



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1225909
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
-----------------------------------	-----------------	---

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: _____

1225909

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 Yes No
(Attach Additional Sheets)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No

Log Formation (Top), Depth and Datum Sample
Name Top Datum

List All E. Logs Run:

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 (Amount and Kind of Material Used)	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Commingled (Submit ACO-4)

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Katherine 2-19
Doc ID	1225909

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Katherine 2-19
Doc ID	1225909

Tops

Name	Top	Datum
Anhy	1967'	+924
B/Anhy	2040'	+851
Heebner	4056'	-1165
Lansing	4111'	-1220
B/KC	4588'	-1697
Marmaton	4611'	-1720
Ft.Scott	4714'	-1823
Morrow	4878'	-1987
Mississippian	4905'	-2014

ALLIED OIL & GAS SERVICES, LLC 063702

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: great bend

8-4-14	SEC	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE	19	24	30	8:00 am	12:30 pm	3:30 pm	4:30 pm
<u>Kathrens</u>	WELL # 2-19		LOCATION <u>garden city hoflich rd</u>		COUNTY	STATE	
LEASE					<u>gray</u>	<u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			75 7W 1/2 S E chtr				

CONTRACTOR <u>Duke 5</u>	OWNER <u>name</u>
TYPE OF JOB <u>surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>1715</u>
CASING SIZE <u>8 3/8 24#</u>	DEPTH <u>1702</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>900</u>	MINIMUM <u>600</u>
MEAS. LINE	SHOE JOINT <u>42.15</u>
CEMENT LEFT IN CSG. <u>42.15</u>	
PERFS.	
DISPLACEMENT <u>H2O 105.73 BBI</u>	

EQUIPMENT

PUMP TRUCK # <u>366</u>	CEMENTER <u>Charles King</u>
	HELPER <u>Ben newell</u>
BULK TRUCK # <u>870-844</u>	DRIVER <u>Kevin weyhouse</u>
BULK TRUCK # <u>609-239</u>	DRIVER <u>Dan casper</u>

CEMENT	AMOUNT ORDERED <u>625 cu 65/35 61 gal</u>
	<u>31 cc 1/2 lb 200 cu clama 31 cc</u>
	<u>1/4 lb</u>
COMMON <u>200</u>	@ 17.90 <u>3,580.00</u>
POZMIX	@
GEL	@
CHLORIDE <u>2232</u>	@ 1.10 <u>2,455.20</u>
ASC	@
<u>625 cu 65/35/6%</u>	@ 19.88 <u>12,425.00</u>
<u>Flo seal 206</u>	@ 2.97 <u>611.82</u>
<u>Materials Total</u>	
	<u>19,072.02</u>
	<u>Disc 20%</u>
	<u>3,814.48</u>
	@
	@
	@
	Service
HANDLING <u>933.94</u>	@ 2.48 <u>2,316.17</u>
MILEAGE <u>40.1 x 50%</u>	2.75 <u>5,513.25</u>

REMARKS:

Rig Ran 1702' 8 3/8 csg Broke csg
20' Rig mad drop ball pump through
2 900 psi pump 5 BBI H2O run 625
cu Rand run 200 cu tail shut down
Release plug displace 105.73 BBI H2O
plug did Rand float did hold
cement did circulate

DEPTH OF JOB <u>1702</u>	
PUMP TRUCK CHARGE	<u>2,213.75</u>
EXTRA FOOTAGE	@
MILEAGE <u>50 HVM</u>	@ 7.70 <u>385.00</u>
MANIFOLD <u>Hess</u>	@
<u>50 LVM</u>	@ 4.40 <u>220.00</u>

CHARGE TO: American Waco
STREET _____
CITY _____ STATE _____ ZIP _____

TOTAL 10,923.67
Disc 20% 2,189.73

PLUG & FLOAT EQUIPMENT

<u>guide shoe</u>	460	<u>460.00</u>
<u>2 fu float</u>	@ 447.00	<u>447.00</u>
<u>3- centralizer</u>	@ 75.00	<u>225.00</u>
<u>Basket</u>	@ 580.00	<u>580.00</u>
<u>Rubber plug</u>	@ 131.00	<u>131.00</u>

TOTAL 1,843.00
Disc 20% 368.60

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) _____
TOTAL CHARGES 31,838.69
DISCOUNT 6,367.74 (20/20/20)
IF PAID IN 30 DAYS

PRINTED NAME X KENNETH MCGUIRE

SIGNATURE X Kenneth McGuire

\$ 25,470.95



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

TICKET 26412

PAGE 1 OF 2

SERVICE LOCATIONS 1. Ness City KS WELL/PROJECT NO. 2-19 LEASE Katherine COUNTY/PARISH Finney STATE KS CITY Garden City DATE 13 AUG 14 OWNER
 2. TICKET TYPE SERVICE CONTRACTOR RIG NAME/NO. DUKE SHIPPED VIA CT DELIVERED TO location ORDER NO.
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement long string WELL PERMIT NO. WELL LOCATION 19-14-30
 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 TRK 112	75	mi			6.00	450.00
578		1			Pump Charge	1	ea			1500.00	1500.00
402		1			Centralizer	5 1/2	in	9	ea	70.00	630.00
403		1			Cement Basket	5 1/2	in	2	ea	300.00	600.00
406		1			Latch down plug & baffle	5 1/2	in	1	ea	275.00	275.00
407		1			insert float shoe w/ AUTO FILL	5 1/2	in	1	ea	375.00	375.00

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 TIME SIGNED A.M. P.M.
1400

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1 3830.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2 5918.69
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal 9748.69
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Finney TAX 7.3% 493.59
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL 10,242.28
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				



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

TICKET CONTINUATION

TICKET No. 26412

CUSTOMER American Warrior WPKL Katherine 2-19 DATE 13 AUG 14 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
325		1				STANDARD cement (for 81-2)	175	SK			14.50	2537.50
284		1				calseal	800	lb	8	SK	35.00	280.00
283		1				salt	900	lb			0.20	180.00
292		1				halad-322	125	lb			8.00	1000.00
276		1				Flocele	50	lb			2.50	125.00
281		1				mud flush	500	gal			1.25	625.00
221		1				KCh flush	2	gal			25.00	50.00
290		1				D-AIR	2	gal			42.00	84.00
581						SERVICE CHARGE	175				2.00	350.00
583						MILEAGE CHARGE	18325		75		1.00	687.19
						TOTAL WEIGHT						
						LOADED MILES						
						TON MILES						687.19

CONTINUATION TOTAL 5918.69

JOB LOG

SWIFT Services, Inc.

