

### Kansas Corporation Commission Oil & Gas Conservation Division

1054256

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd.  CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:   Deepening Re-perf. Conv. to ENHR Conv. to SWD  Conv. to GSW	Chloride content: ppm Fluid volume: bbls  Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
☐ ENHR         Permit #:           ☐ GSW         Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	

### **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:

Side Two



Operator Name: \_ Lease Name: \_ \_ Well #: \_ 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 Wireline Logs surveyed. Attach final geological well site report. **Drill Stem Tests Taken** Yes No Log Formation (Top), Depth and Datum Sample (Attach Additional Sheets) Name Top Datum Samples Sent to Geological Survey ☐ Yes □ No Cores Taken Yes No Electric Log Run Electric Log Submitted Electronically Yes No (If no, Submit Copy) List All E. Logs Run: CASING RECORD Used New Report all strings set-conductor, surface, intermediate, production, etc. Size Hole Size Casing Weight # Sacks Type and Percent Type of Purpose of String Drilled Set (In O.D.) Lbs. / Ft. Additives Depth Cement Used ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth Type of Cement # Sacks Used Type and Percent Additives Top Bottom Perforate **Protect Casing** Plug Back TD Plug Off Zone PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth TUBING RECORD: Size: Set At: Packer At: Liner Run: No Yes Producing Method: Date of First, Resumed Production, SWD or ENHR. Pumping Gas Lift Other (Explain) Flowing **Estimated Production** Bbls. Water Bbls. Gas-Oil Ratio Oil Gas Mcf Gravity Per 24 Hours **DISPOSITION OF GAS:** METHOD OF COMPLETION: PRODUCTION INTERVAL: Open Hole Dually Comp. Perf. Commingled Vented Sold Used on Lease (Submit ACO-5) (Submit ACO-4) (If vented, Submit ACO-18.) Other (Specify)

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Rein 3-23
Doc ID	1054256

# Tops

Name	Тор	Datum
Anhydrite	1495	754
Heebner	3723	-1474
Lansing	3772	-1523
ВКС	4108	-1859
Pawnee	4182	-1943
Ft. Scott	4268	-2019
Cherokee	4289	-2040
Mississippian	4356	-2107
TD	4389	-2140

# **Geological Report**

American Warrior, Inc.
Rein #3-23
2304' FNL & 2302' FEL
Sec. 23 T19s R22w
Ness County, Kansas



American Warrior, Inc.

# **General Data**

Well Data:	American Warrior, Inc. Rein #3-23 2304' FSL & 2302' FEL Sec. 23 T19s R22w Ness County, Kansas API # 15-135-24997-0000
Drilling Contractor:	Petromark Drilling, LLc Rig #1
Geologist:	Jason Alm
Spud Date:	October 30, 2010
Completion Date:	November 6, 2010
Elevation:	2243' Ground Level 2249' Kelly Bushing
Directions:	Bazine KS, from south side of town, South on DD rd. to 90 rd. West on 90 rd. 1 mi. to CC rd. South on CC rd. ½ mi. West into location.
Casing:	224' 8 5/8" surface casing 4388' 5 1/2" production casing
Samples:	10' wet and dry, 3600' to RTD
Drilling Time:	3600' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Shane McBride"
Problems:	None

None

Remarks:

# **Formation Tops**

	American Warrior, Inc.
	Rein #3-23
	Sec. 23 T19s R22w
Formation	2304' FNL & 2302' FEL
Anhydrite	1495', +754
Base	1526', +723
Heebner	3723', -1474
Lansing	3772', -1523
BKc	4108', -1859
Pawnee	4192', -1943
Fort Scott	4268', -2019
Cherokee	4289', -2040
Mississippian	4356', -2107
RTD	4389', -2140

# **Sample Zone Descriptions**

Mississippian Osage (4356', -2107): Covered in DST #1

Dolo –  $\Delta$  – Fine sucrosic crystalline with fair vuggy porosity, heavy tripolitic chert, heavily weathered with good vuggy porosity, light to fair oil stain in porosity, show of free oil, good odor, bright yellow fluorescents, 60 units hotwire.

