

CONFIDENTIAL

ORIGINAL  
KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

11/29/13  
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 # 4058  
Name: American Warrior Inc.  
Address 1: P.O. Box 399  
Address 2: \_\_\_\_\_  
City: Garden City State: Ks. Zip: 67846 + \_\_\_\_\_  
Contact Person: Jody Smith  
Phone: (620) 275-2963  
CONTRACTOR: License # 5822  
Name: Val Energy Inc.  
Wellsite Geologist: Harley Sayles  
Purchaser: NCRA

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

10/21/11	10/29/11	11/23/11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 069-20352 . 00 . 00  
Spot Description: \_\_\_\_\_  
SW NE SW NW Sec. 4 Twp. 24 S. R. 29  East  West  
1,700 Feet from  North /  South Line of Section  
750 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Gray  
Lease Name: O'Brate Well #: 6-4  
Field Name: Cecil  
Producing Formation: Morrow  
Elevation: Ground: 2774' Kelly Bushing: 2784'  
Total Depth: 4880' Plug Back Total Depth: 4845'  
Amount of Surface Pipe Set and Cemented at: 523' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 2967' Feet  
If Alternate II completion, cement circulated from: 2967'  
feet depth to: surface w/ 250sx sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 15,000 ppm Fluid volume: 80 bbls  
Dewatering method used: Evaporation  
Location of fluid disposal if hauled offsite:  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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KCC WICHITA

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

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.

Signature: [Signature]  
Title: Foreman Date: 11/28/11

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: 11-29-11 - 11-29-11  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: [Signature] Date: 12-7-11

Operator Name: American Warrior Inc. Lease Name: O'Brate Well #: 6-4  
 Sec. 4 Twp. 24 S. R. 29  East  West County: Gray

**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  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No

Electric Log Submitted Electronically  Yes  No  
 (If no, Submit Copy)

List All E. Logs Run:  
**Induction, Mico & Porosity**

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Anhy	1904'	+880
B/Anhy	1976'	+808
Heabner	4024'	-1240
Lansing	4074'	-1290
Pawnee	4610'	-1826
Cherokee	4651'	-1867
Morrow	4765'	-1981

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	23#	523'	Common	310	3%CC,2%gel
Production	7 7/8	5 1/2	17#	4866'	EA-2	125sx	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
6	4765' to 4770'	Profrac LG 2500	
TUBING RECORD: Size: <u>23/8</u> Set At: <u>4830'</u> Packer At: <u>None</u>		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>NA</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>5</u>	Gas Mcf <u>0</u>	Water Bbls. <u>6</u> Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	<u>4765' to 4770'</u>



CHARGE TO: AMERICAN WARRIOR  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

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TICKET No 22473

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. NESS CITY, KS  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_

WELL/PROJECT NO. \_\_\_\_\_ LEASE OBRATE 10-4 COUNTY/PARISH GRAY STATE KS CITY GARDEN CITY, KS DATE 4 NOV 11 OWNER \_\_\_\_\_

TICKET TYPE \_\_\_\_\_ CONTRACTOR AMERICAN WARRIOR RIG #2 RIG NAME/NO. \_\_\_\_\_ SHIPPED VIA \_\_\_\_\_ DELIVERED TO \_\_\_\_\_ ORDER NO. \_\_\_\_\_

SERVICE  
 SALES

WELL TYPE OIL WELL CATEGORY DEVELOPMENT JOB PURPOSE CEMENT PORT COLLAR WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION E10 DOLL RD 4 1/2 S, E10

REFERRAL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #110	80		ml		6.00	480.00
576D					Pump CHARGE	1		2967 FT		1250.00	1250.00
276					FLOCCIE	63		lbs		2.00	126.00
290					D-AIR	2		gal		35.00	70.00
330					SWIFT MULTI DENSITY	250		bx		16.50	4125.00
581					SERVICE CHARGE CEMENT	335		bx		2.00	670.00
582 583					DRAPAGE	33304		lbs	1332.16 Tm	1.00	1332.16

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**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X  
 DATE SIGNED 4 Nov 11 TIME SIGNED 11:50  A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				8053.16
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

Gray TAX 7.45% 321.91

8375.07

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature] APPROVAL \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4 NOV 11 PAGE NO.

CUSTOMER AMERICAN WARRIOR

WELL NO.

