

# Kansas Corporation Commission Oil & Gas Conservation Division

1081963

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 #:	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	d		Type and F	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 2-SW2
Doc ID	1081963

# Tops

Name	Тор	Datum
Anhydrite	1379	797
Chase	2253	-77
Heebner	3620	-1444
Lansing	3665	-1489
Base Kansas City	3984	-1808
Pawnee	4076	-1900
Ft. Scott	4134	-1958
Cherokee	4148	-1972
Mississippian	4224	-2048
TD	4234	-2058

NG CO., LLC. 034533 SERVICE POINT: REMIT TO P.O. BOX 31 anda **Arb**a (1. 4 Ussell Ko, RUSSELL, KANSAS 67665 A. M. Selficotia. ON LOCATION TUO GLAMA SEKY CRSEE WELL WAR annel KS. 3W LOCATION OLD OR NEW Circle one) B 1/2 E +N INTO CONTRACTOR PETROMACK RIG OWNER TYPE OF JOB COMENT SUAFOR CEMENT AMOUNT ORDERED 150 SX CASINGSIZE 85/F DEPTH TURINGSIZE 23#CSG. DEPTH 2. In Gel DEPTH DEPTH TOOL ... COMMON) STORY OF THE COMMON AND ADDRESS OF THE COMMON ADDRESS OF THE COMMON AND ADDRESS OF THE COMMON ADDRESS PRES. MAX MINIMUM trige to a backing the man On An Dochra MEAS. LINE GEL SAME SX 60 CEMENT LEFT IN CSG. CHLORIDE 5 SX **EQUIPMENT** PUMPTRUCK CEMENTER GLENN HELPER WOODY **BULK TRUCK** @ 398 DRIVER COOV **@ BULK TRUCK** HANDLING \* MILEAGE 53 Tow Mile **REMARKS:** TH 5 JTS OF NEW 23# 898 CSG, Et @ 228 Kecker Circulation Coment W/150 Sx Comm 3+2, Please Wifel Ply, 7 Disphere 13 [1864] Har Shit N app 可能に合う to this is a catest SERVICE : **DEPTH OF JOB** PUMPTRUCK CHARGE EXTRA FOOTAGE ement D.D. MILEAGE 53 HV m @ @ MANIFOLD \_\_ CHARGETO: AMERICAN WORRIOR INC. CITY PLUG & FLOAT EQUIPMENT 25/8 WOODEN WIPER AUG 65. V NOW YOU AND SHOWN TWING TO A To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL. SALES TAX (If Any) TERMS AND CONDITIONS" listed on the reverse side TOTAL CHARGES PRINTED NAME IF PAID IN 30 DAYS DISCOUNT SIGNATURE

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ADDRESS AMERICAN WARRIOR

TICKET

Nº 21538

Services, Inc.		CITY, STATE, ZIP CODE				PAGE OF Q
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2.	TICKET TYPE CONTRACTOR		RIG NAME/NO.	SHIPPED	SHIPPED DELIVERED TO	ORDER NO.
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REFERRAL LOCATION	INVOICE INSTRUCTIONS					

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3/3					37 AND	MET YOUR NEEDS?		TY, and		but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	but are not limited
1541 50	PAGE IOIAL				PERFORMED XXWN?	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	KEMI TAYMEN I C:	include,	fwhich	the terms and conditions on the reverse side hereof which include,	the terms and con
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SWIFT OPERATOR

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

CUSTOMER DID NOT WISH TO RESPOND

Thank You!

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# TICKET CONTINUATION

TICKET No. 2/538

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SWIFT Services, Inc.

