00</i>
		<i>4747.50</i>



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

TICKET CONTINUATION

TICKET No. 26957

CUSTOMER: Am. Hills Warrior Inc

WEIGHT 312 Hogshead

DATE 1-22-15 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WEIGHT		MILEAGE		CUBIC FEET	TON MILES	UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M				
0325						Standard Cement	175	SKS					14.00	2537.50
276						Flux	50	#	10 1/2	1/4			2.00	125.00
293						S.H.	900	#	10 1/2	1/4			2.00	1800.00
284						Calc. 1	85	SKS	5	1/4			35.00	280.00
292						Molod. 322	125	#					8.00	1000.00
581						SERVICE CHARGE							2.00	350.00
585						MILEAGE CHARGE							1.00	275.00
SERVICE CHARGE 175 SKS MILEAGE CHARGE 18 SKS TOTAL WEIGHT 312 SKS LOADED MILES 50 CUBIC FEET 275 TON MILES 275													CONTINUATION TOTAL 4747.50	

**JOB LOG**

**SWIFT Services, Inc.**

DATE 1-22-15 PAGE NO.

CUSTOMER: American Well Services Inc. WELL NO. 3-12 LEASE: Hinningsfield JOB TYPE: Logging TICKET NO. 2698

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							calce w/ FE
								RTD 4394'
								5 1/2" x 15.5" x 4398' x 42'
								Cent 1, 2, 3, 4, 75
								Block 5, 76
								P.C. 76 @ 1411'
	0945							Start FE
	1140							Break Circ
	1200	2	7/5					Play R1/4MH 30/20 sk FA 2
	1209	5	0			200		Start 500 gal Mud Flush
		5	12/0			200		Start 20 66' KCL Flush
	1215	5	20/0			200		Start 125 sks FA 2 Cement
	1221		32					End Cement
								Wash FH
								Drop L.D. Plug
	1228	6	0			200		Start Displacement
	1241	5	78			250		catch Cement
	1245		103.5			750 <del>1400</del>		Lead Plug
								Release Pressure
								Flat Hold
Thank you								
Mike Austin + Sarah								



Services, Inc.

CHARGE TO:

ADDRESS: **American Landmark Inc.**

TICKET 28119

CITY, STATE, ZIP CODE

PAGE 1 OF 1

1. SERVICE LOCATIONS <b>Miss. Gary Ks</b>	WELL/PROJECT NO. <b>3-12</b>	LEASE <b>HANDS REPAIR</b>	COUNTY/PARISH <b>Miss</b>	STATE <b>Ks</b>	CITY	DATE <b>2-3-15</b>	OWNER <b>same</b>
2. TICKET TYPE <b>SALES</b>	CONTRACTOR <b>H. D. Well Services</b>	RIG NAME/NO.	SHIPPED BY <b>ST</b>	DELIVERED TO <b>LOCALIZED</b>	ORDER NO.	WELL LOCATION <b>BARRY K-4E, 8S, 17E, S</b>	
3. WELL TYPE <b>OH</b>	WELL CATEGORY <b>Development</b>	JOB PURPOSE <b>CEMSTR PORT COVER</b>					
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
578					MILEAGE # 114	25	MI			500	125.00
576D					PUMP GAGES - Port Cover	1	NOB			1250.00	1250.00
1DS					Port Cover Overage Fee	1	NOB			275.00	275.00
330					SURFT MIXTE - DROBT STAYDOWN	120	SUS			15.75	1890.00
276					FLOCS	50	UBS			2.25	112.50
290					D-ADR	2	GAL			42.00	84.00
581					SENITZE CURESE CONERT	175	SUS			1.50	262.50
582					MEDWVA DAVAGE CURE	17350	UBS	216.88	DM	2.50	250.00
Q											

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

DATE SIGNED: **2-3-15** TIME SIGNED: **0930** **K.A.M.**  
**E.P.M.**

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

<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		<input type="checkbox"/> YES		<input type="checkbox"/> NO	
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?		<input type="checkbox"/> AGREE	<input type="checkbox"/> UN-DECIDED	<input type="checkbox"/> DIS-AGREE	PAGE TOTAL <b>4249.00</b>
TAX		TOTAL		TAX	

