

Kansas Corporation Commission Oil & Gas Conservation Division

1053662

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
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Onv. to ENHR	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 N	lame:			Well #:		
Sec Twp	S. R	East	West	County:						
INSTRUCTIONS: Sh time tool open and clo recovery, and flow rate line Logs surveyed. A	osed, flowing and shu es if gas to surface te	t-in pressures, st, along with f	whether sh inal chart(s	nut-in press	ure reach	ed static level,	hydrostatic pres	ssures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taker (Attach Additional S		Yes	No		Log	y Formation	n (Top), Depth a	nd Datum		Sample
Samples Sent to Geo	logical Survey	Yes	No		Name			Тор	I	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes Yes Yes	☐ No ☐ No ☐ No							
List All E. Logs Run:										
		Report all	CASING I		New	Used mediate, producti	on, etc.			
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weigi Lbs. /	ht	Setting Depth	Type of Cement	# Sacks Used	, ,,	and Percent dditives
		AI	DDITIONAL	CEMENTIN	G / SQUE	EZE RECORD				
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	pose: Perforate Protect Casing Plug Back TD Depth Top Bottom Type of Cement Top Bottom				# Sacks Used Type and			nd Percent Additives		
Shots Per Foot	s Set/Type orated			cture, Shot, Cemei mount and Kind of N		d 	Depth			
TUBING RECORD:	Size:	Set At:		Packer At:		Liner Run:				
Date of First, Resumed	Production, SWD or EN		ducing Meth	od:		as Lift C	Yes No	0		
Estimated Production Per 24 Hours	Oil	Bbls.		Mcf	Water		ols.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	IETHOD OF	COMPLET	ION:		PRODUCTIO	ON INTER	VAL:
Vented Sold Used on Lease Open Hole Perf. Dually Comp. (Submit ACO-4) (If vented, Submit ACO-18.) Other (Specify)										

Form	ACO1 - Well Completion							
Operator	American Warrior, Inc.							
Well Name	Schugart 1-27							
Doc ID	1053662							

Tops

Name	Тор	Datum		
Anhydrite	1479	721		
Heebner	3651	-1451		
Lansing	3696	-1496		
ВКС	4028	-1828 -1912 -1986 -2007 -2078		
Pawnee	4112			
Ft. Scott	4186			
Cherokee	4207			
Mississippian	4278			
TD	4288	-2088		

Geological Report

American Warrior, Inc.
Schugart #1-27
2290' FNL & 1830' FEL
Sec. 27 T18s R22w
Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Schugart #1-27 2290' FNL & 1830' FEL Sec. 27 T18s R22w Ness County, Kansas API # 15-135-25120-0000
Drilling Contractor:	Discovery Drilling Co. Inc. Rig #3
Geologist:	Jason Alm
Spud Date:	August 17, 2010
Completion Date:	August 24, 2010
Elevation:	2192' Ground Level 2200' Kelly Bushing
Directions:	Bazine KS, 2 mi. West on Hwy 96, ½ mi. North, West into location.
Casing:	223' 8 5/8" surface casing 4287' 5 1/2" production casing
Samples:	10' wet and dry, 3600' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	None
Drillstem Tests:	Two, Trilobite Testing, Inc. "Brian Fairbank"
Problems:	None

None

Remarks:

Formation Tops

	American Wennier Inc
	American Warrior, Inc.
	Schugart #1-27
	Sec. 27 T18s R22w
Formation	2290' FNL & 1830' FEL
Anhydrite	1479', +721
Base	1512', +688
Heebner	3651', -1451
Lansing	3696', -1496
BKc	4028', -1828
Pawnee	4112', -1912
Fort Scott	4186', -1986
Cherokee	4207', -2007
Mississippian	4278', -2078
RTD	4288', -2088

Sample Zone Descriptions

Mississippian Osage (4278', -2078): Covered in DST #2

Dolo – Δ – Fine sucrosic crystalline with fair vuggy porosity, heavy chert, triptolitic, lightly weathered with good vuggy porosity, light to fair oil stain and saturation in porosity, slight show of free oil, strong odor, fair to good yellow cut fluorescents, 26 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Dan Bangle"

DST #1 <u>Mississippian Osage</u>

Interval (4280' – 4288') Anchor Length 8' Mis-run

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

Interval (4232' – 4288') Anchor Length 56'

