

# KANSAS CORPORATION COMMISSION OIL & GAS-CONSERVATION DIVISION

ORIGINAL June 2009
Form Must Be Typed
Form must be Signed

# **WELL COMPLETION FORM**

WELL HISTORY - DESCRIPTION OF WELL & LEASE 1/7/13							
OPERATOR: License # 4058 KCC	API No. 15 - 109-20, 962-000						
Name:American Warrior, Inc	Spot Description: SW-NW-SE-SE						
Address 1 PO Box 399	SW NW SE SE Son 17 Tun 14 S B 32 Frank North						
Address 2: CONFIDENTIAL	743 Feet from North / ✓ South Line of Section						
City: Garden City State: KS Zip: 67846 +	1,111 Feet from 🗹 East / 🗌 West Line of Section						
Contact Person: Kevin Wiles, Sr	Footages Calculated from Nearest Outside Section Corner:						
Phone: ( 620 ) 275-2963 RECEIVED	□NE ☑NW □SE □SW						
CONTRACTOR: License # 33935 IAN 0 7 2011	County: Logan						
Name: H D Drilling LLC	Lease Name: Foster Well #: 1-17						
Wellsite Geologist: Kim B Shoemaker KCC WICHITA	Field Name: Wildcat						
Purchaser: N/A	Producing Formation: N/A						
Designate Type of Completion:	Elevation: Ground: 2787' Kelly Bushing: 2797'						
✓ New Well ☐ Re-Entry ☐ Workover	Total Depth: 4530' Plug Back Total Depth:						
☐ Oil ☐ WSW ☐ SWD ☐ SIOW	Amount of Surface Pipe Set and Cemented at:						
☐ 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 Management Plan						
Well Name:	(Data must be collected from the Reserve Pit)						
Original Comp. Date: Original Total Depth:	Chloride content: 19,100 ppm Fluid volume: 87 bbls						
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Dewatering method used: _EVAPORATION						
Conv. to GSW							
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:						
Commingled Permit #:	Operator Name:						
□ Dual Completion     Permit #:	Lease Name: License #:						
ENHR Permit#:	Quarter Sec TwpS. R						
GSW Permit #:	County: Permit #:						
11/26/10 12/7/10 12/7/10							
Spud Date or Date Reached TD Completion Date or Recompletion Date							
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.							
AFFIDAVIT	KCC Office Use ONLY						
I am the affiant and I hereby certify that all requirements of the statutes, rules and requirements of the statutes of the statutes of the rules of the statutes of the rules of the	The state of Confidentiality Descripted						
and the statements herein are complete and correct to the best of my knowledge.	̄ 。 、 いっしぃ : いっんつ 。						
1100	Confidential Release Date:						
Signature:	₩ireline Log Received Geologist Report Received						
Title: Geologist Date: 1/6/11	UIC Distribution  ALT   VII   III   Approved by // Date: 1-34-1						
	real real real real real real real real						