SWIFT OPERATOR: **Dave Wilson** APPROVAL: \_\_\_\_\_

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 2-3-15 PAGE NO. 1

CUSTOMER American Warrick Inc WELL NO. 3-12 LEASE HILWEGARDT JOB TYPE CEMENT PORT COLLAR TICKET NO. 28119

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) / DAY	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0930							ON LOCATION
								2 3/8 x 5 1/2 PORT COLLAR - 1411
	1000				✓		1000	PSE TEST - HELD
	1010	3	2	✓		300		OPEN PORT COLLAR - TEST RATE
	1015	4	67	✓		300		MIX CEMENT 120 SKS SMD - 11.2 PPG
	1035	4	4 1/2	✓		500		DISPLACE CEMENT
	1045			✓		1000		CLOSE PORT COLLAR - PSE TEST - HELD
								CIRCULATE 15 SKS CEMENT TO SET
	1100	4	20	✓		400		RUN 5 JTS - CIRCULATE CLEAN
								WASH TRUCK
	1130							JOB COMPLETE
								THANK YOU WAYNE, ELIANT, PRESTON



Services, Inc.

TICKET 2010

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

PAGE 1 OF 1

SERVICE LOCATIONS: 1. NESS CITY, KS. WELL/PROJECT NO. \_\_\_\_\_ LEASE: HINMERGARD 3-12 COUNTY/PARISH: NESS STATE: KS CITY: ALEXANDER, KS DATE: 1/25/15 OWNER: \_\_\_\_\_  
 2. TICKET TYPE: DISCOVERY DRILLING CONTRACTOR: \_\_\_\_\_ RIG NAME/NO: #3 SHIPPED VIA: \_\_\_\_\_ DELIVERED TO: \_\_\_\_\_ ORDER NO.: \_\_\_\_\_  
 3. WELL TYPE: SALES WELL CATEGORY: DEVELOPMENT JOB PURPOSE: SURFACE PIPE WELL PERMIT NO.: \_\_\_\_\_ WELL LOCATION: 95, 2 1/2 W S E 1/4  
 4. REFERRAL LOCATION: \_\_\_\_\_ INVOICE INSTRUCTIONS: \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
275					MILEAGE # 115	30	M			6.00	180.00
5765					PUMP CHARGE	1	JOB			1000.00	1000.00
279					BARCIUM CHLORIDE	7	BOX			50.00	350.00
2910					GEL	3	BOX			25.00	75.00
325					D-AIR	1 1/2	94L			42.00	63.00
581					STANDARD CEMENT	150	BOX			14.50	2175.00
582					GENERAL SERVICE CHARGE	150	BOX			2.00	300.00
					MINIMUM DRAPE	14950	lbs	221.25	111	257.00	257.00

**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 New Deal  
 DATE SIGNED: 1/25/15 TIME SIGNED: 8:00 AM  
 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?  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 4395.00  
 TAX: .00  
 TOTAL: 4395.00

SWIFT OPERATOR: [Signature] APPROVAL: [Signature]  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 16 JAN 15 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. 3-12 LEASE HINNERGART JOB TYPE CEMENT SURFACE PUMP TICKET NO. 28195

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1830							ON LOCATION
	1830							START PIPE 8 5/8 - 23" BID @ 221 SET @ 221
	1904							CIRCULATE.
	1915	4	36		✓		100	MIX 150 G STD 2% BIL 3% CC
		3	13		✓			DISPLACE CEMENT
	1930				✓		200	SHUT WELL IN. CIRCULATE CEMENT TO SURFACE.
	1931							WASH TRUCK
	2000							JOB COMPLETE.
								THANKS !!!
								JASON DAVE POLE TYLER





## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

3118 Cumming Rd  
P.O. Box 399  
Garden City, KS 67846

ATTN: Jason Alm

### **Hinnergardt #3-12**

#### **12-20s-21w Ness,KS**

Start Date: 2015.01.21 @ 16:12:00

End Date: 2015.01.22 @ 01:11:00

Job Ticket #: 60999                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.22 @ 13:34:34



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc  
3118 Cumming Rd  
P.O. Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

