

Kansas Corporation Commission OIL & GAS CONSERVATION DIVISION

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:	
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	Amount of Surface Pipe Set and Cemented at: Feet
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used? Yes No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	<u> </u>
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content:ppm Fluid volume:bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Dewatering method used:
Conv. to GSW	
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
☐ Dual Completion Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R
GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	
Kansas 67202, within 120 days of the spud date, recompletion, workover or of side two of this form will be held confidential for a period of 12 months if re	th the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information equested in writing and submitted with the form (see rule 82-3-107 for confidence report shall be attached with this form. ALL CEMENTING TICKETS MUST form with all temporarily abandoned wells.

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	e:			_ Well #:	
Sec Twp	S. R	East West	County:					
time tool open and clos	sed, flowing and shut s if gas to surface tes	I base of formations per in pressures, whether set, along with final chart well site report.	shut-in pressure	reached s	static level,	hydrostatic press	sures, bottom h	ole temperature, fl
Orill Stem Tests Taken (Attach Additional S		Yes No		Log	Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolo		☐ Yes ☐ No	N	lame			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	I Electronically	Yes No Yes No Yes No						
List All E. Logs Run:			RECORD [Used			
	Size Hole	Report all strings set- Size Casing	-conductor, surface Weight		ate, producti Setting	on, etc. Type of	# Sacks	Type and Percen
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
		ADDITIONA	L OFMENTING (00115575	DECORD			
		ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	ed Type and Percent Additives				
Shots Per Foot		ON RECORD - Bridge Plu ootage of Each Interval Pe				cture, Shot, Cement mount and Kind of Ma	•	d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Line	r Run:	Yes No		
Date of First, Resumed I	Production, SWD or ENI	HR. Producing Me	thod:	Gas Li	ift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	В	bls. (Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM Perf. D	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:
(If vented, Sub	mit ACO-18.)	Other (Specify)						

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Stieben 2-10
Doc ID	1045723

Tops

Name	Тор	Datum			
Anhydrite	1407	+802			
Heebener	3656	-1447			
Lansing	3702	-1447			
ВКС	4015	-1806			
Pawnee	4102	-1893			
Ft. Scott	4168	-1959			
Cherokee	4182	-1973			
Mississippian	4254	-2045			
TD	4266	-2057			

Geological Report

American Warrior, Inc.
Stieben #2-10
370' FNL & 1070' FEL
Sec. 10 T19s R21w
Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Stieben #2-10 370' FNL & 1070' FEL Sec. 10 T19s R21w Ness County, Kansas API # 15-135-25035-0000
Drilling Contractor:	Petromark Drilling, LLc Rig #1
Geologist:	Jason Alm
Spud Date:	March 10, 2010
Completion Date:	March 18, 2010
Elevation:	2203' Ground Level 2209' Kelly Bushing
Directions:	Bazine KS, West on Hwy 96 to HH rd, South to 110 rd, ¼ mi. East, South into location.
Casing:	214' 8 5/8" surface casing 4267' 5 1/2" production casing
Samples:	10' wet and dry, 3600' to RTD
Drilling Time:	3600' to RTD
Electric Logs:	Log Tech, Inc. "Mike Garrison" CNL/CDL, DIL
Drillstem Tests:	Two, Trilobite Testing, Inc. "Tyson Flax"
Problems:	Fill in hole due to sluffing caused DST #1 to plug off, resulting in test being pulled early for weak blows.

None

Remarks:

Formation Tops

	American Warrior, Inc.
	Stieben #2-10
	Sec. 10 T19s R21w
Formation	370' FNL & 1070' FEL
Anhydrite	1407', +802
Base	1442', +767
Heebner	3656', -1447
Lansing	3702', -1493
BKc	4015', -1806
Pawnee	4102', -1893
Fort Scott	4168', -1959
Cherokee	4182', -1973
Mississippian	4254', -2045
RTD	4268', -2059
LTD	4266', -2057

Sample Zone Descriptions

Mississippian Osage (4289', -2060): Covered in DST #1,2

Dolo – Δ – Fine sucrosic crystalline with poor to fair intercrystalline porosity, heavy chert, triptolitic, weathered with good vuggy porosity, light to good oil stain and saturation, show of free oil, good odor, good yellow cut fluorescents, 20 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Tyson Flax"

