

# Kansas Corporation Commission Oil & Gas Conservation Division

1053907

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: Original Total Depth: Conv. 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 #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	
Spud Date or Date Reached TD Completion Date or Recompletion Date  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 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	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	Ryersee 4-33
Doc ID	1053907

# Tops

Name	Тор	Datum
Anhydrite	1338	780
Heebner	3568	-1454
Lansing	3613	-1499
ВКС	3930	-1816
Pawnee	4015	-1901
Ft. Scott	4086	-1972
Cherokee	4102	-1988
Mississippian	4184	-2070
TD	4199	-2077

# **Geological Report**

American Warrior, Inc.

Ryersee #4-33
300' FNL & 1975' FEL
Sec. 33 T18s R21w
Ness County, Kansas



American Warrior, Inc.

# **General Data**

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Ryersee #4-33

300' FNL & 1975' FNL Sec. 33 T18s R21w Ness County, Kansas API # 15-135-25074-0000

Drilling Contractor: Petromark Drilling, LLC Rig #1

Geologist: Jason Alm

Spud Date: September 12, 2010

Completion Date: September 21, 2010

Elevation: 2108' Ground Level

2114' Kelly Bushing

Directions: Bazine KS, East on Hwy 96 to GG road, ¼ mi. East,

South into location.

Casing: 1340' 8 5/8" surface casing

4192' 5 1/2" production casing

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

Drilling Time: 3500' to RTD

Electric Logs: Log-Tech, Inc. "Kenyon Bange"

CNL/CDL, DIL

Drillstem Tests: Three, Trilobite Testing, Inc. "Ray Schwager"

Problems: There was two foot of fill in hole during log causing

LTD to be short.

Remarks: Gas detector was reading incorrectly due to oil in

system from DST #2.

# **Formation Tops**

	American Warrior, Inc.
	Ryersee #4-33
	Sec. 33 T18s R21w
Formation	300' FNL & 1975' FEL
Anhydrite	1338', +780
Base	1368', +746
Heebner	3568', -1454
Lansing	3613', -1499
BKc	3930', -1816
Pawnee	4015', -1901
Fort Scott	4086', -1972
Cherokee	4102', -1988
Mississippian	4184', -2070
RTD	4197', -2083
LTD	4191', -2077

# **Sample Zone Descriptions**

#### **Fort Scott**

# (4086', -1972): Not Tested

Ls – Fine crystalline with pinpoint inter-crystalline and vuggy porosity, light to fair oil stain and saturation, slight show of free oil when broken, fair odor, fair yellow fluorescents, 25 units hotwire.

# Cherokee Sand "A" (4104', -1990): Covered in DST #1

SS – Quartz, fine grained, well rounded, poorly cemented, well sorted with fair to good inter-granular porosity, light oil stain and saturation in porosity, fair show of free oil when broken, light yellow fluorescents, slight odor, 25 units hotwire.

#### Cherokee Sand "B" (4142', -2028): Covered in DST #2

SS – Quartz, fine to coarse grained, sub-rounded, fairly sorted, poorly cemented, with fair inter-granular porosity, light to fair scattered oil stain and saturation in porosity, show of free oil when broken, good cut fluorescents, 105 units hotwire.

# Mississippian Osage (4184', -2070'): Covered in DST #3

Dolo –  $\Delta$  – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, heavy chert, triptolic with good vuggy porosity, light to fair oil stain in porosity, good show of free oil, good odor, fair to bright yellow fluorescents.

# **Drill Stem Tests**

Trilobite Testing, Inc. "Ray Schwager"

# DST #1 Cherokee "A" Sand

Interval (4101' – 4120') Anchor Length 19'

IHP - 1940 #

IFP - 30" - W.S.B. 19-18 #
ISI - 30" - Dead 74 #
FFP - 10" - Dead 18-19 #

FHP - 1938 # BHT - 107°F

Recovery: 2' Mud w/ oil spots

# DST #2 Cherokee "B" Sand

Interval (4100' – 4165') Anchor Length 65'

IHP - 1951 #

IFP - 5" - B.O.B. 5 min. 60-87 #
ISI - 30" - W.S.B. 929 #
FFP - 30" - B.O.B. 12 min. 103-180 #
FSI - 30" - Dead 790 #

FHP - 1928 # BHT - 123°F

Recovery: 80' GIP

10' CO

90' OCM 10% Oil

124' SOCMW 2% Oil, 68% Water

124' Water

# DST #3 Mississippian Osage

Interval (4190' – 4197') Anchor Length 7'

IHP - 1981 #

IFP - 45" - Built to 2 in. 28-68 #
ISI - 30" - Dead 1109 #
FFP - 30" - Built to 2 in. 75-86 #
FSI - 30" - Dead 1087 #

