



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1228466  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

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

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical 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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1228466

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LN 1-18
Doc ID	1228466

Tops

Name	Top	Datum
Anhdrite	1476	774
Heebner	3720	-1470
Lansing	3766	-1516
Base Kansas City	4088	-1838
Pawnee	4172	-1922
Ft. Scott	4250	-2000
Cherokee	4268	-2018
Mississippian	4356	-2106
TD	4371	-2121

# ALLIED OIL & GAS SERVICES, LLC 063682

Federal Tax I.D. # 20-8661476

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

SERVICE POINT:

Greenville

DATE <u>8-19-14</u>	SEC. <u>18</u>	TWP. <u>19</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION <u>11:00 PM</u>	JOB START <u>3:30 AM</u>	JOB FINISH <u>3:00 PM</u>
LEASE <u>L N</u>	WELL# <u>1-18</u>	LOCATION <u>Basins 3 South To 100</u>			COUNTY <u>WCS</u>	STATE <u>TX</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			RD <u>3 1/4 West South 210</u>			<u>1-01</u>	<u>6.15</u>

CONTRACTOR DeVamark Rts 1 OWNER \_\_\_\_\_  
 TYPE OF JOB Seal  
 HOLE SIZE 12 1/4 TD. 218  
 CASING SIZE 8 1/2 DEPTH 220  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSO. 15  
 PERFS.  
 DISPLACEMENT 13 BBLS  
 EQUIPMENT

CEMENT  
 AMOUNT ORDERED 150 SY CLASS A + 3% GEL + 2% GEL  
 COMMON 150 @ 17.90 2,685.00  
 POZMIX @ \_\_\_\_\_  
 GEL 282 @ .50 141.00  
 CHLORIDE 423 @ 1.10 465.30  
 ASC @ \_\_\_\_\_  
Materials Total @ \_\_\_\_\_ 3,291.30  
Disc. @ 20% 658.26  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 162.20 @ 2.48 402.26  
 MILEAGE 740 x 17x 2.75 345.25

PUMP TRUCK CEMENTER Raymond Davis  
 # 3166 HELPER Ben McWell 2  
 BULK TRUCK  
 # 607-239 DRIVER Zeb Se 3  
 BULK TRUCK  
 # DRIVER

REMARKS:

Pipe on Bottom Break circulation 125.8  
with Rig mud  
Run 5 BBls water ahead  
Mix 150 SY class A + 3% GEL + 2% GEL  
Displace 13 BBls fresh water  
Shut in cement did  
circulate

DEPTH OF JOB 220  
 PUMP TRUCK CHARGE 1512.25  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE Hum 17 @ 7.70 130.90  
 MANIFOLD @ \_\_\_\_\_  
Hum 17 @ 4.40 74.80  
 @ \_\_\_\_\_

CHARGE TO: American water  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 2,466.16  
Disc 20% 493.23

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

0% TOTAL 0

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.

SALES TAX (If Any) 202.41  
 TOTAL CHARGES 5,757.46  
20% 1,151.49 (20/20/0)  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME Zak Dietrick

SIGNATURE [Signature]

4,605.97



# CEMENTING LOG

STAGE NO.

Date 8-18-14 District G-out Band Ticket No. 63682  
 Company American well Rig Peterson 1  
 Lease LN 1-18 Well No. 1-18  
 County NES State KS  
 Location 18-19-21 Field B&Z 45

CEMENT DATA:

Spacer Type: Acosh  
 Amt. \_\_\_\_\_ Sk's Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type CLASS A  
 Amt. 150 Sk's Yield 1.34 ft<sup>3</sup>/sk Density 15.2 PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sk's Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 366 Ben Newell  
 Bulk Equip. 610-239 / 2cb

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size \_\_\_\_\_ Type \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

Casing Depths: Top KB Bottom \_\_\_\_\_

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_

Open Hole: Size \_\_\_\_\_ T.O. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70  
 Open Holes: Bbls/Lin. ft. 0.1458 Lin. ft./Bbl. 6.8599  
 Drill Pipe: Bbls/Lin. ft. 0.1422 Lin. ft./Bbl. 70.32  
 Annulus: Bbls/Lin. ft. 0.0735 Lin. ft./Bbl. 13.6037