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DATE   TON 12 PAGE NO
117410100

THE   SATE   SOURCE   PUMPS   PUMPS	CUSTOMER	ALULAS	RRIOR	WELL NO.				SW2 JOB TYPE 52 LONGSTRING TICKET NO. 21538
1945   START PIRE 5 2-15.5	CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)		PRESSUR	tE (PSI)	
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RIDE 4234 SET E 4233  SHOC JOINT 42,16  (RISEBURIS 1234, 42, 44, 45, 46, 47, 45  BASKES, 3, 43, 69  PORT (DULARTO) OF JT 6 43 E 242  2217  DROP BAMP 500 SAL CIRCULATE  2238 6 20 400 Plump 500 SAL MUD FLISH  2238 6 20 400 Plump 20 BW KCL DLUSH  2244 7 PLUC RH (305x)  2246 4 35 MIX 1455x FA2  2259 6 NASHOUT Pump 106 LIMES  2315 100 V 1500 Plub Down PSI up LATCH PLUC TA)  2317 RELEASE PSI DRY  2320  UNASH TRUCK  2350  JOTS COMPLETE	<del></del>					·	<u> </u>	
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2315 100 V 1500 PLUG DOWN PSI UP LATCH PLUG IN.  2317 PRIEBSE PSI DRY  2320 UJASH TRUCK  2350 JOTS COMPLETE  THANKS #110								
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THANKS #110								
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SWIFT OPERATOR

ER ACCEPTANCE OF MATERIALS AND SERVICES

Thank You!

SWIFT Services, Inc. DATE Jan 12 PAGINO **JOB LOG** comunit port coller CUSTAMER HARTICAN WATIOR LEASE WELL NO. PRESSURE (PSI) PUMPS VOLUME TIME **DESCRIPTION OF OPERATION AND MATERIALS** C 225 Sund w/4/ Flowle 50st SMD w/ gas stop 1801 Colle 2421' 28x52 on loc TRK 114 lest to 1000 ps: - held 0845 1000 1000 open port collar 0905 purping but no blow-550 7 call firds ! ling mud 0940 20 Daid to surkers Dup 80 66 Mud 90 SMD CMT @11,2 PBg 44 600 coment to surface ZIOSE SMD 1045 swith to SMD wygos stop 505/5 30sks topit close port coller

tost to loso psi - hold

Run 4 joints

Reverse oct 1000 1000 70 z coment / Cogs wash truck RACK up 1145 job complete

DAIN Dag Blaine

# **Geological Report**

American Warrior, Inc.

Ryersee #2-SW2

1475' FSL & 400' FWL

Sec. 2 T19s R21w

Ness County, Kansas



American Warrior, Inc.

### **General Data**

Well Data:	American Warrior, Inc
Well Butu.	rimerican wanter, me

Ryersee #2-SW2

1475' FSL & 400' FWL Sec. 2 T19s R21w Ness County, Kansas API # 15-135-25254-0000

Drilling Contractor: Petromark Drilling, LLc. Rig #1

Geologist: Jason Alm

Spud Date: January 5,2012

Completion Date: January 11, 2012

Elevation: 2170' Ground Level

2176' Kelly Bushing

Directions: Bazine KS, East on Hwy 96 to HH Rd. South 2 mi.

East into location.

Casing: 223' 8 5/8" surface casing

4233' 5 1/2" production casing

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

Drilling Time: 3500' to RTD

Electric Logs: Log-Tech, Inc. "Daylan Kerr"

CNL/CDL, DIL

Drillstem Tests: One, Trilobite Testing, Inc. "Cody Bloedorn"

Problems: None

Remarks: No Gas Kick was found over the top of the

Cherokee "A" Sand, although there was a small increase in background gas while the zone was

being recorded.

# **Formation Tops**

	American Warrior, Inc.
	Ryersee #2-SW2
	Sec. 2 T19s R21w
Formation	1475' FSL & 400' FWL
Anhydrite	1379', +797
Base	1410', +766
Chase	2253', -77
Heebner	3620', -1444
Lansing	3665', -1489
BKc	3984', -1808
Pawnee	4076', -1900
Fort Scott	4134', -1958
Cherokee	4148', -1972
Mississippian	4224', -2048
LTD	4234', -2058
RTD	4234', -2058

# **Sample Zone Descriptions**

# Cherokee "A" Sand (4148', -1972): Not Tested

Ss – Quartz, slightly frosted, fine to coarse grained, poorly sorted, fair to poorly cemented, fairly well rounded with good intergranular porosity, very light scattered oil stain in cluster, no show of free oil, no odor, mostly random grains, 0-6 units hotwire.