**12-20s-21w Ness,KS**

**Hinnergardt #3-12**

Job Ticket: 60999

**DST#: 1**

Test Start: 2015.01.21 @ 16:12:00

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:54:30

Time Test Ended: 01:11:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 73

**Interval: 4376.00 ft (KB) To 4387.00 ft (KB) (TVD)**

Reference Elevations: 2248.00 ft (KB)

Total Depth: 4387.00 ft (KB) (TVD)

2240.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8940 Outside**

Press@RunDepth: 52.92 psig @ 4377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.21

End Date:

2015.01.22

Last Calib.:

2015.01.22

Start Time: 16:12:05

End Time:

01:11:00

Time On Btm:

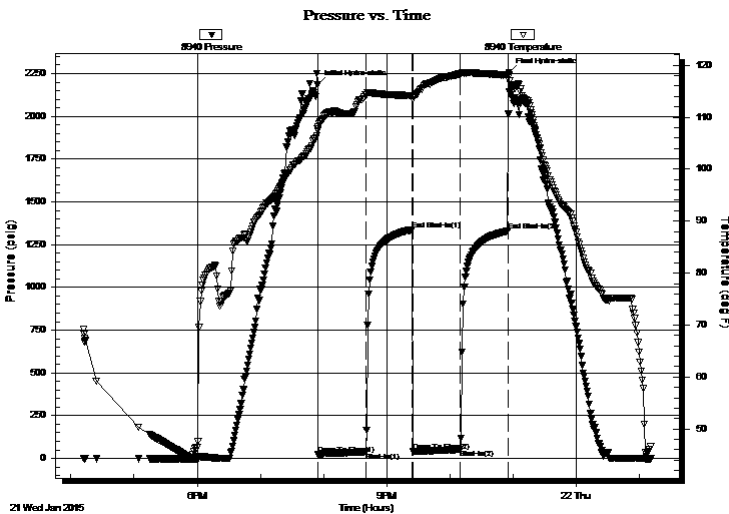
2015.01.21 @ 19:54:15

Time Off Btm:

2015.01.21 @ 22:56:15

**TEST COMMENT:** 45-IF-Built to 6 1/2"  
45-ISI-No Return  
45-FF-Built to 5 3/4"  
45-FSI-Weak Surface Return, died in 15 mins

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.33	107.70	Initial Hydro-static
1	21.95	107.43	Open To Flow (1)
46	38.77	114.27	Shut-In(1)
90	1337.20	114.19	End Shut-In(1)
91	41.43	113.46	Open To Flow (2)
136	52.92	118.30	Shut-In(2)
181	1329.49	118.17	End Shut-In(2)
182	2256.83	117.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	VSWOCM, 5%w, 15%o, 80%m	0.60
40.00	O, 100%o	0.56
0.00	GIP-20'	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

American Warrior, Inc

**12-20s-21w Ness,KS**

3118 Cumming Rd  
 P.O. Box 399  
 Garden City, KS 67846  
 ATTN: Jason Alm

**Hinnergardt #3-12**

Job Ticket: 60999      **DST#: 1**  
 Test Start: 2015.01.21 @ 16:12:00

**GENERAL INFORMATION:**

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:54:30

Time Test Ended: 01:11:00

**Interval: 4376.00 ft (KB) To 4387.00 ft (KB) (TVD)**

Total Depth: 4387.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 73

Reference Elevations: 2248.00 ft (KB)

2240.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8648**

Inside

Press@RunDepth:              psig @ 4377.00 ft (KB)

Start Date: 2015.01.21

End Date:

2015.01.22

Capacity: 8000.00 psig

Last Calib.:

2015.01.22

Start Time: 16:12:05

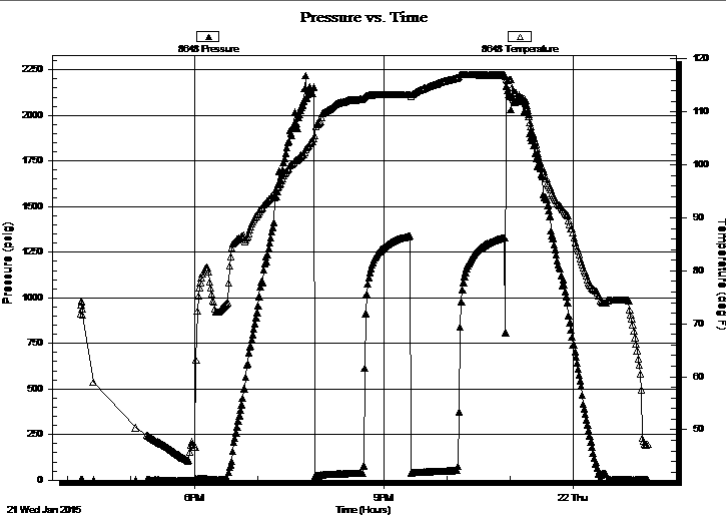
End Time:

01:11:15

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 45-IF-Built to 6 1/2"  
 45-ISI-No Return  
 45-FF-Built to 5 3/4"  
 45-FSI-Weak Surface Return, died in 15 mins



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	VSWOCM, 5%w , 15%o, 80%m	0.60
40.00	O, 100%o	0.56
0.00	GIP-20'	0.00

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc

**12-20s-21w Ness, KS**

3118 Cumming Rd  
P.O. Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

**Hinnergardt #3-12**

Job Ticket: 60999

**DST#: 1**

Test Start: 2015.01.21 @ 16:12:00

## Tool Information

Drill Pipe:	Length: 4341.00 ft	Diameter: 3.80 inches	Volume: 60.89 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 61.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4376.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 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			4349.00	
Shut In Tool	5.00			4354.00	
Hydraulic tool	5.00			4359.00	
Jars	5.00			4364.00	
Safety Joint	3.00			4367.00	
Packer	5.00			4372.00	28.00 Bottom Of Top Packer
Packer	4.00			4376.00	
Stubb	1.00			4377.00	
Recorder	0.00	8648	Inside	4377.00	
Recorder	0.00	8940	Outside	4377.00	
Perforations	7.00			4384.00	
Bullnose	3.00			4387.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 39.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc

**12-20s-21w Ness,KS**

3118 Cumming Rd  
P.O. Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

**Hinnergardt #3-12**

Job Ticket: 60999

**DST#: 1**

Test Start: 2015.01.21 @ 16:12:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3400.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 31 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	VSWOCM, 5%w, 15%o, 80%m	0.601
40.00	O, 100%o	0.561
0.00	GIP-20'	0.000