DATE 13 AUG 14 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 2-19 LEASE Katherine JOB TYPE cement long string TICKET NO. 26412

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2 cement w/ 1/4" floccle
								5 1/2" x 15.5" casing 122 jts total pipe 5127'
								TD 5120' shoejt 21.3' Basket 2:7
								Centralizer 1, 3, 4, 5, 6, 8, 10, 12, 14
	0914							on loc TRK 112
	0915							start 5 1/2" x 15.5" casing in well
	1110							Drop ball - circulate
	1145	2 1/2	12				300	Pump 500 gal med flush
		2 1/2	20				300	Pump 20 bbl KCL flush
			7					Plug RH - MH 30sk - 20sk
	1200	2 1/2	35				300	Mix EA-2 cement 125sk @ 15.3 ppg
								Drop latch down plug
								wash out pump & line
	1255	6					300	Displace plug
		6	118				900	
	1315	6	122				1500	Land plug
	1315	6						
	1317							Release pressure to truck - dried up
	1317							
	1325							wash truck
								Rack up
								Job complete
								Thanks Flint, Blake, & crew



DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Katherine #2-19

19-24s-30w Gray,KS

Start Date: 2014.08.10 @ 15:12:10

End Date: 2014.08.11 @ 01:13:40

Job Ticket #: 54130 DST #: 1

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

Printed: 2014.08.13 @ 17:32:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54130

DST#: 1

ATTN: Kevin Timson

Test Start: 2014.08.10 @ 15:12:10

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:23:25

Time Test Ended: 01:13:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 53

Interval: 4870.00 ft (KB) To 4930.00 ft (KB) (TVD)

Reference Elevations: 2891.00 ft (KB)

Total Depth: 4930.00 ft (KB) (TVD)

2880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6773

Inside

Press@RunDepth: 97.58 psig @ 4871.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.10

End Date:

2014.08.11

Last Calib.: 2014.08.11

Start Time: 15:12:15

End Time:

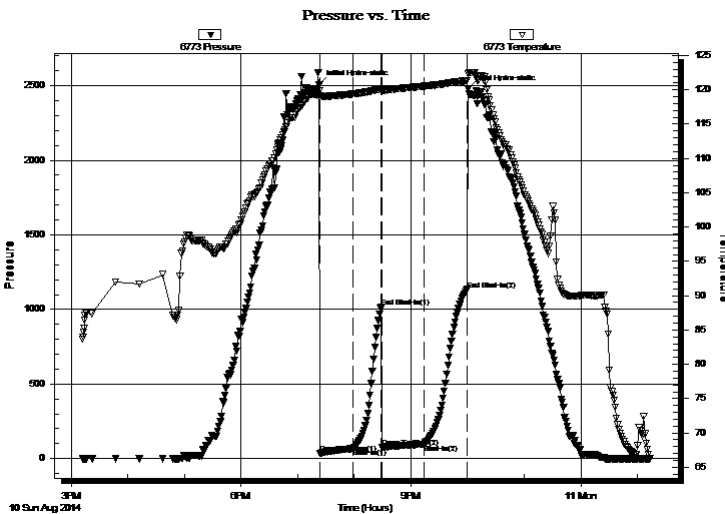
01:13:40

Time On Btm: 2014.08.10 @ 19:22:55

Time Off Btm: 2014.08.10 @ 22:00:25

TEST COMMENT: IF: Weak blow . Surf., - 1 1/2".
IS: No blow .
FF: Fair blow . Surf., - 8". Bleed off in 4 mins.
FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2509.71	119.79	Initial Hydro-static
1	34.87	118.96	Open To Flow (1)
36	67.34	119.41	Shut-In(1)
66	1013.40	120.12	End Shut-In(1)
67	73.29	119.92	Open To Flow (2)
112	97.58	120.53	Shut-In(2)
157	1132.71	121.33	End Shut-In(2)
158	2477.90	122.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 5%w 27%m 33%g 35%o	0.30
60.00	GOWCM 5%w 25%m 30%o 40%g	0.30
20.00	OCM 5%o 95%m	0.10

Gas Rates

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



DRILL STEM TEST REPORT

American Warrior, Inc.
 PO Box 399
 Garden City, KS 67846
 ATTN: Kevin Timson

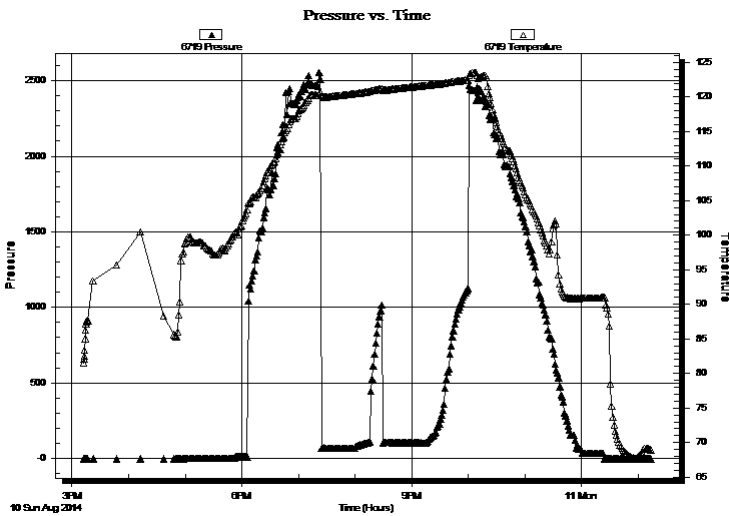
19-24s-30w Gray,KS
Katherine #2-19
 Job Ticket: 54130 **DST#: 1**
 Test Start: 2014.08.10 @ 15:12:10

