



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



1054559

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
---	---

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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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 <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Rachel 1-8
Doc ID	1054559

Tops

Name	Top	Datum
Anhydrite	1402	777
Heebner	3650	-1471
Lansing	3696	-1517
BKC	4022	-1843
Pawnee	4103	-1924
Ft. Scott	4178	-1999
Cherokee	4194	-2015
Mississippian	4274	-2095
TD	4296	-2117



Services, Inc.

TICKET  
20128

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

PAGE 1 OF 1

SERVICE LOCATIONS: 1. Ness, KS  
WELL PROJECT NO.:  
LEASE: RACHET 1-28  
COUNTY: NESS  
STATE: KS  
CITY: BAZINE, KS  
DATE: 2/5/11  
OWNER:  
TICKET TYPE: SERVICE SALES  
CONTRACTOR: RETRO MARK DRILLING  
RIG NAME NO.:  
SHIPPED VIA: DELIVERED TO LOCATION  
ORDER NO.:  
WELL TYPE: OIL  
WELL CATEGORY: DEVELOPMENT  
JOB PURPOSE: CEMENT 8 5/8  
WELL PERMIT NO.:  
WELL LOCATION: 151 & E. S. 15th

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE \$ 110	20	mi			5.00	100.00
5765		1			Pump Charge	150	lb	225	ft.	7.50	750.00
290		1			D-AIR	1	hr			35.00	35.00
278		1			CALCIUM CHLORIDE	4	5x			35.00	140.00
279		1			GEL	3	5x			25.00	75.00
325		1			STANDARD CEMENT	150	5x			12.00	1800.00
581		1			SEWER CHARGE CEMENT	150	5x			1.50	225.00
582		1			MINIMUM DRAGAGE	14720	lbs	147.20	TM	25.00	2500.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.  
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 2/5/11 TIME SIGNED: 8:00 AM  
X

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: 3375.00  
TAX:  
TOTAL:

SWIFT OPERATOR: [Signature]  
CUSTOMER ACCEPTANCE OF MATERIALS SERVICES: [Signature]  
APPROVAL:  
Thank you!

JOB LOG

SWIFT Services, Inc.

DATE 24 JAN 11 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE RACHEL 1-28 JOB TYPE CEMENT 8 5/8 TICKET NO. 20128

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0500							ON LOCATION
	0615							START PIPE 8 5/8 - 23 <sup>4</sup> RTDC 223
	0650							CIRCULATE.
	0704	4	36		✓			MIX 150 Sx STD 2% GEL 3% CC @ 14.7 ppv.
	0717	3	13		✓		200	DISPLACE CEMENT.
								CIRCULATE CEMENT TO SURFACE
	0722							SHUT WELL IN.
								WASH TRUCK
	0800							JOB COMPLETE.
								THANKS #110
								JASON JEFF LANE.



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

TICKET 20078

PAGE 1 OF 1

SERVICE LOCATIONS: North KS WELL/PROJECT NO: 1-8 LEASE: Rachel COUNTY/PARISH: Wood STATE: KS CITY: Boziman DATE: 3/26/11 OWNER: \_\_\_\_\_

TICKET TYPE:  SERVICE  SALES CONTRACTOR: \_\_\_\_\_ RIG NAME/NO.: \_\_\_\_\_ SHIPPED VIA: TRUCK DELIVERED TO: Location ORDER NO.: \_\_\_\_\_

WELL TYPE: 0,1 WELL CATEGORY: Production JOB PURPOSE: Development Rotary Plug WELL PERMIT NO.: \_\_\_\_\_ WELL LOCATION: 1-5-1-E

INVOICE INSTRUCTIONS: \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<del>575</del>					MILEAGE TRK 114	20	M.			5.00	100.00
576 P					Fump Charge	1	P.			750.00	750.00
388-4					Colgar Poz 40hp gal			230	SK	9.75	2242.50
276					Fluocel			50	lb	1.50	75.00
890					D-AIR	2	gal			35.00	70.00
581					Service Charge	230	SK			1.50	345.00
582					Drayage (min)	1	ea			250.00	250.00

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

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

X DATE SIGNED: \_\_\_\_\_ TIME SIGNED: 1245  AM  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	3832	50
TAX		
TOTAL		

SWIFT OPERATOR: BC 2011 APPROVAL: \_\_\_\_\_

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





# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

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

**Rachel #1-8**  
**8/19S/21W**  
Job Ticket: 41832      **DST#: 1**  
Test Start: 2011.01.29 @ 09:59:38

### GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 11:49:33  
 Time Test Ended: 14:40:02

Test Type: Conventional Bottom Hole  
 Tester: Dustin Rash  
 Unit No: 42

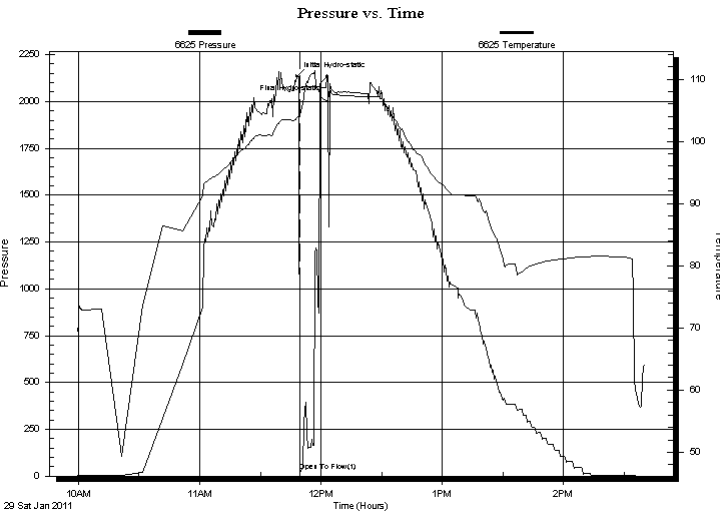
Interval: **4272.00 ft (KB) To 4288.00 ft (KB) (TVD)**  
 Total Depth: 4288.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Poor