# Mississippian Osage (4224', -2048): Covered in DST #1

Dolo –  $\Delta$  – Fine sucrosic crystalline with poor vuggy porosity, heavy weathered triptolitic chert with good vuggy porosity, light to fair scattered oil stain in porosity, good show of free oil, good odor, fair yellow fluorescents, 90 units hotwire.

# **Drill Stem Tests**

Trilobite Testing, Inc. "Cody Bloedorn"

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

Interval (4227' – 4234') Anchor Length 7'

IHP - 2101 #

IFP - 45" - Built to 5 in. 50-83 #
ISI - 45" - W.S.B. 1113 #
FFP - 45" - Built to 5 in. 87-113 #
FSI - 45" - W.S.B. 1093 #

 $\begin{array}{ll} FHP & -2045 \ \# \\ BHT & -115 ^{\circ} F \end{array}$ 

Recovery: 62' GIP

20' GCO

62' GSOCWM 5% Oil, 10% Water

124' MW w/ oil scum

# **Structural Comparison**

	American Warrior, Inc.	Thunderbird Drilling		American Warrior, Inc.				
	Ryersee #2-SW2	#1 Ryersee "L"		Eddy #3				
	Sec. 2 T19s R21w	Sec. 2 T19s R21w		Sec. 3 T19s R21w				
Formation	1475' FSL & 400' FWL	C NW SW		1150' FSL & 350' FEL				
Anhydrite	1379', +797	1365', +798	<b>(-1)</b>	1397', +798	<b>(-1)</b>			
Base	1410', +766	1396', +767	<b>(-1)</b>	1431', +764	(+2)			
Chase	2253', -77	NA	NA	NA	NA			
Heebner	3620', -1444	3608', -1445	(+1)	3640', -1445	(+1)			
Lansing	3665', -1489	3654', -1491	(+2)	3688', -1493	(+4)			
BKc	3984', -1808	NA	NA	4001', -1806	(-2)			
Pawnee	4076', -1900	4064', -1901	(+1)	4092', -1897	(-3)			
Fort Scott	4134', -1958	4124', -1961	(+3)	4154', -1959	(+1)			
Cherokee	4148', -1972	4138', -1975	(+3)	4171', -1976	(+4)			
Osage	4224', -2048	4211', -2048	FL	4240', -2045	(-3)			

# **Summary**

The location for the Ryersee #2-SW2 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. A drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5½ inch production casing to further evaluate the Ryersee #2-SW2 well.

# **Recommended Perforations**

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Mississippian Osage	<b>(4224' – 4230')</b>	<b>DST #1</b>
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**Secondary:** 

Cherokee Sand (4148' – 4152') Not Tested

**Before Abandonment:** 

Winfield	(2305' – 2310')	<b>Not Tested</b>
Krider	(2253' – 2260')	<b>Not Tested</b>

Respectfully Submitted,

Jason T. Alm Hard Rock Consulting, Inc.