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:23:25
 Time Test Ended: 01:13:40
 Interval: **4870.00 ft (KB) To 4930.00 ft (KB) (TVD)**
 Total Depth: 4930.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 2891.00 ft (KB)
 2880.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6719 Outside
 Press@RunDepth: psig @ 4871.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.10 End Date: 2014.08.11 Last Calib.: 2014.08.11
 Start Time: 15:12:22 End Time: 01:13:32 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak blow . Surf., - 1 1/2".
 IS: No blow .
 FF: Fair blow . Surf., - 8". Bleed off in 4 mins.
 FS: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 5%w 27%m 33%g 35%o	0.30
60.00	GOWCM 5%w 25%m 30%o 40%g	0.30
20.00	OCM 5%o 95%m	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54130

DST#: 1

ATTN: Kevin Timson

Test Start: 2014.08.10 @ 15:12:10

Tool Information

Drill Pipe:	Length: 4615.00 ft	Diameter: 3.80 inches	Volume: 64.74 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 65.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4870.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 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			4843.00	
Shut In Tool	5.00			4848.00	
Hydraulic tool	5.00			4853.00	
Jars	5.00			4858.00	
Safety Joint	3.00			4861.00	
Packer	4.00			4865.00	28.00 Bottom Of Top Packer
Packer	5.00			4870.00	
Stubb	1.00			4871.00	
Recorder	0.00	6719	Outside	4871.00	
Recorder	0.00	6773	Inside	4871.00	
Perforations	3.00			4874.00	
Change Over Sub	1.00			4875.00	
Blank Spacing	32.00			4907.00	
Change Over Sub	1.00			4908.00	
Perforations	19.00			4927.00	
Bullnose	3.00			4930.00	60.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54130

DST#: 1

ATTN: Kevin Timson

Test Start: 2014.08.10 @ 15:12:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

3900 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOWCM 5%w 27%m 33%g 35%o	0.295
60.00	GOWCM 5%w 25%m 30%o 40%g	0.295
20.00	OCM 5%o 95%m	0.098