FHP - 1956 # BHT - 116°F

Recovery: 40' CO

30' OCM 15% Oil 120' MGO 85% Oil

5' OCMW 20% Oil, 70% Water

# **Structural Comparison**

	American Warrior, Inc.	L.D. Drilling			
	Ryersee #4-33	Thomas #1			
	Sec. 33 T18s R21w	Sec. 33 T18s R21w		Sec. 33 T18s R21w	
Formation	300' FNL & 1975' FEL	4620' FSL & 1980' FEL		1100' FNL & 1450' FEL	
Anhydrite	1338', +780	1334', +784	<b>(-4)</b>	1336', +785	(-5)
Base	1368', +746	NA	NA	NA	NA
Heebner	3568', -1454	3569', -1451	(-3)	3572', -1451	(-3)
Lansing	3613', -1499	3614', -1496	(-3)	3617', -1496	(-3)
BKc	3930', -1816	3930', -1812	(-4)	NA	NA
Pawnee	4015', -1901	4016', -1898	(-3)	4018', -1897	(-4)
Fort Scott	4086', -1972	4088', -1970	(-2)	4090', -1969	(-3)
Cherokee	4102', -1988	4103', -1985	(-3)	4106', -1985	(-3)
Mississippian	4184', -2070	4189', -2071	(+1)	4215', -2094	(+24)

# **Summary**

The location for the Ryersee #4-33 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Three drill stem tests were conducted one of which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been thoroughly examined the decision was made to run 5½ inch production casing to further evaluate the Ryersee #4-33 well.

# **Recommended Perforations**

**Primary:** 

**Mississippian Osage** (4184' – 4188') **DST #3** 

**Before abandonment:** 

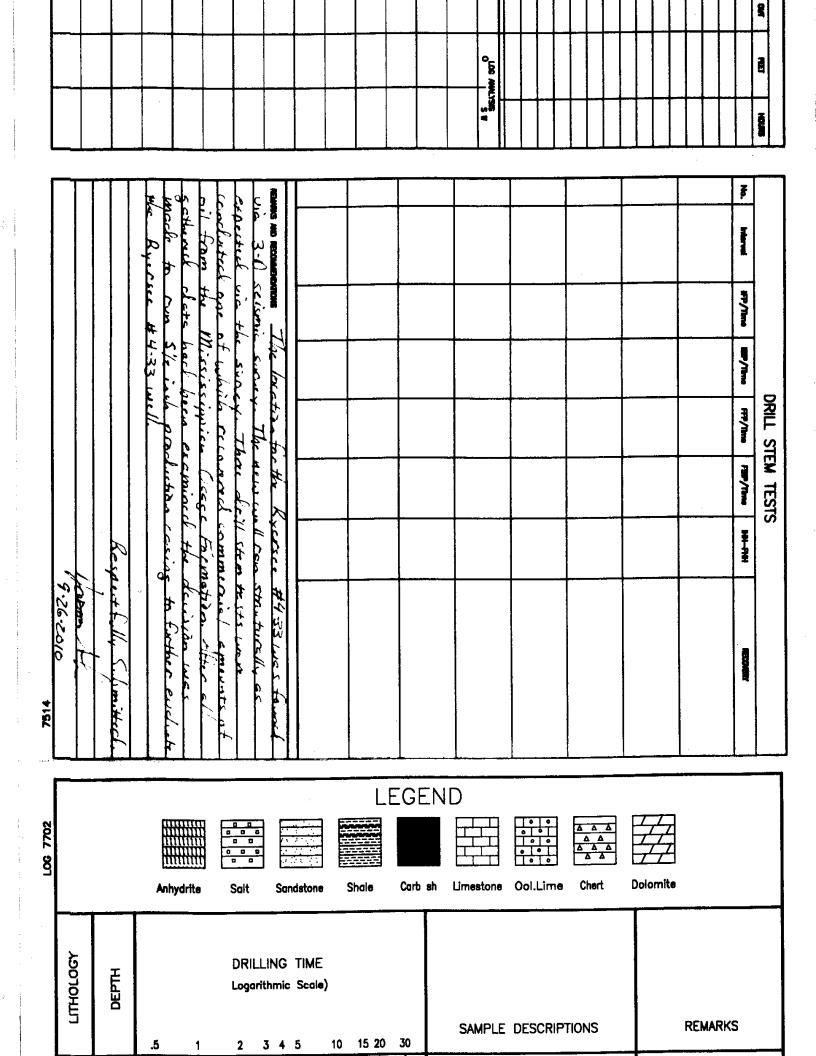
Cherokee "B" Sand (4142' – 4148') DST #2

