

Kansas Corporation Commission Oil & Gas Conservation Division

1070095

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: 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 #:	County: Permit #:
GSW Permit #:	. 5
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 II Approved by: Date:					



ide Two	
	1070095

Operator Name:			Lease	e ivame: _			_ vveii #		
Sec Twp	S. R	East West	Coun	ty:					
NSTRUCTIONS: Sho ime tool open and clos recovery, and flow rate ine Logs surveyed. At	sed, flowing and shut- s if gas to surface tes	in pressures, whether t, along with final char	shut-in pre	ssure read	ched static level,	hydrostatic press	sures, bottom h	ole temper	ature, fluid
Orill Stem Tests Taken (Attach Additional S	heets)	Yes No			og Formation	n (Top), Depth ar	nd Datum	☐ Sa	mple
Samples Sent to Geolo		☐ Yes ☐ No		Nam	е		Тор	Da	tum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	Electronically	Yes No Yes No Yes No							
ist All E. Logs Run:		CASIN	G RECORD	Ne	ew Used				
		Report all strings se	t-conductor,	surface, inte		on, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)		eight s. / Ft.	Setting Depth	Type of Cement	# Sacks Used		d Percent itives
		ADDITION	AL CEMENT	ING / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement		ks Used		Type and I	Percent Additives		
Perforate Protect Casing Plug Back TD Plug Off Zone									
Shots Per Foot	0 1/ -	N RECORD - Bridge Plootage of Each Interval P)		cture, Shot, Cemen		d	Depth
TUBING RECORD:	Size:	Set At:	Packer	At:	Liner Run:	Yes No)		
Date of First, Resumed F	Production, SWD or ENF	Producing M	ethod:	ing	Gas Lift 0	other (Explain)			
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf	Wat	er Bt	ols.	Gas-Oil Ratio		Gravity
DISPOSITIO Vented Sold (If vented, Subs	Used on Lease	Open Hole Other (Specify)	METHOD C		Comp. Con	nmingled mit ACO-4)	PRODUCTIO	DN INTERVA	L:

Form	ACO1 - Well Completion			
Operator American Warrior, Inc.				
Well Name	Bott 3-23			
Doc ID	1070095			

Tops

Name	Тор	Datum					
Anhydrite	1320	798					
Chase	2186	-68					
Heebner	3550	-1432					
Lansing	3595	-1477					
ВКС	3908	-1790					
Pawnee	3990	-1872					
Ft. Scott	4053	-1935					
Cherokee	4068	-1950					
Mississippian	4163	-2045					
LTD	4195	-2077					

Hard Rock Consulting, Inc	ic.	DISE DEFIN	NO SEE MAE THE O	DISPRIS CRUT FREET HOUSES	DRILL STEM TESTS																					ii sa		3	1 Scim		
Jason Alm Petroleum Geologist					No. Interval IFP/Time ISP/Time FFP/Time FSIP/Time \$44-FHM RESSMENT																	documents and a second				4 5 6 3	1	W 20 4	# www.	700	
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OPERATOR American Warrior, Inc.	FI FVATION					recommend					7:																	311			
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Cherokee 4068, - 1320 4068, -1320	2*				SIZ inch casing to convert the Bo# #3-23 into a water		AANNIV																								
Total Depth 4195' -2077 4195'-2077	Comp.				injection well for water-flooding the Cherokee Sand.								U														0	0 0		119	
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Geological Report

American Warrior, Inc.

Bott #3-23
2330' FSL & 1370' FEL
Sec. 23 T18s R21w
Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Bott #3-23 2330' FSL & 1370' FEL Sec. 23 T18s R21w Ness County, Kansas API # 15-135-25159-0000
Drilling Contractor:	Discovery Drilling Co., Inc. Rig #3
Geologist:	Jason Alm
Spud Date:	June 9, 2011
Completion Date:	June 16, 2011
Elevation:	2110' Ground Level 2118' Kelly Bushing
Directions:	Alexander KS, West 4 mi. on Hwy 96 to HH Rd North 1½ mi. East ½ mi. South and East into location.
Casing:	1330' 8 5/8" surface casing 4294' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	Log-Tech, Inc. "Chris Desaire" CNL/CNL, DIL
Drillstem Tests:	Two, Trilobite Testing, Inc. "Cody Bloedorn"
Problems:	None