Total Length: 140.00 ft

Total Volume: 0.688 bbl

Num Fluid Samples: 0

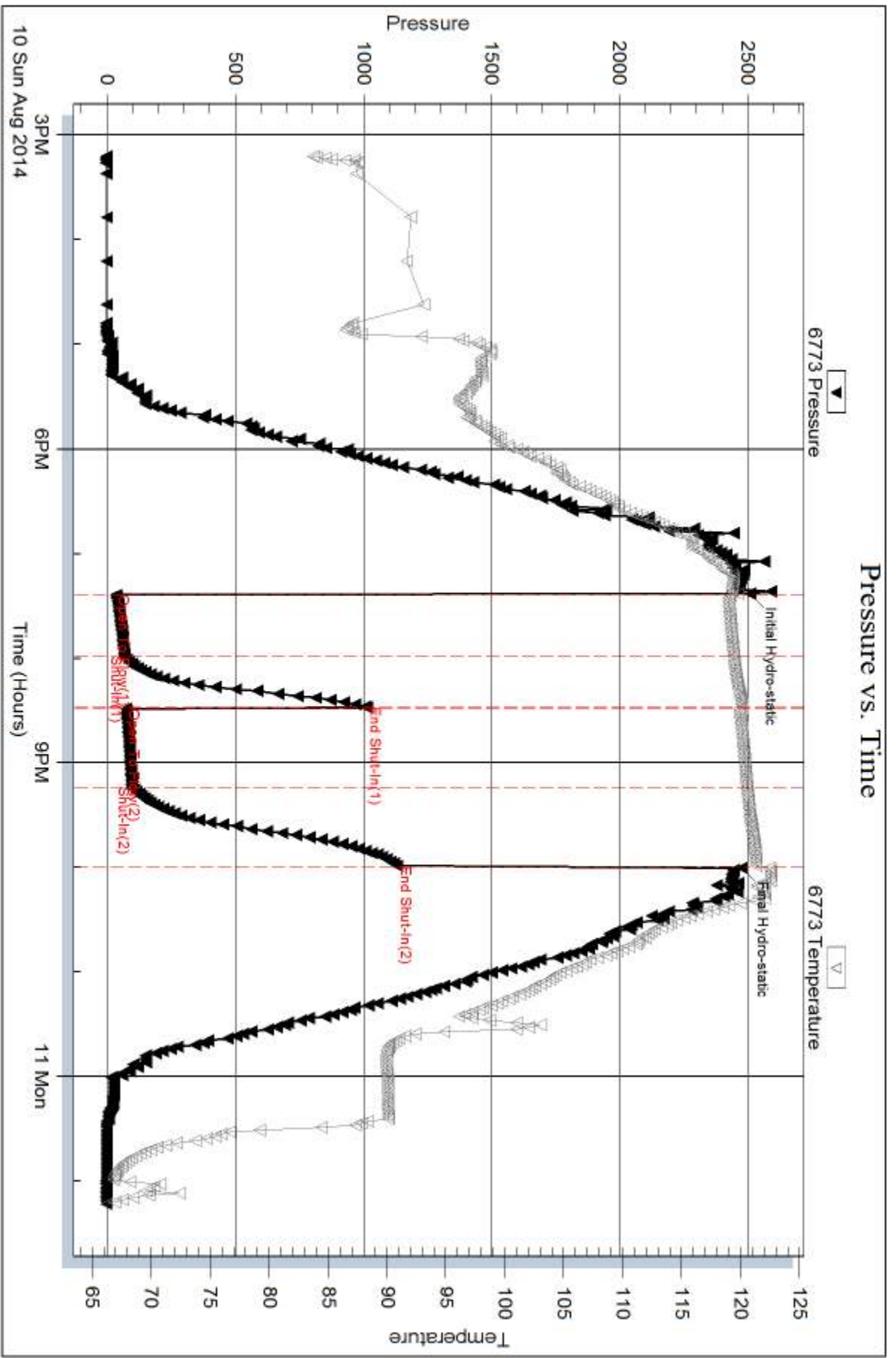
Num Gas Bombs: 0

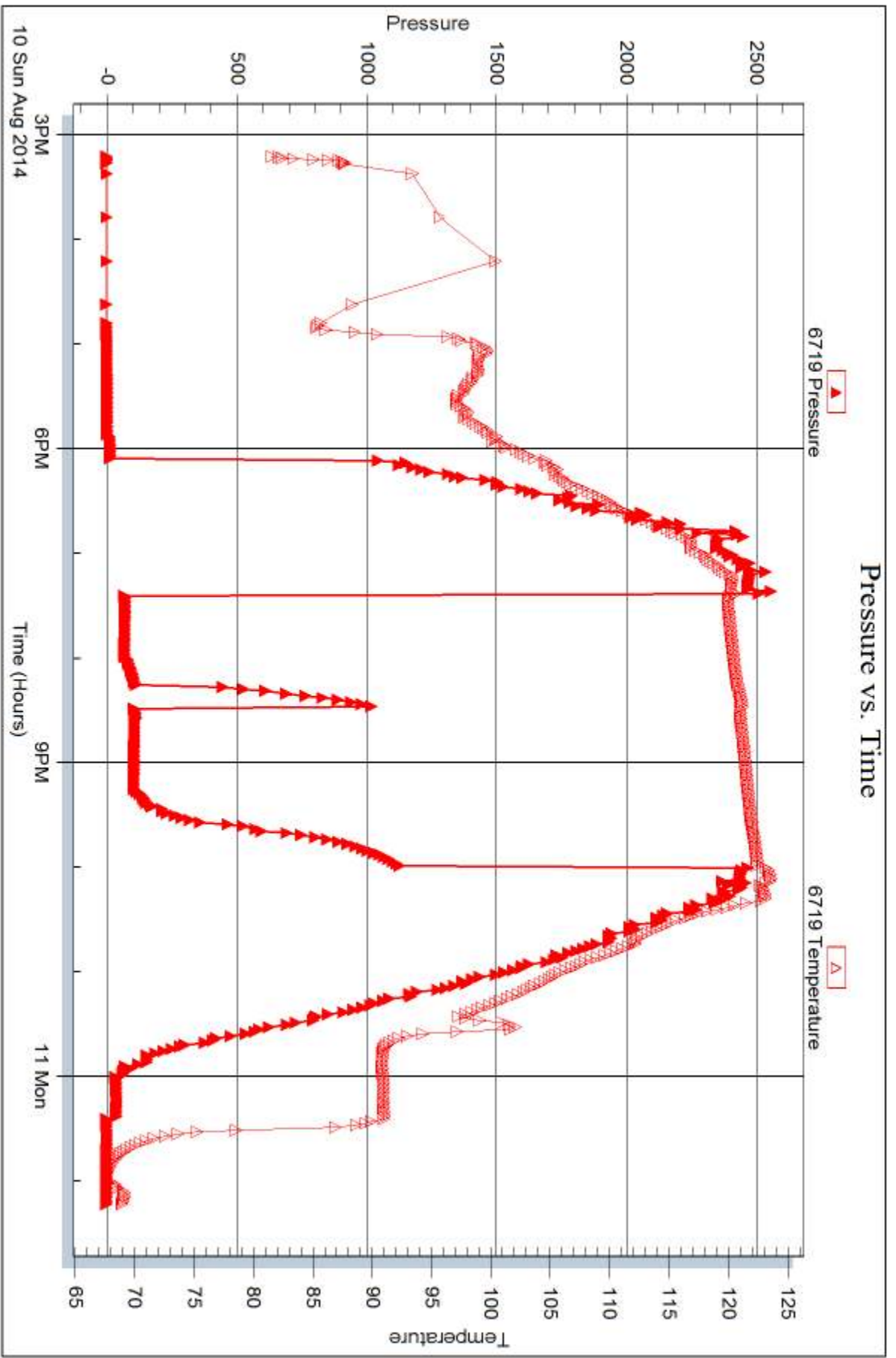
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Katherine #2-19

19-24s-30w Gray,KS

Start Date: 2014.08.11 @ 15:08:21

End Date: 2014.08.11 @ 22:44:51

Job Ticket #: 54131 DST #: 2

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

Printed: 2014.08.13 @ 17:30:47



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc.