LEASE OBRATE 6-4

JOB TYPE CEMENT PORT COLLAR

TICKET NO. 22473

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0950							ON LOCATION PORT COLLAR @ 3967'
	1023				✓		1000	TEST HELD
	1028	3			✓		600	OPEN PORT COLLAR TAKE INT. RATE
	1030	4	138		✓	850		MIX 250 SX SMD
		3	10 1/2		✓	600		DISPLACE CEMENT - CIRCULATE 30Sx TO PIT
	1108				✓		1000	CLOSE PORT COLLAR TEST HELD
	1113							RUN 4 TESTS
	1118	3 1/2	25		✓		300	REVERSE CEMENT OUT
	1127							WASH TRUCK
	1150							JOB COMPLETE

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THANKS #110

KCC WICHITA

JASON JEFF ROBS

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# ALLIED CEMENTING CO., LLC. 036095

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Dakota, Ks

DATE <u>10-22-11</u>	SEC. <u>4</u>	TWP. <u>24</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION <u>7:00 am</u>	JOB START <u>9:00 am</u>	JOB FINISH <u>9:30 am</u>
LEASE <u>O Brate</u>	WELL # <u>4-6</u>	LOCATION <u>Gardner City E to Potlone Abbey</u>			COUNTY	STATE <u>Ks</u>	
OLD OR <u>(NEW)</u> (Circle one)				<u>12 E, 2 3/4 N, E 1/4</u>			

CONTRACTOR Val Rig #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 523'

CASING SIZE 8 7/8 DEPTH 525'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 32.64

OWNER same

CEMENT AMOUNT ORDERED 310 sk com 370 cc

270 gal

**EQUIPMENT**

PUMP TRUCK CEMENTER LaRene

# 423/181 HELPER Jerry

BULK TRUCK DRIVER Tyler

# 394/112

BULK TRUCK DRIVER

COMMON	<u>310 sk @ 16.25</u>	<u>5032.50</u>
POZMIX	@	
GEL	<u>6 sk @ 21.25</u>	<u>127.50</u>
CHLORIDE	<u>115 sk @ 58.20</u>	<u>6702.00</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>327 sk @ 2.25</u>	<u>735.75</u>
MILEAGE	<u>119 sk/mile</u>	<u>3232.30</u>
TOTAL		<u>9778.25</u>

**REMARKS:**

Mix 310 sk down casing

Displace with water

cement did circulate

Thank you

CHARGE TO: American Warrion

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB	<u>523'</u>	
PUMP TRUCK CHARGE		<u>1125.00</u>
EXTRA FOOTAGE	<u>223' @ .95</u>	<u>211.85</u>
MILEAGE	<u>90 x 2 @ 2.00</u>	<u>180.00</u>
MANIFOLD	<u>head @</u>	<u>200.00</u>
<u>light vehicle mileage @</u>	<u>4.00</u>	<u>720.00</u>
	@	
TOTAL		<u>3516.85</u>

**PLUG & FLOAT EQUIPMENT**

<u>Top wooden plug</u>	@	<u>92.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>92.00</u>

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 TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Walter Purcell

SIGNATURE Walter Purcell

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



CHARGE TO: **AMERICAN WARRIOR**  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

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TICKET  
 No 22466

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. **NESS CITY, KS.**

WELL/PROJECT NO. LEASE COUNTY/PARISH STATE CITY DATE OWNER  
**OPRATE 4-6 GRAY KS GARDEN CITY, KS. 30 OCT 11**

TICKET TYPE CONTRACTOR RIG NAME/NO. SHIPPED VIA DELIVERED TO ORDER NO.  
 SERVICE  SALES **VAL DRILLING RIG #1**

WELL TYPE WELL CATEGORY JOB PURPOSE WELL PERMIT NO. WELL LOCATION  
**OIL DEVELOPMENT S & LONGSTRING E TO DOLL RD, 4 1/2 S, E INTO**

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #110	80		MIL		6.00	480.00
578					PUMP CHARGE	1		JOB	4866 FT.	1500.00	1500.00
402					CENTRALIZERS	9		EA.		70.00	630.00
403					CEMENT BASKETS	2		EA.		250.00	500.00
404					PORT COLLAR	1		EA.	2967 FT.	2400.00	2400.00
406					LATCH DOWN PLUG & TRAP	1		EA.		250.00	250.00
407					INSERT FLOAT SHADE W/AUTO FILL	1		EA.		350.00	350.00
281					MUD FLUSH	500		GAL		1.25	625.00
221					LIQUID KCL	2		GAL		25.00	50.00
419					ROTATING HEAD RENTAL	1		JOB		200.00	200.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X  
 DATE SIGNED **30 OCT 11** TIME SIGNED **1845**  A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1	6985.00
2	5006.73
subtotal	11991.73
Gray TAX 7.45%	665.21
TOTAL	12,656.93

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR *Jan E. Kahl*

APPROVAL

Thank You!