IHP - 2147 #

IFP - 45" - B.O.B. 19 min. 96-113 #
ISI - 45" - Built to ¼ in. 1363 #
FFP - 45" - B.O.B. 14 min. 149-173 #
FSI - 45" - Built to 1 in. 1357 #

FHP - 2078 # BHT - 121°F

Recovery: 185' GIP

175' GCO

165' GOCM 15% Oil

Structural Comparison

	American Warrior, Inc. Schugart #1-27	John O. Farmer Cook #1		American Warrior, Inc. Schugart #1-26	
	Sec. 27 T18s R22w	Sec. 1 T18s R22w		Sec. 26 T18s R22w	
Formation	2290' FNL & 1830' FEL	C NW SE		2090' FNL & 1400' FWL	
Anhydrite	1479', +721	1460', +735	(-14)	1442', +729	(-8)
Base	1512', +688	NA	NA	1475', +696	(-8)
Heebner	3651', -1451	3640', -1445	(-6)	3624', -1453	(+2)
Lansing	3696', -1496	3685', -1490	(-6)	3678', -1497	(+1)
BKc	4028', -1828	NA	NA	3992', -1821	(-7)
Pawnee	4112', -1912	NA	NA	4080', -1909	(-3)
Fort Scott	4186', -1986	NA	NA	4155', -1984	(-2)
Cherokee	4207', -2007	NA	NA	4176', -2005	(-2)
Mississippian	4278', -2078	4270', -2075	(-3)	4251', -2080	(+2)

Summary

The location for the Schugart #1-27 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 $5\frac{1}{2}$ inch production to further evaluate the Schugart #1-27 well.

Recommended Perforations

Mississippian Osage (4278' – 4280') 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

Hays, KS 67601

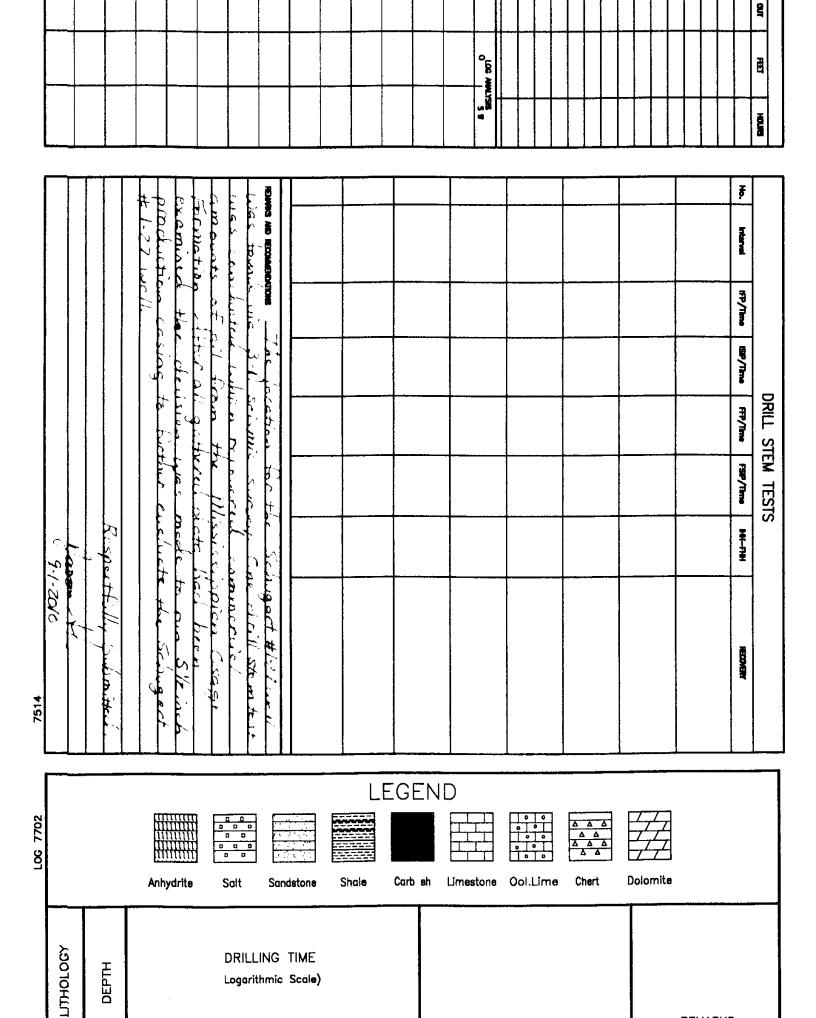
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GEOLOGIST'S REPORT