DST #1 Mississippian Osage

Interval (4258' – 4266') Anchor Length 8'

IHP - 2107 #

IFP - 30" - Built to 6 in. 78-93 #
ISI - 30" - Dead 172 #
FFP - 10" - Built to ½ in. 87-352 #

FHP - 2076 # BHT - 112°F

Recovery: 20' Mud with oil scum

120' Mud

DST #2 <u>Mississippian Osage</u>

Interval (4259' – 4268') Anchor Length 9'

IHP - 2191 #

IFP - 45" - Built to 2 in. 16-46 #
ISI - 45" - Dead 1128 #
FFP - 45" - Built to 2 in. 49-70 #
FSI - 45" - Dead 1094 #

FHP - 2078 # BHT - 109°F

Recovery: 10' CO

60' OCM 10% Oil

60' MW

Structural Comparison

	American Warrior, Inc.	Pickrell Drilling Co.		American Warrior, Inc.	
	Stieben #2-10	Stieben #2		Stieben #1	
	Sec. 10 T19s R21w	Sec. 10 T19s R21w		Sec. 10 T19s R21w	
Formation	370' FNL & 1070' FEL	554' FNL & 766' FEL		660' FNL & 1700' FEL	
Anhydrite	1407', +802	1408', +797	(+5)	1402', +795	(+7)
Base	1442', +767	NA	NA	NA	NA
Heebner	3656', -1447	3653', -1448	(+1)	3650', -1453	(+6)
Lansing	3702', -1493	3699', -1494	(+1)	3695', -1498	(+5)
BKc	4015', -1806	NA	NA	NA	NA
Pawnee	4102', -1893	4100', -1895	(+2)	4097', -1900	(+7)
Fort Scott	4168', -1959	NA	NA	4160', -1963	(+4)
Cherokee	4182', -1973	4183', -1978	(+5)	4176', -1979	(+6)
Mississippian	4254', -2045	4254', -2049	(+4)	4246', -2049	(+4)

Summary

The location for the Stieben #2-10 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted one of 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 Stieben #2-10 well.

Recommended Perforations

Mississippian Osage: (4258' – 4266') DST #2

Respectfully Submitted,

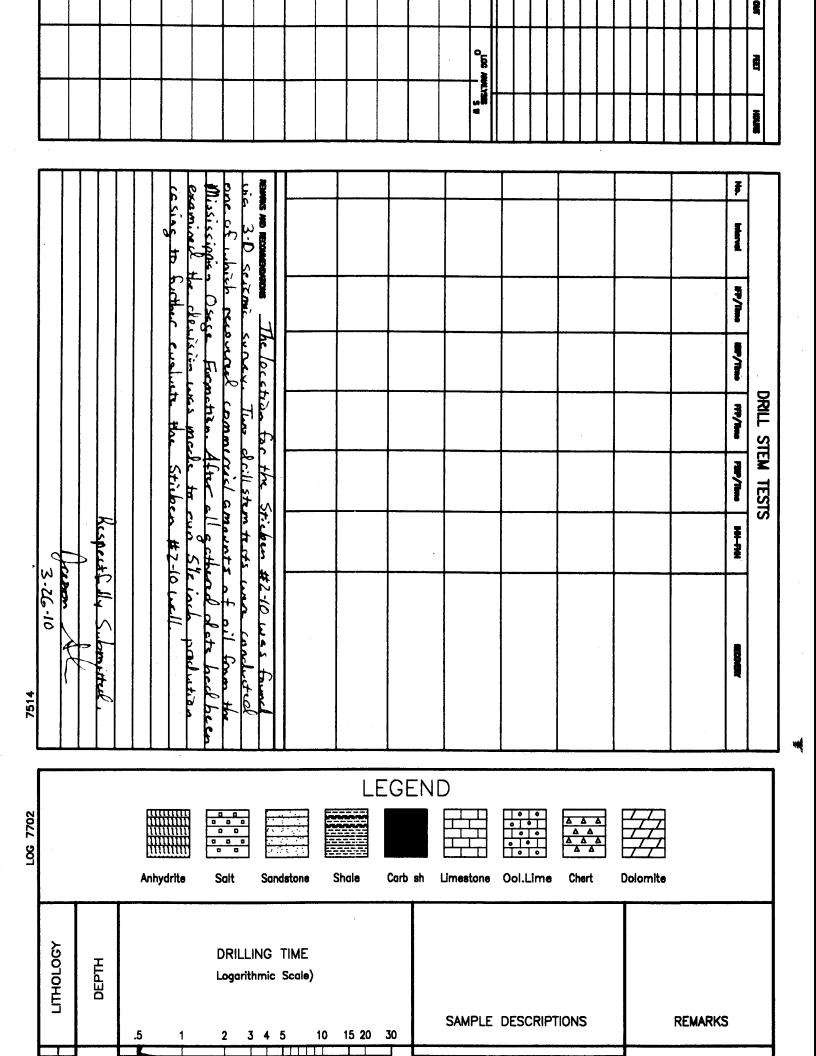
Jason Alm Hard Rock Consulting, Inc.