Hard Rock Consulting, Inc.  Jason Alm Petroleum Geologist  P.O. Box 1260  Hays, KS 67601  APT # 15-/35-25254-0000  GEOLOGIST'S REPORT	DISE SEPH NO SEE MOSE THE DEPIN CAY PASS MOSES	DRILL STEM TESTS  No. Interval 899/Time 9379/Time FERP/Time 844-FER (855)6937	REMARKS On location	Op.m. 1-9.2012												Shipped 5-4005					ST#1 hississippien 1227 - 4234' 1527 - 4234' 1527 - 4234' 50-83# 80-11# 5in.	1053# 1053# 2045# 115°F 115°F 10° 60 22° CSOCWM 24' MW W/0:18ccm	ect & My, faxon T. Al. 1.12012
OPERATOR American Warrior, Inc.  LEASE Ryersee WELL NO. 2. SW2  FIELD Ryersee  LOCATION 1-175' FSL: 400' FWL  SEC. 2 TWP. 19s RGE 21w  COUNTY Ness STATE Kansas  CONTRACTOR Petromark Drilling, LLc. Rig #1  COMM: 1-5.2012 COMP: 1.11-2012  RTD 4234' LOG TD 4234'  SAMPLES SAVED FROM 3500' TO RTD  ELEVATION  KB 2176'  Measurements Are All From Kelly Bushing  CASING RECORD  SURFACE 85/8" @ 223'  PRODUCTION 51/2" C 47233'	FOURSTIESS INTERIOR DE SECURI DE SECURI DE SECURI DE SE		SAMPLE DESCRIPTIONS	Sh. Dole Gry L'Fino Hear. HESTY, FUZIKY	Ls. ala	LS- Ala LS- Ten; Engley, A-Tilling Sh- BIK, Carb. Fissile	Sh- Gey. Ben- Gen  [Se. Tan- Gen, Fr xh yol Bose- LSe. Tan- Gen, Fr xh yol Bose- Sh- Gry. Ben- Gen  [LS- Ton-Lt. Geny, Fr. 2 high Ool.	15- ala, DNS  5h. Gry- Brn  15- Ton-Lt. Gry Fright Oul. Baren  5h. Gry	LSO Offerhilds Godin of Litht. Sh. Ook Gry. Blk	Lsmostly on's bry, Fx x/n, col.	LS: Top- Lt. bry of Madren Col.	Sh- Gry-18rn LSMOSHY WSY. Storles, Sl. Osl. Sh- Gry-18rn	LS- Jan- Lt. Gry, Subaln, DWS  Sh- Gry- Bra  LS- OPENG- Lt Gry, Fn. Subalno	Sh-64 Sh-64 LS-Ton-64, Subkla, DNS	Sh- Dikbuy- Blk, Cerb. LS- Ton- Gry, Subxla, DWS  LS- Ton- Gry, Subxla	Ls-ale Sh. Gny. Bln. Gen (Jock 4002	Ls-ala Sh- Goy- Gen-Bin	Ls- 70n- Ls. Gry, Subxln, ONS Ls- ala Sh- Gry- Gen	LS. 4. 6ry, Subxlu, DWS Ls- ala	15- ala Sh-Blk, Lark.	She byy Ben - De Gry Many  She byy Ben - De Gry Many  She byy Ben - ben Sect. DNS  St. Cope Ben - ben Sect. DNS  St. Cope Ben - ben Sect. DNS  St. Cope (10-51. Franted. Fredom ITH  St. Chy (10-51. Franted. Fredom ITH  She by (10-13). Franted. Market ITH  She by (10-13). Con, Random Ote FF	SS. Ofte. Well Fr. Med G. Well FH Sortell, Gell Fr. Med G. Well FH Sortell, Well Fr. Med G. Well BHT Mostly Berren, Nsfe, Noch.  Shi Mr. Hicologed, Heavy A. Noch.  Shi M. Hicologed, Heavy A. Noch.  Shi M. G. Joseph, Sp. D. J. Jung.	Fe. F. Fluor.
DRILLING TIME KEPT FROM 3500' TO RTD  SAMPLES EXAMINED FROM 3500' TO RTD  GEOLOGICAL SUPERVISION FROM 3700' TO RTD  MUD UP 3400'  TYPE MUD Chemical  Log Tech  CNL/COL, DTL  Anhydrite 1379' +797 1384' +792 -1  Base 1410' +766 1415' +761 -1  Chase 2253' -77  Heebner 3620' - 1444 3621' -1445 +1  Lansing 3665' - 1489 3664' - 1488 +2  BKC 3984' - 1808 3985' - 1809  Pawnee 4076' - 1900 4075' - 1899 +1  Fort Scott 4134' - 1958 4137' - 1961 +3  Charokee 4148' - 1972 4154' - 1978 +3  Mississippign 4224' - 2048 4226' - 2050 FL		The location for the Ryersce # Z-SWZ was found via 3-D seismic survey. The new well ran structurally similar to expectations via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered date had been examined the clacision was made to run 51/z inch production casing to further evaluate the Ryersce # Z-SWZ	Anhydrite Sait Sandstone Shale Carb  DRILLING TIME Logarithmic Scale)			Hechner 3621"- 1445	Lansing 3664'-1488							W V V V V		3485-1809		A V V V	- 1846 2000	For+ 5co# 20	Cherokec   18   4154' -1978   6	Mississippian  4726' -2056  Total Depth 90	8502-j.H.23H.
REFERENCE WELL FOR STRUCTURAL COMPARISON Thunderbird Drilling, Inc. #1 Ryersee "L" CNWSW Sec. Z TIGS RZIW		Respectfully Submitted,  Javon T Al- 1-11-2012	ревлн глиогоск			3600 %	2 2 2 2 2 2	2 % % S	Q 2 2 2 			0588 04 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	3 2 2 8 H-H-H-H-H-H-	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	97	0000	2 2 8 2	7-1-1-050		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	60 60 70 70		