ILLING TIME AND SAMPLE LOG

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	From Course Constitution	SEC. 27 TWP. 18's RGE 22'
,	asurements	LOCATION 2290 FNL 1830 FEL
	GL 2192	FIELD Wild cat
	KB_ Z 300 1	LEASE Schugart WELL NO. 1-27
	ELEVATION	98
	Ğ	DRILLING TIME AND SAMPLE LOG
		GEOLOGIST'S REPORT

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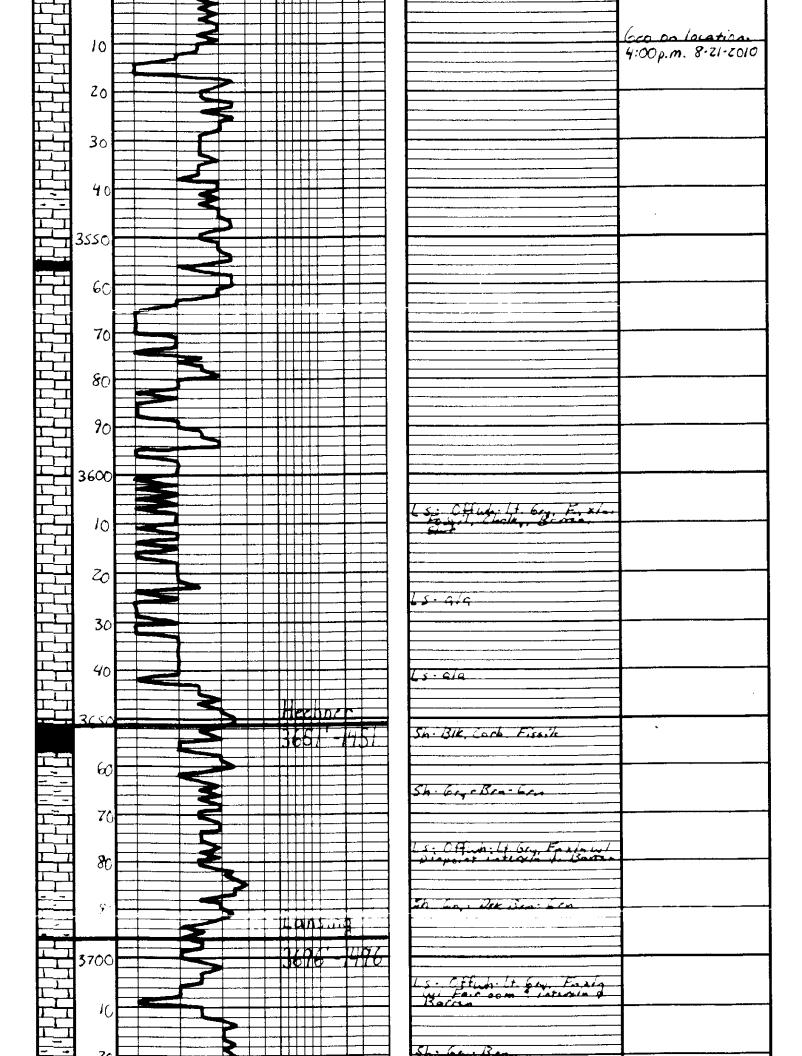
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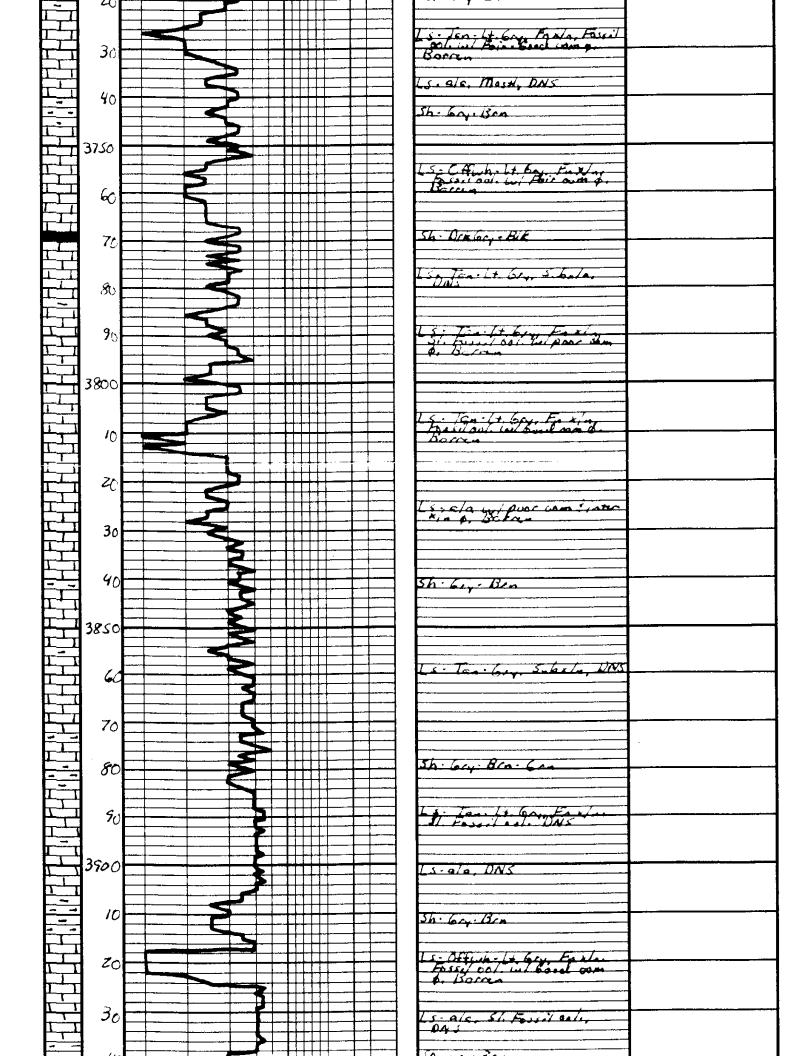
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REMARKS

