

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1054691

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 Cast / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
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:
	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:	
Operator:	Drilling Fluid Monogoment Plan
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Oblasida sectori
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Chloride content: ppm Fluid volume: bbls
Conv. to GSW	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 #:	
ENHR         Permit #:	Quarter Sec Twp S. R East West
GSW Permit #:	County: Permit #:
Spud Date or Recompletion Date         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 #:
Sec TwpS. R East _ West	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 Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)		Yes	No		og Formatio	g Formation (Top), Depth and Datum			
Samples Sent to Geolog		Yes	No	Nam	1e		Тор	Datum	
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	☐ Yes ☐ Yes ☐ Yes	│ No │ No │ No						
List All E. Logs Run:									
		Report al		RECORD N	ew Used ermediate, producti	ion, etc.			
Purpose of String	Size Hole Drilled	Size Ca Set (In	asing	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					ement Squeeze Record I of Material Used)	Depth			
TUBING RECORD:	Siz	:e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed P	Producti	on, SWD or ENHF	₹.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit A	Comp. AC <i>O-5)</i>	Commingled (Submit ACO-4)		
(If vented, Subr	nit ACO	-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Schniepp 3-31 NE
Doc ID	1054691

Tops

Name	Тор	Datum
Anhydrite	1365	761
Heebner	3595	-1469
Lansing	3639	-1513
ВКС	3965	-1839
Pawnee	4043	-1917
Ft. Scott	4127	-2001
Cherokee	4144	-2018
Mississippian	4203	-2077
TD	4236	-2110

# **Geological Report**

American Warrior, Inc. Schniepp #3-31NE 530' FNL & 180' FEL Sec. 31 T18s R21w Ness County, Kansas



# **American Warrior, Inc.**

# **General Data**

Well Data:	American Warrior, Inc. Schniepp #3-31NE 530' FNL & 180'FEL Sec. 31 T18s R21w Ness County, Kansas API # 15-135-25222-0000
Drilling Contractor:	Petromark Drillling, LLc Rig # 1
Geologist:	Jason Alm
Spud Date:	March 7, 2011
Completion Date:	March 15, 2011
Elevation:	2120' Ground Level 2126' Kelly Bushing
Directions:	Bazine KS, <sup>1</sup> / <sub>2</sub> mi. East on Hwy 96, South into location.
Casing:	1379' 8 5/8" surface casing 4235' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Dustin Rash"
Problems:	None
Remarks:	DST #1 slid 4-6 ft. to bottom causing the tool to plug during the initial flow.

	American Warrior, Inc.		
	Schniepp #3-31NE		
	Sec. 31 T18s R21w		
Formation	530' FNL & 180' FEL		
Anhydrite	1365', +761		
Base	1400', +726		
Heebner	3595', -1469		
Lansing	3639', -1513		
BKc	3965', -1839		
Pawnee	4043', -1917		
Fort Scott	4127', -2001		
Cherokee	4144', -2018		
Mississippian	4203', -2077		
Osage	4228', -2102		
RTD	4236', -2110		

## **Formation Tops**

## **Sample Zone Descriptions**

Mississippian Osage (4215', -2090): Covered in DST #1

Dolo –  $\Delta$  – Fine sucrosic crystalline with poor to fair intercrystalline and vuggy porosity, heavy trip chert with fair to good vuggy porosity, light to good oil stain and saturation in porosity, show of free oil, fair yellow cut fluorescents, fair odor, 35 units hotwire.

# **Drill Stem Tests**

Trilobite Testing, Inc. "Dustin Rash"

DST #1	Mississippian Osage Interval (4228' – 4234') Anchor Length 6' IHP – 2154 #	
	IFP $-30$ " – W.S.B. (plugging action)	51-65 #
	ISI $-30$ " – Dead	1339 #
	FFP $-45$ " – Built to 8 in.	62-102 #
	FSI – 45" – Dead	1334 #
	FHP – 2082 #	
	BHT $-113^{\circ}F$	
	Recovery: 166' GMCWO 40% Oil, 10	)% Water

