



KANSAS CORPORATION COMMISSION 1103521  
OIL & GAS CONSERVATION DIVISION

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: 3118 Cummings Rd  
Address 2: PO BOX 399  
City: GARDEN CITY State: KS Zip: 67846 +  
Contact Person: Joe Smith  
Phone: ( 620 ) 275-2963  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co., Inc.  
Wellsite Geologist: Kevin Timson  
Purchaser: None

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 #: \_\_\_\_\_

<u>10/25/2012</u>	<u>11/06/2012</u>	<u>11/30/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-069-20403-00-00

Spot Description: \_\_\_\_\_

NE SW SE SE Sec. 8 Twp. 24 S. R. 30  East  West  
335 Feet from  North /  South Line of Section  
845 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Gray

Lease Name: O'Brate - Gray Well #: 1-8

Field Name: \_\_\_\_\_

Producing Formation: None

Elevation: Ground: 2860 Kelly Bushing: 2868

Total Depth: 5000 Plug Back Total Depth: 4749

Amount of Surface Pipe Set and Cemented at: 258 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 1795 Feet

If Alternate II completion, cement circulated from: 1795

feet depth to: 0 w/ 160 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 14000 ppm Fluid volume: 40 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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: Deanna Garriso Date: 12/04/2012



1103521

Operator Name: American Warrior, Inc. Lease Name: O'Brate - Gray Well #: 1-8  
 Sec. 8 Twp. 24 S. R. 30  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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Porosity Induction Micro	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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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	12.250	8.625	23	258	Class A	150	3%CC,2%gel
Production	7.875	5.50	15.5	4777	EA-2	125	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	4399'to 4468		

TUBING RECORD: Size: <u>2.375</u> Set At: <u>4382</u> Packer At: <u>4382</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
Estimated Production Per 24 Hours	Oil Bbls.      Gas Mcf      Water Bbls.      Gas-Oil Ratio      Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input checked="" type="checkbox"/> Other <i>(Specify)</i> <u>SWD</u>	PRODUCTION INTERVAL: <u>4399'to4468</u>
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	O'Brate - Gray 1-8
Doc ID	1103521

Tops

Anhy	1449'	+1420
B/Anhy	1465'	+1403
Heebner	4068'	-1200
Lansing	4120'	-1252
Stark	4449'	-1581
B/KC	4583'	-1715
Marmaton	4604'	-1736
Ft.Scott	4700'	-1832
St.Louis	4876'	-2008





CHARGE TO: American Warrior  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 N° 23461

PAGE 1 OF 2

1. SERVICE LOCATIONS	WELL/PROJECT NO. <u>1-8</u>	LEASE <u>Obrate-Gray</u>	COUNTY/PARISH <u>Gray</u>	STATE <u>KS</u>	CITY <u>Badin City</u>	DATE <u>6 Nov 12</u>	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Done</u>	RIG NAME NO. <u>5</u>	SHIPPED <u>ET</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>cement log string</u>	WELL PERMIT NO.	WELL LOCATION <u>8-24-30</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRX 114	80		mi		6.00	480.00
578		1			Pump Charge	1		ea		1500.00	1500.00
402		1			Centralizer	52	10	in	kg	70.00	700.00
403		1			Cement Basket	52	2	in	ea	250.00	500.00
404		1			Port Collar	53	1	in	ea	2400.00	2400.00
406		1			Latch down plug & hofyle	52	1	in	ea	250.00	250.00
419		1			Rotating head rental	53	1	in	ea	200.00	200.00
407		1			insert float shoe w/AUTO FILL	52	1	in	ea	350.00	350.00

**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 \_\_\_\_\_ TIME SIGNED 1400  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	6380.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					5719.25
WE UNDERSTOOD AND MET YOUR NEEDS?					12,099.25
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				Cr24 TAX 7.45%	673.20
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	12,772.45