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Float Equip: Manufacturer \_\_\_\_\_

Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_

Float: Type \_\_\_\_\_ Depth \_\_\_\_\_

Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

Stage Collars \_\_\_\_\_

Special Equip. \_\_\_\_\_

Disp. Fluid Type Acosh Amt. \_\_\_\_\_ Bbls. Weight 8.34 PPG

Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER \_\_\_\_\_

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						on Job Site
						Spot Trenches Had Setback meeting
						Rig up
230AM	200		5	5	3	Break circulation with Rig mud Run 5 BBLs water Ahead
			40.80	35.80		Mix 150 SK CLASS A + 3% RC + 2% GR
300AM	200		53.80	13	3	Start Displacement
						Shut in
						Cement Circulated



Services, Inc.

SE 10  
 ADDRESS *Harrison Washier, Inc.*  
 CITY, STATE, ZIP CODE

TICKET 26781

PAGE 1 OF 2

1. SERVICE LOCATIONS *1-18* WEL/PROJECT NO. *1-18* LEASE *L. N.* COUNTY/PARISH *Ness* STATE *Ks.* DATE *8-25-14* OWNER

2. *Ness City, Ks* TICKET TYPE *CONTRACTOR* RIG NAME/NO. *#1* SHIPPED VIA *CT* DELIVERED TO *S/Borwin, Ks* ORDER NO.

3. WEL TYPE *Oil* WEL CATEGORY *Wildcat* JOB PURPOSE *Concrete Longstring* WEL PERMIT NO. WELL LOCATION

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 #113	26 mi				600	12000
578					Ramp Charge	1 no				15000	15000
221					Liquid HCl	3 gal				5000	15000
381					Water Wash	500 gal				135	62500
390					D-Air	3 gal				1300	8900
703					Leather Hoses	500			5 1/4 in	7000	35000
704					Concrete Baskets	700			5 1/4 in	8000	56000
706					Port Collar	100			5 1/4 in	29000	29000
707					Call Down Plug + Bolt	100			5 1/4 in	27500	27500
719					Essel Flat Shoe w/ Hub - SW	100			5 1/4 in	37500	37500
					Rotating Head Bolt	100			5 1/4 in	2000	2000

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 *8-25-14* TIME SIGNED *14:30*  A.M.  P.M.

SWIFT OPERATOR *Van Panner* APPROVAL

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

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?

YOUR 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 *707922*

SUB TOTAL *1182850*

TAX *7.5%*

TOTAL *12,398.19*

Thank You!



**JOB LOG**

**SWIFT Services, Inc.**

DATE 2-25-84 PAGE NO. 1

CUSTOMER American Leasing, Inc. WELL NO. 1-18 LEASE L-11 JOB TYPE Connect Longstring TICKET NO. 26781

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1930					15.5%	5 1/2	TD 4370 On location - float equip (Dusty) Ready to run casing - 5 1/2 threaded wait on water & repair
	1500							
	1750							Start 5 1/2 - 15.5% / st. casing to 4369' Jugout float show w/ submergible L.D. Bath = 57 - 4 1/2" = 4377' (103-881) Cont. 1-2-3-4-70 Cont. Baskets 5 + 71 Finrod Port collar # 71 @ 1470' Drop pickup ball 5 3/8 out For new casing - Tag Start air / watch Fin rod Plug RH - 36 stks out 900 Pump 50 gal Head flush 900 Pump 36 881 HLL flush
	2100							
	2110							
		5	17					
		5	30					
		4						
		4	36					
		2 1/8	5 1/2					
		7 1/8	70 90					
	2230	5	103					900 / 400 Start Displ 800 circ press 1400 Plug Down - hold Release & hold Job Complete breakup & Packup

Chase + Down  
for water

*[Signature]*  
Ken Jones & Co.





Services, Inc.