PO Box 466.  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 22466

CUSTOMER AMERICAN WARRIOR WELL O'BRATE 4-6 DATE 30 OCT 11 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY	UM	IS QTY	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
276						FLOCELE	44	lbs			2.00	88.00
283						SACT	900	lbs			0.20	180.00
284						GLSEAL	8	bx			35.00	280.00
292						HALAD 322	124	lbs			7.75	961.00
290						D-AIR	1 1/2	gal			35.00	52.50
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325						STANDARD CEMENT	175	bx			13.00	2362.50
SB1						SERVICE CHARGE					2.00	350.00
SB3						MILEAGE CHARGE					1.00	732.73
						TOTAL WEIGHT	18318					
						LOADED MILES	80					
						TON MILES	732.72					

CONTINUATION TOTAL 5006.73





# **Geological Report**

American Warrior Inc.  
**O' Brate #6-4**  
1700' FNL & 750' FWL  
Sec. 4 T24s R29w  
Gray County, Kansas



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**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
O' Brate #6-4  
1700' FNL & 750' FWL  
Sec. 4 T24s R29w  
Gray County, Kansas  
API # 15-069-20352-0000

Drilling Contractor: Val Energy, Inc. Rig #1

Geologist: Harley Sayles

Spud Date: October 22, 2011

Completion Date: October 29, 2011

Elevation: 2774' Ground Level  
2784' Kelly Bushing

Directions: Garden City KS, East 19.2 mi on Hwy 156 to Doll Rd. Then South on Doll Rd. 4.3 mi. East into location.

Casing: surface casing set @ 523', production casing set @ 4866'

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3800' to RTD

Electric Logs: Dual Induction, Microresistivity, Dual Compensated Porosity

Drillstem Tests: One, "Chris Hagman"

Problems: Cave in at 1450' on first DST run

Remarks: None

## Formation Tops

Formation	American Warrior, Inc. O' Brate #6-4 Sec. 4 T24s R29w 1700' FNL & 750' FWL
Anhydrite	1904', 880
Base	1976', +808
Heebner	4024', -1240
Lansing	4074', -1290
Stark	4431', -1647
BKc	4511', -1727
Marmaton	4525', -1741
Pawnee	4610', -1826
Cherokee	4651', -1867
Morrow	4765', -1981
St. Gen	4775', -1991
St. Louis	4821', -2037
LTD	4881', -2097

## Sample Zone Descriptions

**Morrow Sand (4765', -1981):** Covered in DST #1

Sd- Fine to very fine grained, sub-well rounded, well sorted, good intergranular porosity, good show of free oil, good gassy odor, complete saturation and stain, fair yellow florescence, fair cut, somewhat dense, 105 units hotwire

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**Drill Stem Tests**  
 Trilobite Testing Inc.  
 "Chris Hagman"

**DST #1**

**Morrow Sand**

Interval (4720' – 4774') Anchor Length 54'

IHP	– 2270 #	
IFP	– 30" – weak surface blow, died in 12 min	18-20 #
ISI	– 30" – no blow back	77 #
FFP	– 10" – no blow	21-22 #
FSIP	– 2" – no blow back	24 #
FHP	– 2327 #	
BHT	– 118 °F	