SAMPLE DESCRIPTIONS





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ALLI D CEMENTING CC., LLC. 036808 Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

TUBING SIZE DRILL PIPE DEPTH TOOL DEPTH PRES. MAX MINIMUM COMMON MEAS. LINE SHOE JOINT POZMIX GEI DISPLACEMENT 1.3 REAS EQUIPMENT PUMP TRUCK EQUIPMENT PUMP TRUCK CEMENTER DRIVER BULK TRUCK BULK TRUCK BULK TRUCK TO Allied Cementing Co., ELC. You are bereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor. I have read and understand the "GENERAL SALES TAX (If TERMS AND CONDITIONS" listed on the reverse side. SALES TAX (If TERMS AND CONDITIONS" listed on the reverse side. SALES TAX (If TERMS AND CONDITIONS" listed on the reverse side. SALES TAX (If TERMS AND CONDITIONS" listed on the reverse side. SALES TAX (If TOTAL CHARCE)	Mered //So	COUNTY	STATE
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SWIFT OPERATOR

Thank You!



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SWIFT OPERATOR

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES TH

APPROVAL

Thank You!

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SWIFT Services, Inc.

DATES/AUGID PAGENO.

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CUSTOMER LOVER	NAN WAN	RIDE	WELL NO.			SCHUG	ART 1-	-27 JOB TYPE CEMENT PORT COLOR THEKET NO. 18941
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUM	PS C	PRESSUR TUBING	E (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
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DRILL STEM TEST REPORT

American Warrior Inc.

Schugart 1-27

PO Box 399 Garden City, Ks 27-18-22/Ness KS

Reference Elevations:

Tester:

67846

Job Ticket: 39953 DST#: 2

ATTN: Jason Alm

Test Start: 2010.08.23 @ 10:03:27

GENERAL INFORMATION:

Formation: Miss

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

Time Tool Opened: 11:35:52 Time Test Ended: 16:30:51

Unit No:

Brian Fairbank

4232.00 ft (KB) To 4288.00 ft (KB) (TVD)

2200.00 ft (KB) 2192.00 ft (CF)

7.88 inches Hole Condition: Hole Diameter:

KB to GR/CF: 8.00 ft

Serial #: 8647

Interval:

Total Depth:

Start Time:

Inside

4288.00 ft (KB) (TVD)

4238.00 ft (KB) 172.90 psig @

Capacity: Last Calib.: 8000.00 psig

Press@RunDepth: Start Date: 2010.08.23

End Date: 2010.08.23 16:30:51

2010.08.23 Time On Btm: 2010.08.23 @ 11:34:52

End Time:

2010.08.23 @ 14:37:51 Time Off Btm:

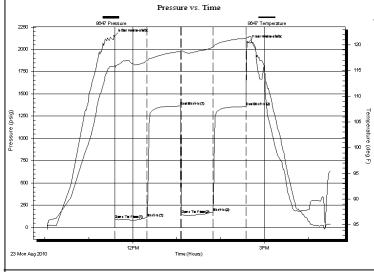
TEST COMMENT: IFP-BOB 19 min

ISI - 1/4" blow back - died 18 min

FFP - BOB 14 min

10:03:27

FSI - 1" blow back - died 11 min



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2147.38	115.87	Initial Hydro-static
1	96.10	115.40	Open To Flow (1)
45	113.01	116.84	Shut-In(1)
91	1363.10	118.68	End Shut-In(1)
92	149.41	118.79	Open To Flow (2)
135	172.90	119.50	Shut-In(2)
180	1357.19	121.25	End Shut-In(2)
183	2077.80	121.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
165.00	OCM 15%O, 85%M	2.03
175.00	FREE OIL 95%O, 5%M	2.45
0.00	185' GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc. Ref. No: 39953 Printed: 2010.08.23 @ 16:54:39 Page 1



DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc. Schugart 1-27

PO Box 399 **27-18-22/Ness KS**

Garden City, Ks Job Ticket: 39953 **DST#:2**

ATTN: Jason Alm Test Start: 2010.08.23 @ 10:03:27

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:41 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:54.00 sec/qtCushion Volume:bbl

Water Loss: 9.55 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 3900.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

	Length ft	Description	Volume bbl
	165.00	OCM 15%O, 85%M	2.032
ĺ	175.00	FREE OIL 95%O, 5%M	2.455
ĺ	0.00	185' GIP	0.000

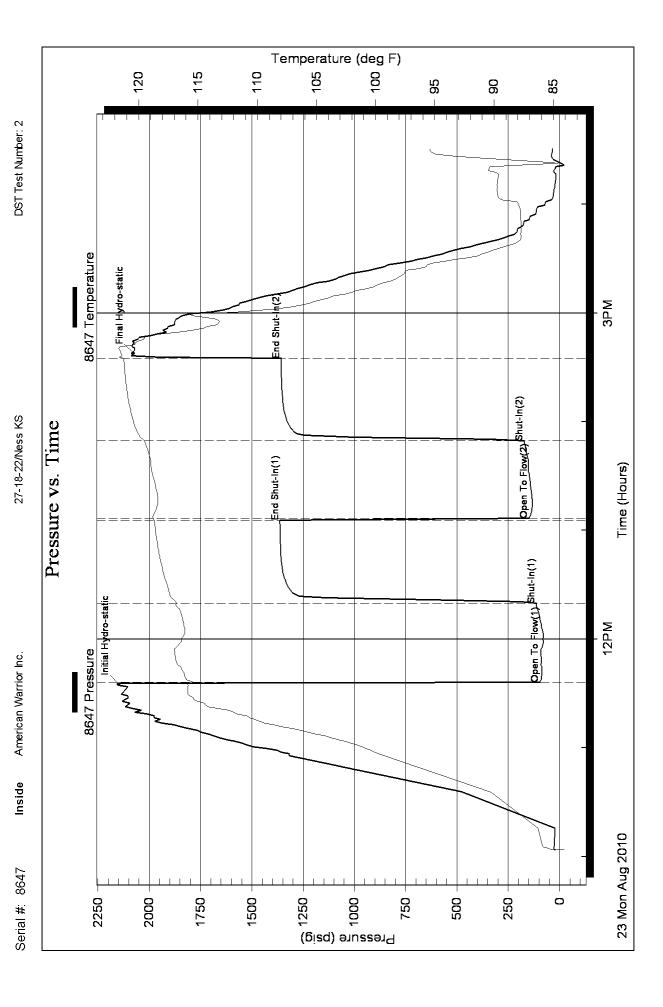
Total Length: 340.00 ft Total Volume: 4.487 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 39953 Printed: 2010.08.23 @ 16:54:40 Page 2



Printed: 2010.08.23 @ 16:54:42 Page 3 39953 Ref. No: Trilobite Testing, Inc