None

Remarks:

Formation Tops

	American Warrior, Inc.
	Bott #3-23
	Sec. 23 T18s R21w
Formation	2330' FSL & 1370' FEL
Anhydrite	1320', +798
Base	1352', +766
Heebner	3550', -1432
Lansing	3595', -1477
BKc	3908', -1790
Pawnee	3990', -1872
Fort Scott	4053', -1935
Cherokee	4068', -1950
Mississippian	4163', -2045
LTD	4195', -2077
RTD	4195', -2077

Sample Zone Descriptions

Cherokee A Sand (4078', -1960): Covered in DST #1

Ss – Quartz, fine to very fine grained, fairly sorted, sub-rounded, well cemented with poor inter-granular porosity, light scattered oil stain in cluster, no show of free oil, dull yellow fluorescents, 12 units hotwire.

Cherokee B Sand (4100', -1982): Covered in DST #2

Ss – Quartz, fine to medium grained, fairly sorted, fairly cemented, sub-rounded, with good inter-granular porosity, light to fair oil stain in cluster, show of free oil, light odor, dull yellow fluorescents, 22 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Cody Bloedorn"

DST #1 Cherokee A Sand

Interval (4066' – 4090') Anchor Length 24'

IHP - 2010 #

IFP - 30" - Built to 1/4 in. 16-17 #
ISI - 30" - Dead 30 #
FFP - 30" - Dead 17-18 #

FHP - 1910 # BHT - 112°F

Recovery: 1' Oil Spotted Mud

DST #2 Cherokee B Sand

Interval (4065' – 4120') Anchor Length 55'

IHP - 2034 #

IFP - 5" - B.O.B. 3 min. 92-137 #
ISI - 10" - W.S.B. 397 #
FFP - 5" - B.O.B. 4 min. 148-184 #
FSI - 10" - W.S.B. 396 #

FHP - 1987 # BHT - 119°F

Recovery: 310' Watery Mud w/ Scum of Oil

Structural Comparison

	American Warrior, Inc.	American Warrior, Inc.		American Warrior, Inc.	
	Bott #3-23	Bott #1-23		Bott #2-23	
	Sec. 23 T18s R21w	Sec. 23 T18s R21w		Sec. 23 T18s R21w	
Formation	2330' FSL & 1370' FEL	1480' FSL & 1390' FEL		1416' FSL & 641' FEL	
Anhydrite	1320', +798	1310', +802	(-4)	1299',+799	(-1)
Base	1352', +766	NA	NA	1333', +765	(-1)
Heebner	3550', -1432	3542', -1430	(-2)	3530', -1432	FL
Lansing	3595', -1477	3585', -1473	(-4)	3574', -1476	(-1)
BKc	3908', -1790	NA	NA	3889', -1795	(+5)
Pawnee	3990', -1872	3988', -1876	(+4)	3974', -1876	(+4)
Fort Scott	4053', -1935	4048', -1936	(+1)	4034', -1936	(+1)
Cherokee	4068', -1950	4067', -1955	(+5)	4050', -1952	(+2)
Mississippian	4163', -2045	4145', -2033	(-12)	4128', -2030	(-15)

Summary

The location for the Bott #3-23 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted both of which were negative. After all gathered data had examined the decision was made to run 5 1/2 inch casing to convert the Bott #3-23 into a water injection well to water-flood the Cherokee Sand

Recommended Perforations

Cherokee B Sand: (4100' – 4110') DST #2

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.



CHARGE TO:
ADDRESS
CITY, STATE, ZIP CODE

TICKET

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			THOUT DELAY?	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SWIFT SERVICES, INC.		NS. OMER'S AGENT PRIOR T	LANTY provision	LIMITED WARRANTY provisions JUST BE SIGNED BY CUSTOMER OR CUSTOM
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R		DATE		STATE	COUNTY/PARISH	2 - 2 3 LEASE	WELL/PROJECT NO.	でする	SERVICE LOCATIONS
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SWIFT OPERATOR

APPROVAL

Thank You!