Respectfully Submitted,

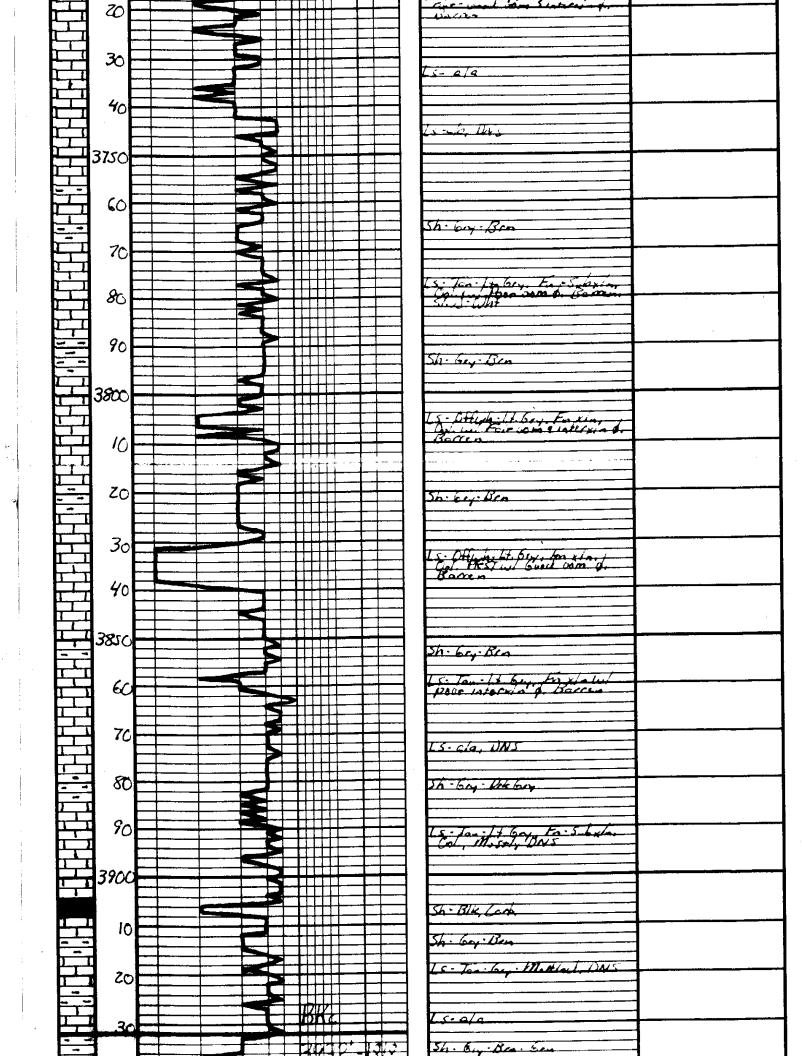
Jason Alm Hard Rock Consulting, Inc.

#### GEOLOGICAL SUPERVISION FROM 34CO, TO R7 MUD UP 34CO, SAMPLES SAVED FROM \_ RTD 4/97 DRILLING TIME KEPT FROM COMM: 9-12-2010 CONTRACTOR -FIELD SEC.\_33 Anhydrite LEASE Byersee OPERATOR American COUNTY Ness LOCATION BOO'FNL & 1975 FEI June 1. All Serrand echace REFERENCE WELL FOR STRUCTURAL COMPARISON Penglest. DYCESCE FORMATION Bazine Petromack Ocilling. #1-33 뎧 408C'-1972 3930, 1816 4012' - 1501 3568'-. ≱P. 1338 + 786 1363 + 786 35CO 10 -Hard Rock Consulting, Inc. ခြ I COMP! TICO FAILS 1450, EEL DRILLING TIME AND SAMPLE 3500 Jason Alm Petroleum Geologist MUM 182 STATE GEOLOGIST'S REPORT Macriot Inc. ਰ ' Hays, KS 6760] ಥ 4191' # 2'Ell: bede P.O. Box 1260 1336, +778, WELL NO. 4-33 l おし 9-21-201 RGE\_2/LL 12 Konsos \_ 10\_\_RTD MUM 24.02 PTO / meciles APT# 15-135-75074-0000 ķ STRUCT. 33 TIRE RZ/1. 00 100 <u>&</u> A CONTRACT PRODUCTION 51/2 1/95 SURFACE SS 10 1340 From Kelly Kyushing Measurements Are All **ELECTRICAL SURVEYS** CNL/COL. DIL Los-Tech 182 2108 CASING RECORD **ELEVATION** 33 יין ייני Coap **BZ**'.

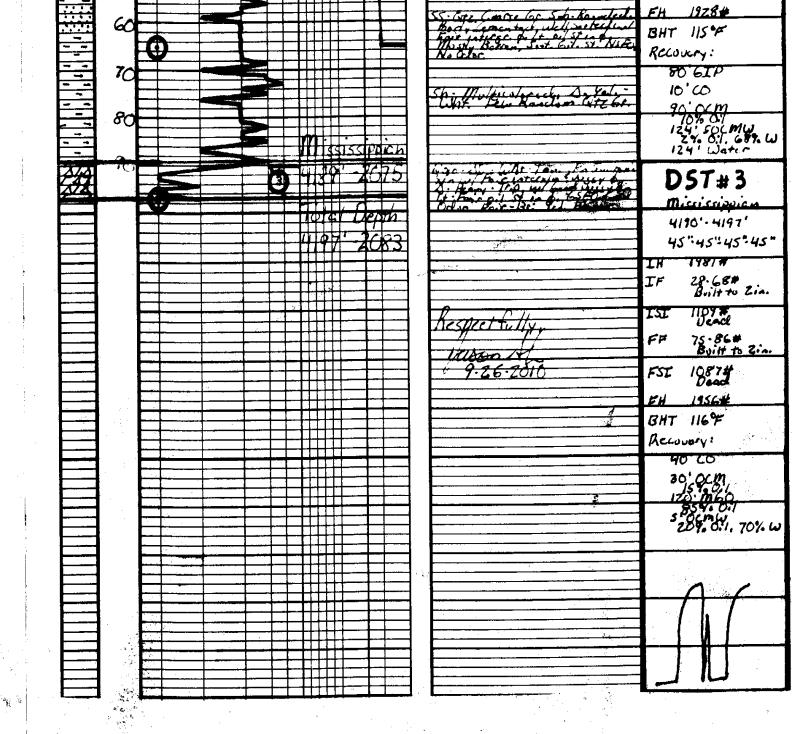
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19008