Side Two

KCC JAN 07 2011

Operator Name: American Warrior, Inc Lease Name: F			Foster Well #: 1-1			17 JAN			
Sec. 17 Twp.14						··· <u></u>		CO	NFIDEN
INSTRUCTIONS: Sho time tool open and clos recovery, and flow rates line Logs surveyed. At	sed, flowing and shut- s if gas to surface tes	in pressures, wheth t, along with final cl	ner shut-in pres	sure rea	ched static level,	hydrostatic pres	sures, bottom i	nole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional SI	hostol	✓ Yes N	0	<b></b> ✓L	og Formation	n (Top), Depth ar	nd Datum		Sample
Samples Sent to Geological Survey				Nam	e		Тор	ı	Datum
•	igical Survey			Stone	Corral		2239'	+5	558
Cores Taken Electric Log Run		☐ Yes ☑ No		Base :	Stone Corral		2260'	+5	533
Electric Log Submitted	Electronically	Yes N		Heebr	ner		6748'	-9	51
(If no, Submit Copy)	•			Lansir	ng		3787'	-9	90
List All E. Logs Run:				Stark			4031'	-1	234
DIL, MIL, DC/P	I BHCI			Cherc	kee		4326'	-1	529
DIE, WILL, DON	L, DITOL			Missis			4450'	-1	653
			NIO DECODO					·	
			SING RECORD	vrface inte	ew Used ermediate, producti	on etc			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Wei Lbs.	ght	Setting Depth	Type of Cement	# Sacks Used		and Percent additives
Surface	12-1/4"	8-5/8"	23#		223'	Common	165	3%cc 2	2%gel
						A distance of the second secon			
		ADDITIO	DNAL CEMENTI	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks	Used		Type and I	Percent Additives	•	
—— Plug Off Zone									
Shots Per Foot	PERFORATIO Specify Fo	ON RECORD - Bridge cotage of Each Interva	Plugs Set/Type al Perforated			cture, Shot, Cemen mount and Kind of M		d	Depth
:							RE	CEIVE	ח
3								072	
							KCC	WICH	ITA
TUBING RECORD:	Size:	Set At:	Packer A	t:	Liner Run:	Yes No	)		
Date of First, Resumed F	Production, SWD or ENF	HR. Producing		ıg 🔲	Gas Lift C	ther (Explain)			
Estimated Production Per 24 Hours	Oil B	Bbls. Gas	Mcf	Wat	er B	bis.	Gas-Oil Ratio		Gravity
DISPOSITIO	N OF GAS:		METHOD OF	COMPLI	ETION:	-	PRODUCTI	ON INTER	VAL:
Vented Sold	Used on Lease	Open Hole	Perf.	Dually		nmingled			
(If vented, Subr	nit ACO-18.)	Other (Specia	Ťy)	(Gabitit		mit ACO-4) —			

# ALLIED CEMENTING CO., LLC. 040782

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 **ロタドンドハド**か 12.7-10 ON LOCATION SEC. TWP RANGE CALLED OUT JOB START JOB FINISH DATE STATE LEASE STER COUNTY LOCATION COA HE KEC OLD OR NEW (Circle one) IAN 07 2019 Jr 2 H-D CONTRACTOR OWNER CONFIDENTIAL PTA TYPE OF JOB . 18 CEMENT **HOLE SIZE** T.D. 205 5K 60140 **CASING SIZE** AMOUNT ORDERED DEPTH **TUBING SIZE** DEPTH DRILL PIPE DEPTH <u> 2250</u> TOOL DEPTH PRES. MAX MINIMUM COMMON MEAS. LINE SHOE JOINT POZMIX @ CEMENT LEFT IN CSG **GEL** @ **PERFS** CHLORIDE @ DISPLACEMENT ASC @ **EOUIPMENT** @ Closer @ 2 @ **PUMP TRUCK** CEMENTER @ HELPER 431 @ **BULK TRUCK** @ C. B. DRIVER @ **BULK TRUCK** @ DRIVER @ 🔀 HANDLING MILEAGE 1645KYWIL TOTAL 376 REMARKS: 255KS 100 5K5 350 SERVICE 40 GKG @ 10 5K4 @ **DEPTH OF JOB** 519 PUMP TRUCK CHARGE 1018 **EXTRA FOOTAGE** ahlomos dec MILEAGE @ MANIFOLD @ @ (a) TOTAL 1.158.00 STREET CITY\_ STATE ZIP PLUG & FLOAT EQUIPMENT Dry Hole Pl @ @ @ 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 TOTAL 40.00 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. Corlo Marinz PRINTED NAME IF PAID IN 30 DAYS DISCOUNT. RECEIVED **SIGNATURE** JAN 07 2011

KCC WICHITA

# ALLIED CEMENTING CO., LLC. 035621

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 · JAN 07 2011

SERVICE POINT:

RUSS	ELL, KAN	NSAS 6766	5	CONF	IDENTIAL		OAKIR	<b>ļ</b>
11-26-10 DATE	SEC	TWP.	RANGE ろう	C	ALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE E	WELL#	1-17	LOCATION	O2 #14	بر ۱۲۲۰ ع	2 <	COUNTY	STATE -
OLD OR NEW Ci			اخرا	5 Er	3	- 63	503,41	1.3
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CONTRACTOR	1.1	<del>· · · · · · · · · · · · · · · · · · · </del>	•		OWNER			
TYPE OF JOB	12114	200 E	0-0		CEMENT			
HOLE SIZE CASING SIZE	8518	T.D. Dep	<u> </u>	(بح	CEMENT	DERED 1	555KG (	
TUBING SIZE	0,0	DEP		<u> </u>	AMOUNT ORI		27373 6	9 VV \
DRILL PIPE	<u> </u>	DEP		<del></del>		<u> </u>	<u>ç</u>	
TOOL		DEP		_				
PRES. MAX			IMUM		COMMON	165	@ 15 us	-254a <sup>2</sup>
MEAS. LINE			E JOINT		POZMIX		@	
CEMENT LEFT IN	I CSG.		15'		GEL	3	@ 200	62 C
PERFS.	<del></del>	· •• • · · · · · · · · · · · · · · · ·			CHLORIDE _	6	@ <u>582</u>	3493
DISPLACEMENT		ι ι'	3.5		ASC			
	EQU	IPMENT					_@	
	_				·	RECEIVED	_@	
PUMP TRUCK	CEMENTI	ER E	224			2 7011	_@	
	HELPER		raine			JAN 07 2011		
BULK TRUCK	-	<del></del>				VOC MICHIT	<b>7</b>	
# 404	DRIVER	5	4111			KCC WICHIT		
BULK TRUCK					<del></del>		_@	
#	DRIVER				HANDLING	174	-@ <del></del>	41760
						10 49 KYM	- ¬ı ———	348
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<del></del>	<del> </del>				PUMP TRUCK			1018-
					EXTRA FOOT		-@ <del></del>	
7 10	. ال	~~	> 4 pot < 1 >	4 4 4 5	MILEAGE		_@	140=
	VV L2	+62	J dist CV	400	MANIFOLD_		_@	
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CHARGE TO: 1	· men	ICAL	71AW	iois				4
STREET							TOTAL	1158
CITY	STA	ATE	ZIP		1	PLUG & FLOAT	EQUIPMEN	T
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To Allied Cement	ting Co., I	LLC.						
You are hereby re	_		enting equir	oment	<del></del>			
and furnish ceme	-				<u> </u>		_@	
contractor to do v								
done to satisfaction	-						TOTAL	
contractor. I have	-	•	•					
TERMS AND CO					SALES TAX (I	lf Any)	<del></del>	<del></del>
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PRINTED NAME	Trons	Robe	<u> </u>		DISCOUNT		IF PAII	O IN 30 DAYS
	<b>/</b> } `	1						

# **GENERAL TERMS AND CONDITIONS**

DEFINITIONS: In these terms and conditions, "ALLIED" shall mean Allied Cementing Co., LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- —TERMS: Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.
- —ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.
- —PRICES AND TAXES: All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.
- —TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.
- —PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.
- —DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.
  - -SERVICE CONDITIONS AND LIABILITIES:
- 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.
- 3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

  WARRANTIES:
- 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.
  - 2. More specifically:
- (A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.
- (C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



Prepared For: American Warrior Inc.

PO Box 399

Garden City, KS 67846

ATTN: Kim Shoemaker

17-14-32 Logan, KS

#1-17 Foster

Start Date: 2010.12.02 @ 18:58:10

End Date: 2010.12.03 @ 02:00:00

Job Ticket #: 040563 DST #: 1

RECEIVED
JAN 0.7 2011
KCC WICHITA

**KCC** 

JAN 07 2011

CONFIDENTIAL

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



American Warrior Inc.