Reference Elevations: 2179.00 ft (KB)  
 2173.00 ft (CF)  
 KB to GR/CF: 6.00 ft

### Serial #: 6625      Inside

Press @ Run Depth:      psig @ 4273.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.01.29      End Date: 2011.01.29      Last Calib.: 2011.01.29  
 Start Time: 09:59:38      End Time: 14:40:02      Time On Btm: 2011.01.29 @ 11:48:03  
 Time Off Btm: 2011.01.29 @ 12:03:03

TEST COMMENT: Misrun



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.30	103.75	Initial Hydro-static
2	26.51	104.36	Open To Flow (1)
15	2132.98	106.62	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)

### Gas Rates

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





**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**Rachel #1-8**

P.O. Box 399  
Garden City, KS 67846

**8/19S/21W**

Job Ticket: 41832

**DST#: 1**

ATTN: Jason Alm

Test Start: 2011.01.29 @ 09:59:38

## 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: 47.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

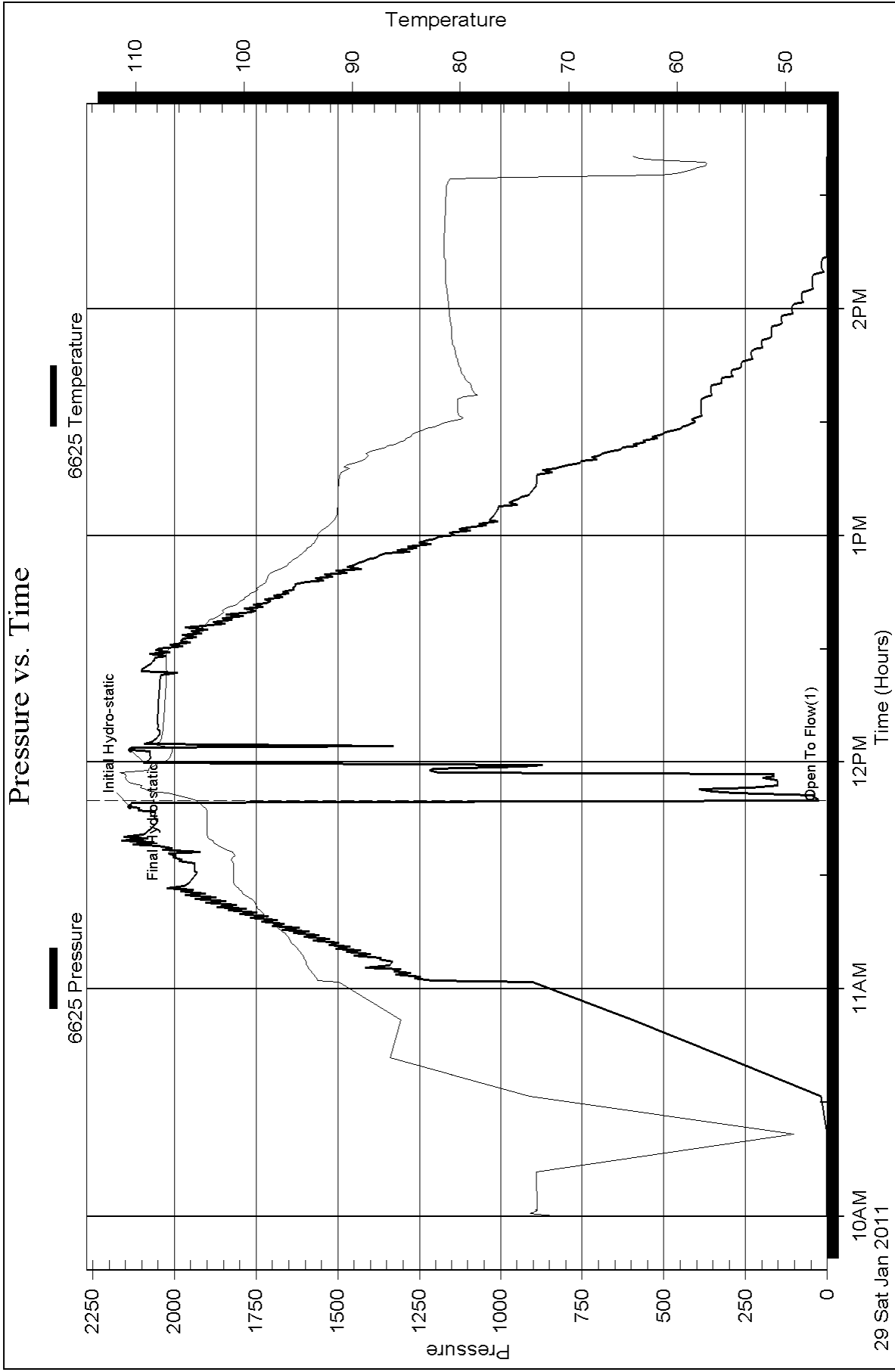
Length ft	Description	Volume bbbl

Total Length:                      ft      Total Volume:                      bbl

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

Laboratory Name:                      Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

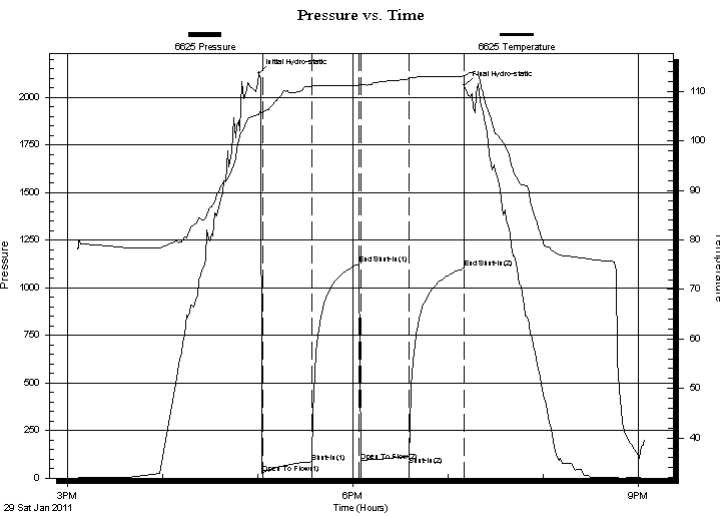
**Rachel #1-8**  
**8/19S/21W**  
Job Ticket: 41833      **DST#: 2**  
Test Start: 2011.01.29 @ 15:06:24

## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 17:02:54  
Time Test Ended: 21:04:24  
Interval: **4195.00 ft (KB) To 4288.00 ft (KB) (TVD)**  
Total Depth: 4288.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Poor  
Test Type: Conventional Bottom Hole  
Tester: Dustin Rash  
Unit No: 42  
Reference Elevations: 2179.00 ft (KB)  
2173.00 ft (CF)  
KB to GR/CF: 6.00 ft

**Serial #: 6625      Inside**  
Press @ Run Depth: 113.49 psig @ 4261.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.01.29      End Date: 2011.01.29      Last Calib.: 2011.01.29  
Start Time: 15:06:29      End Time: 21:04:23      Time On Btm: 2011.01.29 @ 17:00:54  
Time Off Btm: 2011.01.29 @ 19:10:24

**TEST COMMENT:** IF-Weak building blow . Built to 6 inches.  
ISI-No Return.  
FF-Weak building blow . Built to 5 inches.  
FSI-No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2126.96	105.35	Initial Hydro-static
2	27.44	105.82	Open To Flow (1)
33	85.68	111.09	Shut-In(1)
63	1124.59	111.30	End Shut-In(1)
64	89.96	111.11	Open To Flow (2)
95	113.49	112.68	Shut-In(2)
129	1102.33	113.13	End Shut-In(2)
130	2062.69	113.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	100%Mud	0.30
132.00	95%Mud/5%Oil	1.30
3.00	100%Oil	0.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**Rachel #1-8**

P.O. Box 399  
Garden City, KS 67846

**8/19S/21W**

Job Ticket: 41833

**DST#: 2**

ATTN: Jason Alm

Test Start: 2011.01.29 @ 15:06:24

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	100%Mud	0.295
132.00	95%Mud/5%Oil	1.296
3.00	100%Oil	0.042

Total Length: 195.00 ft

Total Volume: 1.633 bbl

Num Fluid Samples: 0

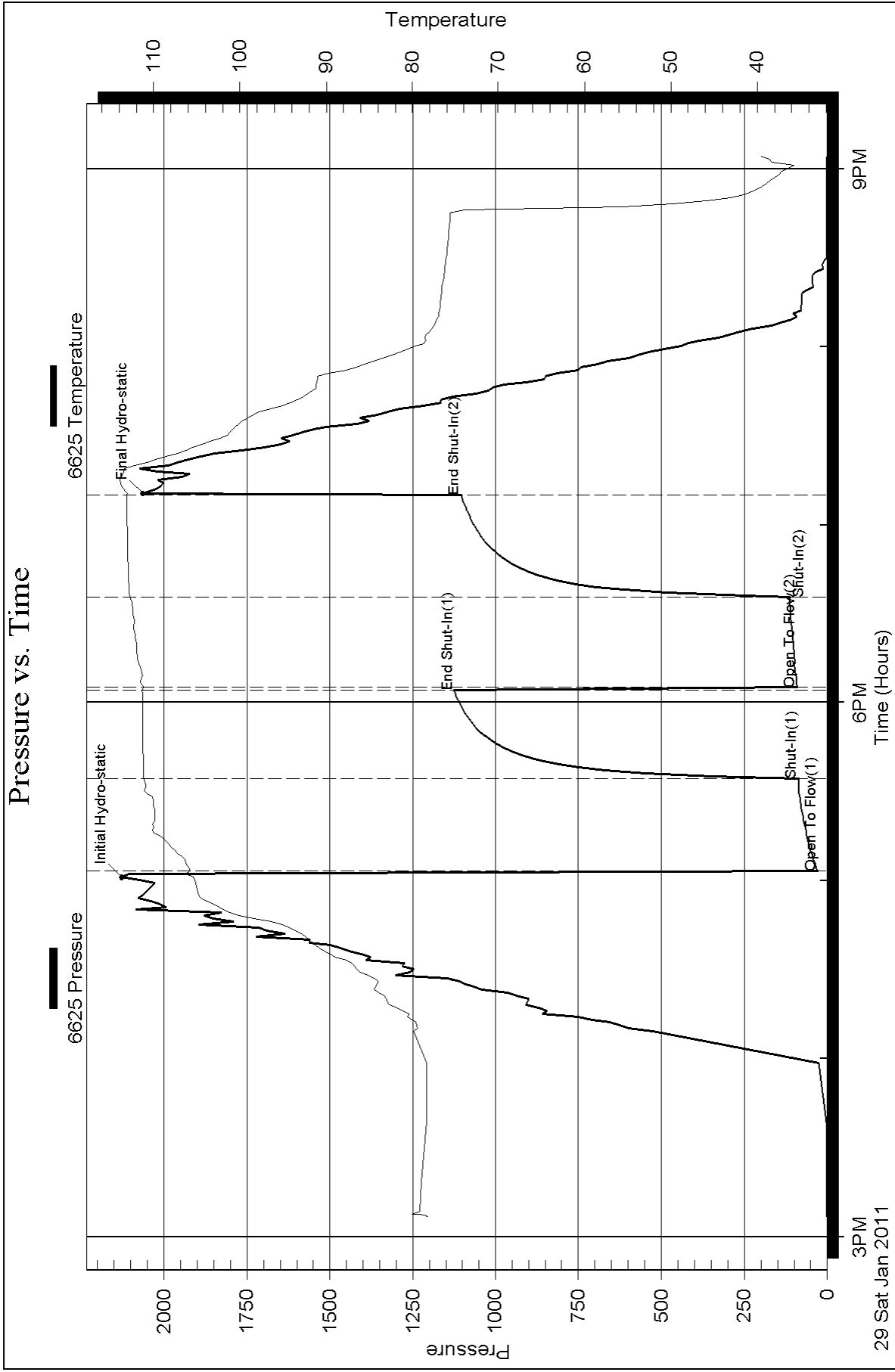
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**Rachel #1-8**  
**8/19S/21W**  
Job Ticket: 41834      **DST#: 3**  
Test Start: 2011.01.29 @ 05:04:39