REFERRAL LOCATION  REFERRAL LOCATION  PRICE PRICE PRICE SECONDARY REFERENCES WELL TYPE PART NUMBER  S 75  S 76 D  HO 9	Inc.
	nc.
DESCRIPTION  PLUS PLUS PURPOSE FLUSH 110  PLUMP O HARCE TOP PLUS TOP PLUS FLUSH LIDWIN FLUSH LIDWIN KCL FLOCKLE D-AIR SUNICE CHARCE SE CEMENT TO:  REMIT PAYMENT TO:  SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560 785-798-2300	
SHIP OUR EQUIPM WITHOUT BE WE UNDER SERVIC CALCULATION SATISFACTION ARE YOUR TO SATISFACTION ARE YOU STATES ACTION AND PERFORMED PERFORM	JL
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SWIRT OPERATOR

Thank You!

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SWIFT Services, Inc.

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	DATE / 5 Sep / U	PAGE NO.

ustomer Ymerican	WARRIE	OR WELL NO.		4-33 JOB TYPE CEMENT 85/8 TICKET NO. 19008
CHART TIM	E RA'	ATE VOLUME PUMPS PM) (BBL) (GAL) T	PRESSURE (PSI) C TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS
03	30			ONLOCATION
94	45			START PIPE IN WELL 85/8-23#
				RTDE 1342 SETE 1340 TOTAL PIPE 1343' SHOEST. 14.60'
				CENTRALIZERS 1,48,29
				, , , , ,
06	32			CIRCULATE.
06	46 (	6 12	100	Punp. 500 car MUD FLUSH
06	48 L	6 20	100	Pump 20Bbl KCL Flust
06	51			HILL CENKINI 450s SMO
		46	V 100	min 1005x @ 11.8 pp6
	<u> </u>		100	mix 150 5x@ 12,4006.
	<u> </u>	9 34	100	MIX 10USX @13 PPS
	(	26	100	MIN 100 SX @ 14,5 pps
07	27			RELEASE PLUG.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		·		
07,	28 C	<i>o</i> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>Y</b>	START DISPLACEMENT
07	15 2	853	500	PLUG DOWN
	<u> </u>			
07	50			WASH TRUCK
<b>\dagger</b>	5 /			JOB COMPLETE.
		<u> </u>		
				THANKS # 110
				Tour ITere -
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				JASON JEFF JOE



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ADDRESS				

**TICKET 19014** 

						Q
SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY PARISH	STATE CITY	DATE OWNER	
17/25 (214, 12		RUERSEE 4-33   Ness		KS BASINE, KS.	21 SEPID	
2.	TICKET TYPE CONTRACTOR			Ö	ORDER NO.	
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9.	WELL TYPE	i	JOB PURPOSE ,	WELL PERMIT NO.	WELL LOCATION	
	Oll	DEVELOPMENT	S'à Longstrik		23MES/WITHTO	ゴ
REFERRAL LOCATION	INVOICE INSTRUCTIONS					

014515	DATE SIGNED	START OF WORK OR DE	MUST BE SIGNED OF CU	LIMITED WARRANTY provisions	the terms and conc	LEGAL TERMS:			4119	22/	188	407	400	403	402	578	575	PRICE REFERENCE
4	TIME SIGNED /OX	START OF WORK OR DELINER POPSODES 1	STOMER OR CHRISTOMER'S AGENT PRIC	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		The state of the s										SECONDARY REFERENCE/ PART NUMBER
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		<del> </del>										14	7	7			₹	무
763-796-2300		P.O. BOX 466	SWIFT SERVICES, INC.		ZEMII TAYMENI IC:				ROTATION / PRAD RENTAL	数 LIQUID KCI	DIUD FLUSH	INSERT FLOAT SHOW WHATO FILL	LATEH DOWN PLUG & BAFFLE	CEMENT BASKET	CENTRALIZERS	Pump CHARGE	MILEAGE & 110	DESCRIPTION
CUSTOMER DID NOT WISH TO RESPOND	RE YOU SATISFIED WITH OUR SERVICE?	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	ERFORMED WITHOU	WE UNDERSTOOD AND MET YOUR NEEDS?	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	SURVEY					4	7						
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CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

Thank You!



# TICKET CONTINUATION

TICKET No. 19014

FLOCELE 44 165 SALT SALT SALT  HALAD-1 124 165 D-AIR 124 165  STANDARD (EMENT COMMES 175 5X SERVICE CHANGE COMMES 20 TON MILES 20 TON M	ADED MILES 30	589	185	325										290	286	284	283	276		Siesen
FLOCELE 44 165 SALT SALT SALT  HALAD-1 124 165 D-AIR 124 165  STANDARD (EMENT COMMES 175 5X SERVICE CHANGE COMMES 20 TON MILES 20 TON M	CARONER   CAMPAGE   1/33   351   354   355   3										·									ines. Inco
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175 SX CUBIC FEET 175	100 MILES 83.18 ASO MILES 30.18 ASO MILES 30.1		S																**	
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JOB	LOG

# SWIFT Services, Inc.



DATE 2/SEPID PAGE NO.