CHARGE TO: AMERICAN WARRIOR

TICKET 27928

ADDRESS  
CITY, STATE, ZIP CODE

PAGE 1 OF

SERVICE LOCATIONS 1. Ness City, KS.	WELL/PROJECT NO. LN1-19	LEASE	COUNTY/PARISH NESS	STATE KS.	CITY BAZINE, KS.	DATE 11SEP14	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR HDD OILFIELD SERV.	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE DIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE GENERAL PORT CULAR	WELL PERMIT NO.	WELL LOCATION 285 3/4 E. S. 15 T. 10.		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					PORT CULAR OPERATING TAX		1	DOB			350	350
576D					RBP RENTAL		1	DOB			1800	1800
105					FLOCFE		35	lbs			25	875
276					D-AIR		1	3.00			22	22
290					SAUD		1	SX			22	22
288					SMD CEMENT		135	SX			18.50	2497.50
330					CEMENT SERVICE CHARGE		175	SX			2	350
581					MINIMUM DRAPAGE.		17400	lbs		PH200 TM	250	250
ORA												

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

DATE SIGNED: 11 SEP 14 TIME SIGNED: 11:15 P.M.

DATE SIGNED: 11 SEP 14 TIME SIGNED: 5:04 P.M.

SWIFT OPERATOR: [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: [Signature]

APPROVAL: [Signature]

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: 6440

TOTAL: 6699.53

TAX: 7.55  
6.15%

259.53

Thank You!



# **Geological Report**

American Warrior, Inc.

**LN #1-18**

350' FNL & 720' FWL

Sec. 18 T19s R21w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
LN #1-18  
350' FNL & 720' FWL  
Sec. 18 T19s R21w  
Ness County, Kansas  
API # 15-135-25802-0000

Drilling Contractor: Petromark Drilling, LLC. Rig #1

Geologist: Jason T Alm

Spud Date: August 18, 2014

Completion Date: August 26, 2014

Elevation: 2244' Ground Level  
2250' Kelly Bushing

Directions: Bazine KS, Intersection of Austin St. and Hwy 96,  
South 3 mi. to 100 Rd. East 7/8 mi. South into  
location.

Casing: 220' 8 5/8" surface casing  
4369' 5 1/2" production casing

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

Drilling Time: 3700' to RTD

Electric Logs: Pioneer Energy Services "Jared Long"  
CNL/CDL, DIL

Drillstem Tests: One, Trilobite Testing, Inc. "Bob Hamel"

Problems: None

Remarks: None

## Formation Tops

<b>Formation</b>	<b>American Warrior, Inc.</b>
	LN #1-18
	Sec. 18 T19s R21w
	350' FNL & 720' FWL
Anhydrite	1476', +774
Base	1513', +737
Heebner	3720', -1470
Lansing	3766', -1516
BKc	4088', -1838
Pawnee	4172', -1922
Fort Scott	4250', -2000
Cherokee	4268', -2018
Mississippian	4356', -2106
LTD	4371', -2121
RTD	4370', -2120

## Sample Zone Descriptions

**Cherokee Sand (4273', -2023):**      **Not Tested**  
 Ss – Few DNS dirty clusters, Barren, no measurable gas kick

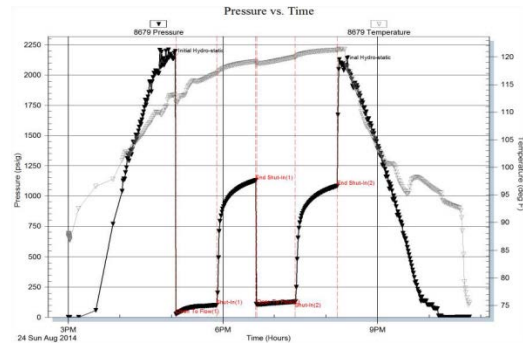
**Mississippian Osage (4356', -2106):**      **Covered in DST #1**  
 Dolo – Δ – Fine Sucrosic crystalline with fair inter-crystalline and vuggy porosity, very heavy triptolic chert, weathered with good scattered vuggy porosity, light to fair spotted oil stain in porosity, slight show of free oil, light to fair odor, scattered light yellow fluorescents, 12 units hotwire.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Bob Hamel"

**DST #1      Mississippian Osage**

Interval (4359' – 4367') Anchor Length 8'

IHP	- 2237 #	
IFP	- 45" – B.O.B. 32 min.	26-101 #
ISI	- 45" – Dead	1127 #
FFP	- 45" – Built to 6 in.	106-129 #
FSI	- 45" – Dead	1082 #
FHP	- 2081 #	
BHT	- 121°F	