# **Structural Comparison**

	American Warrior, Inc.	American Warrior, Inc.		American Warrior, Inc.	
	Schniepp #3-31NE	Schniepp #2-31NE		Schniepp #1-31NE	
	Sec. 31 T18s R21w	Sec. 31 T18s R21w		Sec. 31 T18s R21w	
Formation	530' FNL & 180' FEL	720' FNL & 760' FEL		2150' FNL & 900' FEL	
Anhydrite	1365', +761	1369', +756	(+5)	1375', +756	(+5)
Base	1400', +726	1404', +721	(+5)	1409', +722	(+4)
Heebner	3595', -1469	3596', -1471	(+2)	3600', -1469	FL
Lansing	3639', -1513	3641', -1516	(+3)	3646', -1515	(+2)
BKc	3965', -1839	3962', -1837	(-2)	3968', -1837	(-2)
Pawnee	4043', -1917	4041', -1916	(-1)	4047', -1916	(-1)
Fort Scott	4127', -2001	4124', -1999	(-2)	4129', -1998	(-3)
Cherokee	4144', -2018	4140', -2015	(-3)	4144', -2013	(-5)
Mississippian	4203', -2077	4205', -2080	(+3)	4220', -2089	(+12)
Osage	4228', -2102	4215', -2090	(-12)	4233', -2102	FL
		-			

#### **Summary**

The location for the Schniepp #3-31NE was found via 3-D seismic survey. The new well ran structurally lower than 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 1/2 inch production casing to further evaluate the Schniepp #3-31NE well.

#### **Recommended Perforations**

Mississippian Osage: (4228' – 4234') DST #1

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

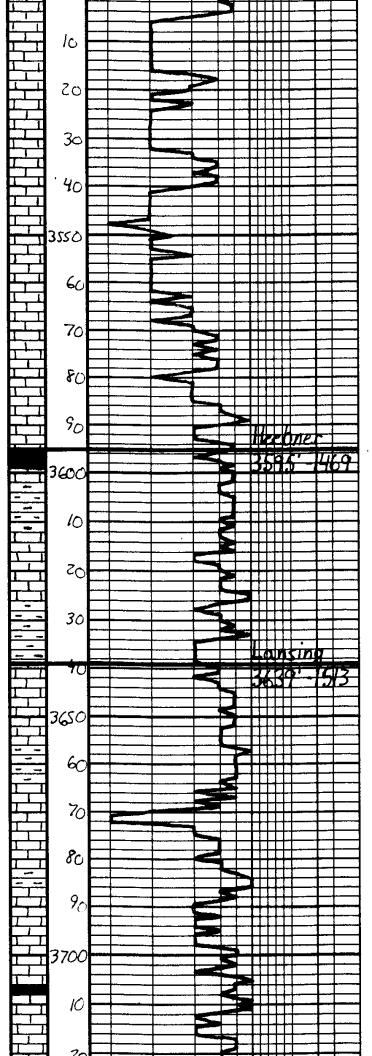
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Jason Alm Petroleum Geologist				╞		Γ
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Heepine C 3595'-1469 + 2 12.			-			
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- <u>7001 - 6</u> - <u>7018 - 3</u>						
4224-2102						
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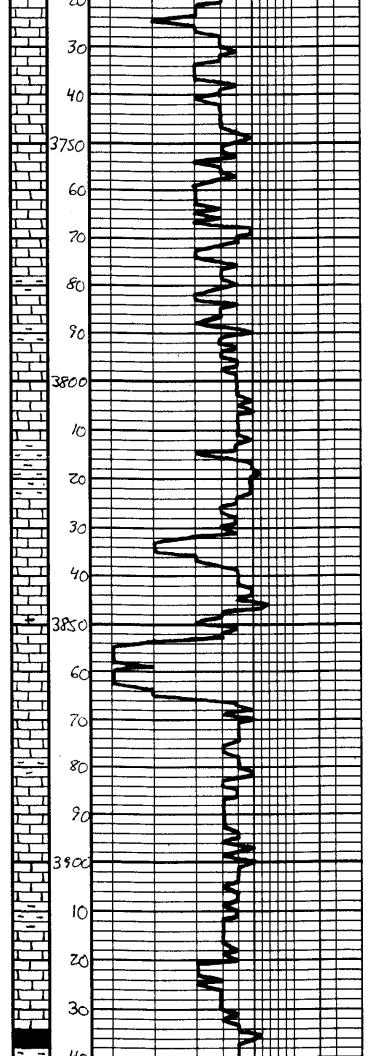
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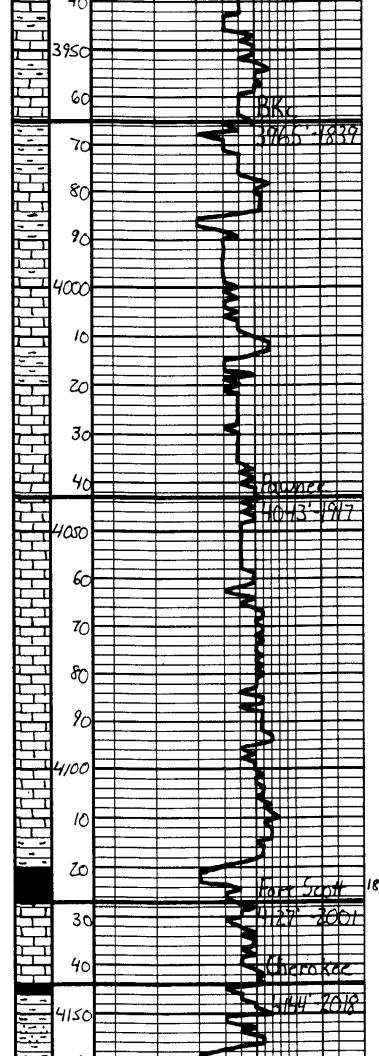
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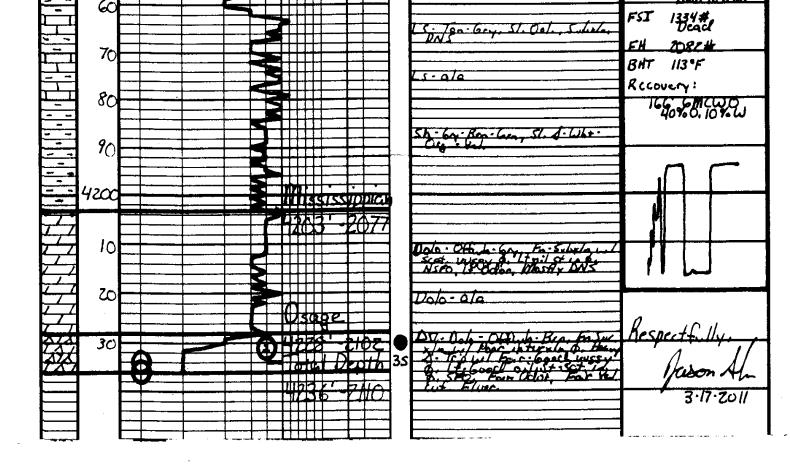
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$Ls \cdot alc$	Mississippion 4228'-4234' 30"-30"-45".45"
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$Ls \cdot alc$	Mississippian 4228'-4234' 30"-30"-45"45" IN 2155#
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	тіскет 20169						American Warking	CHARGE TO:		WIFT	15