Total Length: 103.00 ft      Total Volume: 1.162 bbl

Num Fluid Samples: 0

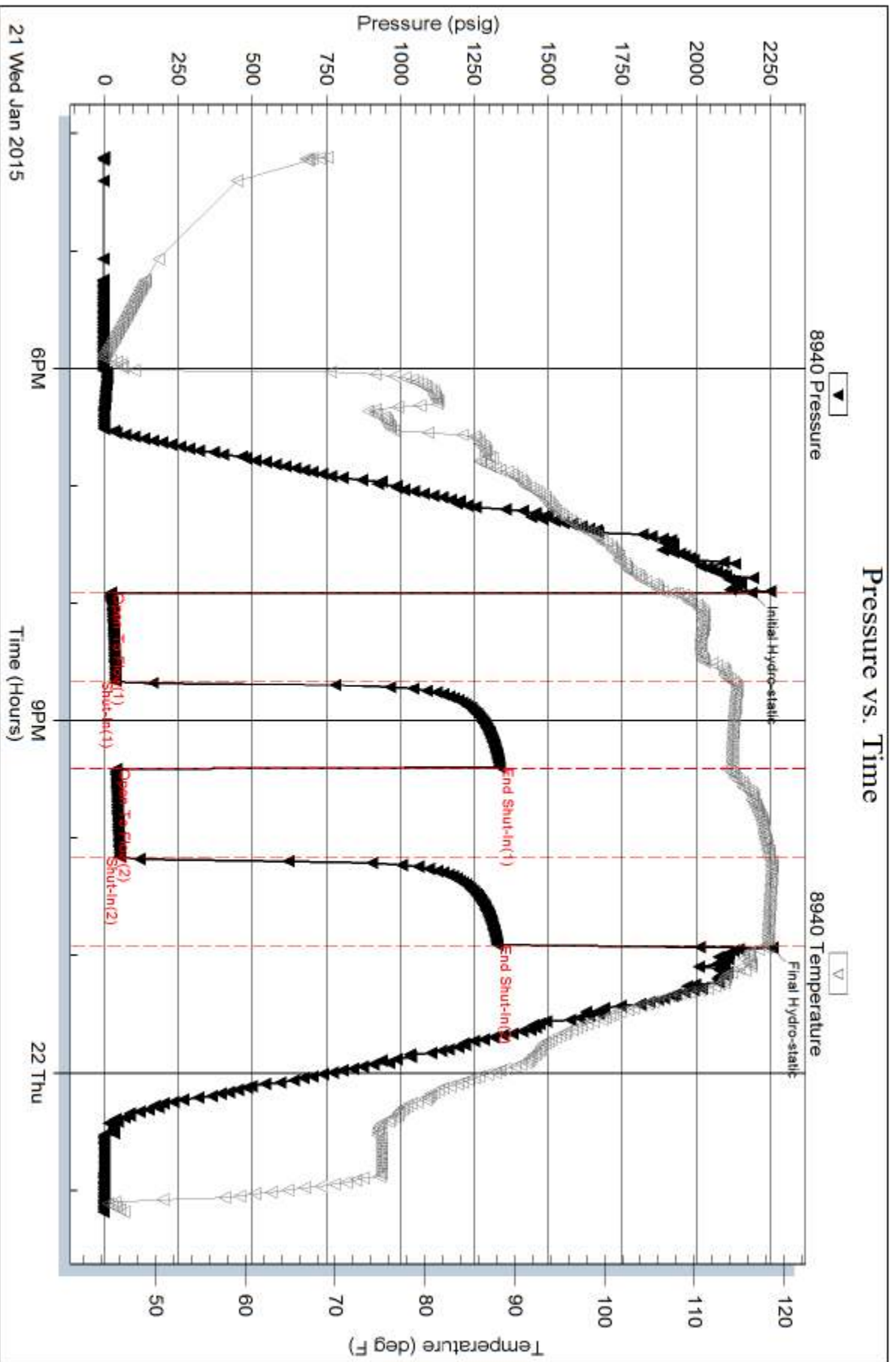
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