Recovery:	35' Clean Oil	
	30' HOCMW	20% Oil, 60% Water
	189' SOCMW	5% Oil, 75% Water

**Structural Comparison**

	<b>American Warrior, Inc.</b> <b>LN #1-18</b> <b>Sec. 18 T19s R21w</b> <b>350' FNL &amp; 720' FWL</b>	American Warrior, Inc.		Lehner R V Estate	
<b>Formation</b>		Thornburg #2-7		Foos #1	
Anhydrite	<b>1476', +774</b>	Sec. 7 T19s R21w		Sec. 18 T19s R21w	
Base	<b>1513', +737</b>	800' FSL & 335' FEL	<b>(+6)</b>	C NW NE	<b>NA</b>
Heebner	<b>3720', -1470</b>		<b>(+3)</b>	NA	<b>NA</b>
Lansing	<b>3766', -1516</b>	1475', +768	<b>(+1)</b>	3718', -1465	<b>(-5)</b>
BKc	<b>4088', -1838</b>	1509', +739	<b>(+1)</b>	3764', -1511	<b>(-5)</b>
Pawnee	<b>4172', -1922</b>	NA	<b>NA</b>	NA	<b>NA</b>
Fort Scott	<b>4250', -2000</b>	4176', -1933	<b>(+11)</b>	NA	<b>NA</b>
Cherokee	<b>4268', -2018</b>	4247', -2004	<b>(+4)</b>	4252', -1999	<b>(-1)</b>
Mississippian	<b>4356', -2106</b>	4266', -2021	<b>(+3)</b>	4274', -2021	<b>(+3)</b>
		4348', -2105	<b>(-1)</b>	4342', -2089	<b>(-17)</b>

## Summary

The location for the LN #1-18 was found via 3-D seismic survey. The new well ran structurally slightly lower 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 LN #1-18 well.

## Recommended Perforations

Primary:

Mississippian Osage	(4356' – 4364')	DST #1
---------------------	-----------------	--------

Before Abandonment:

Cherokee "A" Sand	(4273' – 4275')	Not Tested
Fort Scott	(4254' – 4258')	Not Tested

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.







## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm

**LN #1-18**

**18-19s-21w**

Start Date: 2014.08.24 @ 15:00:00

End Date: 2014.08.24 @ 22:47:00

Job Ticket #: 60498                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.25 @ 16:02:46



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**18-19s-21w**

PO Box 399  
Garden City, KS 67846

**LN #1-18**

Job Ticket: 60498

**DST#: 1**

ATTN: Jason Alm

Test Start: 2014.08.24 @ 15:00:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:05:00

Time Test Ended: 22:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 58

**Interval: 4359.00 ft (KB) To 4367.00 ft (KB) (TVD)**

Reference Elevations: 2250.00 ft (KB)

Total Depth: 4367.00 ft (KB) (TVD)

2244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8679**

**Inside**

Press@RunDepth: 128.90 psig @ 4363.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.24

End Date:

2014.08.24

Last Calib.:

2014.08.24

Start Time: 15:00:01

End Time:

22:47:00

Time On Btm:

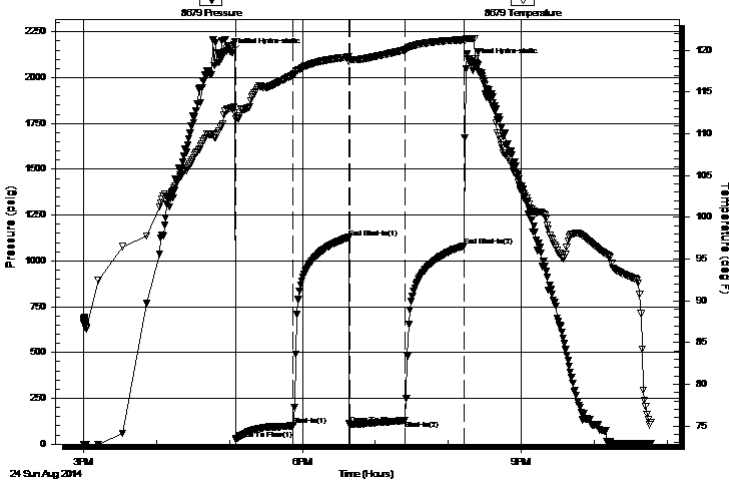
2014.08.24 @ 17:02:00

Time Off Btm:

2014.08.24 @ 20:18:00

**TEST COMMENT:** I.F. - 45 - BOB in 32 min  
I.S.I. - 45 - No blow back  
F.F. - 45 - Weak blow built to 6"  
F.S.I. - 45 - No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.06	113.07	Initial Hydro-static
3	26.11	111.73	Open To Flow (1)
51	101.12	117.05	Shut-In(1)
96	1127.37	119.19	End Shut-In(1)
97	106.84	118.88	Open To Flow (2)
142	128.90	120.00	Shut-In(2)
191	1082.27	121.25	End Shut-In(2)
196	2080.88	121.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	S,O,C,M,W, 5%O 20%M 75%W	1.56
30.00	H,O,C,M,W, 20%O 20%M 60%W	0.42
35.00	CO 100%	0.49

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**18-19s-21w**

PO Box 399  
Garden City, KS 67846

**LN #1-18**

Job Ticket: 60498

**DST#: 1**

ATTN: Jason Alm

Test Start: 2014.08.24 @ 15:00:00

## Tool Information

Drill Pipe:	Length: 4222.00 ft	Diameter: 3.80 inches	Volume: 59.22 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4359.00 ft			Final 62500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4333.00	
Shut In Tool	5.00			4338.00	
Hydraulic tool	5.00			4343.00	
Jars	5.00			4348.00	
Safety Joint	2.00			4350.00	
Packer	4.00			4354.00	27.00 Bottom Of Top Packer
Packer	5.00			4359.00	
Stubb	1.00			4360.00	
Perforations	3.00			4363.00	
Recorder	0.00	6625	Outside	4363.00	
Recorder	0.00	8679	Inside	4363.00	
Bullnose	4.00			4367.00	8.00 Bottom Packers & Anchor

**Total Tool Length: 35.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior, Inc.

**18-19s-21w**

PO Box 399  
Garden City, KS 67846

**LN #1-18**

Job Ticket: 60498

**DST#: 1**

ATTN: Jason Alm

Test Start: 2014.08.24 @ 15:00:00

### 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:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	S,O,C,M,W, 5%O 20%M 75%W	1.558
30.00	H,O,C,M,W, 20%O 20%M 60%W	0.421
35.00	CO 100%	0.491

