

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 4058  
 Name: American Warrior, Inc.  
 Address 1: PO Box 399  
 Address 2: \_\_\_\_\_  
 City: Garden City State: KS Zip: 67846 + 0399  
 Contact Person: Scott Corsair  
 Phone: (785) 398-2270  
 CONTRACTOR: License # 33323  
 Name: Petromark Drilling, LLC  
 Wellsite Geologist: Jason Alm  
 Purchaser: NCRA  
 Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
 (Core, WSW, Expl., Cathodic, etc.)

**RECEIVED**  
**JAN 25 2010**  
**KCC WICHITA**

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  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled Docket No.: \_\_\_\_\_  
 Dual Completion Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  
07/28/2009 08/05/2009 09/29/2009  
 Spud Date or Date Reached TD Completion Date or  
 Recompletion Date Recompletion Date

API No. 15 - 135-24937-0000  
 Spot Description: \_\_\_\_\_  
 NW SE SE SW Sec. 23 Twp. 19 S. R. 22  East  West  
640 Feet from  North /  South Line of Section  
2100 Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
 County: Ness  
 Lease Name: O'Brate Well #: 3  
 Field Name: Schaben  
 Producing Formation: Mississippian  
 Elevation: Ground: 2228' Kelly Bushing: 2234'  
 Total Depth: 4375' Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at: 223 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set: 1461 Feet  
 If Alternate II completion, cement circulated from: 1461  
 feet depth to: Surface w/ 160 *Alt 2 - Dlg - 1/27/10* <sup>sx cmt</sup>

**Drilling Fluid Management Plan**  
 (Data must be collected from the Reserve Pit)  
 Chloride content: 43,000 ppm Fluid volume: 250 bbls  
 Dewatering method used: evaporate  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**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.

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: \_\_\_\_\_  
 Title: Petroleum Engineer Date: 01/15/2010  
 Subscribed and sworn to before me this 15th day of January  
20 10  
 Notary Public: Denise Corsair  
 Date Commission Expires: 8-15-12

NOTARY PUBLIC - State of Kansas  
 DENISE CORSAIR  
 My Appt. Exp. 8-15-12

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: American Warrior, Inc. Lease Name: O'Brate Well #: 3  
 Sec. 23 Twp. 19 S. R. 22  East  West County: Ness

**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 copy of all Electric Wireline 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 type="checkbox"/> Yes <input checked="" 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 <i>(Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction, Dual Compensated Porosity</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1474</td> <td>+760</td> </tr> <tr> <td>Heebner</td> <td>3698</td> <td>-1464</td> </tr> <tr> <td>Lansing</td> <td>3743</td> <td>-1509</td> </tr> <tr> <td>BKC</td> <td>4089</td> <td>-1855</td> </tr> <tr> <td>Ft. Scott</td> <td>4250</td> <td>-2016</td> </tr> <tr> <td>Cherokee</td> <td>4270</td> <td>-2036</td> </tr> <tr> <td>Mississippian</td> <td>4356</td> <td>-2122</td> </tr> </table>	Name	Top	Datum	Anhydrite	1474	+760	Heebner	3698	-1464	Lansing	3743	-1509	BKC	4089	-1855	Ft. Scott	4250	-2016	Cherokee	4270	-2036	Mississippian	4356	-2122
Name	Top	Datum																							
Anhydrite	1474	+760																							
Heebner	3698	-1464																							
Lansing	3743	-1509																							
BKC	4089	-1855																							
Ft. Scott	4250	-2016																							
Cherokee	4270	-2036																							
Mississippian	4356	-2122																							

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	223'	Common	150	2% gel 3% CC
Production	7 7/8"	5 1/2"	15.5	4374'	EA-2	165	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Surface-1461'	SMD	160	

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	4365-75'		

TUBING RECORD:	Size: 2 3/8"	Set At: 4364'	Packer At: NA	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 09/29/2009		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. 30	Gas Mcf	Water Bbls. 2	Gas-Oil Ratio 40

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 4365-75' Perf
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CHARGE TO: AMERICAN WAREHOUSE INC.  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 No 16559

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Ness City, KS  
 2.  
 3.  
 4.

WELL/PROJECT NO. "3" LEASE O'BRYEN COUNTY/PARISH Ness STATE KS CITY DATE 8-5-09 OWNER SAME

TICKET TYPE  SERVICE  SALES CONTRACTOR PETROMARK DRILL "1" RIG NAME/NO. SHIPPED VIA GT DELIVERED TO LOUNTON ORDER NO.