Prepared For: American Warrior Inc

PO Box 399

Garden City, KS 67846

ATTN: Jason Alm

# Ryersee #2-SW2

# 2-19s-21w Ness,KS

Start Date: 2012.01.10 @ 22:32:00 End Date: 2012.01.11 @ 06:53:39 Job Ticket #: 46342 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



American Warrior Inc

2-19s-21w Ness, KS

Ryersee #2-SW2

PO Box 399

Garden City, KS 67846

Job Ticket: 46342 DST#: 1

ATTN: Jason Alm

Test Start: 2012.01.10 @ 22:32:00

### **GENERAL INFORMATION:**

Formation: Miss

Interval:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:01:20 Time Test Ended: 06:53:39

4227.00 ft (KB) To 4234.00 ft (KB) (TVD)

Total Depth: 4227.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial)

Cody Bloedorn

Reference Bevations:

2176.00 ft (KB)

KB to GR/CF:

39

2170.00 ft (CF) 6.00 ft

Serial #: 8352 Inside

Press@RunDepth: 4231.00 ft (KB) 113.38 psig @

Start Date: 2012.01.10 Start Time: 22:32:05

End Date: End Time:

2012.01.11 06:53:40

Capacity: Last Calib.:

Tester:

Unit No:

8000.00 psig 2012.01.11

Time On Btm:

2012.01.11 @ 01:01:10

Time Off Btm:

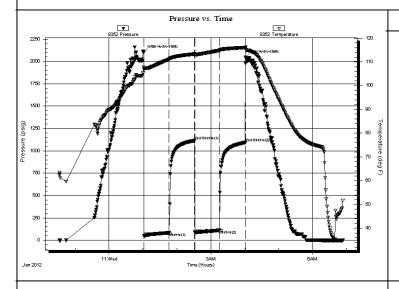
2012.01.11 @ 04:01:20

TEST COMMENT: 45 - IF- 5" blow

45 - ISI- Surface blow throughout

45 - FF- 5 " blow

45 - FSI- Surface blow throughout.



### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2101.52	107.72	Initial Hydro-static
1	50.69	106.74	Open To Flow (1)
45	83.83	111.05	Shut-In(1)
90	1113.90	113.27	End Shut-In(1)
91	87.28	112.92	Open To Flow (2)
134	113.38	114.80	Shut-In(2)
180	1093.04	115.96	End Shut-In(2)
181	2045.47	115.80	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW, Oil scum, 20%M, 80%W	0.61
62.00	GVSOCWM	0.87
20.00	GO, 5%G, 95%O	0.28
0.00	62' of G.I.P.	0.00

### Gas Rates

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

Trilobite Testing, Inc Ref. No: 46342 Printed: 2012.01.12 @ 10:37:09



American Warrior Inc 2-19s-21w Ness, KS

PO Box 399

Garden City, KS 67846 Job Ticket: 46342 **DST#:1** 

Ryersee #2-SW2

ATTN: Jason Alm Test Start: 2012.01.10 @ 22:32:00

### GENERAL INFORMATION:

Formation: Miss

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

Time Tool Opened: 01:01:20 Tester: Cody Bloedorn
Time Test Ended: 06:53:39 Unit No: 39