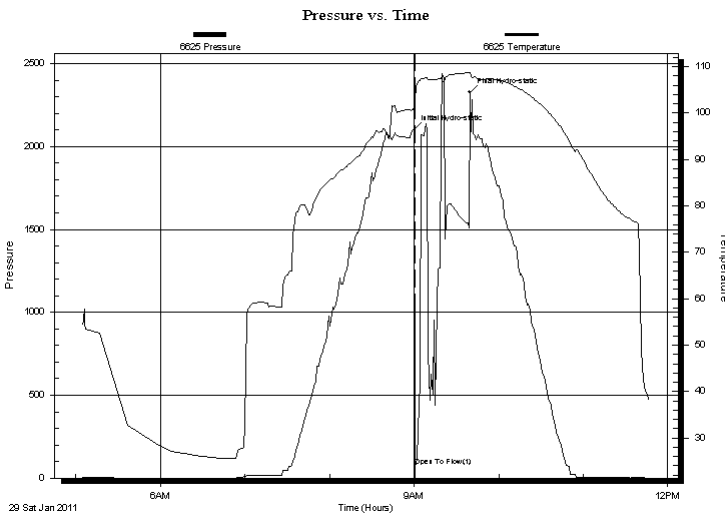
## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 09:00:39  
Time Test Ended: 11:47:39  
**Interval: 4287.00 ft (KB) To 4295.00 ft (KB) (TVD)**  
Total Depth: 4295.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Poor

Test Type: Conventional Bottom Hole  
Tester: Dustin Rash  
Unit No: 42  
Reference Elevations: 2179.00 ft (KB)  
2173.00 ft (CF)  
KB to GR/CF: 6.00 ft

**Serial #: 6625      Inside**  
Press @ Run Depth:      psig @ 4292.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.01.29      End Date: 2011.01.29      Last Calib.: 2011.01.30  
Start Time: 05:04:44      End Time: 11:47:38      Time On Btm: 2011.01.29 @ 09:00:09  
Time Off Btm: 2011.01.29 @ 09:39:39

**TEST COMMENT:** Tagged 12' high. Tried to get tool to bottom. Set packers, slid 6 feet. Reset packers, tagged 6' high. Could not get tool to bottom.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.64	101.30	Initial Hydro-static
1	72.12	102.87	Open To Flow (1)
40	2327.74	108.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	100%Mud	0.30

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**Rachel #1-8**

P.O. Box 399  
Garden City, KS 67846

**8/19S/21W**

Job Ticket: 41834

**DST#: 3**

ATTN: Jason Alm

Test Start: 2011.01.29 @ 05:04:39

## 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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	100%Mud	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

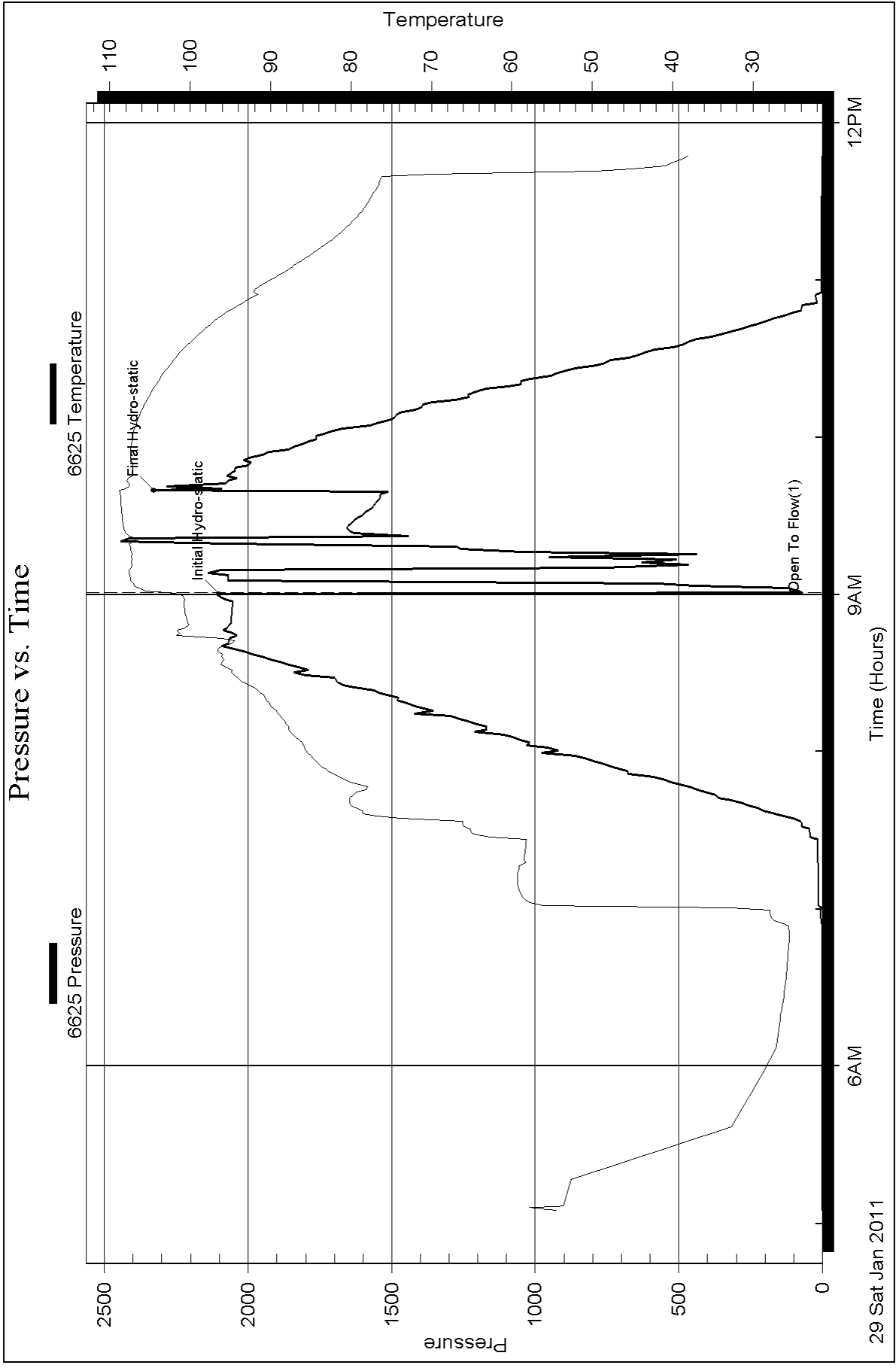
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**DRILL STEM TESTS**