JOB LO)G				SWIFT	Servi	ces, Inc. Date to fun / Page no
ALIABALIER		102	WELL NO. 3	-23	LEASE Bo	H	JOB TYPE COMMENT ROLL SUFFACE TICKET NO. 20834
CHART	TIME	RATE (BPM)	VOLUME	PUMPS	PRESSUR		DESCRIPTION OF OPERATION AND MATERIALS
<u>NO.</u>		(BPM)	(BBL) (GAL)	TC	TUBING	CASING	425 she SWD w/ 54 florate.
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					 		TURBALIZING 1358
					 		
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LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include.	ereby acknowledges and reverse side hereof which	agrees to	REMIT P	REMIT PAYMENT TO:	SURVEY OUR EQUIPMENT PERFORMED	ERFORMED AGREE	DECIDED AGREE	PAGE TOTAL	2350 0
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DATE SIGNED	TIME SIGNED	P A	785-		ARE TOO SALISTIE	☐ YES	S S] 	
	0215				CUST	CUSTOMER DID NOT WISH TO RESPOND) RESPOND		

SWIFT OPERATOR

Thank You!



PO Box 466.

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	TON MILES	CUBIC FEET	109										_		9/105	125 16	9001/6	800 lb	175 sk	WELL BOH	
										_		-	_			-		88%		3-23	
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JOB LC	<i>J</i> G		Tueri ve				ces, Inc. DATYS Jun 11 PA
四點	tican W	brior	WELL NO.	3-23	LEASE BO	++	JOB TYPE Count long string TICKET NO. 2083
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSUR TUBING	E (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
							17551 FAZW/ Flocale 102-15-419
<u>.</u>							she + 47.12' Co.+ 1, 2, 3, 4, 80 Broket 80
							3/5 out 102 118 115 166 AD POTT POLLA
							· · · · · · · · · · · · · · · · · · ·
· · · · · · ·	8630				<u> </u>		l sans lal
	0925						on loc TRX 14
	1055						start 52"/5.5 * casing in well
	10.7	·					out of the
	0035	16/1W					Drop boll-circulate ROTATE
			1		·.		
	200	1/21	12			200	Pump 500 gal mudflush
		44	Jo		ļ ·	200	Pump 2066 KCh flush
						-	
	0110		12			-	Plug RH - MH 30sks - 20sk
	New	43	77			744	Mix 8A-2 1255/5 @ 15.2 PP9
	0115	14	30			20	MIX CHIZ TO THE
X.	0123					-	Drop latch down plug
	1100	-					O top laven a train prov
•							was out purp + linear
	0/26	64				200	Displace plugs
		634	85			900	0
	045	034	99			1500	LAND plug
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	0/47						Relane present to truck - held
·							wash truck
							Was N 110ez
							PACKIP
						-	
	0220						job complete
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CHARGE IO:	
ADDRESS	
CITY, STATE, ZIP CODE	

пскет 20201

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SERVICE LOCATIONS	IWELL/PROJECT NO.	ILEASE	I COLINTY/PARISH	EVATE	ICITY	IDATE	Charles	$\ $	
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	8	J677	- Mil	Ø		1100.90			
2. 1000	TICKET TYPE CONTRACTOR		RIG NAME/NO.	SHIPPED	SHIPPED DELIVERED TO	ORDER NO.			
	D SALES			`} `}	So hexadel				
¢:	WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION			
4.	Dh	Jeres as	SN 30180						
REFERRAL LOCATION	INVOICE INSTRUCTIONS								