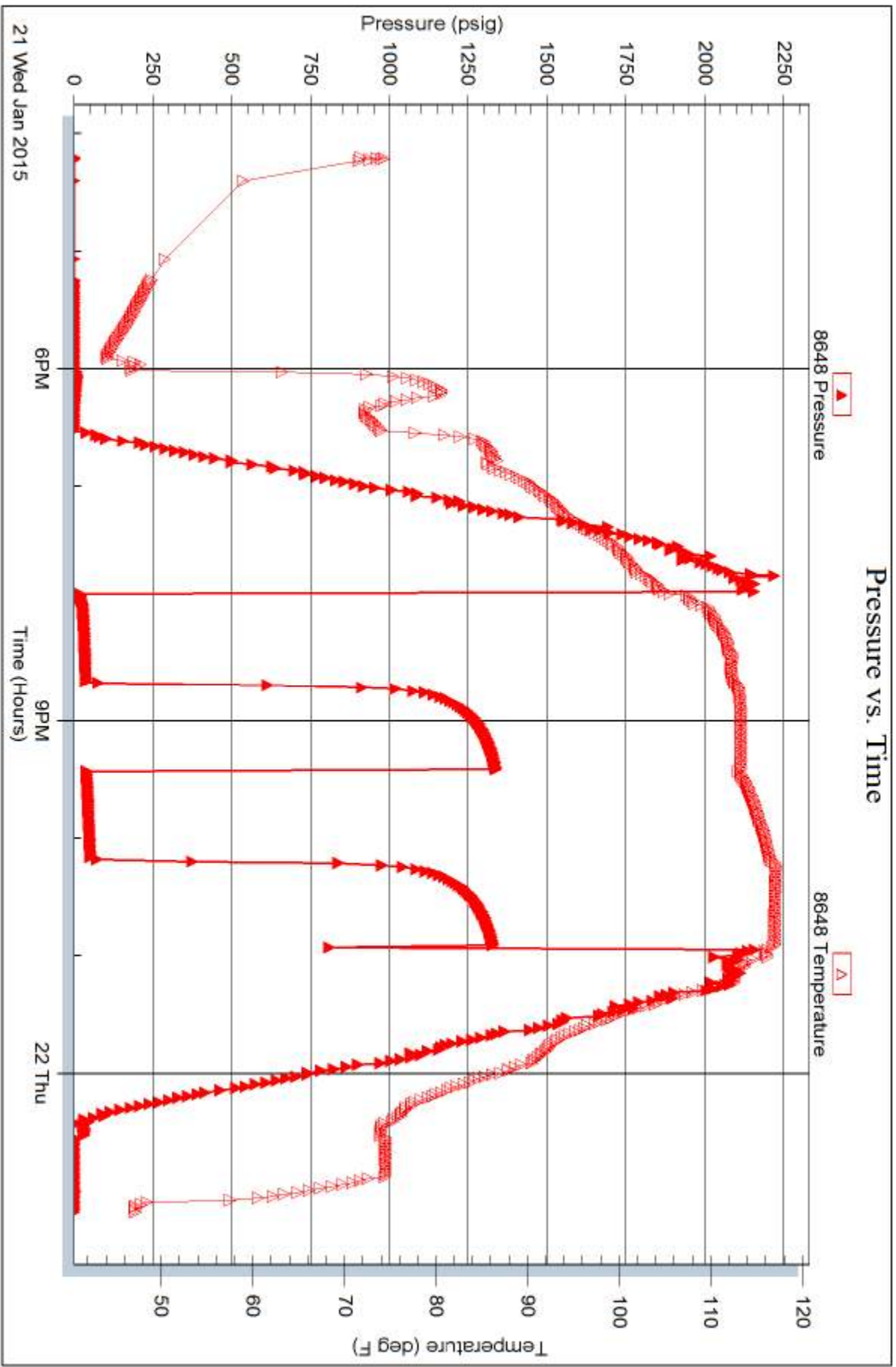
Serial #: 8648

Inside

American Warrior, Inc

Hinnergardt #3-12

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60999

Printed: 2015.01.22 @ 13:34:36



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60999

Well Name & No. Hinnergardt #3-12 Test No. 1 Date 1-21-15  
 Company American Warrior, Inc. Elevation 2248 KB 2240 GL  
 Address 3118 Cammings RD P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery Rig #3  
 Location: Sec. 12 Twp. 20s Rge. 21w Co. Niss State KS

Interval Tested 4376-4387 Zone Tested Niss  
 Anchor Length 11' Drill Pipe Run 4341 Mud Wt. 9.1  
 Top Packer Depth 4371 Drill Collars Run 31 Vis 49  
 Bottom Packer Depth 4376 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4387 Chlorides 3,400 ppm System LCM 1#  
 Blow Description IF Buite to 6h"  
 tse No Return  
 FF Buite to 5 3/4"  
 FSI Weak Surface Return, died in 15 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>63'</u>	<u>VSWOCM</u>		<u>15%</u>	<u>5%</u>	<u>80%</u>
<u>40'</u>	<u>0</u>		<u>100%</u>		
<u>0</u>	<u>GIP-201</u>	<u>100%</u>			

Rec Total 103' BHT 118 Gravity 31 API RW @ °F Chlorides — ppm

(A) Initial Hydrostatic <u>2,186</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>15:50</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>16:12</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:56</u>
(D) Initial Shut-In <u>1,337</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>22:56</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:12</u>
(F) Second Final Flow <u>52</u>	<input checked="" type="checkbox"/> Mileage <u>112 RT 112</u>	Comments
(G) Final Shut-In <u>1,329</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2,256</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	
	<input type="checkbox"/> Extra Packer	
	<input type="checkbox"/> Extra Recorder	
	<input type="checkbox"/> Day Standby	
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1587</u>	

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

Sub Total 1587 Total 1587 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Mike Jones Thank You

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.