19-24s-30w Gray, KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54131

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.08.11 @ 15:08:21

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:06

Time Test Ended: 22:44:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 53

Interval: 4990.00 ft (KB) To 5010.00 ft (KB) (TVD)

Reference Elevations: 2891.00 ft (KB)

Total Depth: 5010.00 ft (KB) (TVD)

2880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6773 Inside

Press@RunDepth: 23.09 psig @ 4991.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.11

End Date:

2014.08.11

Last Calib.:

2014.08.11

Start Time: 15:08:26

End Time:

22:44:50

Time On Btm:

2014.08.11 @ 18:30:51

Time Off Btm:

2014.08.11 @ 19:53:21

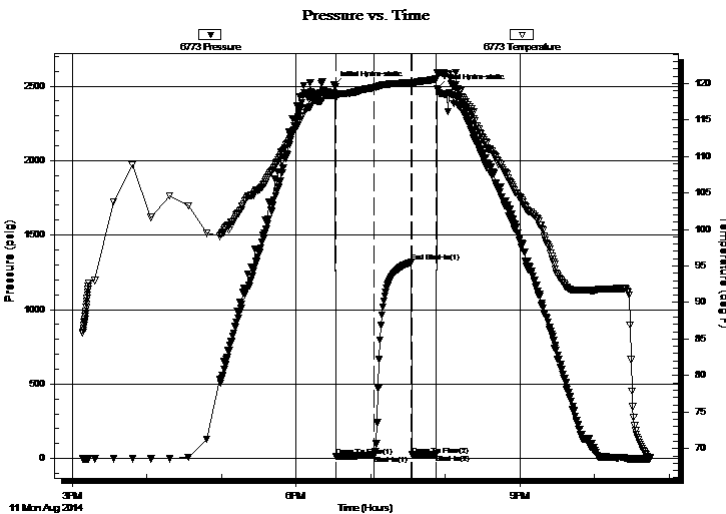
TEST COMMENT: IF: Weak blow . Surf., - 1/4".

IS: No blow .

FF: No blow .

FS: Pulled

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2506.07	118.40	Initial Hydro-static
2	15.06	117.93	Open To Flow (1)
32	23.09	119.44	Shut-In(1)
62	1318.14	120.13	End Shut-In(1)
63	24.39	119.86	Open To Flow (2)
82	29.37	120.60	Shut-In(2)
83	2481.00	121.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig Mud w / trace oil 100%m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.

19-24s-30w Gray, KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54131

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.08.11 @ 15:08:21

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:06

Time Test Ended: 22:44:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 53

Interval: 4990.00 ft (KB) To 5010.00 ft (KB) (TVD)

Total Depth: 5010.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2891.00 ft (KB)

2880.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6719 Outside

Press@RunDepth: psig @ 4991.00 ft (KB)

Start Date: 2014.08.11

End Date:

2014.08.11

Start Time: 15:09:02

End Time:

22:45:41

Capacity: 8000.00 psig

Last Calib.:

2014.08.11

Time On Btm:

Time Off Btm:

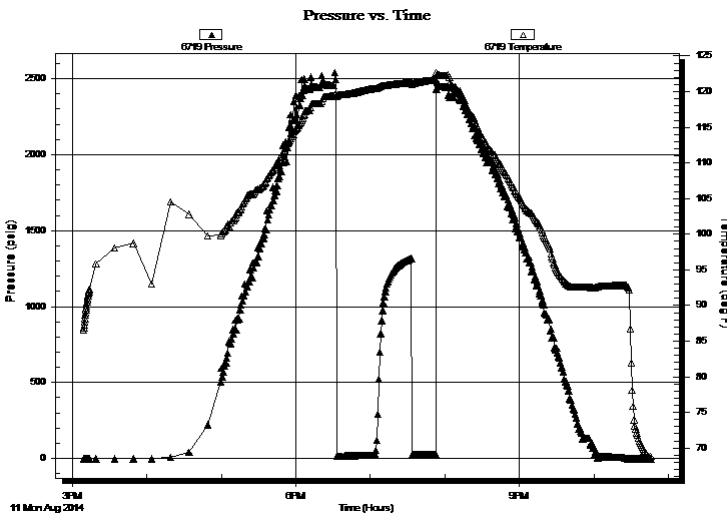
TEST COMMENT: IF: Weak blow . Surf., - 1/4".

IS: No blow .

FF: No blow .

FS: Pulled

PRESSURE SUMMARY



Time (Min.)

Pressure (psig)

Temp (deg F)

Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig Mud w / trace oil 100%m	0.10

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54131

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.08.11 @ 15:08:21

Tool Information

Drill Pipe:	Length: 4747.00 ft	Diameter: 3.80 inches	Volume: 66.59 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 67.81 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4990.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	48.00 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			4963.00	
Shut In Tool	5.00			4968.00	
Hydraulic tool	5.00			4973.00	
Jars	5.00			4978.00	
Safety Joint	3.00			4981.00	
Packer	4.00			4985.00	28.00 Bottom Of Top Packer
Packer	5.00			4990.00	
Stubb	1.00			4991.00	
Recorder	0.00	6719	Outside	4991.00	
Recorder	0.00	6773	Inside	4991.00	
Perforations	16.00			5007.00	
Bullnose	3.00			5010.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54131

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.08.11 @ 15:08:21

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:

3900 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drig Mud w / trace oil 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