Recovery: 5' Mud

**Structural Comparison**

	American Warrior, Inc. O' Brate #6-4 Sec. 4 T24s R29w 1700' FNL & 750' FWL		American Warrior, Inc. O' Brate #2-4 Sec. 4 T24s R29w 530' FNL & 350' FWL		American Warrior, Inc. O' Brate #1-5 Sec. 4 T24s R29w 530' FNL & 350' FWL
<b>Formation</b>					
Anhydrite	1904', +880		1914', +869	(+11)	1910', +883
Base	1976', +808		1987', +796	(+12)	1980', +813
Heebner	4024', -1240		4010', -1227	(-13)	4020', -1227
Lansing	4074', -1290		4058', -1275	(-15)	4065', -1274
Stark	4431', -1647		4418', -1635	(-12)	4418', -1625
BKc	4511', -1727		4506', -1723	(-4)	4499', -1706
Marmaton	4525', -1741		4522', -1739	(-2)	4513', -1720
Pawnee	4610', -1826		4602', -1819	(-7)	4598', -1815
Cherokee	4651', -1867		4643', -1860	(-7)	4641', -1848
Morrow	4765', -1981		4750', -1967	(-14)	4743', -1950
St. Gen	4775', -1991		4762', -1979	(-12)	4762', -1969
St. Louis	4821', -2037		4792', -2009	(-28)	4780', -1987
LTD	4881', -2097				(-50)

## Summary

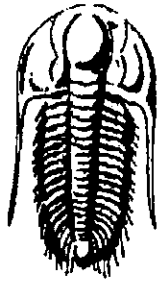
The location for the O' Brate #6-4 well was found via 3-D seismic survey. The new well was drilled on the side of a structure and ran as expected via the survey. One drill stem test was conducted, which was negative. However, additional data and certain circumstances overruled the test and production casing was set to further evaluate the O' Brate #6-4 well.

## Recommended Perforations

<b>Primary:</b>		
<b>Morrow Sandstone:</b>	<b>(4765' – 4770')</b>	<b>DST #1</b>
<b>Before Abandonment:</b>	<b>(4611' – 4622')</b>	<b>not tested</b>
<b>Pawnee:</b>		

Respectfully Submitted,

Harley K. Sayles  
American Warrior Inc.



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Harley Sayles

**O'Brate #4-6**

**4-24s-29w Gray,KS**

Start Date: 2011.10.29 @ 02:17:02

End Date: 2011.10.29 @ 10:01:41

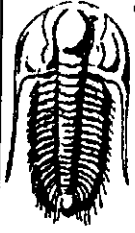
Job Ticket #: 042299          DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.02 @ 11:09:51



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Harley Sayles

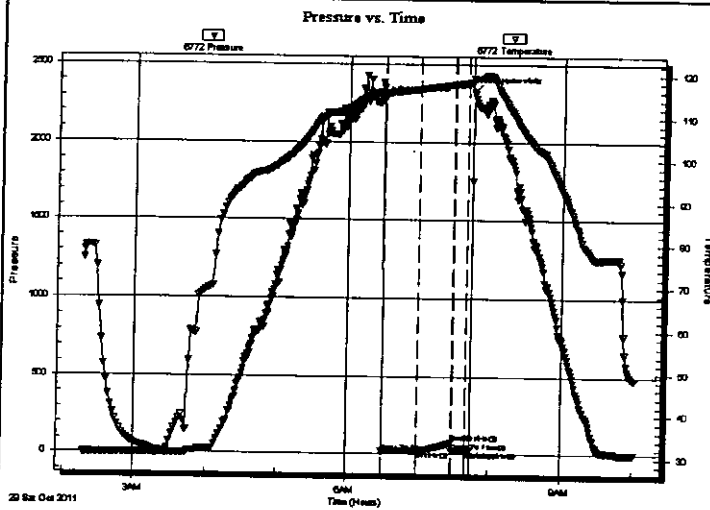
4-24s-29w Gray, KS  
O'Brate #4-6  
Job Ticket: 042299 DST#: 2  
Test Start: 2011.10.29 @ 02:17:02

## GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: **No Whipstock** 2785.00 ft (KB)  
Time Tool Opened: 06:29:57  
Time Test Ended: 10:01:41  
Interval: **4720.00 ft (KB) To 4774.00 ft (KB) (TVD)**  
Total Depth: 4774.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Chris Hagman  
Unit No: 58  
Reference Elevations: 2785.00 ft (KB)  
2773.00 ft (CF)  
KB to GR/CF: 12.00 ft

**Serial #: 6772** Outside  
Press@RunDepth: 22.13 psig @ 4722.00 ft (KB)  
Start Date: 2011.10.29 End Date: 2011.10.29 Capacity: 8000.00 psig  
Start Time: 02:17:02 End Time: 10:01:41 Last Calib.: 2011.10.29  
Time On Btmr: 2011.10.29 @ 06:27:57  
Time Off Btmr: 2011.10.29 @ 07:44:56