Total Length: 254.00 ft      Total Volume: 2.470 bbl

Num Fluid Samples: 0

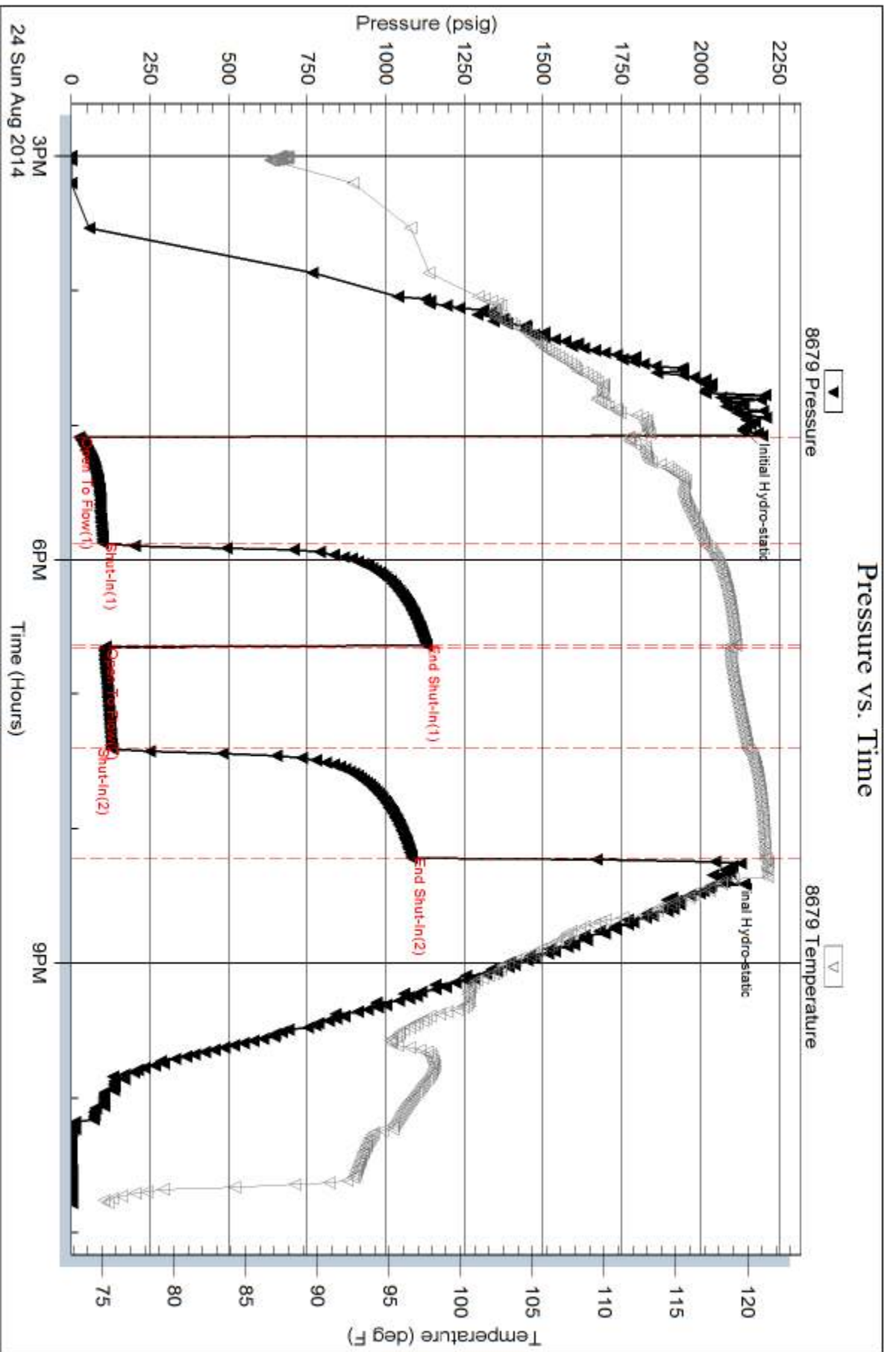
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