	TE SIGNE	START OF WORK OR DELIVERY OF GOODS X Co ++	LIMITED WARR	the terms and cor	LEGAL TERMS:			92	185	27%	330		3%	577	525	PRICE
	TIME SIGNED	START OF WORK OR DELIVERY OF GOODS X Co ++	LIMITED WARRANTY provisions.	the terms and conditions on the reverse side hereof which include, but are not limited to PAYMENT. RELEASE INDEMNITY and	LEGAL TERMS: Customer hereby acknowledges and agrees to					5%						SECONDARY REFERENCE/ PART NUMBER
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785-798-2300 a cust			SWIFT SERVICES, INC. PERFORMED WITHOUT DELAY?	CENTIL CATIVIEN OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE LINDERSTOOD AND		,		Diam.	School CHC Com	FLOCELL	SAD CAT		٦ ، کو ل ل	Jam XSEPVICE	MILEAGE # // 2	DESCRIPTION
CUSTOMER DID NOT WISH TO RESPOND	ED WITH OUR	JOB JOB	S DELAY?	PERFORMED XXVIII?	/EY				125	<i>₹0</i>	Jasi		,	(2 ,	QTY.
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SWIFT OPERATOR

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

APPROVAL

Thank You!

JOB	LOG	•

SWIFT Services, Inc.



DATE OF -22 // PAGE NO

CUSTOMER	AWI		WELL NO.	23		LEASE /	10 7 7	JOB TYPE SYNLLOW SQ	TICKET NO.
CHART NO.	TIME	RATE (BPM)	YOLUME (BBL))GALT	PUM	P8	PRESSUR TUBING		DESCRIPTION OF OPERATION	
110.	1430	(or m)	[BOLDEN	<u> </u>		TOUNG	CAGING	DUWANDE	· .
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American Warrior Inc

Bott #3-23

Tester:

Unit No:

Po box 399 Garden City KS, 67846

23-18S-21W

Job Ticket: 43865

DST#: 1

2118.00 ft (KB)

2110.00 ft (CF)

ATTN: Jason Alm

Test Start: 2011.06.14 @ 10:29:23

Cody Bloedorn

42

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Test Type: Conventional Bottom Hole Deviated: Whipstock: ft (KB)

Time Tool Opened: 12:44:23 Time Test Ended: 15:36:23

Interval:

4066.00 ft (KB) To 4090.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 4090.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good KB to GR/CF: Hole Diameter: 8.00 ft

Serial #: 8700 Outside

Press@RunDepth: 4067.00 ft (KB) 17.10 psig @ Capacity: 8000.00 psig

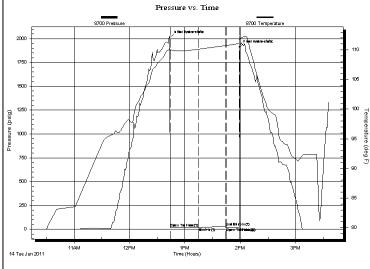
Start Date: 2011.06.14 End Date: 2011.06.14 Last Calib.: 2011.06.14 Start Time: 10:29:28 End Time: 15:36:22 Time On Btm: 2011.06.14 @ 12:43:53 Time Off Btm: 2011.06.14 @ 13:59:23

TEST COMMENT: 30 - IF- 1/4" blow, died in 11 Min

30 - ISI- No blow back

15 - FF- No blow back, PULLED TOOL

FSI- n/a



	PRESSURE SUMMARY				
Ī	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	2010.16	110.38	Initial Hydro-static	
	1	16.38	109.77	Open To Flow (1)	
	31	17.10	110.10	Shut-In(1)	
7	61	30.08	110.72	End Shut-In(1)	
empe	61	17.68	110.71	Open To Flow (2)	
rature	75	18.23	111.06	Shut-In(2)	
Temperature (deg F)	76	1910.01	112.29	Final Hydro-static	
J					

DDECCLIDE CLIMANA DV

Recovery

Length (ft)	Description	Volume (bbl)
1.00	1%O, 99%M	0.00
-		

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

Trilobite Testing, Inc. Ref. No: 43865 Printed: 2011.06.14 @ 16:37:13 Page 1



FLUID SUMMARY

American Warrior Inc

Po box 399 Garden City KS, 67846

23-18S-21W

Bott #3-23

Job Ticket: 43865

DST#: 1

ATTN: Jason Alm

Test Start: 2011.06.14 @ 10:29:23

Mud and Cushion Information

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

Viscosity: 58.00 sec/qt Cushion Volume: bbl

6.40 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1700.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
1.00	1%O, 99%M	0.005