## **Drill Stem Tests**

Trilobite Testing, Inc. "Shane McBride"

## DST #1 Mississippian Osage

Interval (4376' – 4385') Anchor Length 9'

IHP − 2182 #

IFP - 45" - Built to 4¼ in. 16-35 #
ISI - 45" - Dead 1211 #
FFP - 45" - Built to 4¼ in. 38-59 #
FSI - 45" - Dead 1195 #

FHP - 2117 # BHT - 116°F

Recovery: 120' GIP

60' Clean Oil

30' MCO 70% Oil 30' OCM 10% Oil

# **Structural Comparison**

	American Warrior, Inc.	American Wessies Inc		Mid Continent Dec	
	,	American Warrior, Inc.		Mid-Continent Res.	
	Rein #3-23	Rein #1-23		Gillig #3-23	
	Sec. 23 T19s R22w	Sec. 23 T19s R22w		Sec. 23 T19s R22w	
Formation	2304' FNL & 2302' FEL	2100' FNL & 2150' FEL		2030' & 1660' FEL	
Anhydrite	1495', +754	1490', +757	(-3)	1500', +763	(-9)
Base	1526', +723	NA	NA	NA	NA
Heebner	3723', -1474	3717', -1470	<b>(-4)</b>	3726', -1463	(-11)
Lansing	3772', -1523	3764', -1517	<b>(-6)</b>	3772', -1509	<b>(-14)</b>
BKc	4108', -1859	NA	NA	NA	NA
Pawnee	4192', -1943	4183', -1936	<b>(-7)</b>	4200', -1937	<b>(-6)</b>
Fort Scott	4268', -2019	4261', -2014	(-5)	4278', -2015	(-4)
Cherokee	4289', -2040	4282', -2035	(-5)	4298', -2035	(-5)
Mississippian	4356', -2107	4354', -2107	FL	4271', -2108	<b>(-1)</b>

# **Summary**

The location for the Rein #3-23 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 examined the decision was made to run 5½ inch production casing to further evaluate the Rein #3-23 well.

### **Recommended Perforations**

Mississippian Osage: (4376' – 4385') DST #1

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.



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Services, Inc.	, ITC.		*					
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CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES
APPROVAL

Thank You!

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HART NO.	TIME	RATE (BPM)	VOLUME (BBL) GAL	PUN		PRESSUR	RE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
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REFERRAL LOCATION	INVOICE INSTRUCTIONS			-				

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700-790-2000			SWIFT SERVICES, INC.	KEMII TAYMENI IO:					Rotating head rental	~-	lately drawn play & heddle	Portcelle	Baskets	Contratization	Pump Charge	MILEAGE TEK 114	DESCRIPTION
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SWIFT OPERATOR

OMER ACCEPTANCE OF MATERIALS AND SERVICES

Thank You!

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SWIFT Services, Inc.