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

SWIFT OPERATOR APB/ell

APPROVAL \_\_\_\_\_ **Thank You!**



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

TICKET CONTINUATION

TICKET No. **23461**

CUSTOMER **American Warrior** WELL **1-8** DATE **6 NOV 12** PAGE **2** OF **2**

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		UNIT PRICE	AMOUNT
		LOC	ACCT.	IDF			QTY	UNIT		
225		1				STANDARD cement (for 81-2)	175	SK	13.50	2362.50
284		1				calseal	800	lb	35.00	2800.00
283		1				salt	900	lb	0.20	180.00
292		1				hdd-322	125	lb	7.75	968.75
276		1				flocel	50	lb	2.00	100.00
290		1				D-AIR	2	gal	35.00	70.00
281		1				mudflush	500	gal	1.25	625.00
221		1				KCL flush liquid	2	gal	25.00	50.00
581		1				SERVICE CHARGE	175		2.00	350.00
583		1				MI LEAGE CHARGE	733		1.00	733.00

CONTINUATION TOTAL **5719.25**

JOB LOG

SWIFT Services, Inc.

DATE 15 Nov 12 PAGE NO.

CUSTOMER American Waste Well No. 1-B LEASE O'Brien - Gray JOB TYPE Cement port collar TICKET NO. 23461

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								1.75 sk slt w/ 1/2" flange 3/4" hole - 322
								15.5" 5/8" pipe, 11975 = 477752
								Sheet 21.1" 2 1/2" 1795' joint #70
								RFD 500 LTD-5203 Arky-1827'
								Conf, 1,3,4,5,6,7,9, 11,69,71 Product #2,70
								1 1/2 joints out
	0900							on loc TRK 114
	1005							start 5 1/2" 1/2" pipe in hole
	1223							Drop ball - circulate - ROTATE
	1245	43	12				200	Pump 500 gal mud flush
		43	20				200	Pump 20 (gal) KCL flush
	1254		7					Plug Rtt - Alt 30500 - 20500
	1258	49	<del>43</del> 36				200	mix SA-2 cement 10500 @ 15.3 ppm
	1309							wash out pump & line Drop latch down plug
	1312	63					200	Displace plug
		63	105				450	
	1330	63	113				1550	Land plug
	1334							Release pump to truck - dived up
	1340							wash up truck
								RACK UP
	1420							job complete
								By Jerry Danc & Blaine



CHARGE TO: American Warbler  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 No 23465

PAGE 1 OF 1

SERVICE LOCATIONS 1. Nuss City KS WELL/PROJECT NO. 1-8 LEASE OBRAE-CRAY COUNTY/PARISH GRAY STATE KS CITY Garden City DATE 13 NOV 12 OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR RIG NAME/NO. SHIPPED MACT DELIVERED TO Location ORDER NO.  
 3. WELL TYPE oil WELL CATEGORY Development CO TOOLS JOB PURPOSE cement port collar WELL PERMIT NO. WELL LOCATION 5-24-30  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	80	mi			6.00	480.00
576D		1			Pump Charge	1	pa			1250.00	1250.00
330		1			SMD cement	160	sk			16.50	2640.00
276		1			Flocele	50	lb			2.00	100.00
290		1			D-AIR	2	gal			35.00	70.00
104		1			PORT COLLAR TOOL Rental	1	pa			250.00	250.00
581		1			Service charge	200	sk			2.00	400.00
583		1			Drayage	19902	lb	796.08	TM	1.00	796.08

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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 TIME SIGNED  A.M.  P.M.  
11:00

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?				5986.08
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				
				Gray TAX 7.45% 227.97
				TOTAL 6214.05

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

SWIFT OPERATOR AC Bell APPROVAL

Thank You!

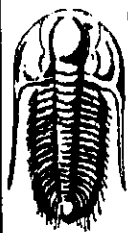


JOB LOG

SWIFT Services, Inc.

DATE 13 NOV 12 PAGE NO.