No.	Interval	FP/Time	MP/Time	FP/Time	FP/Time	FP/Time	MP-TM	REMARKS

**REMARKS AND RECOMMENDATIONS**

The location for the Kachel #1-8 wires found in 3-8 seismic survey. The overall geo-structurally expected in the survey. Five test steps were made and a total of 4 tests were needed. After all gathered data had been examined, the decision was made to plug and abandon the Kachel #1-8 well.

Respectfully Submitted,

*[Signature]*  
2-4-2011

**LEGEND**

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool. Lime	Chert	Dolomite

LITHOLOGY

DEPTH

DRILLING TIME  
(Logarithmic Scale)

.5     1     2     3     4     5     10     15     20     30

SAMPLE DESCRIPTIONS

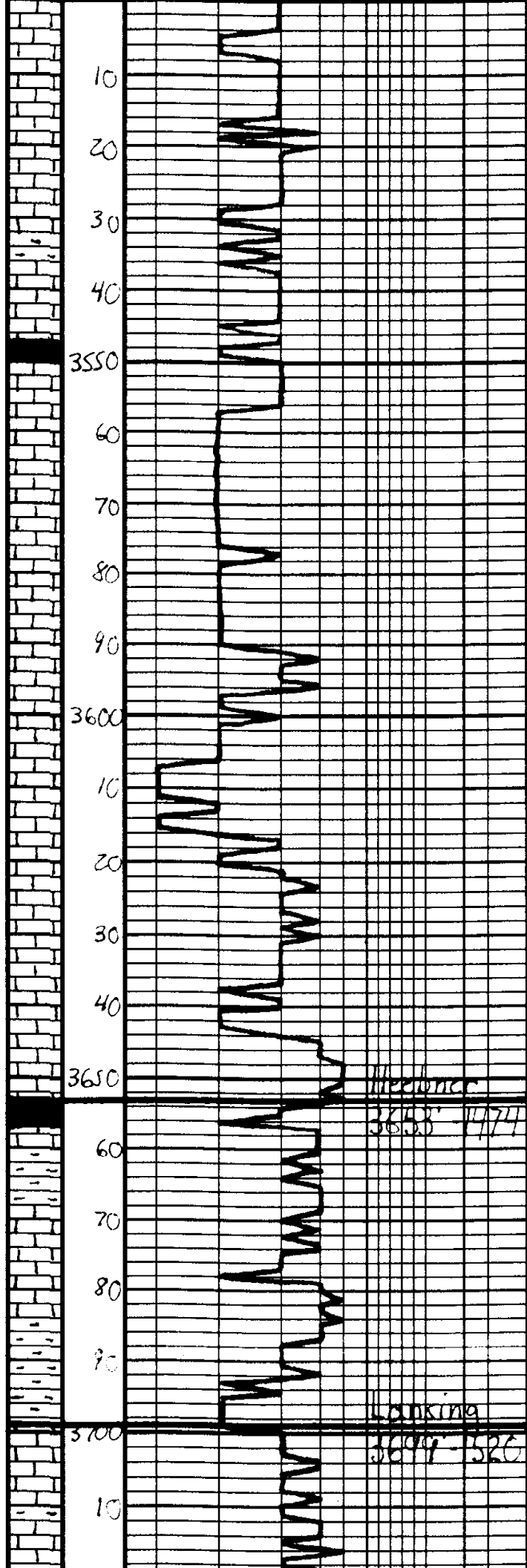
REMARKS

7514

LOG 7702

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HOLES  
FEET  
IN CUT



Ls - Tan Lt Gray, Fx sls  
Mottled, Borden

Ls - a/c

Sh - Gray - Dk Gray

Ls - Off wh - Lt Gray, Fx sls  
Mottled, Borden

Ls - a/c

Ls - Tan - Lt Gray, Fx sls  
Mottled, Borden

Ls - a/c, Mostly D&S

Ls - a/c

Sh - Blk, Carb. Fossils

Sh - Gray - Bca - Gcn

Ls - Off wh - Tan, Fx sls w/  
fine interstia of Borden

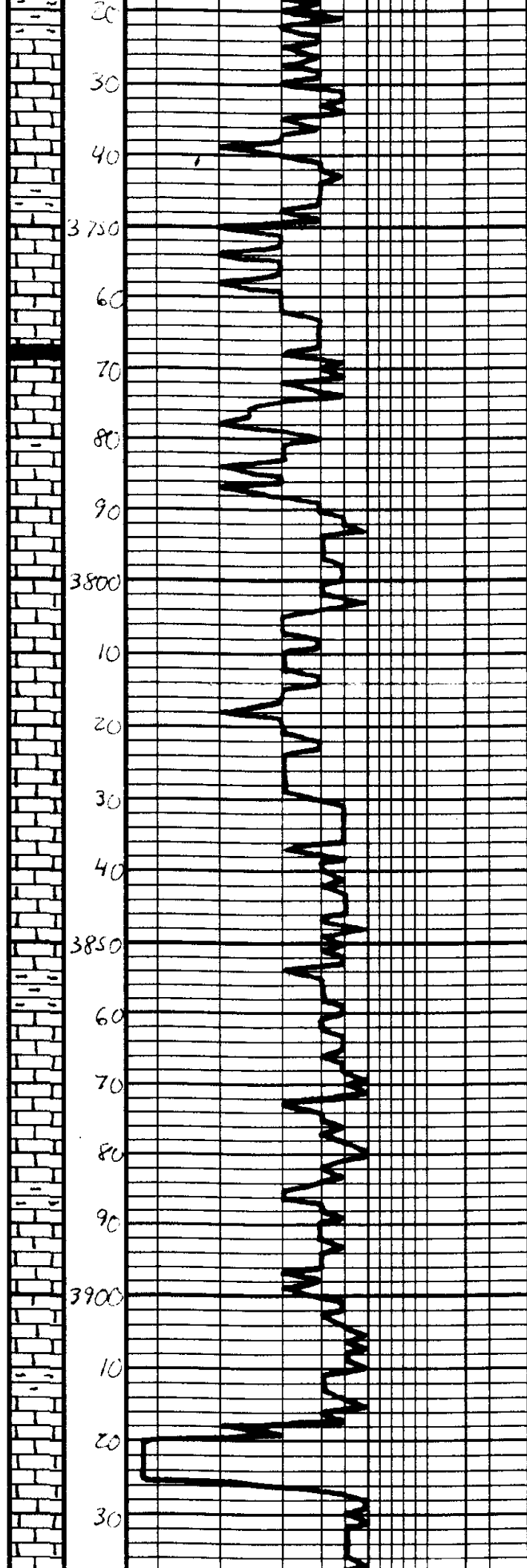
Sh - Gray - Gcn, Sh - clay

Ls - Tan - Lt Gray, Fx sls, Col  
w/ poor con of Borden

Geo on location  
1:00 p.m. 1-27-2011

Meekins  
3610' - 11774  