SWIFT Services, Inc. DATIS MAR 11 PAGENO. **JOB LOG** JOB TYPE Carment long string TICKET NO. 20169 LEASE Schniepp CUSTOMER WELL NO. American Warrior 3-31 PRESSURE (PSI) PUMPS CHART RATE VOLUME TIME DESCRIPTION OF OPERATION AND MATERIALS NO. (BBL) (GAL) C TUBING CASING (BPM) 175 sts EA.2 w/ flocele + halas 322 52 15.5 Casing on loc TEK 114 1700 start 53° casing in well 1740 Drop bull circulate -1940 Rother 43 300 Pump 500 gal mudflush ZUIS Pump ZOBBI KCL plansh Plig RH 305kg 2020 434 Mix comment 145 sta EA-Z C 15.448 42 2025 300 wash out pump & lines Drop latch down plug 2078 Displace plug 634 2040 300 634 850 90 Plug dram 2100 1500 101 Rolouse pressure to truck - dried up upsh truck job complete 200 Kluks Blaing LANC & DAVE

بالم والمان والمراجع ومراجعة الأنتكر والله المعالم

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8 07	87.8		2041		D-AIR			0.62
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937 50	7 50		125 16		hold - 322		•••	292
	01/5		910 116		salt		<b>18</b> 00	283
240 00	30 00		_		Calseal		1	284
2100 000	09 21		175 sk	( For EX-2)	Standard Cenat			325
PAGE OF 2	DATE MAR 1	3-31	Schniepp	Watrior	CUSTOMER ALLO	Ness City, K5 6/560 Off: 785-798-2300	Vess City, F Off: 785-7	Secular
	TICKET No. 20/69			NUATION	TICKET CONTINUATION	(466	POBo	NIS NIS