Hard Rock Consulting, Inc.
Jason Alm Petroleum Geologist
P.O. Box 1260
Hays, KS 67601

APT # 15-135-25035-0000

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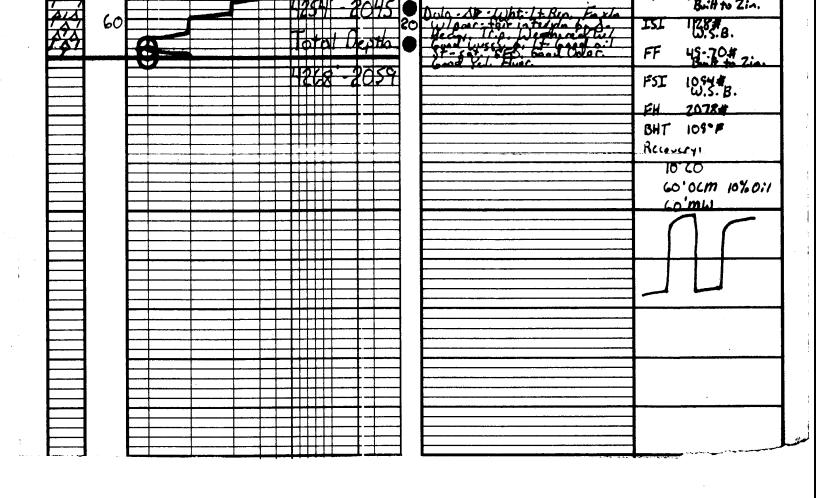
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American Warrior

Stieben #2-10

PO Box 399

10-19s-21w/Ness

Reference Elevations:

Garden City, KS 67846

Job Ticket: 37222 **DST#:1**

ATTN: Jason Alm Test Start: 2010.03.17 @ 17:00:32

GENERAL INFORMATION:

Formation: Miss

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

Time Tool Opened: 18:58:01 Tester: Tyson Flax
Time Test Ended: 22:36:31 Unit No: 44

Interval: 4258.00 ft (KB) To 4266.00 ft (KB) (TVD)

Total Depth: 4266.00 ft (KB) (TVD)

2203.00 ft (CF)

2209.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 6668 Inside

Press@RunDepth: 92.90 psig @ 4259.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2010.03.17
 End Date:
 2010.03.17
 Last Calib.:
 2010.03.17

 Start Time:
 17:00:32
 End Time:
 22:36:31
 Time On Btm:
 2010.03.17 @ 18:56:01

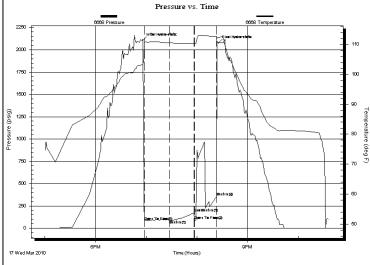
 Time Off Btm:
 2010.03.17 @ 20:25:31

TEST COMMENT: IFP-Strong blow built to 6" in 1 min died to 2"