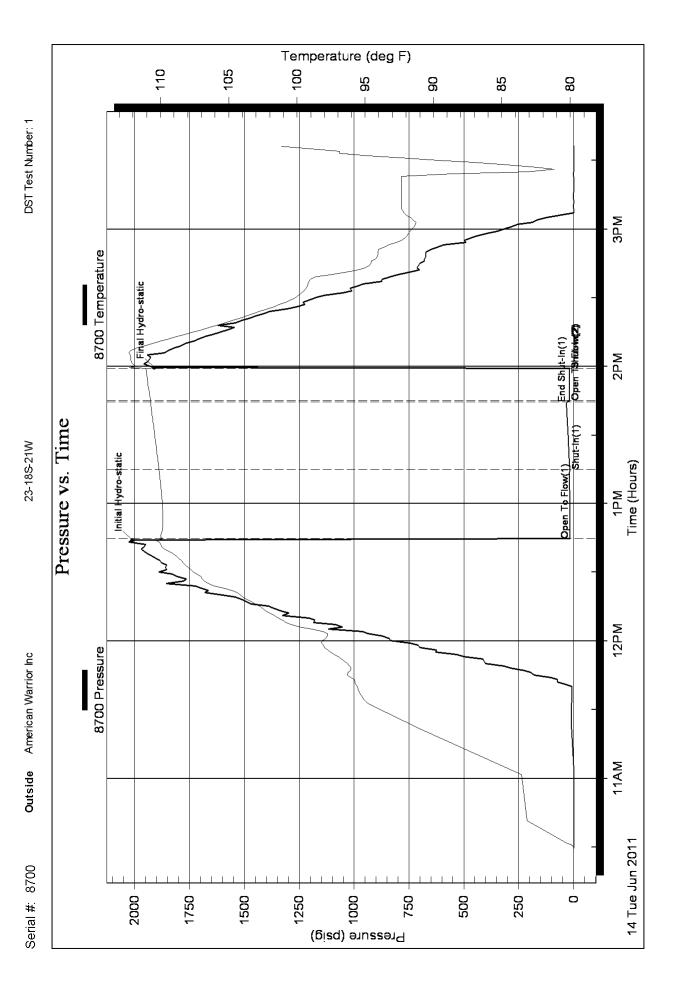
Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: PULLED TOOL 15 MINUTES AFTER 2ND OPEN

Trilobite Testing, Inc Ref. No: 43865 Printed: 2011.06.14 @ 16:37:14 Page 2



Printed: 2011.06.14 @ 16:37:15 43865 Ref. No:

Trilobite Testing, Inc

Page 3



American Warrior Inc

23-18S-21W Ness

Po box 399 Garden City KS, 67846

42

Bott #3-23

Tester:

Unit No:

Job Ticket: 43866 DST#: 2

Cody Bloedorn

2118.00 ft (KB)

2110.00 ft (CF)

ATTN: Jason Alm Test Start: 2011.06.14 @ 21:03:33

GENERAL INFORMATION:

Formation: Cherokee "B" sand

Test Type: Conventional Bottom Hole Deviated: Whipstock: ft (KB)

Time Tool Opened: 00:21:03 Time Test Ended: 03:00:03

Interval: 4065.00 ft (KB) To 4120.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 4120.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good KB to GR/CF: Hole Diameter: 8.00 ft

Serial #: 8700

Press@RunDepth: 4104.00 ft (KB) 184.45 psig @ Capacity: 8000.00 psig

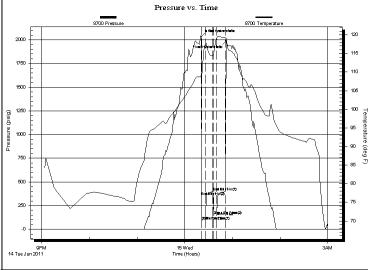
Start Date: 2011.06.14 End Date: 2011.06.15 Last Calib.: 2011.06.15 Start Time: 21:03:38 End Time: 03:00:02 Time On Btm: 2011.06.15 @ 00:20:33 Time Off Btm: 2011.06.15 @ 00:52:03