3650

Linking  
3699' - 526  
3700



Sh. Gray-Bcn

Ls. Tan. Offsh. F. a. l. w. l. Del. w/ Fair interstr. Baccan

Ls. Offsh. Lt. Gray. F. a. l. w. l. Del. w/ Fair com. B. S. W. l. Gray. Baccan

Sh. Dck Gray

Ls. Offsh. Tan. F. a. l. w. l. Del. w/ Fair com. B. S. W. l. Gray. Baccan

Ls. a/c. DNS

Ls. Tan. Lt. Gray. F. a. l. w. l. Del. w/ Fair com. B. S. W. l. Gray. Baccan

Ls. a/c

Ls. Tan. Lt. Gray. F. a. l. w. l. Del. w/ Fair com. B. S. W. l. Gray. Baccan

Sh. Gray-Bcn

Ls. Tan. Lt. Gray. F. a. l. w. l. Del. w/ Fair com. B. S. W. l. Gray. Baccan

Sh. Gray-Bcn

Ls. Tan. Lt. Gray. F. a. l. w. l. Del. w/ Fair com. B. S. W. l. Gray. Baccan

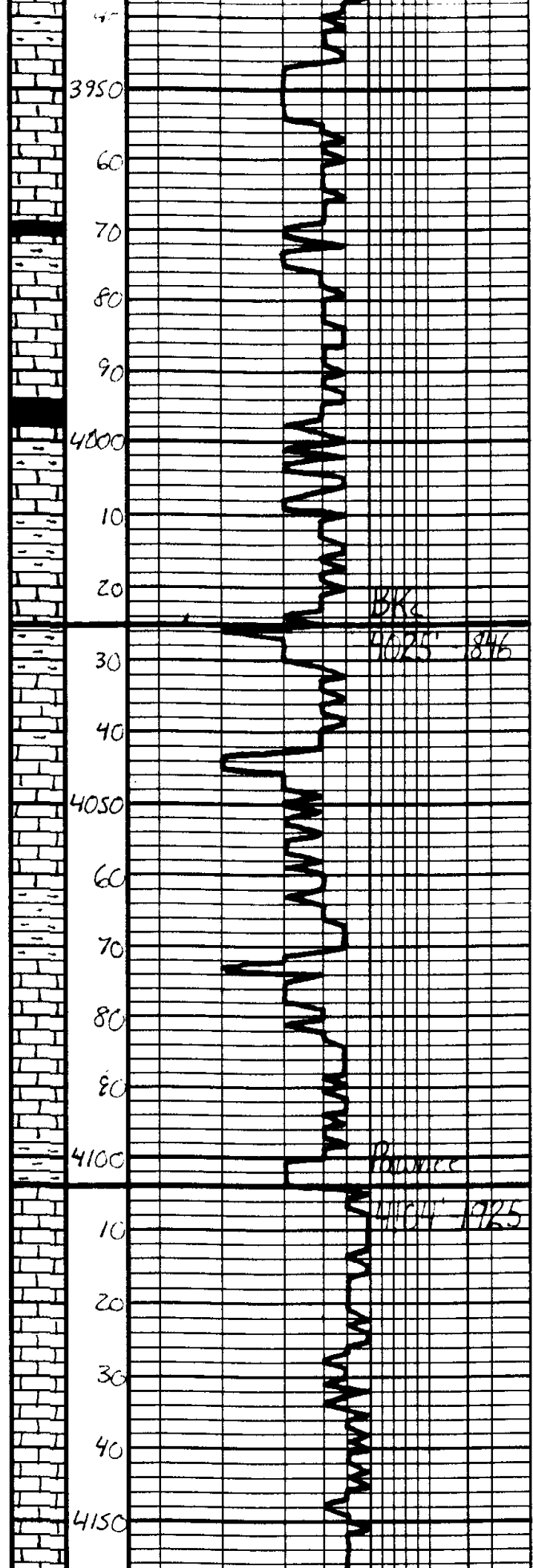
Sh. Gray-Bcn

Ls. Tan. Lt. Gray. F. a. l. w. l. Del. w/ Fair com. B. S. W. l. Gray. Baccan

Sh. Gray-Bcn

Ls. Tan. Lt. Gray. F. a. l. w. l. Del. w/ Fair com. B. S. W. l. Gray. Baccan

Ls. a/c. DNS



LS - Tan - Lt Gray, Earth, Dol  
 w/ poor cov. of Bacteria

LS - blk, DNS

Sh - Dark Gray - BLK

LS - Tan - Lt Gray, Substr., DNS

Sh - BLK, Carb

LS - Tan - Gray, Substr., DNS

LS - blk

Sh - Gray - Tan - Green

LS - Tan - Gray, Mottled, DNS

LS - Tan, Earth, Dol w/ Fair  
 cov. of Bacteria

LS - blk, DNS

Sh - Gray - Green

LS - Tan - Offish, Earth, Dol w/ Fair  
 cov. of Bacteria

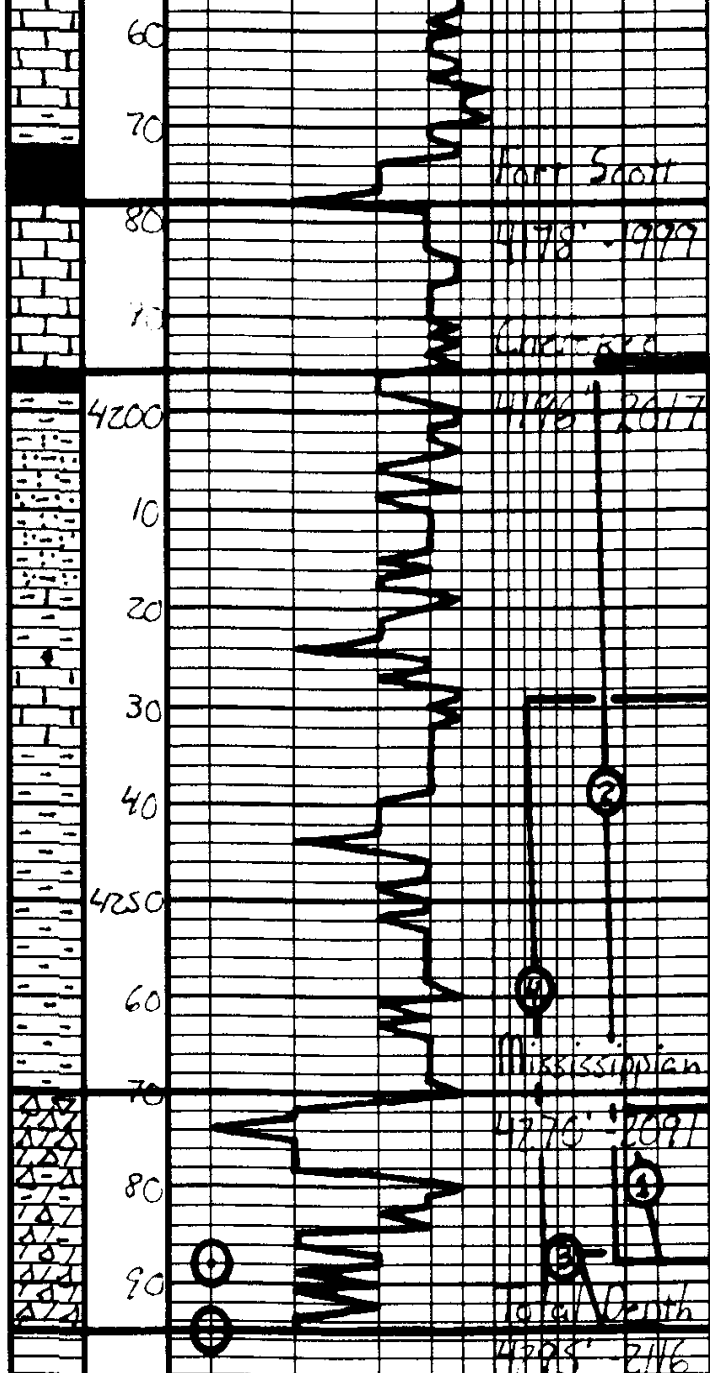