DARKLOR     State     State     State     State     State       Indexes     Indexes     Indexes     Indexes     Indexes     Indexes     Indexes       Indexes     Indexes     Indexes     Indexes     Indexes     Indexes       Indexes     Indexes     Indexes     Indexes     Indexes     Indexes       Indexes     Indexes     Indexes     Indexes     Indexes     Indexes       Indexes     Indexes     Indexes     Indexes     Indexes     Indexes       Indexes     Indexes     Indexes     Indexes     Indexes     Indexes       Indexes     Indexes     Indexes	SWIFT OPERATOR		F GOODS	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,		582 11 1	11 185	330		276 1		575	PRICE SECONDARY REFERENCE ACCOUNTING LOC ACCT DF	INVOICE INSTRUCTIONS				, Inc.	ADDRESS HAY
NUE, IS, ORDER NO. NUE, I	The STATE BASE TO BE REAL AND A SHORE TO A SHORE T	8-2300					1 2040	SERVICE CHARGE CENTURY	SWIFTMULTIDENSTU	DAIR	FLOCELE	tump a HARGE	MILEAGE # 11()			MENT 10				KRICAN U
	the number of a start and a start in this total <b>Thank You!</b>	INVICE NO		SV SV DVN OC	AGREE DECIDED AGREE		123.92 mm 251)				1 1 2010	058	5	UM QTY. JUM		MELL LOCA	LOCATIDN	BAZINE, KS. 25 MAR 11	1	20605

JOB LO	)G				)	SWIFT	Servi	ces, Inc. 🔴	DATE 25 MAR 11 PASE NO.
CUSTOMER	can Wa	RRIDR	WELL NO.	· · · ·				31 NE CEMENT 8 1/8 AMULUS	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUN	PS C	PRESSUR		DESCRIPTION OF OPERATION A	
	1030							ON LOCATION	
· · · ·	ļ								
	1031				7		500	PRESSURE UP CASING SHUTS	<u>لَمَ</u>
	1037	3/2				500		TAKE INJECTION RATE	·
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	1042	33	59			500		MIX 1255x SMD @ 11.7	pp6.
. <u> </u>	.100						 		
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<del></del>	1130						1	WASH TRUCK	
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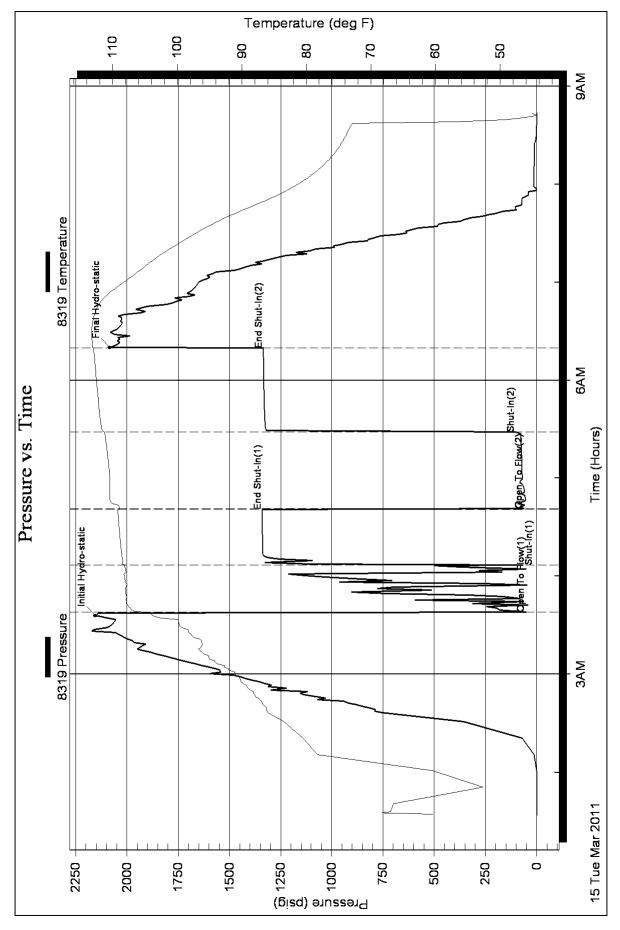
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	DRILL STEM TES	TREP	ORT				
	American Warrior, Inc.		Sch	niepp #	#3-31 N	E	
ESTING , INC	P.O.Box 399		31/1	8S/21W	V-Ness		
	Garden City,Ks 67846		Job T	icket: 42	776	DST	#:1
	ATTN: Jason Alm		Test	Start: 20	11.03.15	@ 01:33:4	0
GENERAL INFORMATION:							
Formation:MississippianDeviated:NoWhipstock:Time Tool Opened:03:37:40Time Test Ended:08:43:10	ft (KB)		Test <sup>-</sup> Teste Unit N	er: D	Conventio Dustin Ra 17	onal Bottom Ish	Hole
Interval:4228.00 ft (KB) To42Total Depth:4234.00 ft (KB) (The Diameter:7.88 inchesHole			Refer	ence Ele KB te	vations: o GR/CF:	2120.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8319OutsidePress@RunDepth:102.09 psigStart Date:2011.03.15Start Time:01:33:45TEST COMMENT:IF-Few bubbles.ISI-No Return.FF-Weak building	End Date: End Time:	2011.03.15 08:43:09	Capacity: Last Calib. Time On B Time Off B	tm: 2		8000. 2011.03. 15 @ 03:35: 15 @ 06:20:	40
FSI-No Return. Pressure vs. T				ESSUR			
100 100 100 100 100 100 100 100	Site Temperature	Time (Min.) 2 31 65 66 113 164 165	Pressure (psig) 2154.56 51.49 65.38 1339.21 62.91 102.09 1334.09 2082.85	Temp (deg F) 103.87 104.68 109.21 108.88 111.24 112.90 113.10	Open To Shut-In( End Shu Open To Shut-In( End Shu	vdro-static p Flow (1) (1) (1) (1) (1) (1) (1) (1) (1) (2)	
Recovery	Ţ		r		s Rates		Ţī
Length (ft)         Description           166.00         40%Oil/30%Mud/20%Ga	Volume (bbl) s/10%Water 1.23			Choke (ir	nches) Pre	essure (psig)	Gas Rate (Mct/d)
Trilobite Testing. Inc	Ref. No: 42776					.15 @ 11:31	