TEST COMMENT: 5 - IF- B.O.B. - 3 Min

Outside

10 - ISI- Weak surface blow 5 - FF- B.O.B. - 4 Min

10 - FSI- Very weak surface blow



	PRESSURE SUMMARY				
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	2034.63	109.14	Initial Hydro-static	
	1	92.30	108.36	Open To Flow (1)	
	6	137.85	117.64	Shut-In(1)	
4	15	397.02	114.54	End Shut-In(1)	
empe	16	148.56	114.74	Open To Flow (2)	
Temperature	20	184.45	119.11	Shut-In(2)	
(deg	31	396.36	119.26	End Shut-In(2)	
J	32	1987.21	119.01	Final Hydro-static	

DDECCLIDE CLIMMADY

Recovery

Length (ft)	Description	Volume (bbl)
310.00	30%W, 70%M w ith oil scum	4.07

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

Trilobite Testing, Inc. Ref. No: 43866 Printed: 2011.06.15 @ 08:58:05 Page 1



FLUID SUMMARY

American Warrior Inc Bott #3-23

Po box 399 Garden City KS, 67846 **23-18S-21W Ness**

Job Ticket: 43866 **DST#: 2**

Serial #:

on Alm Test Start: 2011.06.14 @ 21:03:33

ATTN: Jason Alm

Mud and Cushion Information

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

Viscosity: 58.00 sec/qt Cushion Volume: bbl

Water Loss: 6.39 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1700.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	30%W, 70%M w ith oil scum	4.066

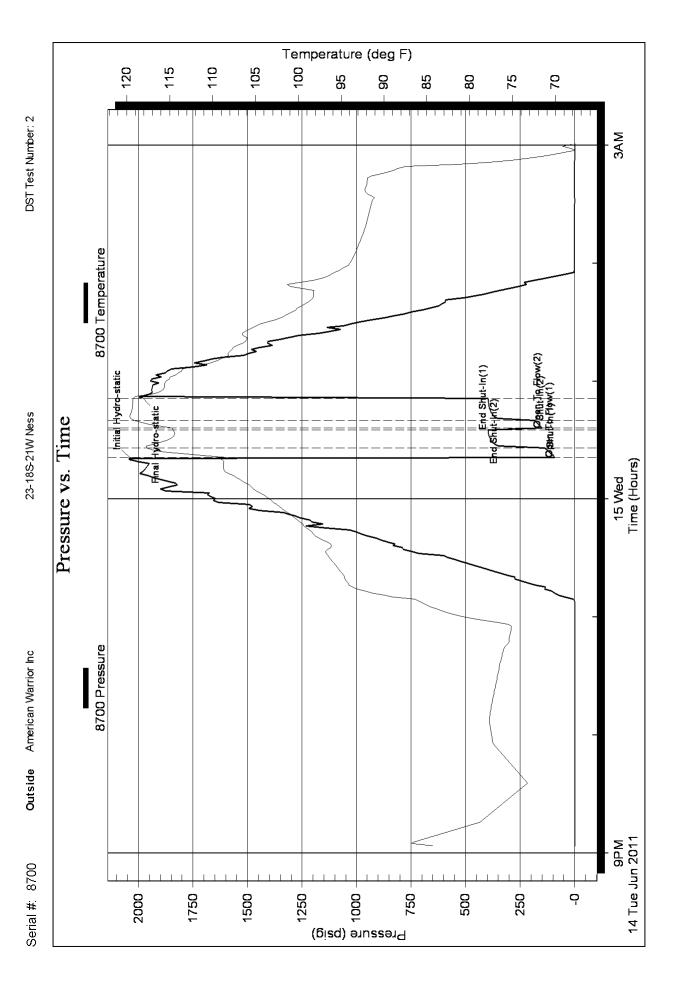
Total Length: 310.00 ft Total Volume: 4.066 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 43866 Printed: 2011.06.15 @ 08:58:06 Page 2



Page 3 Printed: 2011.06.15 @ 08:58:06 43866 Ref. No:

Trilobite Testing, Inc