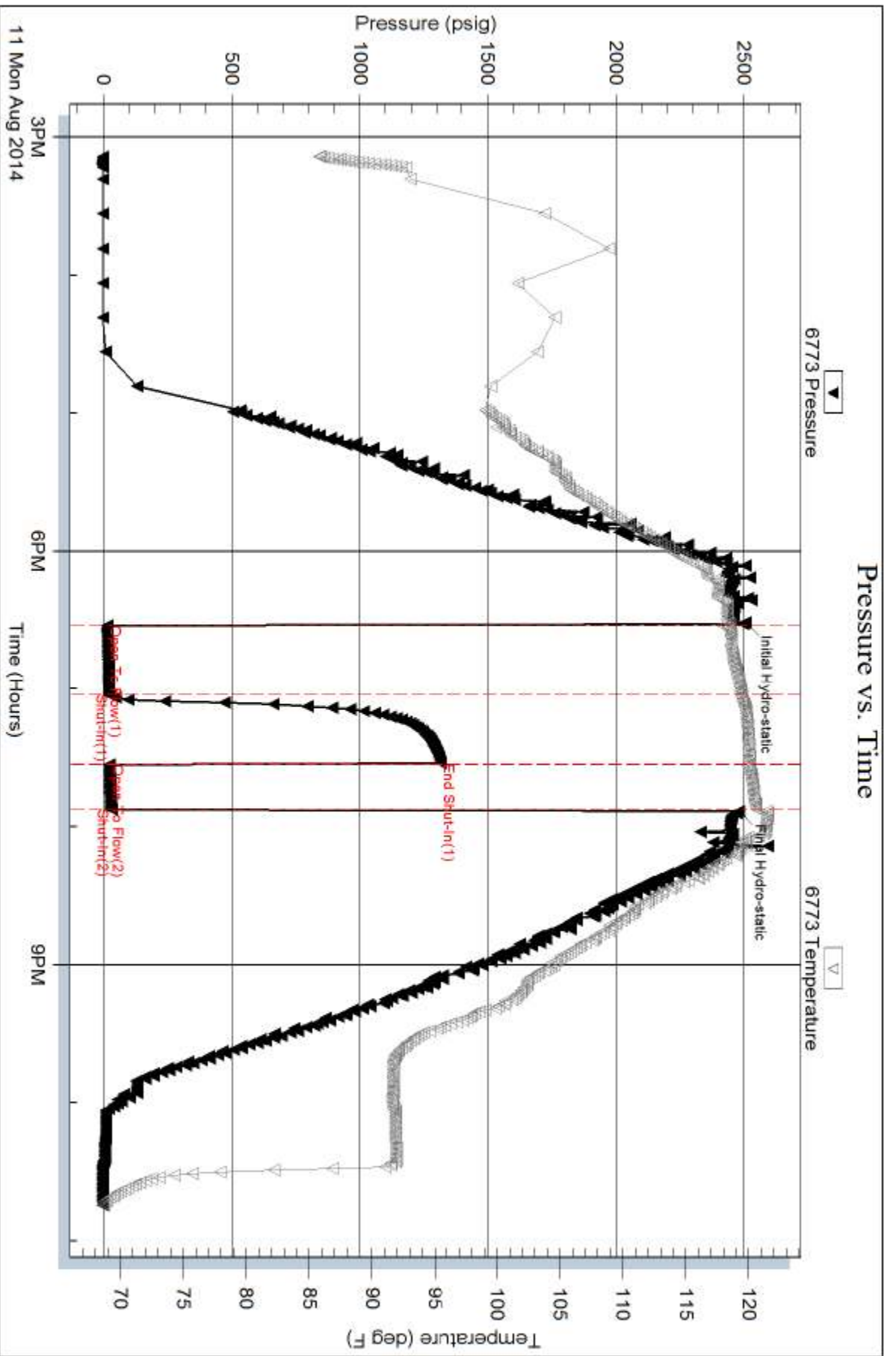
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