Test Start:       Schnlepp #3-31 NE         P.O.Box 399       31/18S/21W-Ness         Garden City,Ks 67846       Job Ticket: 42776       DST#:1         ATTN:       Jason Alm       Test Start: 2011.03.15 @ 01:33:40         ud and Cushion Information       Cushion Type:       Oil API:       deg API         ud Type:       Gel Chem       Cushion Length:       ft       Water Salinity:       ppm         ud Weight:       9.00 lb/gal       Cushion Length:       ft       Water Salinity:       ppm         scosity:       61.00 sec/qt       Cushion Volume:       bbl       bl       start Loss:       10.78 in <sup>3</sup> Gas Cushion Pressure:       psig         alinity:       8200.00 ppm       8200.00 ppm       Start Start       Start St		RILOBITE ESTING , INC	DRILL STEM TEST REPORT FLUID SUMMA						JMMAR
Garden City,Ks 67846     Job Ticket: 42776     DST#:1       ATTN:     Jason Alm     Test Start: 2011.03.15 @ 01:33:40       ud and Cushion Information     Ud and Cushion Information       ud Type:     Gel Chem     Cushion Type:     Oil API:     deg API       ud Weight:     9.00 lb/gal     Cushion Length:     ft     Water Salinity:     ppm       scosity:     61.00 sec/qt     Cushion Volume:     bbl     bbl       ater Loss:     10.78 in <sup>3</sup> Gas Cushion Pressure:     psig       ulinity:     s200.00 ppm     Ecovery Information     Ecovery Table       Ecovery Information       Length     Description       166.00     40%Oil/30%/Mud/20%Gas/10%Water     1.226       Total Length:     166.00 ft     Total Volume:     bbl       Num Fluid Samples: 0     Num Gas Bombs:     0     Serial #:       Laboratory Name:     Laboratory Location:     Serial #:			American Warrior,Inc.			Schniepp #3-31 NE			
Garden City,Ks 67846       Job Ticket: 42776       DST#:1         ATTN: Jason Alm       Test Start: 2011.03.15 @ 01:33:40         ud and Cushion Information       Job Ticket: 42776       DST#:1         ud Type:       Gel Chem       Cushion Type:       Oil API:       deg API         ud Veight:       9.00 lb/gal       Cushion Length:       ft       Water Salinity:       ppm         scosity:       61.00 sec/qt       Cushion Volume:       bbl       bbl       deg API         ater Loss:       10.78 in <sup>3</sup> Gas Cushion Volume:       bbl       deg API         sistivity:       ohm.m       Gas Cushion Type:       sistivity:       ppm       sistivity:       ppm         sistivity:       s200.00 ppm       ter Cake:       inches       psig       deg API         ecovery Information       Gas Cushion Pressure:       psig       psig       deg API         ter Cake:       inches       psig       deg API       ppm       deg API         ecovery Information       Gas Cushion Pressure:       psig       psig       deg API         ter Cake:       inches       ft       Description       volume       bbl         166.00       40%Oil/30%Mud/20%Gas/10%Water       1.226       ft					31/18S/21	W-Ness			
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31/18S/21W-Ness



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