WELL TYPE OIL WELL CATEGORY DEV-1000102 JOB PURPOSE 5 1/2" LONG-TRAVEL WELL PERMIT NO. WELL LOCATION BAZENEYS - 5S 1 1/2 W, N 2nd

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE " 111	20		MI		5.00	100.00
578		1			PUMP CHARGE	1		JOB	4375 FT	14.00	14.00
221		1			LIQUID KCL	2		GAL		25.00	50.00
231		1			MUD FLOSH	500		GAL		1.00	500.00
1102		1			CENTRALIZERS	5		EA	5 1/2"	55.00	275.00
403		1			CEMENT BASKETS	2		EA		180.00	360.00
404		1			PORT COLLAR TOP JI # 70	1		EA	1461 FT	1900.00	1900.00
406		1			LATCH DOWN PLUG - RATCH	1		EA		225.00	225.00
407		1			INSERT FLOW SHOE W/AUTO FALL	1		EA		275.00	275.00
419		1			ROTATING HEAD RENTAL	1		JOB		150.00	150.00

RECEIVED

**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 [Signature]  
 DATE SIGNED 8-5-09 TIME SIGNED 2345  A.M.  P.M.

REMIT PAYMENT TO JAN 25 2010  
**KCC WICHITA**  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1	5235.00
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	3565.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR Wade Watson APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 16559

CUSTOMER: AMERICAN WAREHOUSE INC. WELL OR RATE " 3 DATE: 8-5-09 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		QTY		UNIT PRICE	AMOUNT
		DOC	ACCT	DF			NUM	UM	NUM	UM		
325		1				STANDARD CEMENT EA-2	165	SKS			11.00	1815.00
276		1				FLOCELE	41	LBS			1.50	61.50
283		1				SALT	850	LBS			.15	127.50
284		1				CAISEAL	8	SKS	800	LBS	30.00	240.00
292		1				HAUD-322	116	LBS			6.50	754.00
290		1				D-AR	2	GM			35.00	70.00
581		1				SERVICE CHARGE					1.50	247.50
582		1				MILEAGE CHARGE					250.00	250.00

TOTAL WEIGHT 17317 LOADED MILES 20

CUBIC FEET 165 TON MILES 173.17

CONTINUATION TOTAL 3565.50

**JOB LOG**

**SWIFT Services, Inc.**

DATE 8-5-09 PAGE NO.

CUSTOMER AMERICAN WARRIOR INC. WELL NO. #3 LEASE O'BRYEN JOB TYPE 5/2" LONGSTRING TICKET NO. 16559

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2345							ON LOCATION
	0100							START 5/2" CASING IN WELL
								TD- 4375' SET = 4374
								TP- 4377' 5/2" 15.5
								SJ- 42'
								CORNER 12' BS- 1, 2, 3, 4, 69
								CMT BSKTS- 5, 70
								PORT COLLAR = 1461 TOP IT # 70
	0245							DROP BALL - CIRCULATE ROTATE
	0323	6	12			✓	450	PUMP 500 GAL MUD FLUSH
	0325	6	20			✓	450	PUMP 20 BBLs KCL-FLUSH
	0330		7					PLUG RH (30' r.)
	0335	4 1/2	33			✓	250	MIX CMNT - 135 SPS EA-2 = 15.5 PPG
	0342							WASH OUT PUMP - LEVES
	0343							RELEASE LATCH DOWN PLUG
	0345	7	0			✓		DISPLACE PLUG
	0400	6 1/2	103.2				1500	PLUG DOWN - PSE UP LATCH IN PLUG
	0402						OK	RELEASE PSE- HEAD
								WASH TRUCK
	0500							JOB COMPLETE

THANK YOU  
WAYNE, BRETT, DAVE K.



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

TICKET  
 No 15991

PAGE 1 OF

SERVICE LOCATIONS  
 1. *Hays, KS* WELL/PROJECT NO. *#3* LEASE *Orbite* COUNTY/PARISH *Ness* STATE *KS* CITY DATE *7-28-09* OWNER  
 2. *Ness, KS* TICKET TYPE  SERVICE CONTRAGTOR *Ketico Mark* RIG NAME/NO. SHIPPED VIA *OT* DELIVERED TO *S/Bazins, KS* ORDER NO.  
 3. WELL TYPE *Oil* WELL CATEGORY *In field* JOB PURPOSE *Cement Surface Casings* WELL PERMIT NO. WELL LOCATION  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	25				500	125.00
576 S		1			Pump Charge - Shallow Surface	1	ft	312		750.00	750.00
290		1			D-Air	2	gal			35.00	70.00
410		1			Top Plug	1	pc	8 1/2 in		100.00	100.00
325		2			Standard Cement	150	SKs	141.00	lbs	11.00	1650.00
279		2			Gal	3	SKs	300	lbs	20.00	60.00
278		2			Calcium Chloride	5	SKs	360	lbs	35.00	175.00
91		2			Service Charge - Cement	150	SKs			1.50	225.00
583		2			Drayage	184.5	Tm	14760	lbs	1.00	184.50

**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 *Kenneth G. Rouch*  
 DATE SIGNED *7-28-09* TIME SIGNED *0830*  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	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	3339.50
TAX	
TOTAL	

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

SWIFT OPERATOR *Alan Lemmon* APPROVAL

Thank You!

**JOB LOG**

**SWIFT Services, Inc.**

DATE 7-28-79 PAGE NO. 7

CUSTOMER American Water, Inc

WELL NO. #3

LEASE O'Brien

JOB TYPE Cement Surface

TICKET NO. 15991

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Called @ 0905
	0640							In location - Rig just hook up Head
								Put on Swift Head - Set up bit
	0650							Start circ casing 23 1/4 set @ 21 1/4
								TP 225' leave 20' in casing
	0710							Fin circ. - chain down casing
	0715	4 1/2					720	Start cement 150 sks Standard
								2% gel, 3% cc
								Fin mixing cement
		4 1/2					720 700	Release Plug - Start Displ.
	0730							Fin Displ - 40 sks circ to pit
								Close in at Plug Cont.
								Release psi - Wash up
								+ Pack up
	0830							Job Complete
								Thank
								Alan, Doug & Dave



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

TICKET  
 No 16979

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City, KS</u>	WELL/PROJECT NO. <u>3</u>	LEASE <u>O'Brate</u>	COUNTY/PARISH <u>Ness</u>	STATE <u>KS</u>	CITY <u>Ness City</u>	DATE <u>8-17-09</u>	OWNER
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input checked="" type="checkbox"/> SALES	CONTRACTOR <u>H-D Oilfield</u>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO <u>Barric</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement Port Collar</u>	WELL PERMIT NO.	WELL LOCATION <u>Barric SS 1 3/4 W Nimb</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE Trk # 114	30	mi	5	20	100
5760		1			Pump Charge Port Collars	1	ea	1100	00	1100
581		1			Service Charge Cement	175	lbs	1	50	262
582		1			Minimum Drillage	1	ea	250	00	250
230		1			Surf Mulfon-Density Standard	160	cks	14	00	2240
276		1			Flocake	44	lbs	1	50	66
290		1			D-Air	2	gal	35	00	70
105		1			Port Collar tool w/man	1	ea	300	00	300

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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 8-17 TIME SIGNED 1:00  P.M.  A.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	4388.50
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND.					

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 8-17-09 PAGE NO. 1

CUSTOMER American Heritage WELL NO. 3 LEASE O'Brate JOB TYPE Cement Port Collar TICKET NO. 16979

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	S	TUBING	CASING	
								7 3/4 x 5 1/2 PC @ 1461
	1330							On Location Rig up
	1400				✓		1006	Pressure Test - Held
	1405	3 1/2			✓		300	Open Tool - Take Injection Rate
	1410	4			✓		300	start cement 11.2 ppg
		4	2		✓		300	Circulation
		4	73		✓		450	Cement to Surface
		4	77.5		✓		450	Heavy up Cement 14.0 ppg
								Shut Down - Close Tool
					✓		1006	Pressure test
								Run 4 Tfs
		3	20		✓		300	Reverse Clean
								Pull Tool
								Wash Truck
	1330							Job Complete
								Thank you Scott, Dave, Jason

P. O. Box 763  
Hays, Kansas 67601



# Discovery Drilling

Office 785/623-2920  
Cellular 785/635-1511  
Rig 785/635-1201

## Pipe and Tubing Tally Book

DATE 8-5-09 COMPANY AWI LEASE O'Brate Well No. 3  
 SIZE 5 1/2 WEIGHT 15.5 MAKE Sunrise GRADE J-55 RANGE 3  
 THREAD 8 RD COLLAR LENGTH LTC CONDITION New L S TRANSFER NOS. L APT OVERALL TALLY   
 THREADS OFF TALLY

Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	Joint No.	Feet	Hnd	
Q	42	14	21	42	14	41	42	15	61	40	-	81	41	07	101	42	82	121			141			
Q	42	14	22	42	14	42	41	38	62	41	-	82	41	-	102	41	06	122			142			
Q	42	10	23	42	12	43	42	13	63	34	80	83	42	15	103	42	18	123			143			
Q	42	14	24	42	13	44	42	17	64	40	40	84	42	85	104	42	99	124			144			
5	42	14	25	42	15	45	42	18	65	34	53	85	42	90	105	43	96	125			145			
6	42	15	26	42	15	46	41	30	66	40	52	86	42	11	106	42	13	126			146			
7	42	15	27	42	14	47	42	15	67	41	05	87	41	07	107	44	60	127			147			
8	42	17	28	42	15	48	42	12	68	40	03	88	44	55	108	42	18	128			148			
9	42	18	29	42	15	49	42	17	69	42	84	89	42	15	109	19	90	129			149			
10	42	14	30	42	12	50	41	97	70	41	06	90	44	51	110	19	96	130			150			
11	42	15	31	42	15	51	42	12	71	42	15	91	41	02	111	19	81	131			151			
12	42	14	32	42	18	52	42	15	72	42	16	92	41	07	112			132			152			
13	42	14	33	42	15	53	42	15	73	42	15	93	42	18	113			133			153			
14	42	15	34	42	16	54	42	15	74	42	17	94	41	07	114			134			154			
15	42	14	35	42	14	55	42	11	75	42	17	95	36	02	115			135			155			
16	42	15	36	42	15	56	42	10	76	42	18	96	35	25	116			136			156			
17	42	15	37	42	17	57	42	14	77	41	02	97	42	18	117			137			157			
18	42	18	38	41	29	58	42	15	78	42	18	98	40	04	118			138			158			
19	42	10	39	42	12	59	33	53	79	38	23	99	43	90	119			139			159			
20	42	15	40	42	15	60	41	09	80	42	15	100	42	18	120			140			160			
	842	90		842	54		831	21		813	31		829	27		401	54				4560	82		
																775.08	252.87		Totals		4373		87	

Drillers TD 4375 Loggers TD 4375  
 No. Jts. Run 106 Size 5 1/2 Wt. 15.5 Tested 4400  
 Cent @ (1) 4332 (2) 4290 (3) 4248 (4) 4205 (69) 1502  
 Basket @ (5) 4204 (20) 1501 D.V. Tool @ Port Collar @ (20) 1461  
 Cemented By Swift SKs. Type Cement 165 FA-2  
 Flush 500 gallon mud flush 20 bbls 2 1/2 KCL water  
 Jts. To Be Left Out (79) 3823 (106) 42-13 (107) 44.60 (108) 42-18 111 19.81  
 Shoe Jt (1) 42.14 Pipe Set @ 4374 Off Bottom 1'  
 Plug Down 4:00 (A.M.) P.M. 8:15 10:19 Rig Release @ A.M. P.M. 1 1  
 Job By Scott CORSAIR  
 Pipe Left On Location 5 Jts Jts. Talley                      Threads On

**SCOTT CORSAIR**  
**PETROLEUM ENGINEER #14980**

210 W Avenue A P.O. Box 6  
Bazine, Ks 67516  
785-398-2270 Mobile 785-731-5060  
Mobile 785-398-1708 FAX 785-398-2586

**COMPLETION REPORT**

RECEIVED  
JAN 25 2010  
KCC WICHITA

**AMERICAN WARRIOR, INC.**

O'Brate 3  
640' FSL & 2100' FWL  
Section 23-19S-22W  
Ness County, KS  
API # 15-135-24937

# COMPLETION REPORT

## AMERICAN WARRIOR, INC.

O'Brate 3  
640' FSL & 2100' FWL  
Section 23-19S-22W  
Ness County, KS  
API # 15-135-24937

### July 4, 2009:

Petromark Rig #1 ran 106 joints of new 15.5# 5 1/2" casing. Set @ 4374', 1' off bottom of LTD. Swift Services, Inc. cemented with 165 sacks of EA-2. Ran 500 gallons of mud flush and 20 bbls of 2% KCL water ahead of cement. Centralizers were installed on Joints: 1, 2, 3, 4 & 69. Baskets were installed on Joint: 5 & 70. Port Collar was installed on Joint: 70 @ 1461'. Pipe tally is attached.

### August 14, 2009:

Rig up H-D Rig 2. Run in with port collar and locate Port Collar @ 1461'. Rig up Swift Services and cement with 160 sacks SMD, circulate 20 sacks to pit. Circulate clean, pull port collar tool and tubing out. Rig off.

### August 25, 2009:

Rig up H-D Rig 11. Run in with bit and tag plug @ 4332'. Shut down.

### August 26, 2009:

Drill shoe joint down to 4375'. Pull bit out of hole. Top casing off with salt water. Rig up Perf-Tech and ran Dual Receiver Cement Bond Log. Top of cement @ 3355', bond looks good. TD @ 4375.5'. Swab casing to TD. H-D water truck dumped 20 bbls of lease crude down casing. Rig up Perf-Tech and perforate 4273-4281' SPF, 39 gram expendable gun. Check fluid @ 2800' down. Run in with casing swab and swab down to 4250', shut down.

### August 27, 2009:

Check fluid @ 4200' down, kicked in 50' overnight. Run in with 1 joint of tail pipe, packer and 2 3/8ths tubing. Sub in to 1' off of bottom and spot acid. Pull up and set packer @ 4230'. Treat with 500 gallons of MOD 202. Maximum rate 4 BPM @ 1450 psi. ISIP was 500 psi, vacuum in 7 minutes. Let sit for 1 hour. Fluid level @ 1000' down. Swab back 20.5 bbls of 28 bbls load, last hour was 1.16 bbls @ 99% oil. Shut down.

### August 28, 2009:

Check fluid @ 4000' down, kicked in 300' all oil. Swab load back. Pull packer and rig up Perf-Tech and perforate 4365-75', 4 SPF, 39 gram expendable gun. Rig up casing swab and tag fluid @ 3600', swab down and test, last hour 25' @ 99% oil. Shut down. Run in with packer and set @ 4325'. Fluid level @ 4150', unset packer. Shut down

# COMPLETION REPORT AMERICAN WARRIOR, INC.

O'Brate 3  
640' FSL & 2100' FWL  
Section 23-19S-22W  
Ness County, KS  
API # 15-135-24937

## August 31, 2009:

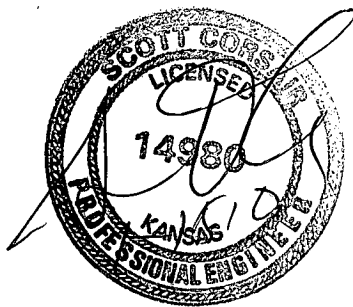
Check fluid @ 3600' down, kicked in 550' over the weekend. 150' of oil on top. Set packer @ 4325' and swab test. Kicking in 60' of fluid every 30 minutes, all oil. Released packer and sub into bottom. Rig up Swift and spot acid, pull up and set packer @ 4325'. Treat with 350 gallons of 20% DSFE, heated. Stage in 2 bbls starting @ 500 psi and working up to 1300 psi. Acid feeding @ 1300 psi. Maximum rate was 3/4 BPM @ 1750 psi. ISIP was 1650 psi, 300 psi in 30 minutes, vacuum in 50 minutes. 26 bbl load. Wait 1 hour, fluid @ surface. Swab back 28 3/4 bbls. Last hour was 4.06 bbls @ 90% oil. Unset packer. Shut down.

## September 1, 2009:

Check fluid @ 3450' down, with 875" of oil. Kicked Pull packer out and run in with mud anchor, seating nipple and 139 joints of new 2 3/8ths tubing. Sub in to bottom, tag fluid @ 3500' and swab down to 4000'. Swab test with average rate of 4.64 BPH @ 99% oil. Land tubing 11' off of bottom. Star in with new 2 X 1 1/2 X 12 pump and 173 new grade D 3/4 rods. Loaded tubing and longstroked, pumped good. Clamped off polished rod and rig off.

## September 29, 2009:

Fritzler Trucking moved Lufkin 114 from gas plant to location and set unit. Trenched in leadline and hooked. Well pumping.



Respectfully Submitted,

Scott Corsair, P.E.

# Geological Report

American Warrior, Inc.  
**O'Brate #3**  
640' FSL & 2100' FWL  
Sec. 23 T19s R22w  
Ness County, Kansas

RECEIVED

JAN 25 2010

KCC WICHITA



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
O'Brate #3  
640' FSL & 2100' FWL  
Sec. 23 T19s R22w  
Ness County, Kansas  
API # 15-135-24937-0000

Drilling Contractor: Petromark Drilling, LLC Rig #1

Geologist: Jason Alm

Spud Date: July 28, 2009

Completion Date: August 5, 2009

Elevation: 2228' Ground Level  
2234' Kelly Bushing

Directions: Bazine KS, from south side of town, South on DD  
rd. to 80 rd. West on 80 1.5 mi. North into Location.

Casing: 225' 8 5/8" surface casing  
4374' 5 1/2" production casing

Samples: 10' wet and dry, 3600' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Log-Tech, Inc. "Brett Becker"  
CNL/CDL, DIL

Drillstem Tests: Two, Trilobite Testing, Inc. "Ray Schwager"

Problems: None

Remarks: None

## Formation Tops

<b>Formation</b>	<b>American Warrior, Inc. O'Brate #3 Sec. 23 T19s R22w 640' FSL &amp; 2100' FWL</b>
Anhydrite	1474', +760
Base	1510', +724
Heebner	3698', -1464
Lansing	3743', -1509
BKc	4089', -1855
Pawnee	4171', -1937
Fort Scott	4250', -2016
Cherokee	4270', -2036
Mississippian	4356', -2122
RTD	4375', -2141
LTD	4375', -2141

## Sample Zone Descriptions

- Fort Scott (4250', -2016): Not Tested**  
 Ls – Fine crystalline with pinpoint inter-crystalline porosity, light brown oil stain porosity, no visual saturation, no show of free oil, no odor, mostly dense, fair to good yellow cut fluorescents, 60 units hotwire.
- Cherokee Sand (4274', -2040): Covered in DST #1**  
 SS – Quartz, fine to medium grained, poorly cemented, sub-rounded, well sorted, friable with fair to good inter-granular porosity, light to fair scattered oil stain and saturation, show of free oil when broken, light yellow cut fluorescents, 37 units hotwire.
- Mississippian Osage (4318', -2101): Covered in DST #2**  
 Dolo –  $\Delta$  – Fine sucrosic crystalline with poor vuggy porosity, heavy chert, triptolitic, weathered with pinpoint vuggy porosity, light to heavy oil stain and saturation, show of free oil, good odor, bright yellow cut fluorescents, 47-58 units hotwire.



**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Ray Schwager"

**DST #1**

**Cherokee Sand**

Interval (4267' - 4287') Anchor Length 20'

IHP	- 2126 #	
IFP	- 30" - Built to 1/4 in.	16-32 #
ISI	- 30" - Dead	240 #
FFP	- 15" - W.S.B.	35-39 #
FHP	- 2082 #	
BHT	- 116°F	

Recovery: 25' Mud w/ show of oil

**DST #2**

**Mississippian Osage**

Interval (4362' - 4375') Anchor Length 13'

IHP	- 2155 #	
IFP	- 45" - Built to 3¼ in.	18-66 #
ISI	- 45" - Dead	1086 #
FFP	- 45" - Built to 3¼ in.	70-83 #
FSI	- 45" - W.S.B.	1050 #
FHP	- 2131 #	
BHT	- 124°F	

Recovery: 265' GIP  
45' Clean Oil  
60' HOGCM 40% Oil  
60' OGCMW 10% Oil, 55% Water  
Chlorides: 21,000 ppm

## Structural Comparison

	American Warrior, Inc. O'Brate #3 Sec. 23 T19s R22w 640' FSL & 2100' FWL	American Warrior, Inc. O'Brate #1 Sec. 23 T19s R22w 460' FSL & 1540' FWL		Mid-Continent Res. Gillig #4-23 Sec. 23 T19s R22w 600' FSL & 2310' FEL	
<b>Formation</b>					
Anhydrite	1474', +760	1470', +760	(FL)	1478', +767	(-7)
Base	1510', +724	NA	NA	NA	NA
Heebner	3698', -1464	3692', -1462	(-2)	3707', -1462	(-2)
Lansing	3743', -1509	3740', -1510	(+1)	3752', -1507	(-2)
BKc	4089', -1855	4085', -1855	(FL)	NA	NA
Pawnee	4171', -1937	4166', -1936	(-1)	NA	NA
Fort Scott	4250', -2016	4244', -2014	(-2)	4259', -2014	(-2)
Cherokee	4270', -2036	4264', -2034	(-2)	4280', -2035	(-1)
Mississippian	4356', -2122	4341', -2111	(-11)	4353', -2108	(-14)

### Summary

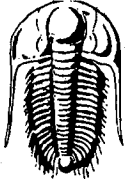
The location for the O'Brate #3 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted one of which recovered commercial amounts of oil from the Mississippian Formation. After all gathered data had thoroughly examined the decision was made to run 5½ inch production casing to further evaluate the O'Brate #3 well.

### Recommended Perforations

<b>Primary:</b>		
<b>Mississippian:</b>	( 4356' – 4372' )	DST #2
<b>Secondary:</b>		
<b>Fort Scott:</b>	( 4254' – 4265' )	Not Tested
<b>Before Abandonment:</b>		
<b>Cherokee Sand:</b>	( 4274' – 4280' )	DST #1

Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 35405

Well Name & No. O'brade #3 Test No. 1 Date 8-3-09  
 Company AMERICAN WARRIOR INC Elevation 2234 KB 2228 GL  
 Address P.O. Box 399 GARDEN CITY, KS 67846  
 Co. Rep / Geo. JASON ALM Rig PETROMARKING 1  
 Location: Sec. 23 Twp. 19<sup>s</sup> Rge. 22<sup>w</sup> Co. Ne55 State Ks

Interval Tested 4267-4287 Zone Tested CLER 5d.  
 Anchor Length 20 Drill Pipe Run 4135 Mud Wt. 9.4  
 Top Packer Depth 4262 Drill Collars Run 120 Vis 52  
 Bottom Packer Depth 4267 Wt. Pipe Run - WL 10.8  
 Total Depth 4287 Chlorides 5800 ppm System LCM -  
 Blow Description IFP - WEAK BLOW THRU-OUT SURFACE TO 1/4" BLOW  
FFP - SURFACE BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>Mud</u>				
	<u>u/show of oil</u>				

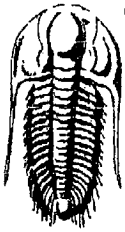
Rec Total 25 BHT 115 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2069</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>1015</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>1059</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1335</u>
(D) Initial Shut-In <u>240</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1445</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1627</u>
(F) Second Final Flow <u>38</u>	<input checked="" type="checkbox"/> Mileage <u>114 RT</u>	Comments _____
(G) Final Shut-In <u>-</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2037</u>	<input type="checkbox"/> Straddle	_____
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total _____
	<input type="checkbox"/> Accessibility	Total _____
	Sub Total _____	

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER Thank you

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.

KCC WICHITA  
 JAN 25 2010  
 RECEIVED



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
 P O Box 399  
 Garden City Ks 67846  
 ATTN: Cecil O'Brate

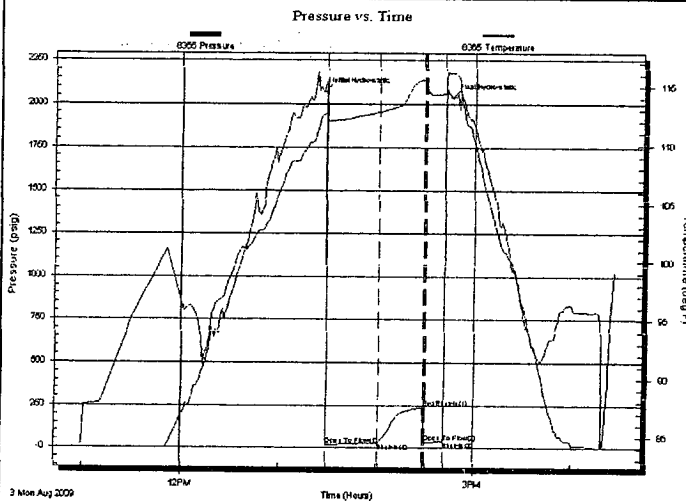
O'Brate #3  
 23-19s-22w Ness  
 Job Ticket: 35405      DST#: 1  
 Test Start: 2009.08.03 @ 10:59:21

## GENERAL INFORMATION:

Formation: **Cher Sd**  
 Deviated: **No Whipstock**      ft (KB)  
 Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **13:29:16**  
 Tester: **Ray Schwager**  
 Time Test Ended: **16:27:15**  
 Unit No: **42**  
 Interval: **4267.00 ft (KB) To 4287.00 ft (KB) (TVD)**  
 Reference Elevations: **2234.00 ft (KB)**  
**2228.00 ft (CF)**  
 Total Depth: **4287.00 ft (KB) (TVD)**  
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**  
 KB to GR/CF: **6.00 ft**

**Serial #: 8365**      Inside  
 Press@RunDepth: **31.53 psig @ 4268.01 ft (KB)**      Capacity: **7000.00 psig**  
 Start Date: **2009.08.03**      End Date: **2009.08.03**      Last Calib.: **2009.08.03**  
 Start Time: **10:59:21**      End Time: **16:27:15**      Time On Btm: **2009.08.03 @ 13:26:46**  
 Time Off Btm: **2009.08.03 @ 14:45:16**

TEST COMMENT: **IFP-wk bl thru-out surface to 1/4"bl**  
**FFP-surface bl**  
**Times 30-30-10-out**



## PRESSURE SUMMARY

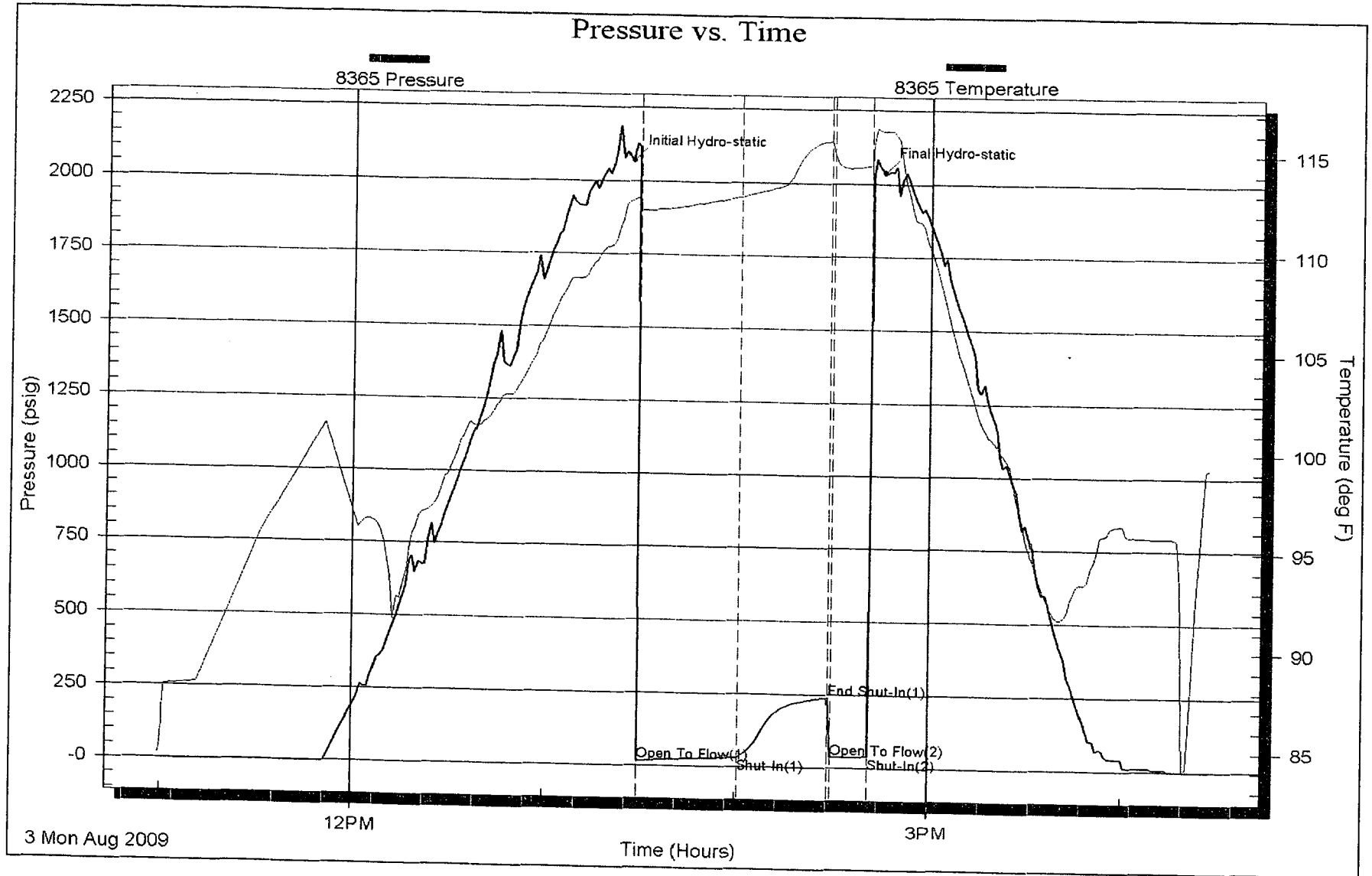
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2069.15	112.54	Initial Hydro-static
3	15.50	111.99	Open To Flow (1)
34	31.53	112.81	Shut-In(1)
62	240.18	115.61	End Shut-In(1)
63	35.20	114.97	Open To Flow (2)
75	38.60	114.41	Shut-In(2)
79	2037.34	116.14	Final Hydro-static

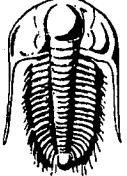
## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud w/show of oil	0.12

## Gas Rates

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





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 35406

10/08

Well Name & No. O'BRATE #3 Test No. 2 Date 8-4-09  
 Company AMERICAN WARRIOR TAC Elevation 2234 KB 2228 GL  
 Address P.O. Box 399 Garden City, Ks 67846  
 Co. Rep / Geo. JASON ALM Rig P-TROMARK rig 1  
 Location: Sec. 23 Twp. 19<sup>s</sup> Rge. 22<sup>w</sup> Co. NESS State Ks

Interval Tested 4362-4375 Zone Tested MISS  
 Anchor Length 13 Drill Pipe Run 4232 Mud Wt. 9.4  
 Top Packer Depth 4357 Drill Collars Run 120 Vis 52  
 Bottom Packer Depth 4362 Wt. Pipe Run - WL 10.8  
 Total Depth 4375 Chlorides 5800 ppm System LCM -  
 Blow Description I FP - WEAK TO A FAIR BLOW 1/4" TO 3/4" BLOW  
FFP - WEAK BLOW THROUGH 1/2" TO 2 3/4" BLOW  
ISIP - NO BLOW  
FSIP - SURFACE BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>265</u>	<u>GI P</u>				
<u>45</u>	<u>CO</u>				
<u>60</u>	<u>HO + GCM</u>	<u>10</u>	<u>40</u>	<u>50</u>	<u>50</u>
<u>60</u>	<u>CO + GCMW</u>	<u>10</u>	<u>10</u>	<u>55</u>	<u>25</u>

Rec Total 165 BHT 125 Gravity 43 API RW .3 @ 75 °F Chlorides 21000 ppm

(A) Initial Hydrostatic 2105  Test 0500  
 (B) First Initial Flow 17  Jars 0546  
 (C) First Final Flow 65  Safety Joint 0830  
 (D) Initial Shut-In 1086  Circ Sub 1130  
 (E) Second Initial Flow 69  Hourly Standby 1344  
 (F) Second Final Flow 82  Mileage \_\_\_\_\_  
 (G) Final Shut-In 1050  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2081  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Total \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER 904 THANK  
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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
P O Box 399  
Garden City Ks 67846  
  
ATTN: Cecil O'Brate

**O'Brate #3**  
**23-19s-22w Ness**  
Job Ticket: 35406      **DST#: 2**  
Test Start: 2009.08.04 @ 05:47:01

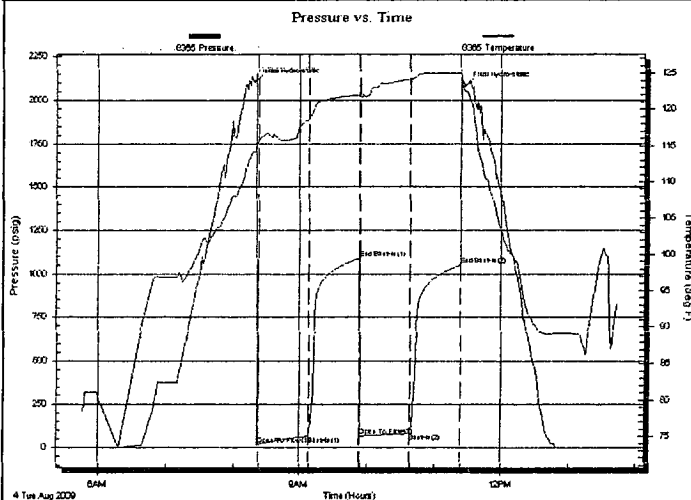
## GENERAL INFORMATION:

Formation: Miss  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 08:22:26  
Time Test Ended: 13:44:25  
  
Interval: 4362.00 ft (KB) To 4375.00 ft (KB) (TVD)  
Total Depth: 4375.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches      Hole Condition: Fair

Test Type: Conventional Bottom Hole  
Tester: Ray Schwager  
Unit No: 42  
  
Reference Elevations: 2234.00 ft (KB)  
2228.00 ft (CF)  
KB to GR/CF: 6.00 ft

**Serial #: 8365**      Inside  
Press@RunDepth: 82.93 psig @ 4363.01 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2009.08.04      End Date: 2009.08.04      Last Calib.: 2009.08.04  
Start Time: 05:47:01      End Time: 13:44:25      Time On Btm: 2009.08.04 @ 08:19:26  
Time Off Btm: 2009.08.04 @ 11:27:25

**TEST COMMENT:** IFF-w k to a fr bl 1/4" to 3 1/4" bl  
FFP-w k bl thru-out 1/2" to 2 3/4" bl  
Times 45-45-45  
ISIP-no bl, FSIP-surface bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2105.77	114.16	Initial Hydro-static
3	17.98	115.17	Open To Flow (1)
49	65.81	118.72	Shut-In(1)
94	1086.44	121.98	End Shut-In(1)
95	69.74	121.64	Open To Flow (2)
138	82.93	124.16	Shut-In(2)
184	1050.16	124.95	End Shut-In(2)
188	2081.82	122.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	O&GCMW 10%G10%O25%M55%W	0.30
60.00	HO&GCM 10%G40%O50%M	0.30
45.00	CO	0.63
0.00	265'GIP	0.00

## Gas Rates

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