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TRICKY NO.	
American Warrior		1-8		ORATE-GRAY		Cement port collar		23465	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
									200 sk SMD w/ 1/4" floccle port collar - 1795 2 3/4 x 5 1/2
	0830								on loc TRK 114
	0900					1000	1000		test to 1000psi - hold
	0905	2	2			400			inj rate 2 bpm @ 400 psi
	0912	2 1/2				400			mix SMD cement @ 11.2 ppg fluid to surface → cement to surface ←  } 160 sks mixed 15 to pit }
		2 3/4	13			400			
		2 1/2	81			500			
		2 1/2	6			500			Displace 6 bbl H <sub>2</sub> O close port collar
	0913					1000	1000		test to 1000psi - hold
									Run 5 <del>Force</del> Joints
	1000		20						Reverse hole clean - 2 cement plugs -
	1100								wait on water
	1100								wash up truck
									RACK UP
	1130								job complete thanks
									ISAAC, TJ, DALE, & BLAKE



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior  
 3118 Cummings Rd.  
 P.O. Box 399  
 Garden City KS 67846  
 ATTN: Kevin Timson

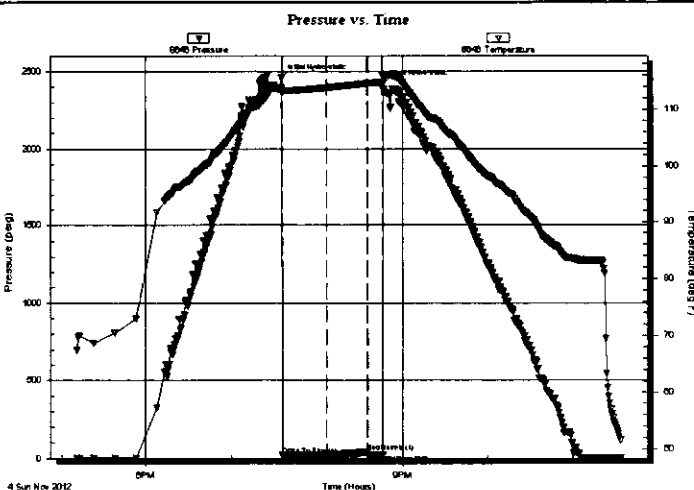
**8-24-30 Gray Co KS**  
**O Brate Gray 1 8**  
 Job Ticket: 49865      **DST#: 1**  
 Test Start: 2012.11.04 @ 17:11:15

## GENERAL INFORMATION:

Formation: **Marrow**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 19:35:45      Tester: Mike Roberts  
 Time Test Ended: 23:33:45      Unit No: 65  
 Interval: **4831.00 ft (KB) To 4864.00 ft (KB) (TVD)**      Reference Elevations: 2868.00 ft (KB)  
 Total Depth: 4864.00 ft (KB) (TVD)      2856.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Poor      KB to GR/CF: 12.00 ft

**Serial #: 8646      Inside**  
 Press@RunDepth: 23.57 psig @ 4832.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.11.04      End Date: 2012.11.04      Last Calib.: 2012.11.04  
 Start Time: 17:11:15      End Time: 23:33:45      Time On Btm: 2012.11.04 @ 19:35:15  
 Time Off Btm: 2012.11.04 @ 20:46:45

**TEST COMMENT:** IF:Weak surface blow died in 4 min.  
 IS:No return blow  
 FF:No blow  
 FS:PULLED Test



## PRESSURE SUMMARY

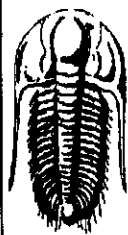
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2460.59	113.81	Initial Hydro-static
1	21.59	113.10	Open To Flow (1)
32	23.57	113.88	Shut-In(1)
60	42.01	114.62	End Shut-In(1)
61	24.59	114.64	Open To Flow (2)
71	24.77	114.92	End Shut-In(2)
72	2420.30	115.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud with oil spots	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior

**8-24-30 Gray Co KS**

3118 Cummings Rd.  
P.O. Box 399  
Garden City KS 67846  
ATTN: Kevin Timson

**O Brate Gray 1 8**  
Job Ticket: 49865      **DST#: 1**  
Test Start: 2012.11.04 @ 17:11:15

### Mud and Cushion Information

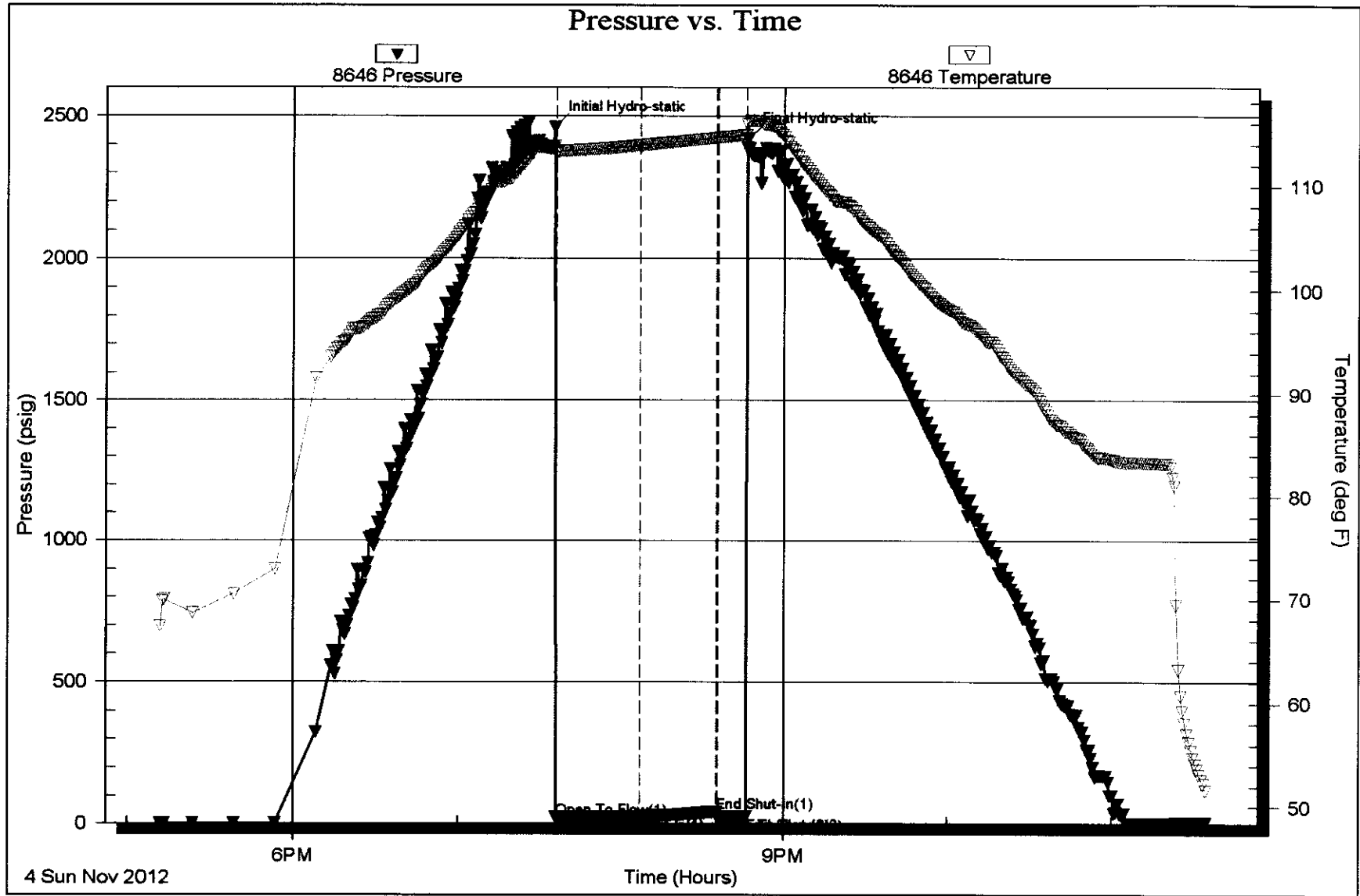
Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.76 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3100.00 ppm				
Filter Cake:	1.00 inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud with oil spots	0.025

Total Length:      5.00 ft      Total Volume:      0.025 bbl  
 Num Fluid Samples: 0      Num Gas Bombs:    0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



## **Geological Report**

American Warrior, Inc.

**O'Brate-Gray #1-8**

335' FSL & 845' FEL

Sec. 8, T24s, R30w

Gray County, Kansas



**American Warrior, Inc.**

### General Data

**Well Data:** American Warrior, Inc.  
O'Brate-Gray #1-8  
335' FSL & 845' FEL  
Sec. 8, T24s, R30w  
Gray County, Kansas  
API # 15-069-20403-0000

**Drilling Contractor:** Duke Drilling Co. Rig #5

**Geologist:** Kevin Timson

**Spud Date:** October 25, 2012

**Completion Date:** November 6, 2012

**Elevation** 2857' Ground Level  
2868' Kelly Bushing

**Directions:** From Southeast side of Garden City, KS at intersection of Hwy 50 and Pole Line Rd. Go 6 miles East on Pole Line Rd to 3 Rd. Now go 1 mile North on 3 Rd to C Rd. Go North across the intersection on 3 Rd. and immediately turn West into location.