ISI-no blow back

FFP-no blow - flushed tool - Weak 1/2" blow died in 20 min - pulled test

FSI-



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2107.49	103.21	Initial Hydro-static
	2	77.98	110.54	Open To Flow (1)
	32	92.90	110.50	Shut-In(1)
7	61	172.23	110.41	End Shut-In(1)
Temperature	61	89.42	110.41	Open To Flow (2)
rature	87	352.13	112.67	Shut-In(2)
(deg F)	90	2076.00	112.32	Final Hydro-static
(-				

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/scum of oil	0.10
120.00	Mud	0.78
-		

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

Trilobite Testing, Inc Ref. No: 37222 Printed: 2010.03.18 @ 08:32:01 Page 1



FLUID SUMMARY

American Warrior

Stieben #2-10

PO Box 399

10-19s-21w/Ness

Garden City, KS 67846

Job Ticket: 37222

DST#: 1

ATTN: Jason Alm

Test Start: 2010.03.17 @ 17:00:32

Mud and Cushion Information

7.99 in³

6500.00 ppm

ohm.m

inches

Mud Type: Gel Chem Cushion Type: Oil API: deg API Mud Weight: Cushion Length: 9.00 lb/gal ft Water Salinity: ppm

Viscosity: 48.00 sec/qt Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Recovery Information

Water Loss:

Resistivity:

Filter Cake:

Salinity:

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w/scum of oil	0.098
120.00	Mud	0.775

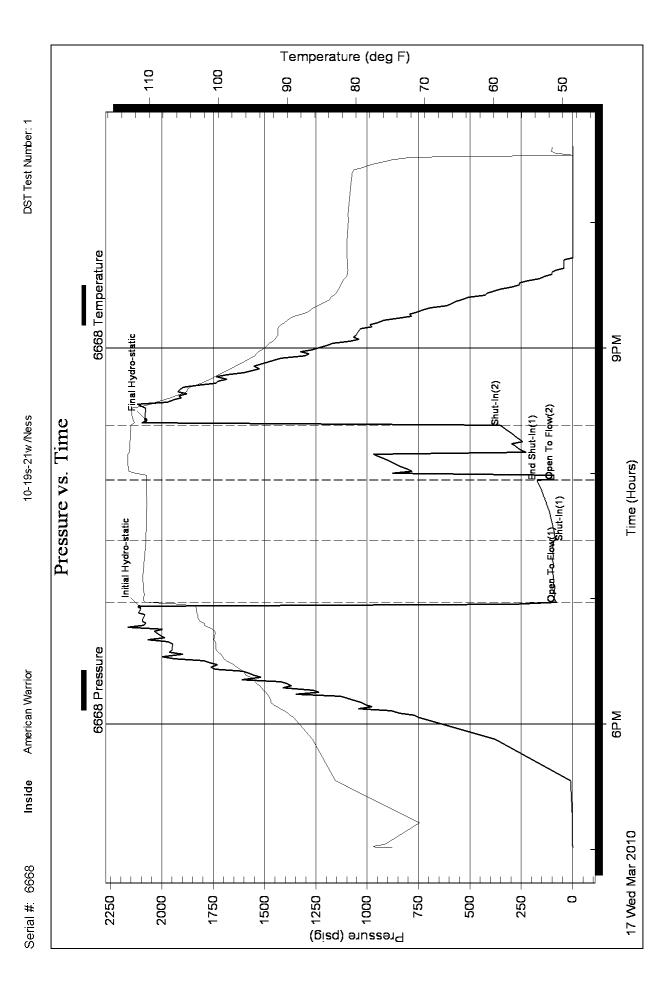
Total Length: 140.00 ft Total Volume: 0.873 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Ref. No: 37222 Trilobite Testing, Inc Printed: 2010.03.18 @ 08:32:02 Page 2



Printed: 2010.03.18 @ 08:32:02 Page 3 37222 Ref. No: Trilobite Testing, Inc



American Warrior

Stieben #2-10

PO Box 399

10-19s-21w/Ness

Garden City, KS 67846

Job Ticket: 37223 DST#: 2

Test Start: 2010.03.18 @ 06:31:09 ATTN: Jason Alm

GENERAL INFORMATION:

Formation: Miss

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

Time Tool Opened: 08:44:09 Tester: Tyson Flax Time Test Ended: 13:31:39 Unit No: 44

4259.00 ft (KB) To 4268.00 ft (KB) (TVD) Interval:

Reference Elevations: 2209.00 ft (KB)

Total Depth: 4268.00 ft (KB) (TVD) 2203.00 ft (CF)

7.88 inches Hole Condition: Good KB to GR/CF: Hole Diameter: 6.00 ft

Serial #: 6668 Inside

Press@RunDepth: 70.46 psig @ 4260.00 ft (KB) Capacity: 8000.00 psig

Time

Start Date: 2010.03.18 End Date: 2010.03.18 Last Calib.: 2010.03.18 Start Time: 06:31:10 End Time: 13:31:39 Time On Btm: 2010.03.18 @ 08:43:09

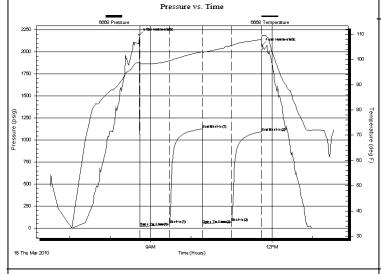
Time Off Btm: 2010.03.18 @ 11:45:09

TEST COMMENT: IFP-Weak surface blow built to 2"

ISI-w eak intermittent blow back throughout

FFP-weak surface blow built to 2"

FSI-Weak intermittent blow back throughout



(Min.)	(psig)	(deg F)	
0	2190.96	98.96	Initial Hydro-static
1	16.30	98.45	Open To Flow (1)
45	45.64	99.42	Shut-In(1)
94	1127.52	103.06	End Shut-In(1)
94	48.51	102.85	Open To Flow (2)
137	70.46	105.40	Shut-In(2)
181	1094.48	107.85	End Shut-In(2)
182	2077.99	109.51	Final Hydro-static

PRESSURE SUMMARY

Pressure Temp Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 80%W,20%M	0.30
60.00	OCM 10%o,90%m	0.30
10.00	co	0.14
L	-	

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

Trilobite Testing, Inc. Ref. No: 37223 Printed: 2010.03.18 @ 14:00:27 Page 1



FLUID SUMMARY

American Warrior

Stieben #2-10

PO Box 399

10-19s-21w/Ness

Garden City, KS 67846

Job Ticket: 37223

DST#: 2

ATTN: Jason Alm

Test Start: 2010.03.18 @ 06:31:09

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil A Pl: 40 deg A Pl

Viscosity: 48.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 6500.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

	Length ft	Description	Volume bbl
	60.00	MW 80%W,20%M	0.295
	60.00	OCM 10%o,90%m	0.295
ĺ	10.00	∞	0.142

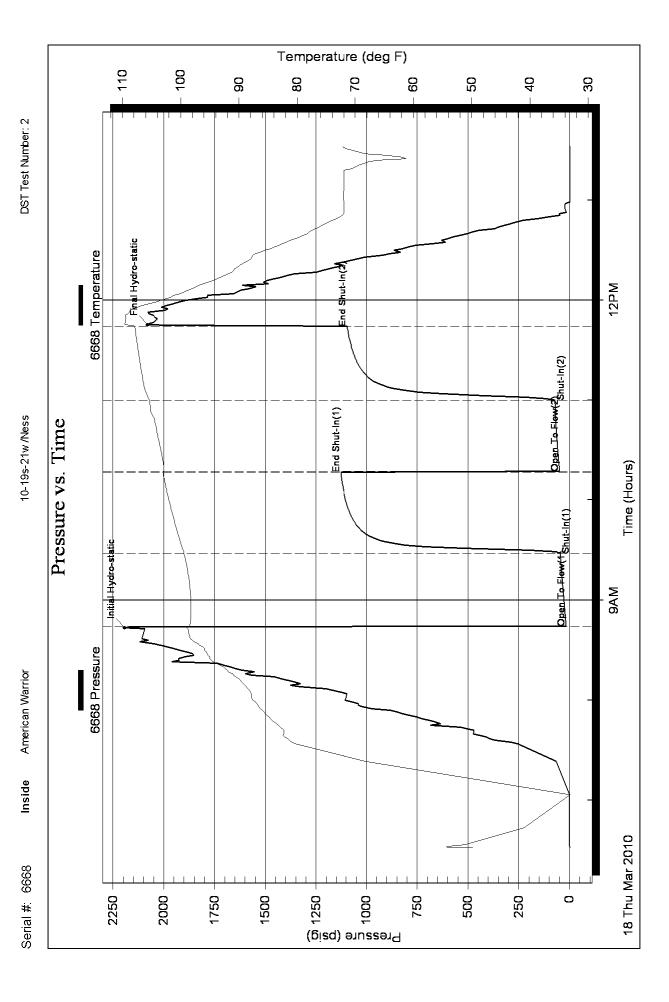
Total Length: 130.00 ft Total Volume: 0.732 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 37223 Printed: 2010.03.18 @ 14:00:28 Page 2