DATE 6 MOY 10 PAGE NO

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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSUR TUBING	E (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
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	TIME SIGNED	NERY OF GOODS	LIMITED WARRANTY provisions.  MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	the terms and conditions on the reverse side hereof which include,	LEGAL TERMS: Customer hereby acknowledges and agrees to													SECONDARY REFERENCE/ PART NUMBER
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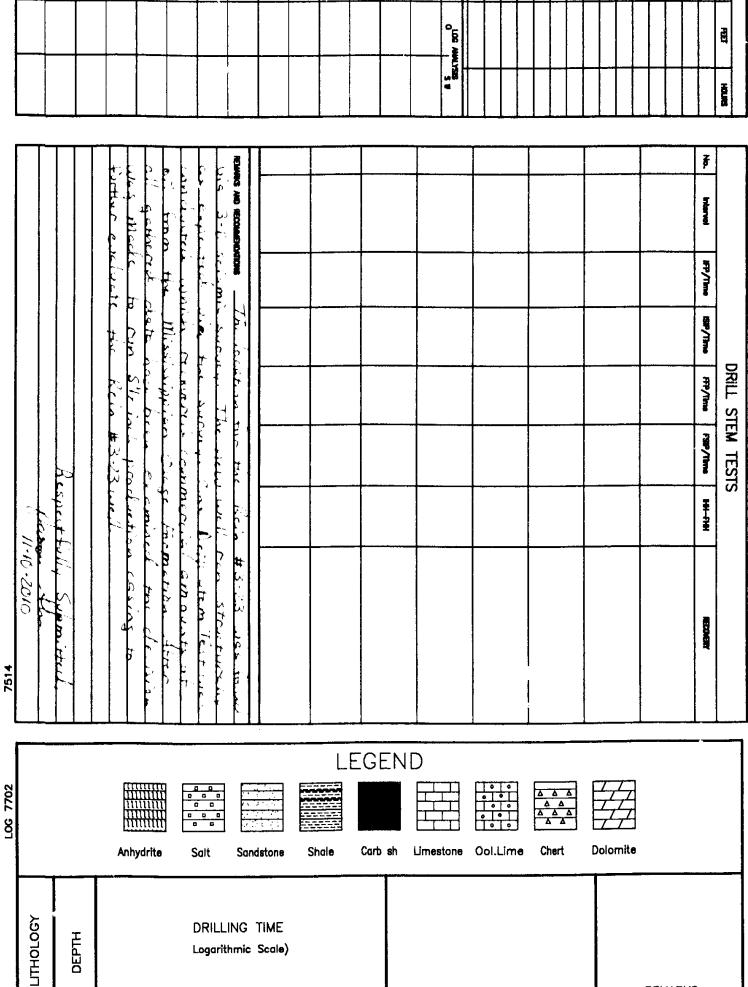
CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES
APPROVAL

Thank You!