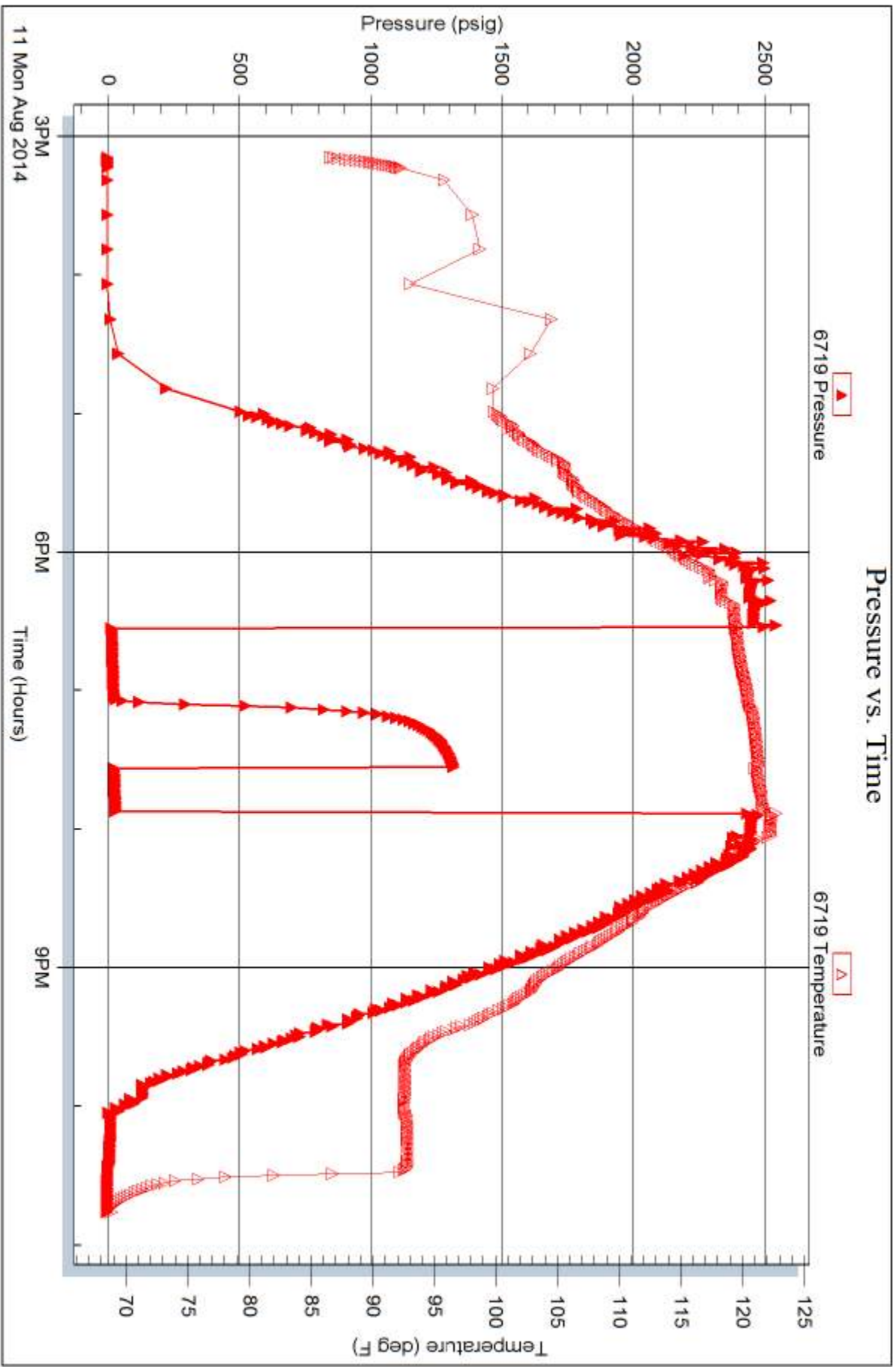


Serial #: 6719

Outside American Warrior, Inc.

Katherine #2-19

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54131

Printed: 2014.08.13 @ 17:30:49



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54130**

Well Name & No. Katheeme # 2-19 Test No. 1 Date 8/10/14
 Company American Warrior, Inc. Elevation 2891 KB 2880 GL
 Address 3118 Cummings RD P.O. Box 399 Garden City, KS. 67846
 Co. Rep / Geo. Kevin Timson Rig Duke Rig # 5
 Location: Sec. 19 Twp. 24s Rge. 30w Co. Gray State KS.

Interval Tested 4870 - 4930 Zone Tested MORROW
 Anchor Length 60' Drill Pipe Run 4615 Mud Wt. 9.5
 Top Packer Depth 4865 Drill Collars Run 248 Vis 48
 Bottom Packer Depth 4870 Wt. Pipe Run Ø WL 9.6
 Total Depth 4930 Chlorides 3,900 ppm System LCM 2[#]

Blow Description IF: Weak blow. Surf., - 1 1/2".
ISI: No blow.
FF: Fair blow. Surf., - 8". Bleed off in 4 mins.
FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OCM</u>		<u>5</u>		<u>95</u>
<u>60</u>	<u>GOWCM</u>	<u>40</u>	<u>30</u>	<u>5</u>	<u>25</u>
<u>60</u>	<u>GOWCM</u>	<u>33</u>	<u>35</u>	<u>5</u>	<u>27</u>

Rec Total 140' BHT 121° Gravity N.A. API RW N.C @ —° F Chlorides 3,900 ppm

(A) Initial Hydrostatic <u>2510</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1440</u>
(B) First Initial Flow <u>35</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1512</u>
(C) First Final Flow <u>67</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1923</u>
(D) Initial Shut-In <u>1013</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2200</u>
(E) Second Initial Flow <u>73</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0113</u>
(F) Second Final Flow <u>98</u>	<input checked="" type="checkbox"/> Mileage <u>(254)</u> 393.70	Comments _____
(G) Final Shut-In <u>1137</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2478</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1968.70</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1968.70</u>	

Approved By _____ Our Representative Matthew A. Smith

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54131

Well Name & No. Katherine # 2-19 Test No. 2 Date 8/11/14
 Company American Warrior, Inc. Elevation 2891 KB 2880 GL
 Address 3118 Cummings RD P.O. Box 399 Garden City, KS. 67846
 Co. Rep / Geo. Kevin Timson Rig Duke Rig # 5
 Location: Sec. 19 Twp. 24s Rge. 30w Co. GRAY State KS.

Interval Tested 4990 - 5010 Zone Tested St. Louis
 Anchor Length 20' Drill Pipe Run 4,747 Mud Wt. 9.3
 Top Packer Depth 4985 Drill Collars Run 248 Vis 62
 Bottom Packer Depth 4990 Wt. Pipe Run Q WL 8.8
 Total Depth 5010 Chlorides 3,900 ppm System LCM 2#

Blow Description IF: Weak blow. Surf., - 1/4"
ISI: No blow.
FF: No blow.
FSI: Pulled Test

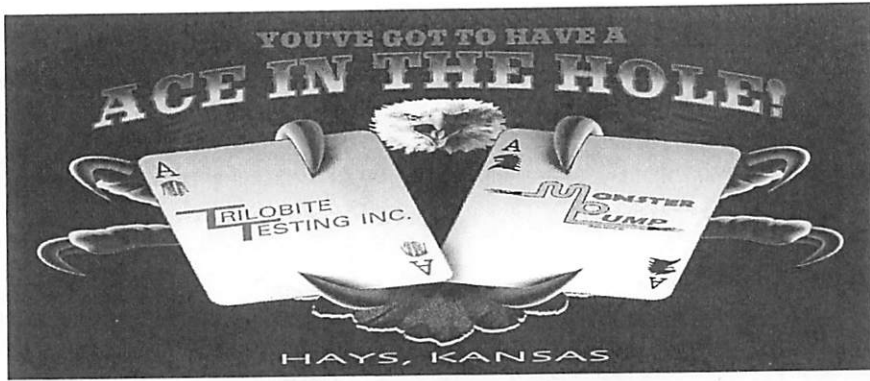
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>DEIG Mud w/IRC Oil</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 121° Gravity N.A. API RW Nic @ — °F Chlorides 3,900 ppm
 (A) Initial Hydrostatic 2506 Test 1350 T-On Location 1450
 (B) First Initial Flow 15 Jars 250 T-Started 1508
 (C) First Final Flow 23 Safety Joint 75 T-Open 1832
 (D) Initial Shut-In 1318 Circ Sub _____ T-Pulled 1953
 (E) Second Initial Flow 24 Hourly Standby _____ T-Out 2244
 (F) Second Final Flow 29 Mileage 254 393.70 Comments _____
 (G) Final Shut-In Pulled Sampler _____
 (H) Final Hydrostatic 2481 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 10 Extra Recorder _____ Sub Total 0
 Final Shut-In Pulled Day Standby _____ Total 2068.70
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2068.70

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.