Printed: 2010.03.18 @ 14:00:29 Page 3 37223 Ref. No: Trilobite Testing, Inc



CITY, STATE, ZIP CODE

ADDRESS	AME/ICAN	Darrior
	ADDRESS	

TICKET 18342

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	ТАХ		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	WE OPERATED THE AND PERFORMED CALCULATIONS SATISFACTORILY?			LIVERY OF GOODS	START OF WORK OR DELIVERY OF GOODS
			OUT DELAY?	MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SWIFT SERVICES, INC.	EMINET, all	LIMITED WARRANTY provisions. MISTRE SIGNED BY CLISTOMER OR CUSTOMER'S AGENT BRICK TO	LIMITED WARRANTY provisions
327000	PAGE TOTAL	DECIDED AGREE	PERFORMED DOWN?	OUR EQUIPMENT PER WITHOUT BREAKDOW	REMIT PAYMENT TO:	and agrees to which include,	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to DAYNENT DELEASE INDEMNITY and	the terms and cond
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SWIFT OPERATOR 1 + + COYSA +

CUSTOMER ACCEPTANCE OF MATER
APPROVAL

dges receipt of the materials and services listed on this ticket

Thank You!

Job Complete 0000



can Warrior Inc.

TICKET

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3-18-10	START OF WORK OR DELIVERY OF GOODS	LIMITED WARRANTY provisions	the terms and conditions on	LEGAL TERMS: Custome		D H	5	306	707	403	401	2.81	22	578	57 / 57	PRICE SECO	REFERRAL LOCATION		ω	1. N C S S C T	Services,	
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SWIFT OPERATOR

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APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

Thank You!



TICKET CONTINUATION

No. | 8349

COMPRESSION SOLVER STATE				l.
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9			PO Box 466	ONE TO

JOB LC						SWIFT	Servi	ices. Inc. Date 3-18-10 Page No.
CUSTOMER	America.	n Werrier	WELL NO. 2	-10		LEASE ST		
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUM		PRESSURI TUBING	E (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
NO.	2100	(DFW)	(BBE) (GAL)		-	TUBING	CASING	On Location
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								IP 4270 Basket 5,70
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								ST-37' JISON 4,79,105
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CITY, STATE, ZIP CODE

TICKET 17821

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SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY#PARISH	STATE CITY		DATE OWNER	
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X S COH TIME SIGNED 730 P.M.

DATE SIGNED 3April TIME SIGNED 730 P.M.

CUSTOMER ACCEPTANCE
SWIFT OPERATOR ACCEPTANCE

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

LIMITED WARRANTY provisions.

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

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CUSTOMER DID NOT WISH TO RESPOND	□ YES	ARE YOU SATISFIED WITH OUR SERVICE?	SATISFACTORILY?	CALCULATIONS	WE OPERATED THE EQUIPMENT	PERFORMED WITHOUT DELAY?	OUR SERVICE WAS	MET YOUR NEEDS?	WE UNDERSTOOD AND	WITHOUT BREAKDOWN?	OUR EQUIPMENT PERFORMED	SURVEY
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CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

Thank You!

JOB LO					SWIFT Serv	ices, Inc.	DATE/3APRID PAGE
CUSTOMER AMERIC	AN WARR	IOR	WELL NO.		STIEBEN 2	-10 JOB TYPE PTA	TICKET NO. 17821
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE (PSI) TUBING CASING	DESCRIPTION OF OPERATION	
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						SHOT CASING OFF @29'	7 ?
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	1520	2				SET 4th PLUGE 60'	30
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