#1-17 Foster

PO Box 399

Garden City, KS 67846

17-14-32 Logan, KS

Job Ticket: 040563

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2010.12.02 @ 18:58:10

#### GENERAL INFORMATION:

Time Tool Opened: 20:35:10

Time Test Ended: 02:00:00

Formation:

LKC T

Deviated:

Мо Whipstock: ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Chuck Smith

Unit No:

37

3973.00 ft (KB) To 4010.00 ft (KB) (TVD)

Interval: Total Depth:

4010.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Good

Reference Bevations:

2797.00 ft (KB)

2787.00 ft (OF)

KB to GR/CF:

10.00 ft

Serial #: 6751 Press@RunDepth:

Outside

764.38 psig @

3975.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time: 2010.12.02 18:58:15

End Date: End Time: 2010.12.03 02:00:00

Last Calib.: Time On Btm 2010.12.03

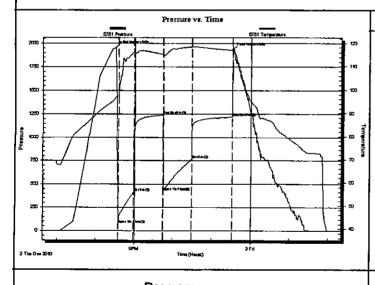
Time Off Btm:

2010.12.02 @ 20:30:10 2010.12.02 @ 23:32:20

TEST COMMENT: IF: B.O.B. @ 3 min.

ISI: No return. FF: B.O.B. @ 4 min.

FSt: Surface return died @ 14 min.



PRESSURE SUMMARY								
Time	Pressure	Temp	Annotation					
(Mn.)	(psig)	(deg F)						
0	1952.76	97.17	Initial Hydro-static					
5	72.70	97.46	Open To Flow (1)					
29	411.30	116.03	Shut-In(1)					
74	1238.69	115.29	End Shut-In(1)					
75	424.76	115.03	Open To Flow (2)					
120	764.38	118.38	Shut-In(2)					
182	1218.27	117.04	End Shut-In(2)					
183	1934.54	117.18	Final Hydro-static					
	1							

#### Recovery

Length (ft)	Description	Volume (bbl)
121.00	MV 20m 80w	0.60
1283.00	OSW 100w	18.00
183.00	GOOMW 8g 2o 40m 50w	2.57
45.00	GOOVM 5g 5o 20w 70m	0.63
1.00	Free Oil	0.01

#### Gas Rates

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



**TOOL DIAGRAM** 

American Warrior Inc.

#1-17 Foster

PO Box 399

17-14-32 Logan, KS

Garden City, KS 67846

Job Ticket: 040563

D\$T#:1

ATTN: Kim Shoemaker

Test Start: 2010.12.02 @ 18:58:10

Tool Information

Depth to Top Packer:

Depth to Bottom Packer:

Interval between Packers:

Drill Fipe: Heavy Wt. Pipe:

Drill Collar:

Length: 3862.00 ft Diameter: Length:

Length:

0.00 ft Diameter: 121.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 2.25 inches Volume:

Total Volume:

54.17 bbl ldd 00.0 0.60 bbl

54.77 bbl

Tool Weight: Weight set on Packer: 25000.00 lb

2100.00 lb

Weight to Pull Loose: 95000.00 lb

Tool Chased

0.00 ft

String Weight: Initial

22.50

68000.00 lb

Final 76000.00 lb

Drill Pipe Above KB:

32.50 ft 3973.00 ft

ft

37.00 ft 59.50 ft

6.75 inches

Number of Packers: Tool Comments:

Tool Length:

**Tool Description** Length (ft) Serial No. **Position** Depth (ft) Accum. Lengths Change Over Sub 1.00 3951.50 Shut in Tool 5.00 3956.50 Hydraulic tool 5.00 3961.50

Diameter:

Safety Joint 2.50 3964.00 **Packer** 5.00 3969.00 Packer 4.00 3973.00 Stubb 1.00 3974.00

**Perforations** 1.00 3975.00 Recorder 0.00 8357 Inside 3975.00 Recorder 0.00 6751 Outside 3975.00

Change Over Sub 1.00 3976.00 Drill Ripe 30.00 4006.00 Change Over Sub 1.00 4007.00 Bullnose 3.00 4010.00

37.00

Bottom Packers & Anchor

Bottom Of Top Packer

**Total Tool Length:** 

59.50



**FLUID SUMMARY** 

American Warrior Inc.