**Casing:** #23 8 5/8" surface casing set @ 258' with 150 sacks Class A, 3% c.c, 2% gel. #15.5 5 1/2" production casing set @ 4777 with 125 sacks EA-2. Port collar set @ 1795.

**Samples:** 4000' to RTD 10' wet and dry,

**Drilling Time:** 4000' to RTD

**Electric Logs:** Pioneer "C. Desaire" Dual Compensated Porosity, Dual Induction, Microresistivity.

**Drillstem Tests:** One Trilobite Testing "Mike Roberts"

## Formation Tops

### Formation

Anhydrite

Base

Heebner

Lansing

Stark

BKc

Marmaton

Pawnee

Fort Scott

Cherokee

Atoka

Morrow

St. Gen

St. Louis

RTD

American Warrior, Inc.

O'Brate-Gray #1-8

Sec. 8, T24s, R30w

335' FSL & 845' FEL

1448' +1420

1465' +1403

4068' -1200

4120' -1252

4449' -1581

4583' -1715

4604' -1736

4677' -1809

4700' -1832

4717' -1849

4817' -1949

4848' -1980

4862' -1994

4876' -2008

5000' -2132

## Sample Zone Descriptions

**Morrow Sand (4848', -1983):** Covered in DST #1

Sandstone. Grey. Fine to medium grain. Poorly sorted rounded grains mixed in with angular grains. Good stain and good saturation. Good show of free oil. Slight to fair odor. 20 unit gas kick.

**St. Louis (4876', -2008):** Not Tested

Limestone. Tan. Sub to fine crystalline. Poor oolytic porosity. Barren. Slight to fair odor. 25 unit gas kick.

## Drill Stem Tests

Trilobite Testing Inc.

"Sam Esparza"

**DST #1**

### Morrow Sand

Interval (4831' - 4864') Anchor Length 33'

IHP - 2460 #

IFP - 30" - Weak surface blow died in 4 min 21-23 #

ISI - 30" - No Return 42 #

FFP - 10" - No Blow NA

FSIP - Pull tool - No Return NA

FHP - 2420 #

BHT - 120 ° F

Recovery: 5' Mud (spots of oil)



## Structural Comparison

Formation	American Warrior, Inc. O'Brate-Gray #1-8 Sec. 8, T24s, R30w 335' FSL & 845' FEL		American Warrior, Inc. Gates #8-16 Sec. 16, T24s, R30w 2300' FNL & 1750' FWL		American Warrior, Inc. Wehkamp #1-15 Sec. 15, T24s, R30w 394' FNL & 652' FWL	
Anhydrite	1448' +1420	NA	NA	NA	NA	NA
Base	1465' +1403	NA	NA	NA	NA	NA
Heebner	4068' -1200	4053' -1190	-10	4052' -1196	-4	-4
Lansing	4120' -1252	4111' -1248	-4	4101' -1245	-7	-7
Stark	4449' -1581	4435' -1572	-9	4424' -1568	-13	-13
BKC	4583' -1715	4568' -1705	-10	4573' -1717	+2	+2
Marmaton	4604' -1736	4586' -1723	-13	4597' -1741	+5	+5
Pawnee	4677' -1809	4660' -1797	-12	4670' -1814	+5	+5
Fort Scott	4700' -1832	4690' -1827	-5	4696' -1840	+8	+8
Cherokee	4717' -1849	4702' -1839	-10	4710' -1854	+6	+6
Atoka	4817' -1949	4804' -1941	-8	4801' -1945	+4	+4
Morrow	4848' -1980	4838' -1975	-5	4839' -1983	+3	+3
St. Gen	4862' -1994	4852' -1989	-5	NA	NA	NA
St. Louis	4876' -2008	4868' -2005	-3	NA	NA	NA