Interval: 4227.00 ft (KB) To 4234.00 ft (KB) (TVD) Reference Elevations: 2176.00 ft (KB)

Total Depth: 4227.00 ft (KB) (TVD) 2170.00 ft (CF)

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

Serial #: 8017 Inside

 Press@RunDepth:
 psig
 @ 4231.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2012.01.10 End Date: 2012.01.11 Last Calib.: 2012.01.11

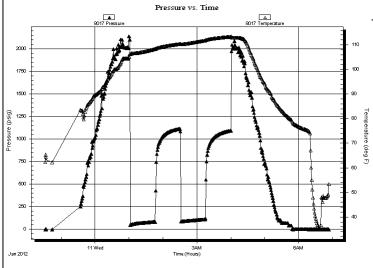
Start Time: 22:32:05 End Time: 06:53:40 Time On Btm: Time Off Btm:

TEST COMMENT: 45 - IF- 5" blow

45 - ISI- Surface blow throughout

45 - FF- 5 " blow

45 - FSI- Surface blow throughout.



PRESSURE S	UMMARY
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Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
_e				
mpera				
Temperature (deg F)				
deg F				
_				

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW, Oil scum, 20%M, 80%W	0.61
62.00	GVSOCWM	0.87
20.00	GO, 5%G, 95%O	0.28
0.00	62' of G.I.P.	0.00

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc Ref. No: 46342 Printed: 2012.01.12 @ 10:37:09



**TOOL DIAGRAM** 

American Warrior Inc

2-19s-21w Ness, KS

PO Box 399

Ryersee #2-SW2

Garden City, KS 67846

Job Ticket: 46342 **DST#:1** 

ATTN: Jason Alm Test Start: 2012.01.10 @ 22:32:00

Tool Information

Drill Pipe: Length: 4097.00 ft Diameter: 3.80 inches Volume: 57.47 bbl Tool Weight: 2500.00 lb 0.00 inches Volume: 0.00 bbl Heavy Wt. Pipe: Length: 0.00 ft Diameter: Weight set on Packer: 25000.00 lb Drill Collar: Length: 124.00 ft Diameter: 2.25 inches Volume: 0.61 bbl Weight to Pull Loose: 62000.00 lb Total Volume: 58.08 bbl Tool Chased 0.00 ft

Drill Pipe Above KB: 23.00 ft

Depth to Top Packer: 4227.00 ft

Depth to Bottom Packer: ft

String Weight: Initial 57000.00 lb Final 58000.00 lb

Interval between Packers: 7.00 ft
Tool Length: 36.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4199.00		
Shut In Tool	5.00			4204.00		
Hydraulic tool	5.00			4209.00		
Jars	5.00			4214.00		
Safety Joint	3.00			4217.00		
Packer	5.00			4222.00	29.00	Bottom Of Top Packer
Packer	5.00			4227.00		
Stubb	1.00			4228.00		
Perforations	3.00			4231.00		
Recorder	0.00	8352	Inside	4231.00		
Recorder	0.00	8017	Inside	4231.00		
Bullnose	3.00			4234.00	7.00	Bottom Packers & Anchor

Total Tool Length: 36.00

Trilobite Testing, Inc Ref. No: 46342 Printed: 2012.01.12 @ 10:37:10



**FLUID SUMMARY** 

DST#: 1

American Warrior Inc 2-19s-21w Ness, KS

PO Box 399

Ryersee #2-SW2 Garden City, KS 67846 Job Ticket: 46342

Test Start: 2012.01.10 @ 22:32:00 ATTN: Jason Alm

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: 35 deg API

Mud Weight: Cushion Length: 9.00 lb/gal ft Water Salinity: 50000 ppm

Viscosity: 47.00 sec/qt Cushion Volume: bbl

Water Loss: 6.39 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

Salinity: 5300.00 ppm Filter Cake: inches

# **Recovery Information**

### Recovery Table

Length ft	Description	Volume bbl
124.00	MW, Oil scum, 20%M, 80%W	0.610
62.00	GVSOCWM	0.870
20.00	GO, 5%G, 95%O	0.281
0.00	62' of G.I.P.	0.000