#1-17 Foster

PO Box 399

17-14-32 Logan, KS

bbl

psig

Job Ticket: 040563

DST#: 1

ATTN: Kim Shoemaker

Garden City, KS 67846

Test Start: 2010.12.02 @ 18:58:10

#### **Mud and Cushion Information**

Mud Type: Gel Chem

9.00 lb/gal

55.00 sec/qt

Mud Weight: Viscosity: Water Loss:

7.18 in<sup>3</sup>

Resistivity: Salinity: Filter Cake:

0.00 ohm.m 4400.00 ppm 1.00 inches

**Cushion Type:** 

Cushion Length:

**Cushion Volume:** 

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

0 deg API

Water Salinity:

31000 ppm

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
121.00	MW 20m 80w	0.595
1283.00	OSW 100w	17.997
183.00	GOCIVIV 8g 2o 40m 50w	2.567
45.00	GOC/M 5g 5o 20w 70m	0.631
1.00	Free Oil	0.014

Total Length:

1633.00 ft

Total Volume:

21.804 bbl

Num Fluid Samples: 0

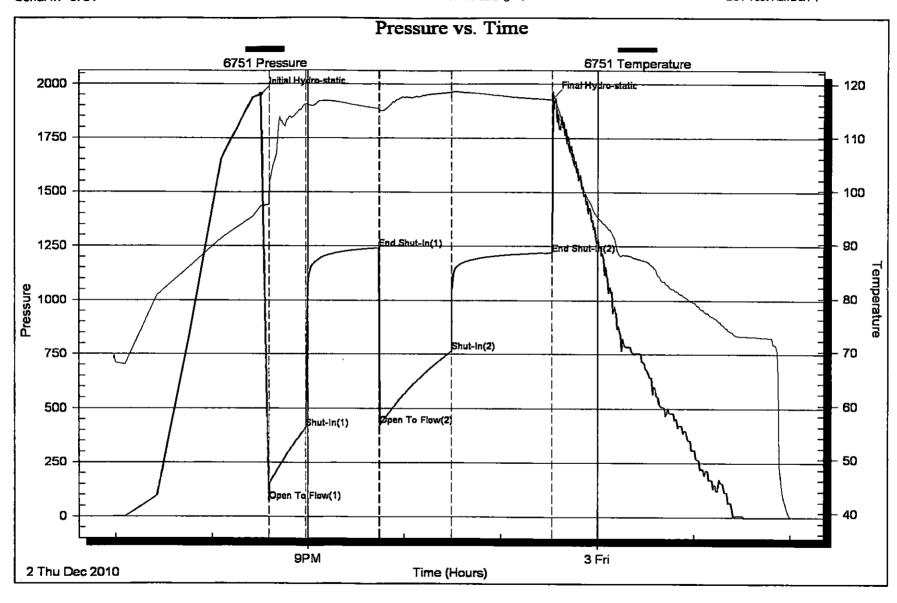
Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .300 @ 50F = 31000 chlorides





Prepared For: American Warrior Inc.

PO Box 399

Garden City, KS 67846

ATTN: Kim Shoemaker

17-14-32 Logan, KS

#1-17 Foster

Start Date: 2010.12.03 @ 12:29:00 2010.12.03 @ 19:08:30 End Date:

Job Ticket #: 040564 DST#: 2

Trilobite Testing, Inc. PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



American Warrior Inc.

#1-17 Foster

PO Box 399

17-14-32 Logan, KS

Garden City, KS 67846

Job Ticket: 040564

DST#:2

ATTN: Kim Shoemaker

Test Start: 2010.12.03 @ 12:29:00

#### GENERAL INFORMATION:

Time Tool Opened: 14:22:00

Time Test Ended: 19:08:30

Formation:

LKC 'K'

Daviated:

No Whipstock: ft (KB)

Test Type:

Conventional Bottom Hole

Tester:

Chuck Smith

Unit No:

37

2797.00 ft (KB)

Reference Elevations:

2787.00 ft (CF)

KB to GR/CF:

10.00 ft

Interval: Total Depth:

4028.00 ft (KB) To 4056.00 ft (KB) (TVD)

Inside

4056.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Good

Press@RunDepth:

129.04 psig @ 2010.12.03

4033.00 ft (KB) End Date:

2010.12.03

Capacity: Last Calib .: 8000.00 psig

Start Date: Start Time:

Serial #: 8357

12:29:05

End Time:

19:08:29

Time On Btm

2010.12.03 2010.12.03 @ 14:19:45

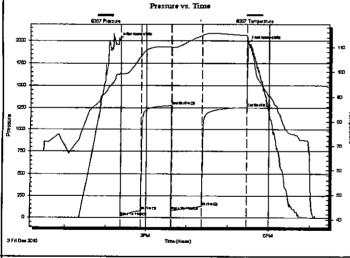
Time Off Btm

2010.12.03 @ 17:28:15

TEST COMMENT: IF: 7" Blow.

ISt: Weak surface return died @ 2 min.

FF: 9" Blow. FSI: No return.



	PRESSURE SUMMARY								
	Time	Pressure	Temp	Annotation					
	(Min.)	(psig)	(deg F)						
	0	2013.62	99.36	initial Hydro-static					
	3	16.35	99.00	Open To Flow (1)					
	32	79.26	106.33	Shut-In(1)					
	78	1276.50	110.27	End Shut-In(1)					
4	78	81.17	110.03	Open To Flow (2)					
Temperature	123	129.04	114.76	Shut-In(2)					
3	188	1257.19	114.78	End Shut-In(2)					
	189	1976.58	113.17	Final Hydro-static					

#### Recovery

Length (ft)	Description	Valume (bbil)
182.00	MVV 10m 90w	1.45
73.00	OSMW 20m 80w	1.02
0.00	Oil spots in tool	0.00

**Gas Rates** 

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

Trilobite Testing, Inc.

Ref. No: 040564

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**TOOL DIAGRAM** 

American Warrior Inc.

#1-17 Foster

PO Box 399

17-14-32 Logan, KS

Job Ticket: 040564

DST#: 2

ATTN: Kim Shoemaker

Garden City, KS 67846

Test Start: 2010.12.03 @ 12:29:00

Tool Information

Length:

3892.00 ft Diameter: 0.00 ft Diameter:

3.80 inches Volume: 54.59 bbl 0.00 inches Volume: 2.25 inches Volume:

Total Volume:

Tool Weight:

2100.00 lb

Heavy Wt. Pipe: Length: Drill Collar:

Drill Pipe:

Length: 121.00 ft Diameter:

0.00 bbl 0.60 bbl

55.19 bbl

Weight set on Packer: 26000.00 lb Weight to Pull Loose: 80000.00 lb

Tool Chased

0.00 ft

Drill Pipe Above KB: 7.50 ft Depth to Top Packer: 4028.00 ft

ft

String Weight: Initial 69000.00 lb 70000.00 lb Final

Depth to Bottom Packer: Interval between Packers:

28.00 ft

Tool Length: 50.50 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			4006.50		
Shut In Tool	5.00			4011.50		
Hydraulic tool	5.00			4016.50		
Safety Joint	2.50			4019.00		
Packer	5.00			4024.00	22.50	Bottom Of Top Packer
Packer	4.00			4028.00		
Stubb	1.00			4029.00		
Perforations	4.00			4033.00		
Recorder	0.00	8357	Inside	4033.00		
Recorder	0.00	6751	Outside	4033.00		
Perforations	20.00			4053.00		
Bullnose	3.00			4056.00	28.00	Bottom Packers & Anchor

**Total Tool Length:** 

50.50



**FLUID SUMMARY** 

American Warrior Inc.

#1-17 Foster

PO Box 399

17-14-32 Logan, KS

Garden City, KS 67846

Job Ticket: 040564

DST#:2

ATTN: Kim Shoemaker

Test Start: 2010.12.03 @ 12:29:00

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Cushion Type: **Cushion Length:**  Oil API:

0 deg API

Mud Weight: Viscosity:

56.00 sec/qt

**Cushion Volume:** 

fţ

52000 ppm

Water Loss:

9.58 in<sup>3</sup>

Gas Cushion Type:

ldd

Water Salinity:

Resistivity: Salinity:

0.00 ohm.m 4700.00 ppm

Gas Cushion Pressure:

psig

Filter Cake:

1.00 inches

## **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
182.00	MW 10m 90w	1.451
73.00	OSMW 20m 80w	1.024
0.00	Oil spots in tool	0.000

Total Length:

255.00 ft

Total Volume:

2.475 bbl

Num Fluid Samples: 0

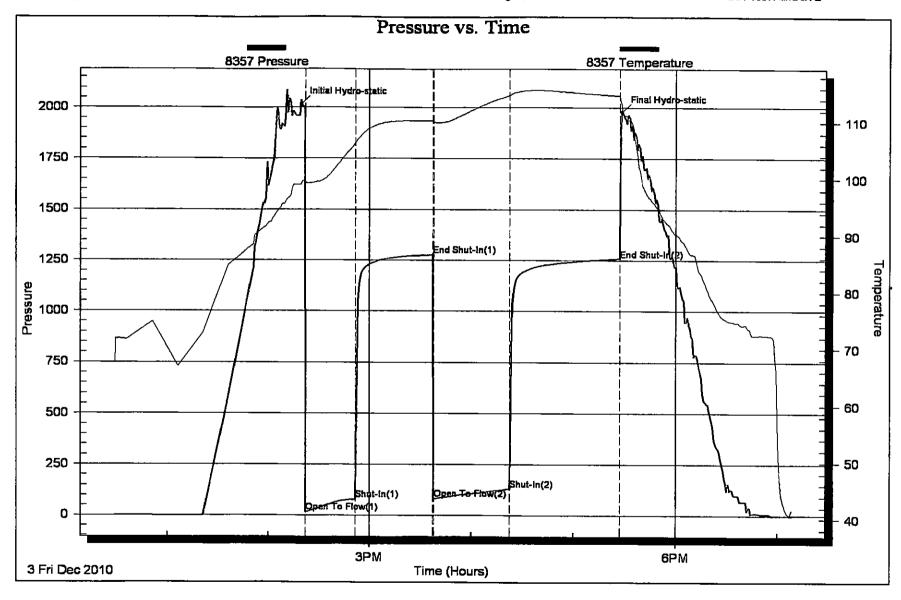
Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.185 @ 51F = 52000 PPM





Prepared For: American Warrior Inc.

PO Box 399

Garden City, KS 67846

ATTN: Kim Shoemaker

17-14-32 Logan, KS

#1-17 Foster

Start Date: 2010.12.06 @ 02:26:00 End Date: 2010.12.06 @ 09:51:30

Job Ticket #: 040565

DST#: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



American Warrior Inc.

#1-17 Foster

17-14-32 Logan, KS

PO Box 399 Garden City, KS 67846

Job Ticket: 040565

DST#:3

ATTN: Kim Shoemaker

Test Start: 2010.12.06 @ 02:26:00

#### **GENERAL INFORMATION:**

Formation: Deviated: Myrick/Johnson

No Whipstock:

Test Type:

Conventional Bottom Hole

Time Tool Opened: 04:32:00

ft (KB)

: Chuck Smith

Time Test Ended: 09:51:30

Tester: Unit No:

37

Interval:

4269.00 ft (KB) To 4400.00 ft (KB) (TVD)

Reference Elevations:

2797.00 ft (KB)

Total Depth:

4400.00 ft (KB) (TVD)

2787.00 ft (CF)

Hole Diameter:

7.88 inchesHole Condition: Good

KB to GR/CF:

10.00 ft

Serial #: 8357

Press@RunDepth:

Inside

121.65 psig @

4273.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2010.12.06

End Date:

2010.12.06

Last Calib.:

2010.12.06

Start Time:

02:26:05

End Time:

09:51:29

Time On Btm:

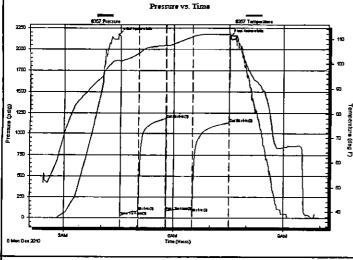
2010.12.06 @ 04:29:00

Time Off Btm:

2010.12.06 @ 07:33:15

TEST COMMENT: IF: 6 1/2" Blow.