JOB LO			*	•		SWIFT	Servi	ices, Inc. DATE/5 NOU/O PAGE N
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUN	IP8	PRESSUR TUBING		DESCRIPTION OF OPERATION AND MATERIALS
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		KB_Z249'	LEASE Rein WELL NO. 3:23
		ELEVATION	OPERATOR American Warrior, Trace
		LOG	DRILLING TIME AND SAMPLE LO
			OLOGIST'S REPORT
		PT# 15-135-74957-0000	APT# :
			Hays, KS 67601
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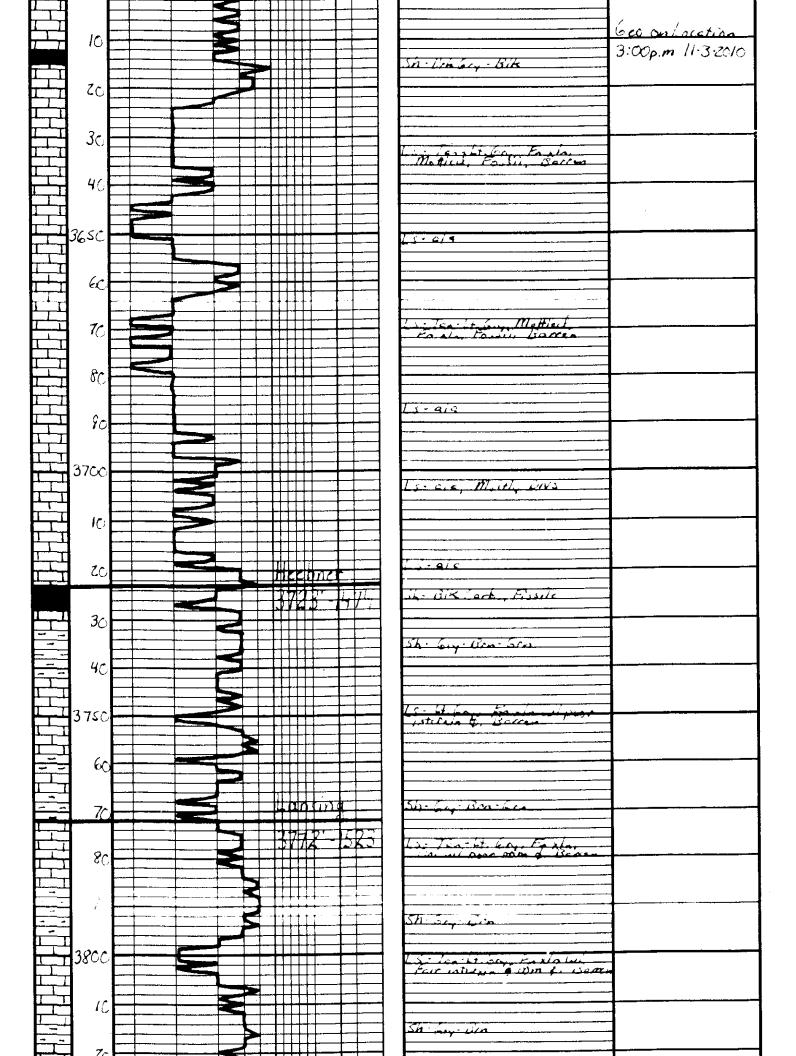
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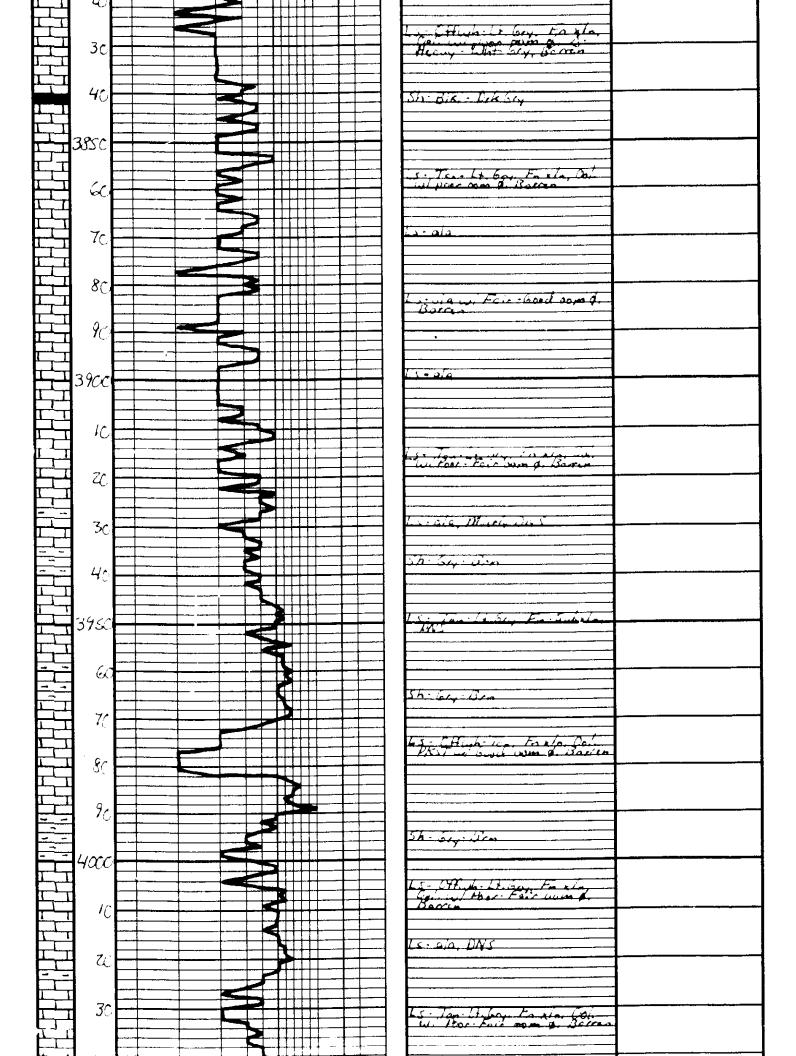
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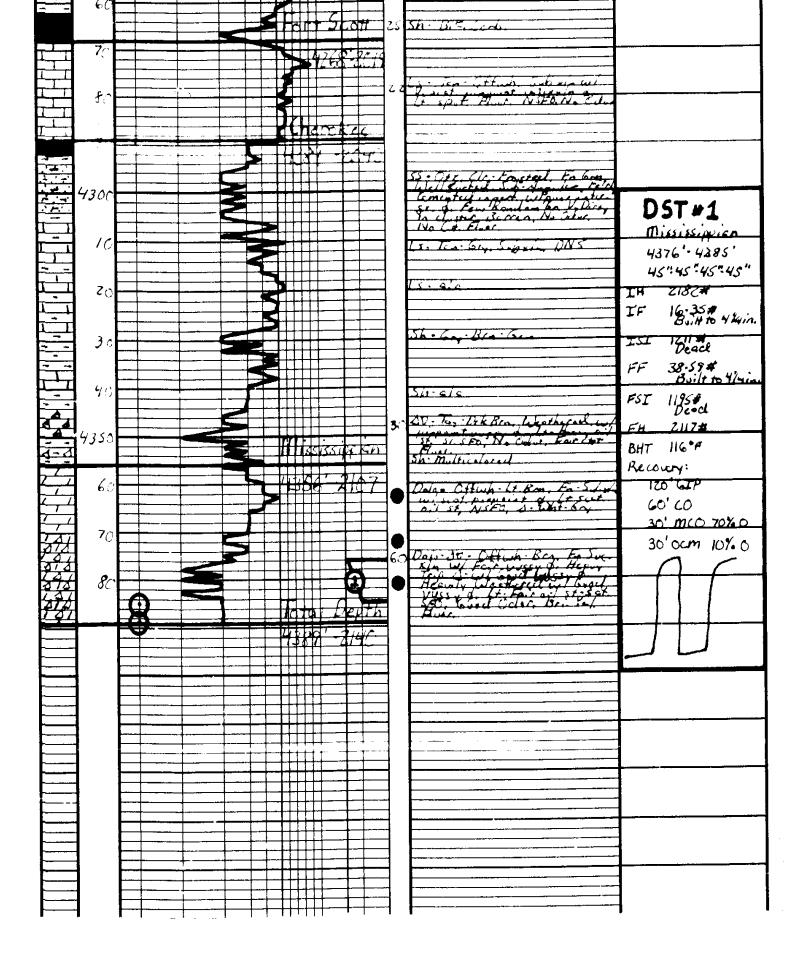
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# DRILL STEM TEST REPORT