TEST COMMENT: IF: Weak surface blow, died 12 min.  
IS: No blow back  
FF: No blow  
FS: No blow back



## PRESSURE SUMMARY

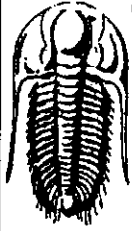
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.56	116.00	Initial Hydro-static
2	18.15	114.61	Open To Flow (1)
32	19.81	116.73	Shut-In(1)
61	77.33	117.76	End Shut-In(1)
61	21.14	117.77	Open To Flow (2)
72	22.13	118.16	Shut-In(2)
76	23.85	118.29	End Shut-In(2)
77	2327.31	119.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.07

## Gas Rates

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



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TOOL DIAGRAM

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4-24s-29w Gray, KS

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O'Brate #4-6

Job Ticket: 042299

DST#: 2

ATTN: Harley Sayles

Test Start: 2011.10.29 @ 02:17:02

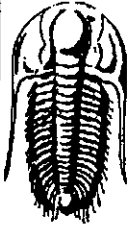
## Tool Information

Drill Pipe:	Length: 4718.00 ft	Diameter: 3.80 inches	Volume: 66.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 66.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4720.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 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			4693.00	
Shut In Tool	5.00			4698.00	
Hydraulic tool	5.00			4703.00	
Jars	5.00			4708.00	
Safety Joint	3.00			4711.00	
Packer	5.00			4716.00	28.00 Bottom Of Top Packer
Packer	4.00			4720.00	
Stubb	1.00			4721.00	
Perforations	1.00			4722.00	
Recorder	0.00	8355	Inside	4722.00	
Recorder	0.00	6772	Outside	4722.00	
Perforations	15.00			4737.00	
Change Over Sub	1.00			4738.00	
Drill Pipe	32.00			4770.00	
Change Over Sub	1.00			4771.00	
Bullnose	3.00			4774.00	54.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>82.00</b>				





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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior, Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Harley Sayles

4-24s-29w Gray,KS  
O'Brate #4-6  
Job Ticket: 042299      DST#: 2  
Test Start: 2011.10.29 @ 02:17:02

**Mud and Cushion Information**

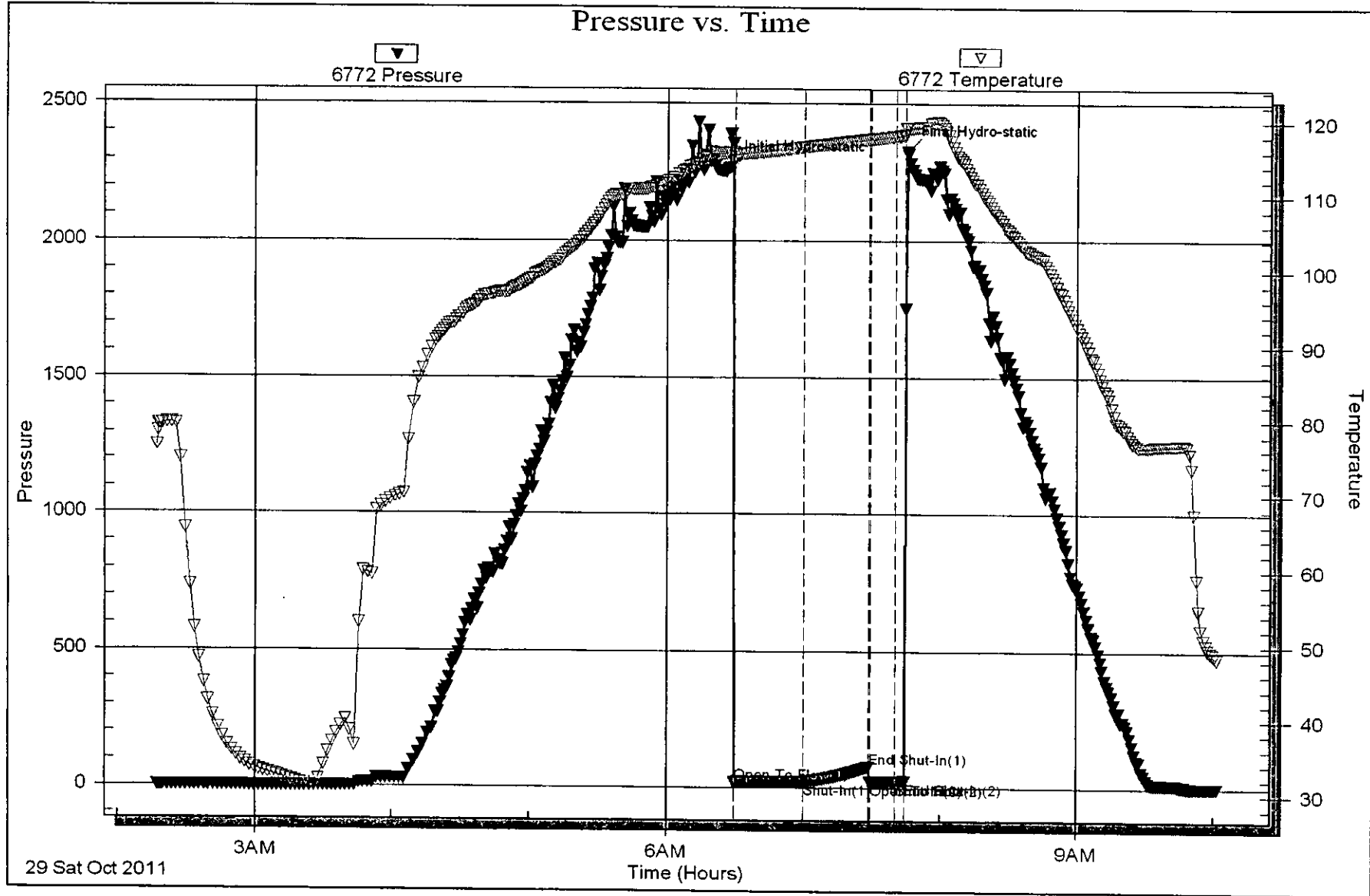
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	4300 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: inches			