ISt No return. FF: 7" Blow . FSI: No return.



		Time	Pressure	Temp	Annotation
10		(Min.)	(psig)	(deg F)	
		0	2173.27	101.28	Initial Hydro-static
m		3	27.89	100.82	Open To Flow (1)
0		33	83.72	104.27	Shut-In(1)
	4	78	1186.55	107.36	End Shut-In(1)
0	empe	78	86.74	107.31	Open To Flow (2)
0	Temperature (deg F)	123	121.65	110.90	Shut-in(2)
	(deg	183	1139.12	111.83	End Shut-In(2)
٥	J	185	2151.37	111.45	Final Hydro-static
0					
	1				
			l f		

PRESSURE SUMMARY

## Recovery

Length (ft)	Description	Volume (bbl)		
185.00	MW 25m 75w	1.49		
40.00	WM 15w 85m	0.56		
0.00	Oil spots in tool.	0.00		

Choke (Inches)	Pressure (psig)	Gas Rate (Mct/d)

Trilobite Testing, Inc.

Ref. No: 040565

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**TOOL DIAGRAM** 

American Warrior Inc.

PO Box 399

Garden City, KS 67846

ATTN: Kim Shoemaker

#1-17 Foster

17-14-32 Logan, KS

Job Ticket: 040565

DST#:3

Test Start: 2010.12.06 @ 02:26:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 4134.00 ft Diameter: Length:

0.00 ft Diameter: 121.00 ft Diameter:

ft

0.00 inches Volume: 2.25 inches Volume: Total Volume:

3.80 inches Volume:

58.59 bbl

1dd 00.0 0.60 bbl

57.99 bbl

Tool Weight:

2500.00 lb Weight set on Packer: 25000.00 lb

Weight to Pull Loose: 80000.00 lb Too! Chased

0.00 ft

String Weight: Initial 70000.00 lb

> Final 71000.00 lb

Drill Pipe Above KB:

13.50 ft Depth to Top Packer: 4269.00 ft

Depth to Bottom Packer: Interval between Packers:

131.00 ft 158.50 ft

Tool Length: 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		· ·	4242.50	<u> </u>	
Shut in Tool	5.00			4247.50		
Hydraulic tool	5.00			4252.50		
Jars	5.00			4257.50		
Safety Joint	2.50			4260.00		
Packer	5.00			4265.00	27.50	Bottom Of Top Packer
Packer	4.00			4269.00	· · ·	
Stubb	1.00			4270.00		
Perforations	3.00			4273.00		
Recorder	0.00	8357	Inside	4273.00		
Recorder	0.00	6751	Outside	4273.00		
Perforations	31.00			4304.00		
Change Over Sub	1.00			4305.00		
Drill Pipe	91.00			4396.00		
Change Over Sub	1.00			4397.00		
Bullnose	3.00			4400.00	131.00	Bottom Packers & Anchor
Total Tool Length	: 158.50					



**FLUID SUMMARY** 

American Warrior Inc.

#1-17 Foster

PO Box 399

17-14-32 Logan, K\$

Garden City, KS 67846

Job Ticket: 040565

DST#: 3

ATTN: Kim Shoemaker

Test Start: 2010.12.06 @ 02:26:00

#### **Mud and Cushion Information**

Mud Type: Gel Chem

9.00 lb/gal

Cushion Type:

Oil API:

0 deg API

Mud Weight:

54.00 sec/qt

Cushion Length:

Water Salinity:

49000 ppm

Viscosity: Water Loss: Resistivity:

10.37 in<sup>3</sup> 0.00 ohm.m Cushion Volume:

ft bbl

Gas Cushion Type:

Gas Cushion Pressure:

psig

Salinity: Filter Cake: 5400.00 ppm 1.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
185.00	MW 25m 75w	1.493
40.00	WM 15w 85m	0.561
0.00	Oil spots in tool.	0.000

Total Length:

225.00 ft

Total Volume:

2.054 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW:.210 @ 50F = 49000 PPM



Inside

American Warrior Inc.

17-14-32 Logan, KS

DST Test Number: 3