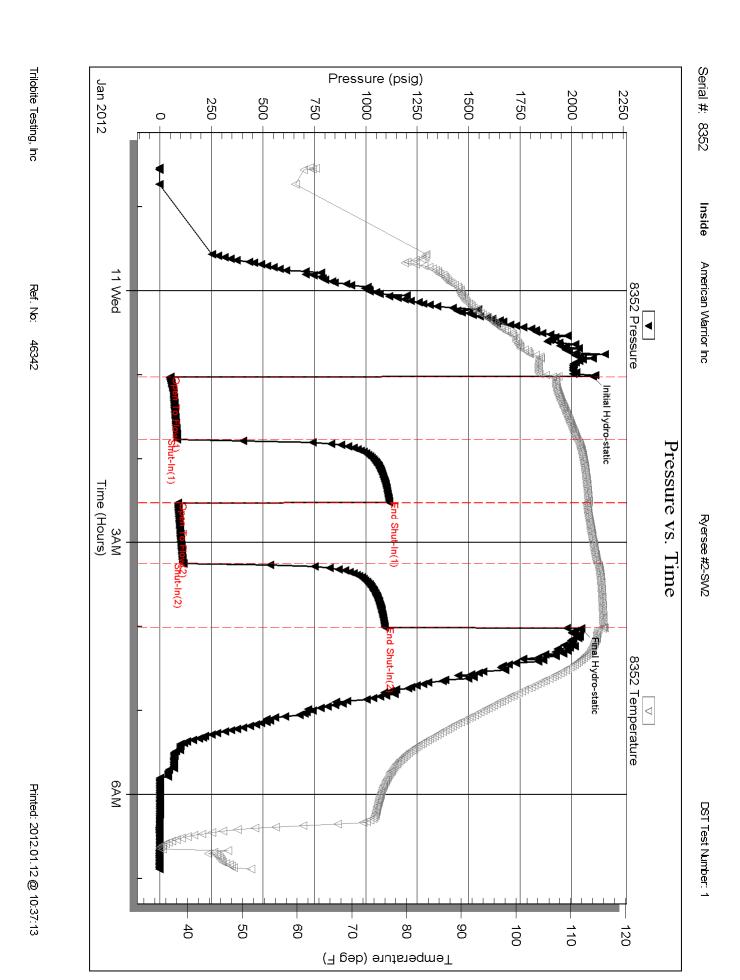
Total Length: 206.00 ft Total Volume: 1.761 bbl