TRK # 53
 MATT Smith
 Pratt Shop

Rig: DUKE #5

	Name	M	L	XL	2X	3X	4X
Morning Tower	1 Jason Jellison			✓			
	2 LARRY COSS				X		
	3 Richard Rawson			✓			
	4 Damon Mosshart			✓			

Evening Tower	1 Frank Roddy		✓				
	2 Sonny Morris		✓				
	3 Keifer Heade		✓				
	4 Tyler Cleaver		✓				

Daylights	1 Roy Craig			✓	X		
	2 Charles Stout				X		
	3 marvin moon				X		
	4 Harold McQuade		✓				

Tool Pusher	KENNETH M'GUIRE			✓			
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Geologist	Kevin Timson		✓				
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Relief →

Mike					X		
Tony					X		
MARSHAL STATHS				X			
Back-up Hand					X		

OR Gary will give to Tool Pusher they live by each (2-Blocks)

* Probably Send to Scott City Shop they will move over by Charleston, Geary Co.

Geological Report

American Warrior, Inc.

Katherine #2-19

1802' FNL & 640' FWL

Sec. 19, T24s, R30w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Katherine #2-19
1802' FNL & 640' FWL
Sec. 19, T24s, R30w
Gray County, Kansas
API # 15-069-20478-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: August 3, 2014

Completion Date: August 13, 2014

Elevation 2880' G.L.
2891' K.B.

Directions: From Garden City, Go SE on Hwy 50 to Pole Line Rd. Go East 5 miles to Mennonite Rd. Go South $\frac{3}{4}$ mile and East into.

Casing: 1702' 8 5/8" #24 Surface Casing
5128' 5 1/2" #15.5 Production Casing

Samples: 4600' to RTD 10' Wet & Dry

Drilling Time: 4000' to RTD

Electric Logs: Pioneer Energy Services "J. Henrickson"
Full Sweep

Drillstem Tests: Two-Trilobite Testing "Matt Smith"

Problems: None

Formation Tops

Katherine #2-19

Sec. 19, T24s, R30w

1802' FNL & 640' FWL

Anhydrite	1967' +924
Base	2040' +851
Heebner	4056' -1165
Lansing	4111' -1220
Stark	4458' -1567
Bkc	4588' -1697
Marmaton	4611' -1720
Pawnee	4690' -1799
Fort Scott	4714' -1823
Cherokee	4726' -1835
Morrow	4878' -1987
Miss	4905' -2014
RTD	5150' -2259
LTD	5152' -2261

Sample Zone Descriptions

St. Louis (4905', -2014): Covered in DST #2

Ls. Tan. Sub crystalline. Fair oomoldic and oolycastic porosity. Poor stain. No saturation. No odor. No show of free oil. 50 unit hotwire.

Morrow (4878', -1987): Covered in DST #1

Sandstone. Grey/slightly glauconitic. Fair to coarse grained. Coarse grain were pyrite cemented. Well rounded. Poor stain. Poor saturation. Poor odor. No show of free oil. 110 unit hotwire.

Drill Stem Tests

Trilobite Testing

“Matt Smith”

DST #1

Morrow

Interval (4870' – 4930') Anchor Length 60'

IHP - 2510 #

IFP - 30" – WSB built to 1 ½" 35-67 #

ISI - 30" – No return 1013 #

FFP - 45" – WSB built to 8" 73-98 #

FSIP - 45" – No return 1137 #

FHP - 2478 #

BHT - 121° F

Recovery: 20' OCM (5% Oil)

60' GOWCM (30% Oil, 5% Water)

60' GOWCM (35% Oil, 5% Water)

DST #2

St. Louis

Interval (4990' – 5010') Anchor Length 20'

IHP - 2506 #

IFP - 30" – WSB 15-23 #

ISI - 30" – No return 1318 #

FFP - 10" – No blow 24-29 #

FSIP - Pull Tool NA

FHP - 2481 #

BHT - 121° F

Recovery: 20' Mud with trace of oil

Structural Comparison

	American Warrior, Inc. Katherine #2-19 Sec. 19, T24s, R30w 1802' FNL & 640' FWL		Sharon Resources Gates #19-1 Sec. 19, T24s, R30w 2100' FNL & 330' FWL		American Warrior, Inc. Irsik-Finney #4-23 Sec 23, T24s, R31w 528' FSL & 2580' FWL
Formation					
Heebner	4056' -1165	+9	4056' -1174	-28	4020' -1137
Lansing	4111' -1220	+8	4110' -1228	-32	4071' -1188
Stark	4458' -1567	+1	4450' -1568	-25	4425' -1542
BKC	4588' -1697	+1	4580' -1698	-24	4556' -1673
Marmaton	4611' -1720	+2	4604' -1722	-27	4576' -1693
Pawnee	4690' -1799	-2	4679' -1797	-30	4652' -1769
Fort Scott	4714' -1823	FL	4704' -1823	-28	4678' -1795
Cherokee	4726' -1835	+2	4719' -1837	-28	4690' -1807
Morrow	4878' -1987	+3	4871' -1990	-24	4846' -1963
Miss	4905' -2014	+4	4900' -2018	-17	4880' -1997

Summary

The location for the Katherine #2-19 well was found via 3-D seismic survey, but moved via geo chem. The new well ran structurally as expected. Two drill stem tests were conducted, one of which recovered commercial quantities of oil from the Morrow Sandstone. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the Katherine #2-19 well.

Perforations

Primary: St. Louis (5003' – 5009')

Secondary: Morrow (4899' – 4907')

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.