USTOMER YVVERID	adlu ua	RIOR	WELL NO.		LEASE KYERS	FE 2/-	33 JOB TYPE 5 2 LUNGSTRING TICKET NO. 19014
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSUR TUBING		DESCRIPTION OF OPERATION AND MATERIALS
	1315						ON LOCATION
	1400		,				START PIPE 52 1554
							RIDE4198 LIDE 4191
							SHOE JT. 38.95
							CENTRALIZERS 1,2,3,4,80
							BASKET S
	1617	· · · · · · · · · · · · · · · · · · ·				ļ	DROP BALL CIRCLE ATC.
	1648	10	12				Primp 500 GAL MUDFLUSH
	1650	<u> </u>	20	7			Famp 30 BhP KIL FLUSH
	1					<u> </u>	7
	1655		17				PLUGRH (3051)
	. 53 (5. 5.						4 1/5 200 200
	1700	-/	35	7			MIX (EMENI 145 SY EAQCIS, 5 PX
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	1113						WASHOUT Pump LINGES.
١	1714						RELEASE PLUG.
	1 11 1					1/2	AFCEASE TEUG.
	17/6	le		7			START DISPLACEMENT
	1110						Jan. Olyper The Name of the Na
	1733		100	7		1500	PLUC DOWN PRISSURE UP LATER TLUC IN.
	1735	,					RELEASE PRESSURE DRY
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_	1800						JOB COMPLETE.
						<u> </u>	THANKS #110
							JASON TEFF



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TICKET 18145

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SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	ICITY	DATE	WO	OWNER	$\ \cdot\ $	
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" Note of the	CONTRACTOR		RIG NAME/NO.	SHIPPED	HIPPED DELIVERED TO	ORDER NO.	ŀ			
	LI SALES			7	F Beeing, I					-
15	WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION				
	6.1	12 field	Convert Line of X	No.						
REFERRAL LOCATION	INVOICE INSTRUCTIONS					,				

	DATE SIGNED	START OF WORK OR DEL	MUST BE SIGNED BY CUSTOMER OR CUSTOM	but are not limited	the terms and cond	LEGAL TERMS: (	582	P				276	236		296	5715#	275	PRICE EFERENCE
	TIME SIGNED	START OF WORK OR DELIVERY OF GOODS	IN I Y PROVISIONS.  TOMER OR CUSTOMER'S AGENT PRICE	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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	P A			Y, and	nclude,	rees to												ACCOUNTING ACCT DF
		P.O. BOX 466  P.O. BOX 466  NESS CITY KS 67560  NESS CITY KS 67560  SATISFACTORILY?	SWIFT SERVICES, INC. OUR SERVICE WAS PERFORMED WITHOUT DELAY?	MET YOUR NEEDS	CEMIL PAYMEN     O:   OUR EQUIPMENT PERFORMED   WITHOUT BREAKDOWN?	5	Midliman Drawas &	Service Chy Comout				Flore	SWD. Commy		D. 11.6	Ruys Charge - real Non	MILEAGE # //7	DESCRIPTION
CUSTOMER DID NOT WISH TO RESPOND	□ YES	JOB E EQUIPMEN	S IOUT DELAY?	AND	PERFORMED OWN?	EY		135				7,	125		<i>,</i>		20	QTY.
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RESPOND	8					DECIDED												QTY.
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CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES
APPROVAL

Thank You!

JOB L				*	2MILL	Sew	ices, Inc.	DATES -18-10 PAGE
AM	encan l	رمساعل	WELL NO.	.33	LEASE		JOB TYPE	TICKET NO.
CHART NO.		RATE (SPM)	(BBL) (GAL)	PUMPS	PRESSUR	E (P81)	Century	18145
NV.		(870)	(BBL) (GAL)	TC	SUBMA .	CASING	DESCRIPTION OF OPERAT	ION AND MATERIALS
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						580	Pros 51/2 to 500 Mix 95 SKS SWE	# Close in
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American Warrior Inc

Ryersee #4-33

PO Box 399

33-18s-21w Ness

Garden City Ks 67846

Job Ticket: 40144 DST#: 1

ATTN: Scott Corsair

Test Start: 2010.09.19 @ 14:59:03

# **GENERAL INFORMATION:**

Formation: Cher Sd "A"

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

Time Tool Opened: 17:28:28 Time Test Ended: 20:41:57

Unit No:

Tester:

Ray Schwager

Interval: 4101.00 ft (KB) To 4120.00 ft (KB) (TVD)

Reference Elevations:

2114.00 ft (KB)

Total Depth: 4120.00 ft (KB) (TVD) 2108.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6625 Press@RunDepth:

Hole Diameter:

Inside

18.36 psig @

4102.00 ft (KB)

Capacity:

8000.00 psig

Start Date: 2010.09.19 End Date:

Last Calib.: Time On Btm: 2010.09.19

Start Time:

14:59:03

7.85 inches Hole Condition: Fair

End Time:

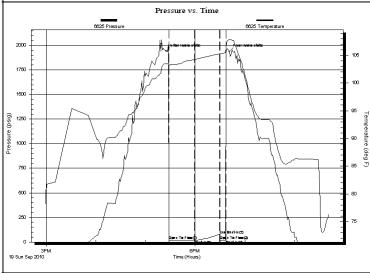
20:41:57 Time Off Btm:

2010.09.19

2010.09.19 @ 17:24:58 2010.09.19 @ 18:41:28

TEST COMMENT: IFP- surface bl

FFP-no bl



	PRESSURE SUMMARY						
ĺ	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	1940.69	103.48	Initial Hydro-static			
	4	19.33	103.14	Open To Flow (1)			
	35	18.36	104.23	Shut-In(1)			
	65	74.26	105.26	End Shut-In(1)			
	65	18.63	105.27	Open To Flow (2)			
	72	19.16	105.46	Shut-In(2)			
(doa	77	1938.35	107.81	Final Hydro-static			
9							

#### Recovery

Description	Volume (bbl)
Mud w/show of oil	0.01
	·

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

Trilobite Testing, Inc. Ref. No: 40144 Printed: 2010.09.20 @ 08:23:44 Page 1



**FLUID SUMMARY** 

ppm

American Warrior Inc Ryersee #4-33

PO Box 399 **33-18s-21w Ness** 

Garden City Ks 67846 Job Ticket: 40144 DST#:1

ATTN: Scott Corsair Test Start: 2010.09.19 @ 14:59:03

**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:

Viscosity: 43.00 sec/qt Cushion Volume: bbl

Water Loss: 8.75 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4700.00 ppm Filter Cake: 1.00 inches

# **Recovery Information**

# Recovery Table

Length ft	Description	Volume bbl
2.00	Mud w/show of oil	0.010

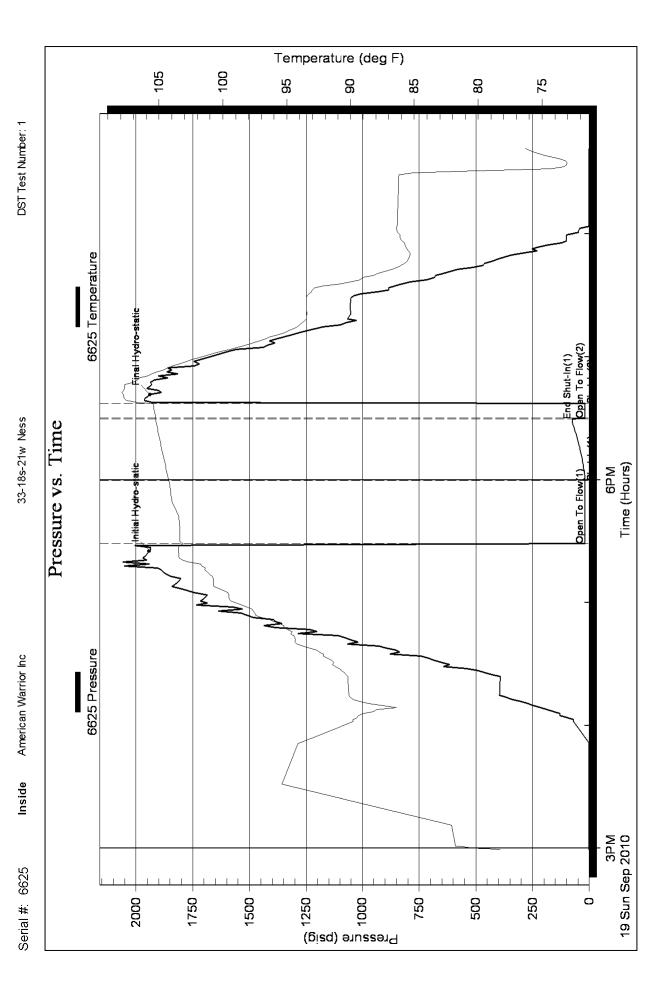
Total Length: 2.00 ft Total Volume: 0.010 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 40144 Printed: 2010.09.20 @ 08:23:45 Page 2



Printed: 2010.09.20 @ 08:23:46 40144 Ref. No: Trilobite Testing, Inc

Page 3



American Warrior Inc

Ryersee #4-33

PO Box 399

33-18s-21w Ness

Garden City Ks 67846

Job Ticket: 40145 DST#: 2

ATTN: Scott Corsair

Test Start: 2010.09.20 @ 04:10:56

#### **GENERAL INFORMATION:**

Formation: Cher Sd "B"

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

Time Tool Opened: 06:09:21 Time Test Ended: 09:59:20 Tester: Ray Schwager

Unit No:

2114.00 ft (KB)

4100.00 ft (KB) To 4165.00 ft (KB) (TVD) 4165.00 ft (KB) (TVD)

Reference Elevations:

2108.00 ft (CF)

7.85 inches Hole Condition: Fair Hole Diameter:

KB to GR/CF: 6.00 ft

Serial #: 6625

Inside

4104.00 ft (KB) 180.74 psig @

Capacity:

8000.00 psig

Start Date:

Press@RunDepth:

2010.09.20

End Date: 2010.09.20 09:59:20 Last Calib.: Time On Btm: 2002.08.30

Start Time:

Interval:

Total Depth:

04:10:56

End Time:

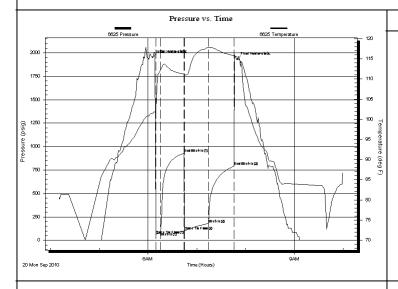
Time Off Btm:

2010.09.20 @ 06:05:51 2010.09.20 @ 07:49:21

TEST COMMENT: IFP-wk to strg in 5 min

ISIP-surface bl bk FFP-wk to strg in 12 min

FSIP-no bl bk



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1951.62	101.53	Initial Hydro-static
4	60.28	102.22	Open To Flow (1)
10	86.73	112.20	Shut-In(1)
39	929.21	111.21	End Shut-In(1)
39	103 74	111 02	Open To Flow (2)

PRESSURE SUMMARY

69 180.74 117.81 Shut-In(2) 100 790.34 115.77 End Shut-In(2) 115.49 Final Hydro-static 104 1928.47

Recovery

Length (ft)	Description	Volume (bbl)
0.00	80'GIP	0.00
10.00	co	0.05
92.00	OCM10%O10%W80%M	0.45
124.00	SOCMW 2%O30%M68%W	1.58
124.00	Water	1.74

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

Trilobite Testing, Inc. Ref. No: 40145 Printed: 2010.09.20 @ 11:01:29 Page 1



**FLUID SUMMARY** 

DST#: 2

American Warrior Inc

Ryersee #4-33

PO Box 399

33-18s-21w Ness

Garden City Ks 67846

Job Ticket: 40145

ATTN: Scott Corsair Test Start: 2010.09.20 @ 04:10:56

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: 39 deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 20000 ppm

Viscosity: 43.00 sec/qt Cushion Volume: bbl

Water Loss: 8.69 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4700.00 ppm Filter Cake: 1.00 inches

# **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
0.00	80'GIP	0.000
10.00	co	0.049
92.00	OCM10%O10%W80%M	0.452
124.00	SOCMW 2%O30%M68%W	1.575
124.00	Water	1.739

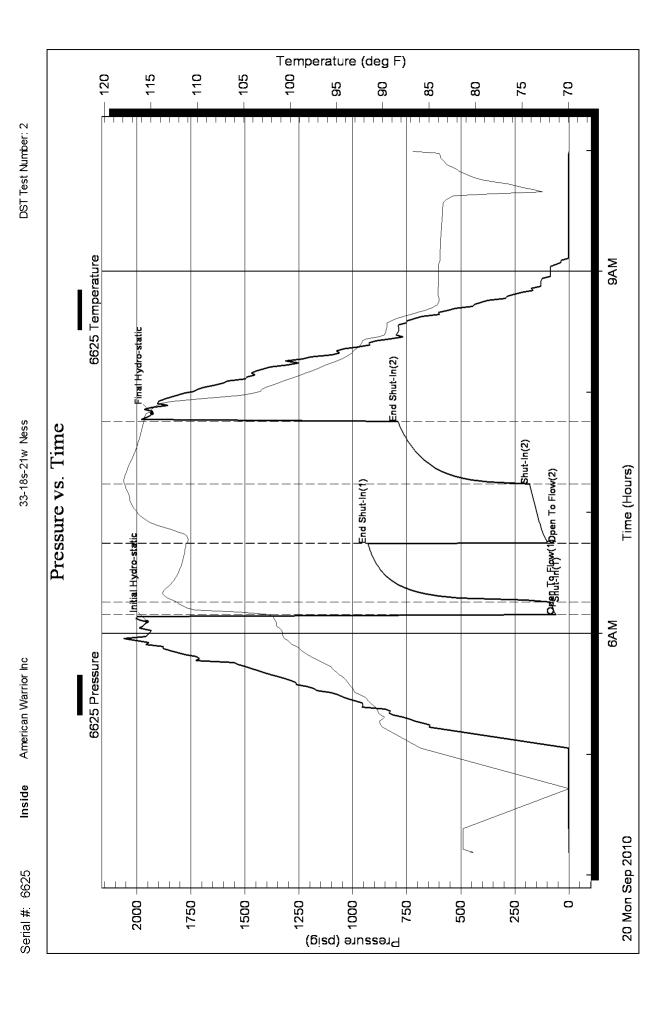
Total Length: 350.00 ft Total Volume: 3.815 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .3 @ 79F

Trilobite Testing, Inc Ref. No: 40145 Printed: 2010.09.20 @ 11:01:30 Page 2



Page 3 Printed: 2010.09.20 @ 11:01:31 40145 Ref. No: Trilobite Testing, Inc



American Warrior Inc

Ryersee #4-33

PO Box 399

33-18s-21w Ness

Garden City Ks 67846

Job Ticket: 40146

ATTN: Scott Corsair

Test Start: 2002.09.20 @ 18:39:56

# **GENERAL INFORMATION:**

Formation: Miss

Interval:

Start Date:

Start Time:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:08:56 Time Test Ended: 02:14:56

4190.00 ft (KB) To 4197.00 ft (KB) (TVD)

Total Depth: 4197.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair Test Type: Conventional Bottom Hole

Ray Schwager Unit No:

Reference Elevations:

2114.00 ft (KB)

2108.00 ft (CF)

DST#: 3

KB to GR/CF: 6.00 ft

Serial #: 6625 Inside

Press@RunDepth: 4191.00 ft (KB) 85.86 psig @ Capacity:

End Time:

End Date: 2002.09.21 Last Calib.:

02:14:55

8000.00 psig

Time On Btm:

Tester:

2002.08.31 2002.09.20 @ 21:01:26

Time Off Btm:

2002.09.21 @ 00:13:56

TEST COMMENT: IFP-w k bl thru-out 1/2"to 2"bl

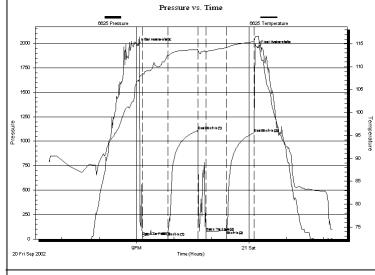
ISIP-no bl bk

2002.09.20

18:40:01

FFP-w k bl thr-out 1/4"to 2"bl

FSIP-no bl bk



# PRESSURE SUMMARY

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1981.91	106.88	Initial Hydro-static
	8	28.35	108.17	Open To Flow (1)
	49	68.07	112.47	Shut-In(1)
	97	1108.56	113.72	End Shut-In(1)
1	110	75.09	113.22	Open To Flow (2)
	143	85.86	114.16	Shut-In(2)
	187	1087.31	115.47	End Shut-In(2)
	193	1956.06	116.59	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
5.00 OCMW 20%O10%M70%W		0.02
120.00	MGO 5%G10%M85%O	0.64
30.00	OCM 15%O85%M	0.42
40.00	co	0.56

#### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 40146 Printed: 2010.09.21 @ 08:46:08 Page 1



**FLUID SUMMARY** 

ppm

American Warrior Inc Ryersee #4-33

PO Box 399 33-18s-21w Ness

Garden City Ks 67846 Job Ticket: 40146 DST#:3

ATTN: Scott Corsair Test Start: 2002.09.20 @ 18:39:56

**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:

Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 9.57 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5400.00 ppm Filter Cake: 1.00 inches

# **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
5.00	OCMW 20%O10%M70%W	0.025
120.00	MGO 5%G10%M85%O	0.636
30.00	OCM 15%O85%M	0.421
40.00	$\infty$	0.561

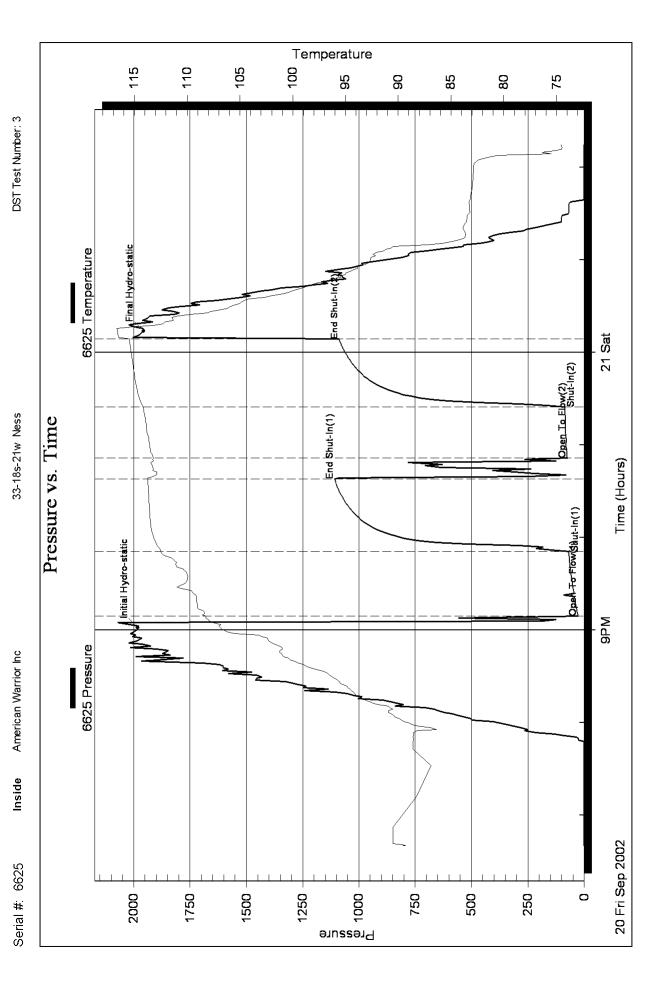
Total Length: 195.00 ft Total Volume: 1.643 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .35@75F

Trilobite Testing, Inc Ref. No: 40146 Printed: 2010.09.21 @ 08:46:09 Page 2



Page 3 Printed: 2010.09.21 @ 08:46:09 40146 Ref. No: Trilobite Testing, Inc