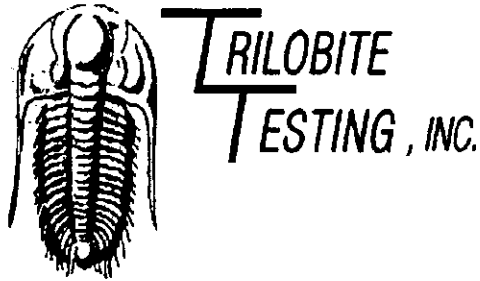
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW=1.54@60F=4300ppm





## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Harley Sayles

**O'Brate #4-6**

**4-24s-29w Gray,KS**

Start Date: 2011.10.28 @ 18:06:05

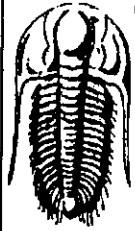
End Date: 2011.10.28 @ 20:45:15

Job Ticket #: 042298                      DST #: 1

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

Printed: 2011.11.02 @ 11:07:58





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

4-24s-29w Gray, KS

PO Box 399  
Garden City, KS 67846

O'Brate #4-6

Job Ticket: 042298

DST#: 1

ATTN: Harley Sayles

Test Start: 2011.10.28 @ 18:06:05

## Tool Information

Drill Pipe:	Length:	ft	Diameter:	inches	Volume:	- bbl	Tool Weight:	lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	inches	Volume:	- bbl	Weight set on Packer:	lb
Drill Collar:	Length:	ft	Diameter:	inches	Volume:	- bbl	Weight to Pull Loose:	lb
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:		ft					String Weight: Initial	lb
Depth to Top Packer:		ft					Final	lb
Depth to Bottom Packer:		ft						
Interval between Packers:	0.00	ft						
Tool Length:		ft						
Number of Packers:	2		Diameter:	6.75	inches			

Tool Comments: Hit Bridge @ 1070', pulled tool, missrun

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
	0.00			0.00	0.00

Total Tool Length:



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O'Brate #4-6

Job Ticket: 042298

DST#: 1

ATTN: Harley Sayles

Test Start: 2011.10.28 @ 18:06:05

## Mud and Cushion Information

Mud Type:		Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	sec/qt	Cushion Volume:	bbl		
Water Loss:	in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:                      ft      Total Volume:                      bbl

Num Fluid Samples:                      Num Gas Borrb:                      Serial #:

Laboratory Name:                      Laboratory Location:

Recovery Comments:

