



KANSAS CORPORATION COMMISSION 1156246
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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

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 #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____ Date: _____



1156246

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Shank 4-11
Doc ID	1156246

Tops

Name	Top	Datum
Anhydrite	1459	796
Heebner	3771	-1516
Lansing	3816	-1561
Base Kansas City	4154	-1899
Pawnee	4281	-2026
Ft. Scott	4313	-2058
Cherokee	4334	-2079
Mississippian	4391	-2136
TD	4413	-2158

ALLIED OIL & GAS SERVICES, LLC 060576

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend

DATE <u>7-10-13</u>	SEC. <u>11</u>	TWP. <u>20</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00 AM</u>	JOB FINISH <u>12:30 AM</u>
LEASE <u>Shank</u>	WELL # <u>H-11</u>	LOCATION <u>East Bazine to Htl Rd</u>			COUNTY <u>Miss</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>Sto Pig Rd</u>				

CONTRACTOR Dynamik Drilling
 TYPE OF JOB Surface
 HOLE SIZE 17 1/2 T.D.
 CASING SIZE 8 3/8 DEPTH 223.59
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15 FT
 PERFS.
 DISPLACEMENT 13.28

OWNER
 CEMENT
 AMOUNT ORDERED 150 SKS Class A 3 1/2 cc 2 1/2 gal

EQUIPMENT
 PUMP TRUCK CEMENTER Josh SGC
 # 398 HELPER Mike Sothern
 BULK TRUCK
 # 610 DRIVER Kevin W.
 BULK TRUCK
 # DRIVER

COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
 HANDLING @
 MILEAGE @
 TOTAL

REMARKS:
Break circulation with Rig mud
pump 5 BBLs Ahead
MIX 150 SKS Class A 3 1/2 cc 2 1/2 gal
Displace 13.28 Freshwater
Shut in
Cement did circulate 12:30 AM
Rig down

CHARGE TO: American Warrior
 STREET
 CITY STATE ZIP

SERVICE
 DEPTH OF JOB
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE @
 MILEAGE @
 MANIFOLD @
 TOTAL

To: Allied Oil & Gas Services, 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.

PLUG & FLOAT EQUIPMENT
 @
 @
 @
 @
 @
 TOTAL

PRINTED NAME X Chris Stevanina
 SIGNATURE X Chris Stevanina

SALES TAX (If Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS

Thank you!

Date 7-16-12 District Georgetown Ticket No. 00726
 Company American Wellco Rig 10100000
 Lease _____ Well No. _____
 County Nass State LA
 Location 2019 Bayline rd HHAH Field _____

CEMENT DATA:
 Spacer Type 1 1/2" Water
 Amt _____ Sks Yield _____ ft³/sk Density 9.34 PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 7/8 Type New Weight 23# Collar sed

LEAD: Pump Time _____ hrs. Type _____
 Excess _____
 Amt _____ Sks Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time Truckin Pump hrs. Type Class 1453
2 1/2" gel Excess _____
 Amt 150 Sks Yield 1.34 ft³/sk Density 15.2 PPG

Casing Depths: Top _____ Bottom 223.59

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.
 Pump Trucks Used 398 - Mike Southern
 Bulk Equip. 610 - Kevin W.

Drill Pipe: Size 4 1/2 Weight 16.6 Collars X-hole
 Open Hole: Size 12 1/2 T.D. _____ ft. P.B. to _____ ft.

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Freshwater Amt _____ Bbls. Weight 15.34 PPG
 Mud Type 2 Muds 3.28 Weight _____ PPG

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 10637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. 10142 Lin. ft./Bbl. 70.32
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Affit. _____

COMPANY REPRESENTATIVE _____

CEMENTER Josh 15966

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						On location Big up
						Mud safety checking
						Run 8 7/8 casing
						Break circulation with Big mud
						Flow up cement pump
						5
				410.29	35.79	mix 150 SKI Class 36 28
				54.02	13.28	Displace 13.28 bbls Freshwater
						Shut in
						Cement did circulate 12:15 AM
						Big down 12:30 AM



Services, Inc.

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

TICKET No. 24510

PAGE 1 OF 2

SERVICE LOCATION: Leadville, KS

WELL/PROJECT NO.: 4-11 LEASE: Shank COUNTY/PARISH: Ando STATE: KS CITY: Bazine DATE: 17 Jul 13 OWNER:

TICKET TYPE: SERVICE SALES CONTRACTOR: _____ RIG NAME NO.: _____ ORDER NO.: _____

WELL TYPE: 01 WELL CATEGORY: Development JOB PURPOSE: cement lining string DELIVERED TO: location WELL PERMIT NO.: _____ WELL LOCATION: 11-20-21

INVOICE INSTRUCTIONS:

PART NUMBER	DESCRIPTION	ACCOUNTING		MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT							
575	TRK 114			30 in	1	in			6.00	180.00
578	Pump Charge				1	in			1500.00	1500.00
402	Control Disk				5	in		5 ea	30.00	150.00
403	Cement Bucket				5	in		2 ea	265.00	1325.00
404	Port Collar				5	in		1 ea	265.00	265.00
	Latex Annular Seal & bit				5	in		1 ea	275.00	275.00
	Insert Flange Sleeve / Pump FW				5	in		1 ea	375.00	375.00
	Rotating Head Rental				5	in		1 ea	200.00	200.00

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 WARRANTY provisions.

WARRANTY BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: _____ TIME SIGNED: _____

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

SURVEY: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? COST SERVICE WAS PERFORMED WITHOUT DELAY? WE CLEANED THE EQUIPMENT AND PERFORMED JOB SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE? YES NO

AGREE UN-DECIDED DIS-AGREE

PAGE TOTAL: 6100.00
5411.63
11511.63

TAX: _____

TOTAL: _____

SWIFT OPERATOR: Bill

APPROVAL: _____

Thank You!



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

TICKET CONTINUATION

TICKET No. 24510

CUSTOMER American Warrior
WELL Shark 4-11
DATE July 17, 2015
PAGE 2 of 2

Item	Quantity	Description	Unit	Weight	Volume	Rate	Amount
225	1	STANDARD cement (for 24-2)	sq ft	175		14.00	2450.00
284	1	cease	lb	900	8	35.00	280.00
283	1	salt	lb	900		0.20	180.00
292	1	Wind-322	lb	125		7.75	968.75
276	1	Floppy	lb	50		2.00	100.00
281	1	Mudflush	gal	50		1.25	625.00
281	1	KCh liquid	gal	2		25.00	100.00
290	1	D-air	gal	2		42.00	84.00
581	1	SERVICE CHARGE				200	350.00
583		TOTAL WEIGHT		1825			279.80
		LOADED MILES		30			
		CURB FEET			274.95		
		TOTAL					541.80

541.80

JOB LOG

SWIFT Services, Inc.

DATE 17 Jul 13 PAGE NO.

CUSTOMER American Warrior WELL NO. 4-11 LEASE Shank JOB TYPE cement long string TICKET NO. 24510

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2 w/ 1/4" floacle TD 4413'
								5' 15.5" casing total pipe 4417'
								Centralizer, 1234, 70 shoe, + 42.5'
								Basket 5 71 Port Collar "71, 1422'
								107, 109 out
	1400							on loc TRK 114
	1440							start 5" casing in well
	1720							Drop ball - circulate - ROTATE
	1745	434	12				200	Pump 500 gal mud flush
		431	20				200	Pump 20 bbl KCL flush
	1754		7					Plug RH 30 sks
	1758	431	34				200	mix EA-2 cement 1455k @ 15.3ppg
								Drop batch down plug
								wash out pump & line
	1814	634					200	Displace plug
		634	95				400	
	1830	634	104				1500	Land plug
								Release pressure to back - dried up
	1835							wash truck
								Rack up
	1910							job complete
								Thanks Flat Bline, Dave & Dawn



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

TICKET NO: 24814

PAGE 1 OF 1

1. SERVICE LOCATIONS: Mid City, KS WELL/PROJECT NO: 4-11 LEASE: Shank COUNTY/PARISH: Atchafalaya STATE: KS CITY: Bazine DATE: 04/01/15 OWNER:
 2. TICKET TYPE: SERVICE SALES CONTRACTOR: H-D RIG NAME/NO.: Development SHIPPED: WET DELIVERED TO: location ORDER NO.:
 3. WELL TYPE: 6.1 WELL CATEGORY: Development JOB PURPOSE: Drum part collar WELL PERMIT NO.: WELL LOCATION: 11-20-21
 4. REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	30	mi			6.00	180.00
576D					Pump Charge	1	ea			1500.00	1500.00
330					SMD cement	125	sk			17.00	2125.00
276					Fiberglass	25	lb			2.00	50.00
104					Bot Collar Top Revaloc	1	ea			250.00	250.00
290					Drill	2	gal			42.00	84.00
581					Service Charge	175	sl			2.00	350.00
582					DAMAGE (min)	1	ea			250.00	250.00

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

DATE SIGNED: 5/21 TIME SIGNED: 1:00 DAY: AM 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?

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? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 4789.00

TAX: 7.00

TOTAL: 4943.30

SWIFT OPERATOR: REBEL APPROVAL: REBEL Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 24 Jul 13 PAGE NO.

CUSTOMER American Warrior WELL NO. 4-11 LEASE SHAWK JOB TYPE Cement port collar TICKET NO. 24514

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk SWD w/ 1/2" Floccle Port collar - 1422' 2 3/8 x 5 1/2
	0900							on loc TRK 114
	0912					1000	1000	test to 1000psi - held open port collar
	0920	3 1/2	2			400		inj rate 3 1/2 bpm @ 400 psi
	0930	1 1/4				400		mix SWD cement @ 11.2 ppg
		4 3/4	4			400		fluid to surface
	0947	4 3/4	69			500		— cement to surface —
								close port collar
								{ 125 sk mixed 20 bpm }
	0955					1000	1000	test to 1000psi - held Run 5 joints
	1010		20					Reverse hole clean - 2 cement plugs -
	1025							wash truck
								Pick up
	1050							job complete
								Thanks Flint, Blaine, Dave & Doug

Geological Report

American Warrior, Inc.

Shank #4-11

900' FNL & 950' FWL

Sec. 11 T20s R21w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Shank #4-11
900' FNL & 950' FEL
Sec. 11 T20s R21w
Ness County, Kansas
API # 15-135-25631-0000

Drilling Contractor: Petromark Drilling, LLc Rig #1

Geologist: Jason T Alm

Spud Date: July 9, 2013

Completion Date: July 17, 2013

Elevation: 2249' Ground Level
2255' Kelly Bushing

Directions: Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 8
mi. South to 50 Rd. East ¼ mi. South into location.

Casing: 223' 8 5/8" surface casing
4412' 5 1/2" production casing

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

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Brett Dickinson"

Problems: None

Remarks: None

Formation Tops

	American Warrior, Inc. Shank #4-11 Sec. 11 T20s R21w 900' FNL & 950' FWL
Formation	
Anhydrite	1459', +796
Base	1492', +763
Heebner	3771', -1516
Lansing	3816', -1561
BKc	4154', -1899
Pawnee	4281', -2026
Fort Scott	4313', -2058
Cherokee	4334', -2079
Mississippian	4391', -2136
Osage	4399', -2144
RTD	4413', -2158

Sample Zone Descriptions

Mississippian Osage (4399', -2144): **Covered in DST #1**

Δ – Dolo – Fine sucrosic crystalline with fair scattered inter-crystalline porosity, very heavy slightly triptolic chert, weathered with fair to good vuggy porosity, light to very light spotted oil stain, no show of free oil, very light odor, dull to poor yellow fluorescents.

Drill Stem Tests

Trilobite Testing, Inc.
 “Brett Dickinson”

DST #1

Mississippian Osage

Interval (4402' – 4410') Anchor Length 8'

IHP	– 2226 #	
IFP	– 45” – B.O.B. 26 min.	26-92 #
ISI	– 45” – Built to ¼ in.	1217 #
FFP	– 45” – B.O.B. 33 min.	111-148 #
FSI	– 45” – Built to ¼ in.	1332 #
FHP	– 2211 #	
BHT	– 124°F	

Recovery: 230' GCO
 90' SOMCW 5% Oil, 80% Water

Structural Comparison

	American Warrior, Inc. Shank #4-11 Sec. 11 T20s R21w 900' FNL & 950' FWL	American Warrior, Inc. Shank #1-11 Sec. 11 T20s R21w 1250' FNL & 1500' FWL		Lauck Oil Co. Shank #1 Sec. 11 T20s R21w C SE NW	
Formation					
Anhydrite	1459', +796	1466', +794	(+2)	NA	NA
Base	1492', +763	NA	NA	NA	NA
Heebner	3771', -1516	3776', -1516	FL	3788', -1531	(+15)
Lansing	3816', -1561	3823', -1563	(+2)	3834', -1578	(+17)
BKc	4154', -1899	NA	NA	NA	NA
Pawnee	4281', -2026	4286', -2026	FL	NA	NA
Fort Scott	4313', -2058	4314', -2054	(-4)	4337', -2081	(+23)
Cherokee	4334', -2079	4333', -2073	(-6)	4356', -2100	(+21)
Mississippian	4391', -2136	4394', -2134	(-2)	4419', -2163	(+27)
Osage	4399', -2144	NA	NA	4439', -2183	(+39)

Summary

The location for the Shank #4-11 was found via 3-D seismic survey. The new well ran slightly lower structurally than expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Shank #4-11 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



Geologic Report

Drilling Time and Sample Log

Operator **American Warrior, Inc.** KB Elevation 2255'
 Lease **Shank** No. **4-11** DF 2249'
 API # **15-135-25631-0000** Casing Record Surface 8 5/8" @ 223'
 Field **Highpoint** Production 5 1/2" @ 4412'
 Location **900' FNL & 950' FWL** Electrical Surveys None
 Sec. **11** Twp. **20s** Rge. **21w**
 County **Ness** State **Kansas**

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite		1459' +796	+2
Base		1492' +763	
Heebner		3771' -1516	FL
Lansing		3816' -1561	+2
BKc		4154' -1899	
Pawnee		4281' -2026	FL
Fort Scott		4313' -2058	-4
Cherokee		4334' -2079	-6
Mississippian		4391' -2136	-2
Osage		4399' -2144	
Total Depth		4413' -2158	

Reference Well For Structural Comparison American Warrior, Inc. Shank #1-11
 1250' FNL & 1500' FWL Sec. 11 T20s R21w Ness Co. Kansas

Drilling Contractor **Petromark Drilling, L.L.C. Rig #1**
 Commenced **7-9-2013** Completed **7-17-2013**
 Samples Saved From **4000'** To **RTD**
 Drilling Time Kept From **3700'** To **RTD**
 Samples Examined From **4000'** To **RTD**
 Geological Supervision From **4000'** To **RTD**

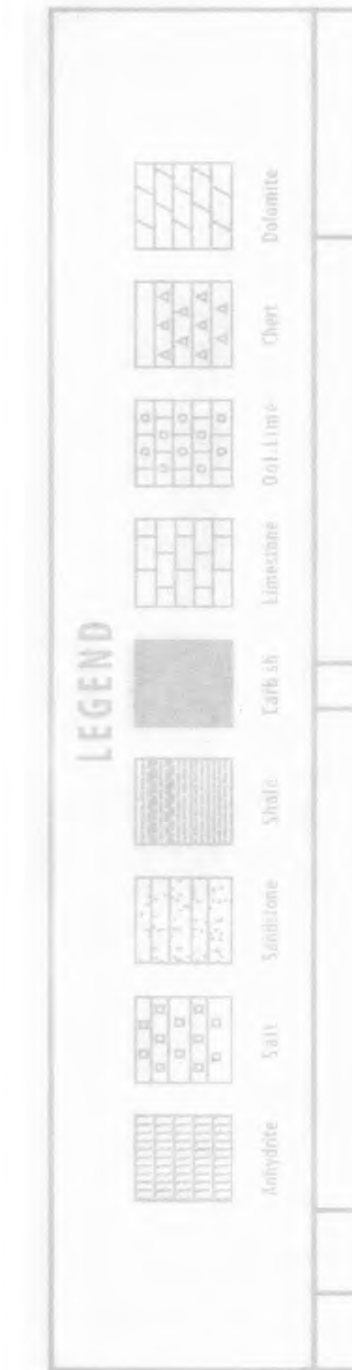
Displacement **3600'** Mud Type **Chemical**

Summary and Recommendations

The location for the Shank #4-11 was found via 3-D seismic survey. The new well ran slightly lower structurally than expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Shank # 4-11 well.

Respectfully Submitted,

Jason T Alm
 Hard Rock Consulting, Inc.



DEPTH	TEMPERATURE (F)	SAMPLE DESCRIPTIONS	REMARKS
0	~100		
10	~100		
20	~100		
30	~100		
40	~100		
50	~100		
60	~100		
70	~100		
80	~100		
90	~100		
100	~100		
110	~100		
120	~100		
130	~100		
140	~100		
150	~100		
160	~100		
170	~100		
180	~100		
190	~100		
200	~100		
210	~100		
220	~100		
230	~100		
240	~100		
250	~100		
260	~100		
270	~100		
280	~100		
290	~100		
300	~100		
310	~100		
320	~100		
330	~100		
340	~100		
350	~100		
360	~100		
370	~100		
380	~100		
390	~100		
400	~100		
410	~100		
420	~100		
430	~100		
440	~100		
450	~100		
460	~100		
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DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

Shank #4-11

11-20s-21w Ness,KS

Start Date: 2013.07.16 @ 19:52:00

End Date: 2013.07.17 @ 05:06:00

Job Ticket #: 50809 DST #: 1

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

Printed: 2013.07.17 @ 09:07:56

American Warrior Inc
11-20s-21w Ness,KS
Shank #4-11
DST # 1
Miss
2013.07.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc
PO Box 399
Garden City, KS 67846
ATTN: Jason Alm

11-20s-21w Ness, KS

Shank #4-11

Job Ticket: 50809

DST#: 1

Test Start: 2013.07.16 @ 19:52:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:53:30

Time Test Ended: 05:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L/ Brett D

Unit No: 59

Interval: 4402.00 ft (KB) To 4410.00 ft (KB) (TVD)

Total Depth: 4410.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2255.00 ft (KB)

2249.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 147.52 psig @ 4403.00 ft (KB)

Start Date: 2013.07.16

End Date:

2013.07.17

Start Time: 19:52:05

End Time:

05:06:00

Capacity: 8000.00 psig

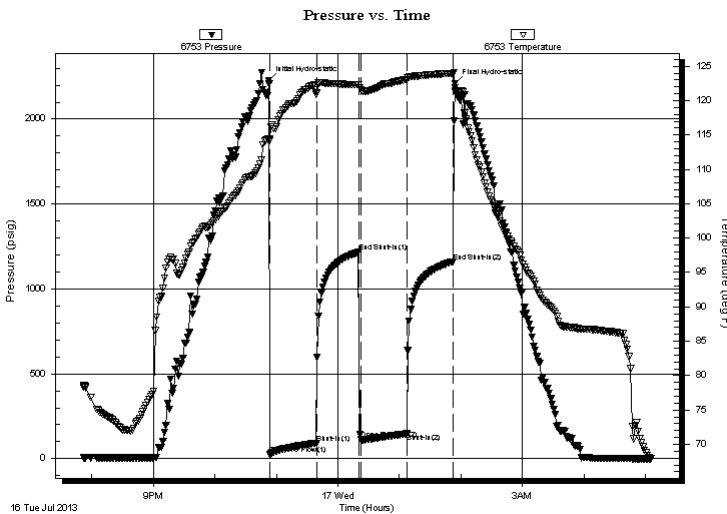
Last Calib.: 2013.07.17

Time On Btm: 2013.07.16 @ 22:52:30

Time Off Btm: 2013.07.17 @ 01:54:00

TEST COMMENT: 45- IF- BOB 26 mins
45- IS- 1/4"
45- FF- BOB 33 mins
45- FS- 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.94	114.35	Initial Hydro-static
1	26.37	114.24	Open To Flow (1)
47	92.30	120.97	Shut-In(1)
88	1217.26	122.31	End Shut-In(1)
90	111.74	121.55	Open To Flow (2)
135	147.52	123.11	Shut-In(2)
180	1160.03	123.95	End Shut-In(2)
182	2210.79	121.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	SOMCW 5%O 80%W 15%M	0.44
230.00	GO 10%G 90%O	2.98

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
 PO Box 399
 Garden City, KS 67846
 ATTN: Jason Alm

11-20s-21w Ness, KS
Shank #4-11
 Job Ticket: 50809 **DST#: 1**
 Test Start: 2013.07.16 @ 19:52:00

GENERAL INFORMATION:

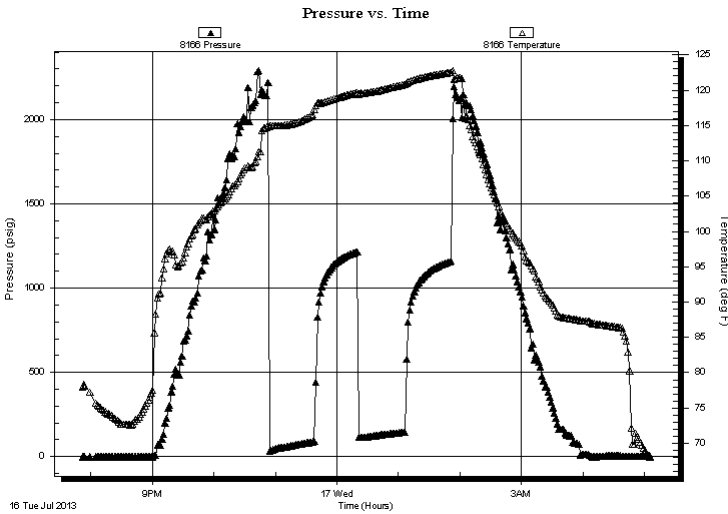
Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:53:30
 Tester: Brannan L/ Brett D
 Time Test Ended: 05:06:00
 Unit No: 59
Interval: 4402.00 ft (KB) To 4410.00 ft (KB) (TVD)
 Reference Elevations: 2255.00 ft (KB)
 Total Depth: 4410.00 ft (KB) (TVD) 2249.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

Serial #: 8166 Outside

Press @ Run Depth: psig @ 4403.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.16 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 19:52:05 End Time: 05:06:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 45- IF- BOB 26 mins
 45- IS- 1/4"
 45- FF- BOB 33 mins
 45- FS- 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
90.00	SOMCW 5%O 80%W 15%M	0.44
230.00	GO 10%G 90%O	2.98

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc
PO Box 399
Garden City, KS 67846
ATTN: Jason Alm

11-20s-21w Ness, KS
Shank #4-11
Job Ticket: 50809 **DST#: 1**
Test Start: 2013.07.16 @ 19:52:00

Tool Information

Drill Pipe:	Length: 4285.00 ft	Diameter: 3.80 inches	Volume: 60.11 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 60.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4402.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4374.00	
Shut In Tool	5.00			4379.00	
Hydraulic tool	5.00			4384.00	
Jars	5.00			4389.00	
Safety Joint	3.00			4392.00	
Packer	5.00			4397.00	29.00 Bottom Of Top Packer
Packer	5.00			4402.00	
Stubb	1.00			4403.00	
Recorder	0.00	6753	Inside	4403.00	
Recorder	0.00	8166	Outside	4403.00	
Perforations	4.00			4407.00	
Bullnose	3.00			4410.00	8.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc
PO Box 399
Garden City, KS 67846
ATTN: Jason Alm

11-20s-21w Ness, KS
Shank #4-11
Job Ticket: 50809 **DST#: 1**
Test Start: 2013.07.16 @ 19:52:00

Mud and Cushion Information

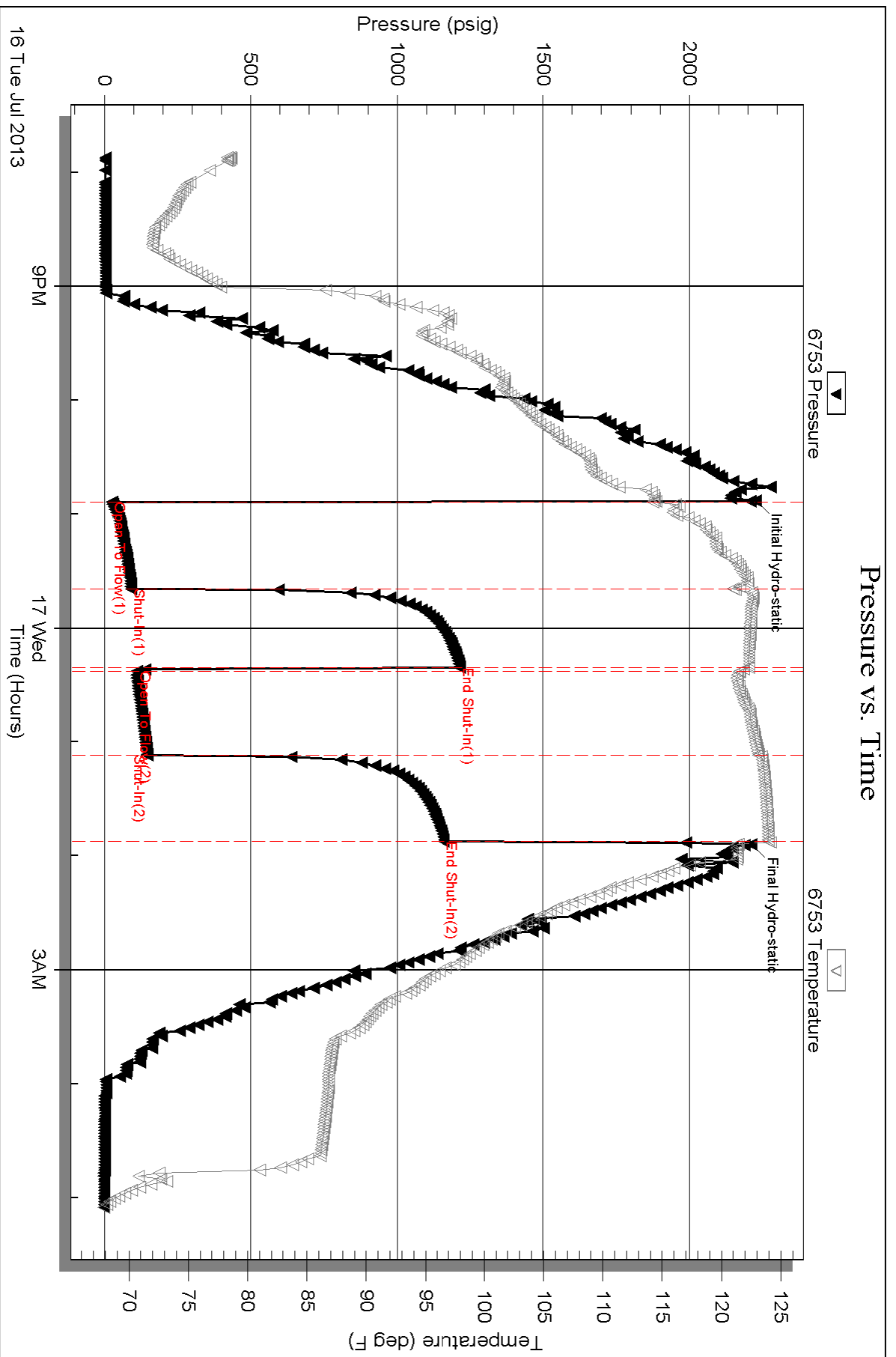
Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 21000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.59 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4300.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	SOMCW 5%O 80%W 15%M	0.443
230.00	GO 10%G 90%O	2.980

Total Length: 320.00 ft Total Volume: 3.423 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

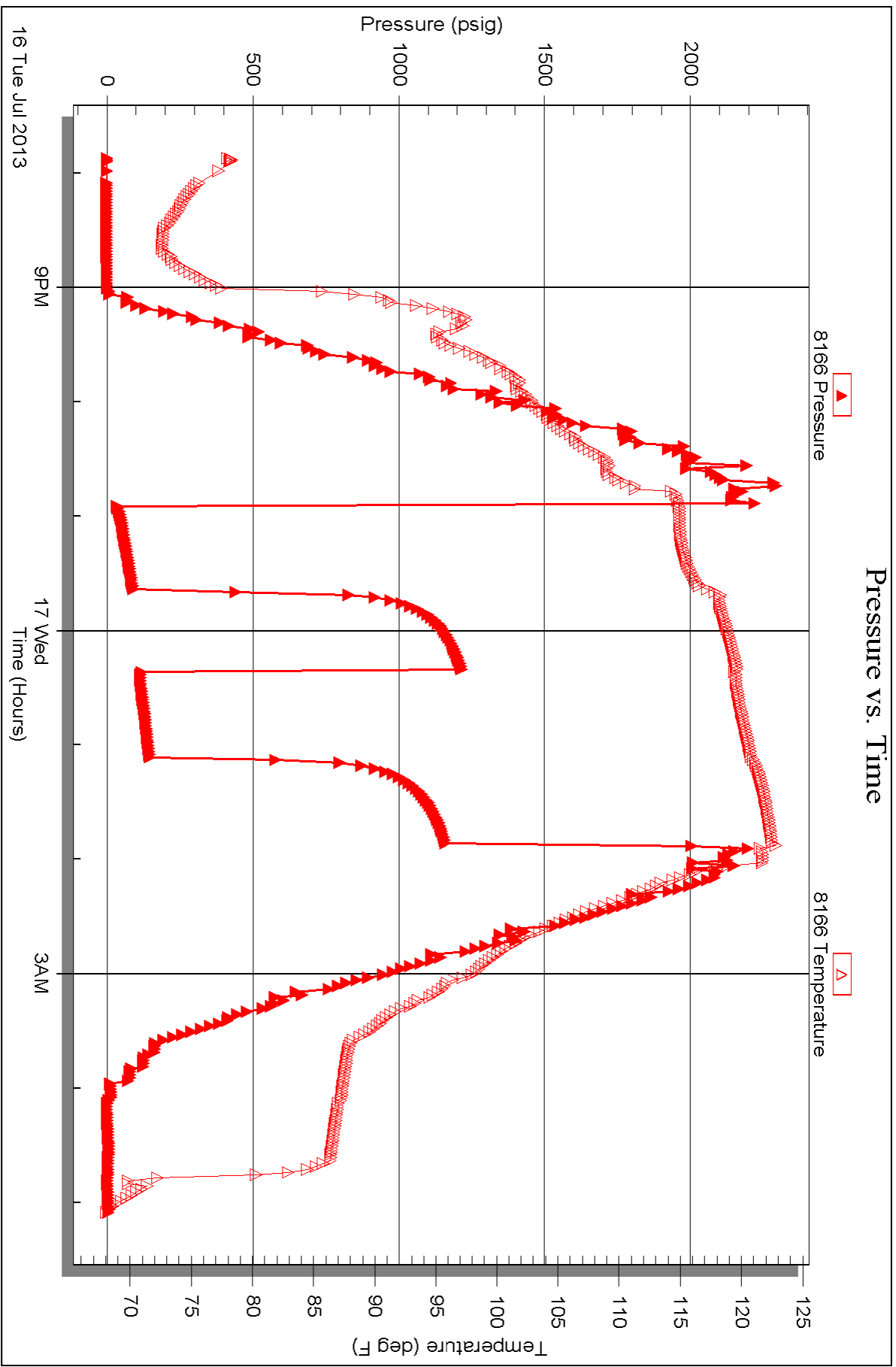


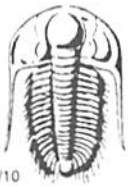
Serial #: 8166

Outside American Warrior Inc

Shank#4-11

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50809

Well Name & No. Shank 4-11 Test No. 1 Date 7/16/13
 Company American Warrior Inc. Elevation 2255 KB 2249 GL
 Address 3118 Cummings Rd P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Jason Alm Rig Petromark 1
 Location: Sec. 11 Twp. 20 Rge. 21 Co. Ness State KS

Interval Tested 4402 - 4410 Zone Tested Mississippian
 Anchor Length 8' Drill Pipe Run 4285 Mud Wt. 9.3
 Top Packer Depth 4397 Drill Collars Run 117 Vis 48
 Bottom Packer Depth 4402 Wt. Pipe Run — WL 9.6
 Total Depth 4410 Chlorides 4300 ppm System LCM 0
 Blow Description IF - B.O.B. 26 mins
ISI - 1/4"
FF - B.O.B. 33 mins
PSI - 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>90'</u>	<u>SOMEW</u>		<u>5%</u>	<u>80%</u>	<u>15%</u>
<u>230'</u>	<u>60</u>	<u>10%</u>	<u>90%</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 320' BHT 1240 Gravity 34 API RW .35 @ 65° F Chlorides 21000 ppm

(A) Initial Hydrostatic <u>2226</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1930</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1952</u>
(C) First Final Flow <u>92</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2253</u>
(D) Initial Shut-In <u>1217</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0153</u>
(E) Second Initial Flow <u>112</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0506</u>
(F) Second Final Flow <u>148</u>	<input checked="" type="checkbox"/> Mileage <u>114 RT</u> 176.70	Comments
(G) Final Shut-In <u>1160</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2211</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1751.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1751.70</u>	

Approved By _____ Our Representative Brannan L / Brett D

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.