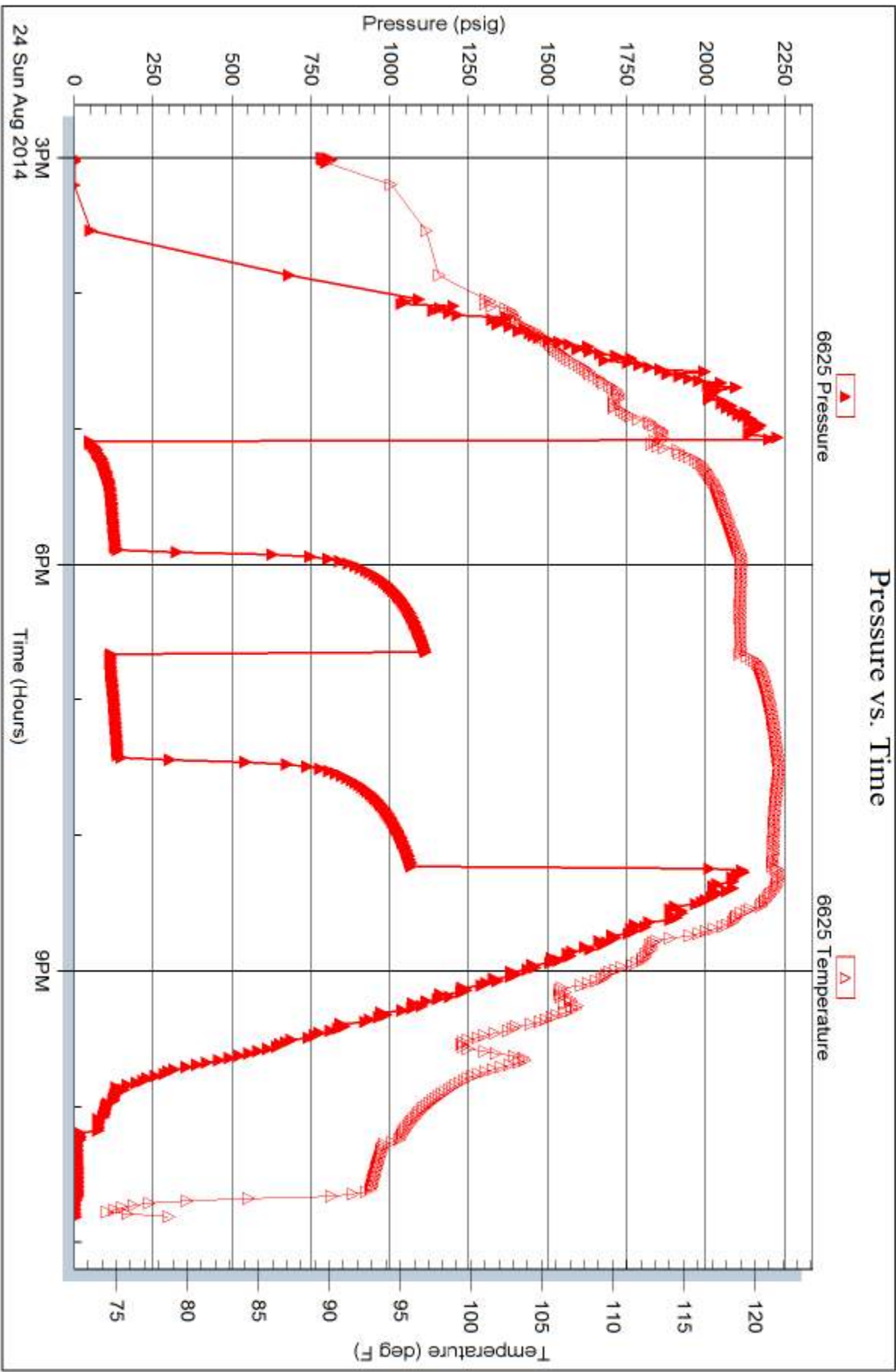


Serial #: 6625

Outside American Warrior, Inc.

LN#1-18

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60498

4/10

Well Name & No. LN #1-18 Test No. 1 Date 08-24-14  
 Company American Warrior INC. Elevation 2250 KB 2244 GL  
 Address P.O. Box 399 Garden City KS, 67896  
 Co. Rep / Geo. Jason Alm Rig Petromark #1  
 Location: Sec. 18 Twp. 19 S Rge. 21 W Co. \_\_\_\_\_ State KS

Interval Tested 4359 - 4367 Zone Tested MISS.  
 Anchor Length 8' Drill Pipe Run 9222 Mud Wt. 9.1  
 Top Packer Depth 4354 Drill Collars Run 120 Vis 59  
 Bottom Packer Depth 4359 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4367 Chlorides 1500 ppm System LCM 1

Blow Description T.F.-45-1/4" INT. Blow Built to (B.O.B. in 32 min.)  
I.S.I-45-No B.B.  
F.F-45-1/4" INT. Blow Built to (6" in 45 min.)  
F.S.I-45-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>C/O</u>		<u>100</u>		
<u>30</u>	<u>H.O.C.M.W</u>		<u>70</u>	<u>60</u>	<u>70</u>
<u>189</u>	<u>S.O.C.M.W</u>		<u>5</u>	<u>75</u>	<u>20</u>
____	____				
____	____				

Rec Total 254 BHT 119.0 Gravity 38.6 API RW 34 @ 75.8 °F Chlorides 18000 ppm

(A) Initial Hydrostatic 2,137  Test 1250 T-On Location 14:10:00  
 (B) First Initial Flow 26  Jars 250 T-Started 15:00:00  
 (C) First Final Flow 101  Safety Joint 75 T-Open 17:13:00  
 (D) Initial Shut-In 1,127  Circ Sub \_\_\_\_\_ T-Pulled 20:13:00  
 (E) Second Initial Flow 107  Hourly Standby \_\_\_\_\_ T-Out 22:47:00  
 (F) Second Final Flow 129  Mileage 112 RT. 173.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,082  Sampler \_\_\_\_\_ "Thank-You"  
 (H) Final Hydrostatic 2,081  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 0  
 Total 1748.60  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1748.60

Approved By \_\_\_\_\_ Our Representative [Signature]

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.