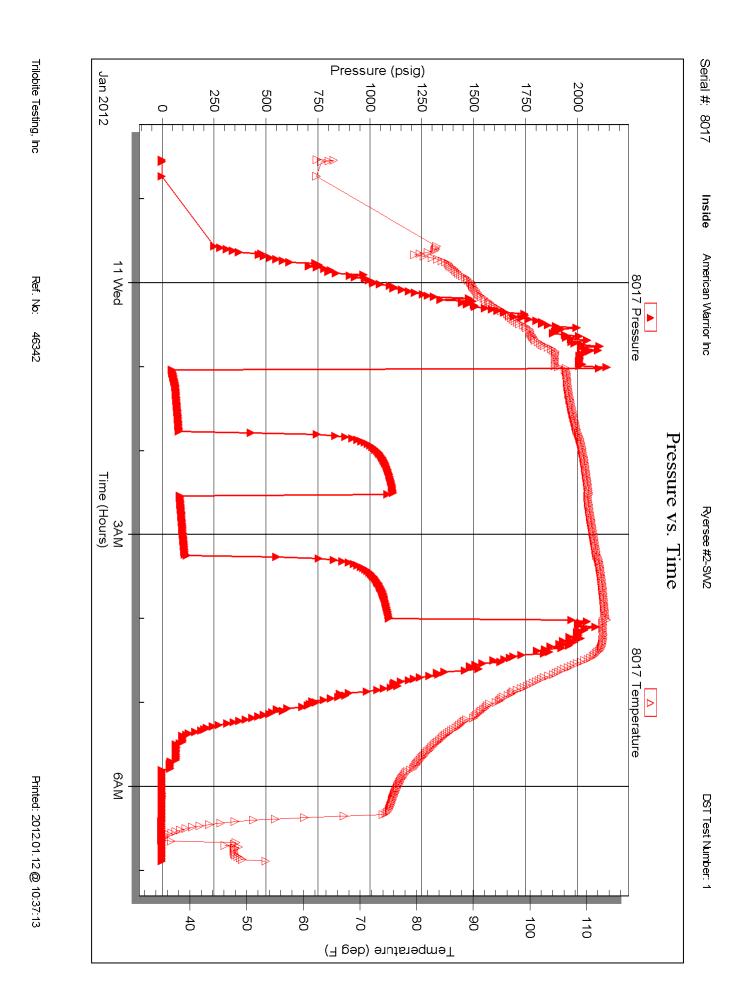
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Ref. No: 46342 Printed: 2012.01.12 @ 10:37:12 Trilobite Testing, Inc







BECEIVED

# **Test Ticket**

NO.

46342

IRILOBITE						П	
ESTING INC.		JAN	1	0	2012		
P.O. Box 1733 • Havs, Kansas 6	67	601					

^				29410 5-2	
Well Name & No. Ryersec #2-Sw,	2	_ Test No	(		-12
Company American Warrior I	Inc.			кв_ 217	<u>′ ( )</u> GL
Address 3/18 Cum mings RD, Go	arden Cuty Ks	5, 6784	16		
Co. Rep/Geo. Dason Alm			romark		
Location: Sec. 2 Twp. 195	Rge. 2/ W	co. Nes	55	State	ks_
Interval Tested 4227 - 4234	Zone Tested _ M	iss.	- 1		
Anchor Length	Drill Pipe Run	4097	7'	Mud Wt <del>S</del>	9
Top Packer Depth 4222	Drill Collars Run	124		Vis	17
Bottom Packer Depth 4227	Wt. Pipe Run			WL	4
Total Depth 4234	Chlorides530	рр	m System	LCM	•
Blow Description IF- 5" blow		4			
ISI - Surtace ble	ow through	out			
FF- 5" blow		0			
FSI- Surface by		ait.		an	
Rec 124 Feet of MW-01) 5	scum '	%gas	%oil	% water	20%mud
Rec 62 Feet of 6 V SOCWM		5 %gas	5 %oil	/()%water	SO %mud
Rec 20 Feet of GO	- 0	S %gas	95 %oil	%water	%mud
Rec Feet of 62' of 6	· I / F.	%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
	Gravity 35 AP	_		and the second	
(A) Initial Hydrostatic 216	X Test 1225	,		cation 9550	
(B) First Initial Flow	M Jars 250	1	T-Starte	11161	x pm
(C) First Final Flow	Safety Joint 75		T-Open_		am
(D) Initial Shut-In	Circ Sub		T-Pulled	6:54	
(E) Second Initial Flow	☐ Hourly Standby		T-Out _ Comme		NIVE
(F) Second Final Flow	Mileage 52X	21048	145.6		
(G) Final Shut-In	☐ Sampler	***			
(H) Final Hydrostatic 2045	☐ Straddle		— □ Ruir	ned Shale Packer_	
	☐ Shale Packer			ned Packer	
Initial Open 45	☐ Extra Packer			a Copies	
Initial Shut-In	☐ Extra Recorder			al Ø	
Final Flow 45	☐ Day Standby			1695.60	>
Final Shut-In	☐ Accessibility	(F		T Disc't	
		5.60	o 1 .	11.	
Approved By	Our Re	epresentative_	cody B	hell_	

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.