LS - blk, Substr., DNS

Sh - Gray - Green

LS - Offish - Lt Gray, Earth, Sub  
 str., DNS

LS - blk, Substr., DNS

LS - Tan - Lt Gray, Substr., DNS



Port Scott 23

4178' 1999

Chickasha

4200' 2017

Mississippi

4270' 2097

Total Depth

4295' 2/16

LS - a/a

Sh - Gray

Sh - Blk. Carb

LS - Offsh. Tan. Fr. Subgray  
 Scot. prop. in carb. V. Lb  
 part of it. No Fl. Muddy  
 Thin Muddy Brown

Sh - Dk Gray - Blk

Sh - Gray - Ben - Green. Few thin clay  
 clusters. Brown

Sh - Gray - Ben - Green, S. a/a  
 Few Keokuk spec. lat. Brown

Sh - Gray - Ben - Green

LS - Tan - Lb Gray. Subgray  
 DNS

Sh - Gray - Ben - Green, Sh. Lb  
 Vel. - Tan

Sh - a/a, L. Vel. - Tan - Red

Sh - a/a

Dolo - DV - Whit - Offsh. Fr. S. a/a  
 L. a/a. Prop. - Fr. carb. - m. gray  
 & A - Heavy. Sh. Lb. w/ Fr. S.  
 Lassy. In 1/2 inch. Part of 1/2  
 Oolite. NSCO. Lb. S. a/a. Vel. Blue

Dolo - DV - Whit - Offsh. Fr. S. a/a  
 L. a/a. Prop. - Fr. carb. - m. gray  
 & Heavy. Sh. Lb. w/ Fr. S.  
 Lassy. In 1/2 inch. Part of 1/2  
 Oolite. NSCO. Lb. S. a/a. Vel. Blue

**DST #1**

Mississippian  
 4272' - 4288'  
 Mis - R in

**DST #2**

Mississippian  
 4195' - 4288'  
 30" 30" 30" 30"

IH 2126#  
 IF 27-85#  
 Built to 6 in.  
 ISI 1124#  
 Dead  
 FF 89-113#  
 Built to 5 in.  
 FSI 1102#  
 Dead  
 FH 2062#  
 BHT 113°F  
 Recovery:

3' GO  
 132' SOC M  
 5% Oil  
 60' Mud

**DST #3**

Mississippian  
 4287' - 4295'  
 40" - Flush

Plogseck Tool  
 Recovery:  
 60' Mud

**DST #4**

Mississippian  
 4229' - 4296'  
 45" 45" 45" 45"

IH 2033#  
 IF 36-129#  
 Built to 8 in.  
 ISI 1168#  
 Dead  
 FF 135-191#  
 Built to 4 in.  
 FSI 1142#  
 Dead  
 FH 2024#  
 BHT 110°F  
 Recovery:

1' GO  
 60' SOC MW  
 1% Oil  
 300' MW




Respectfully
Jason L
2-4-2011

# **Geological Report**

American Warrior, Inc.  
**Rachel #1-8**  
1050' FNL & 1500' FWL  
Sec. 8 T19s R21w  
Ness County, Kansas



**American Warrior, Inc.**



## General Data

Well Data: American Warrior, Inc.  
Rachel #1-8  
1050' FNL & 1500' FWL  
Sec. 8 T19s R21w  
Ness County, Kansas  
API # 15-135-25102-0000

Drilling Contractor: Petromark Drilling, LLc Rig #1

Geologist: Jason Alm

Spud Date: January 25, 2010

Completion Date: February 1, 2010

Elevation: 2173' Ground Level  
2179' Kelly Bushing

Directions: Bazine KS, South on DD rd to 110 rd, East to EE rd, East and South into location.

Casing: 223' 8 5/8" surface casing

Samples: 10' wet and dry, 3500' to RTD

Drilling Time: 3500' to RTD

Electric Logs: Log-Tech, Inc. "Brett Becker"  
CNL/CDL, DIL

Drillstem Tests: Four, Trilobite Testing, Inc. "Dustin Rash, Ray Schwager"

Problems: While tripping pipe the Basil Pennsylvanian Conglomerate sluffed into the hole continuously from DST #1 through #3.

Remarks: After heavily conditioning the hole electric logs and DST #4 were run without any problems.

## Formation Tops

<b>Formation</b>	<b>American Warrior, Inc. Rachel #1-8 Sec. 8 T19s R21w 1050' FNL &amp; 1500' FWL</b>
Anhydrite	<b>1402', +777</b>
Base	<b>1436', +743</b>
Heebner	<b>3650', -1471</b>
Lansing	<b>3696', -1517</b>
BKc	<b>4022', -1843</b>
Pawnee	<b>4103', -1924</b>
Fort Scott	<b>4178', -1999</b>
Cherokee	<b>4194', -2015</b>
Mississippian	<b>4274', -2095</b>
LTD	<b>4296', -2117</b>
RTD	<b>4295', -2116</b>

## Sample Zone Descriptions

**Mississippian Osage (4274', -2095):**      **Covered in DST #1-4**  
 Dolo – Δ – Fine sucrosic crystalline with poor to fair inter-crystalline and vuggy porosity, heavy chert, slightly triptolic, mostly fresh with fair vuggy porosity, light scattered oil stain, very light odor, no show of free oil, light scattered yellow fluorescents, 12 units hotwire.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
“Dustin Rash, Ray Schwager”

**DST #1**

**Mississippian Osage**

Interval (4272' – 4288') Anchor Length 16'  
Mis-Run, Packer Failure

**DST #2**

**Mississippian Osage**

Interval (4195' – 4288') Anchor Length 93'

IHP	– 2126 #	
IFP	– 30" – Built to 6 in.	27-85 #
ISI	– 30" – Dead	1124 #
FFP	– 30" – Built to 5 in.	89-113 #
FSI	– 30" – Dead	1102 #
FHP	– 2062 #	
BHT	– 113°F	

Recovery: 3' Clean Oil  
132' SOCM 5% Oil  
60' Mud

**DST #3**

**Mississippian Osage**

Interval (4287' – 4295') Anchor Length 8'  
Plugged Tool

Recovery: 60' Mud

**DST #4**

**Mississippian Osage**

Interval (4229' – 4296') Anchor Length 67'

IHP	– 2033 #	
IFP	– 45" – Built to 8 in.	36-129 #
ISI	– 45" – Dead	1168 #
FFP	– 45" – Built to 4 in.	135-191 #
FSI	– 45" – Dead	1142 #
FHP	– 2024 #	
BHT	– 110°F	

Recovery: 1' Clean Oil  
60' SOCMW 1% Oil  
300' Water

## Structural Comparison

	American Warrior, Inc. Rachel #1-8 Sec. 8 T19s R21w 1050' FNL & 1500' FWL	L.D. Davis Foos #1 Sec. 8 T19s R21w NE NE NW		DNB Drilling, Inc. Foos #1 Sec. 8 T19s R21w C NW NE	
<b>Formation</b>					
Anhydrite	<b>1402', +777</b>	1400', +776	<b>(+1)</b>	NA	<b>NA</b>
Base	<b>1436', +743</b>	NA	<b>NA</b>	NA	<b>NA</b>
Heebner	<b>3650', -1471</b>	3639', -1463	<b>(-8)</b>	3628', -1469	<b>(-2)</b>
Lansing	<b>3696', -1517</b>	3698', -1522	<b>(-5)</b>	3676', -1517	<b>FL</b>
BKc	<b>4022', -1843</b>	NA	<b>NA</b>	NA	<b>NA</b>
Pawnee	<b>4103', -1924</b>	NA	<b>NA</b>	NA	<b>NA</b>
Fort Scott	<b>4178', -1999</b>	4179', -2003	<b>(+4)</b>	4152', -1993	<b>(-6)</b>
Cherokee	<b>4194', -2015</b>	NA	<b>NA</b>	NA	<b>NA</b>
Mississippian	<b>4274', -2095</b>	4287', -2111	<b>(+16)</b>	4244', -2085	<b>(-10)</b>

## Summary

The location for the Rachel #1-8 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Four drill stem tests were conducted all of which with negative results. After all gathered data had examined the decision was made to plug and abandon the Rachel #1-8 well.

Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.