American Warrior Inc

Rein #3-23

p.o.box 399 Garden City, Ks

23-19s-22w Ness, Ks

67846

Job Ticket: 039692 DST#: 1

ATTN: Jason Alm

Test Start: 2010.11.05 @ 15:05:25

### **GENERAL INFORMATION:**

Formation: Miss

Deviated: Test Type: Conventional Bottom Hole No Whipstock: ft (KB)

Time Tool Opened: 16:58:40 Time Test Ended: 22:05:55

Unit No:

Tester:

Shane McBride

4376.00 ft (KB) To 4385.00 ft (KB) (TVD)

Reference Elevations:

2249.00 ft (KB)

Total Depth: 4385.00 ft (KB) (TVD)

2243.00 ft (CF)

7.88 inches Hole Condition: Fair Hole Diameter:

KB to GR/CF: 6.00 ft

Serial #: 6667 Press@RunDepth: Inside

4377.00 ft (KB) 58.99 psig @

Capacity:

8000.00 psig

Start Date: 2010.11.05 End Date: 2010.11.05 Last Calib.: Time On Btm: 2010.11.05

Start Time:

Interval:

15:05:25

End Time:

21:47:55

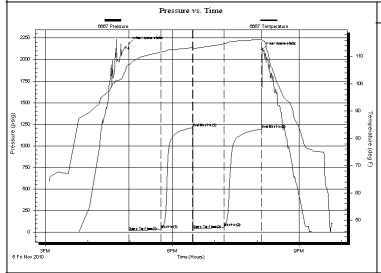
2010.11.05 @ 16:58:25

Time Off Btm:

2010.11.05 @ 20:07:55

TEST COMMENT: 4 1/4"in blow

No return 4 1/4"in blow No return



PRESSURE SUMMARY				
ne	Pressure	Temp	Annotation	

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2181.56	107.28	Initial Hydro-static
1	16.29	106.87	Open To Flow (1)
46	35.41	111.60	Shut-In(1)
91	1210.98	113.21	End Shut-In(1)
92	38.82	112.87	Open To Flow (2)
136	58.99	114.65	Shut-In(2)
189	1195.10	116.31	End Shut-In(2)
190	2116.81	115.78	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	o c m 10%o 90%m	0.15
30.00	m c o 30%m 70%o	0.15
60.00	c o 100%o	0.30
0.00	120' w eak gas in pipe	0.00

### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 039692 Printed: 2010.11.06 @ 08:26:02 Page 1



## DRILL STEM TEST REPORT

**FLUID SUMMARY** 

DST#: 1

American Warrior Inc

p.o.box 399 **23-19s-22w Ness, Ks** 

Garden City, Ks 67846 Job Ticket: 039692

ATTN: Jason Alm Test Start: 2010.11.05 @ 15:05:25

Rein #3-23

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: 40 deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 0 ppm

Viscosity: 55.00 sec/qt Cushion Volume: bbl

Water Loss: 8.76 in<sup>3</sup> Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 9000.00 ppm Filter Cake: 1.00 inches

### **Recovery Information**

### Recovery Table

Length ft	Description	Volume bbl
30.00	o c m 10%o 90%m	0.148
30.00	m c o 30%m 70%o	0.148
60.00	c o 100%o	0.295
0.00	120' w eak gas in pipe	0.000

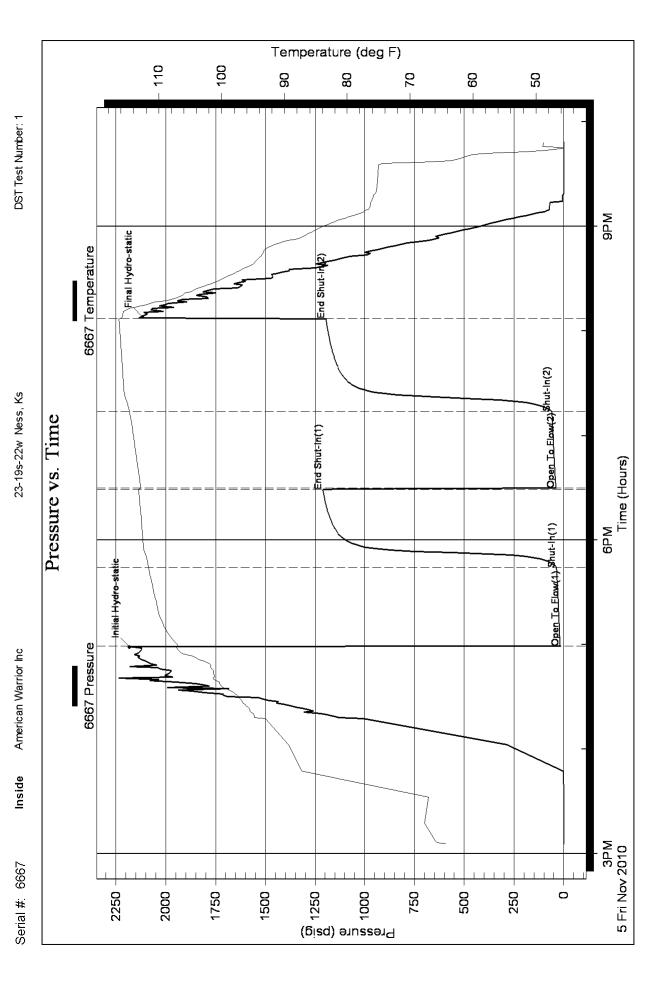
Total Length: 120.00 ft Total Volume: 0.591 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 039692 Printed: 2010.11.06 @ 08:26:02 Page 2



Page 3 Printed: 2010.11.06 @ 08:26:03 039692 Ref. No: Trilobite Testing, Inc