

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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 Geologist Report / Mud Logs <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
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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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Lillie 4-30
Doc ID	1282499

Tops

Name	Top	Datum
Topeka	2606	-725
Heebner	2895	-1014
Toronto	2914	-1033
Douglas	2926	-1045
Lansing	3017	-1136
BKC	3294	-1413
Congl.	3320	-1439
Arbuckle	3351	-1469





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Cecil O'Brate Luke T

**Lillie #4-30**

**30-16s-10w Ellsworth,KS**

Start Date: 2015.10.28 @ 10:45:55

End Date: 2015.10.28 @ 15:40:34

Job Ticket #: 62674                      DST #: 1

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

Printed: 2015.10.30 @ 07:51:35



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc

**30-16s-10w Ellsworth,KS**

PO Box 399  
Garden City KS 67846

**Lillie #4-30**

Job Ticket: 62674

**DST#: 1**

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.28 @ 10:45:55

## GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:02:05

Time Test Ended: 15:40:34

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

**Interval: 3147.00 ft (KB) To 3220.00 ft (KB) (TVD)**

Reference Elevations: 1881.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1873.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8018

Inside

Press@RunDepth: 41.32 psig @ 3153.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.28

End Date:

2015.10.28

Last Calib.: 2015.10.28

Start Time: 10:45:55

End Time:

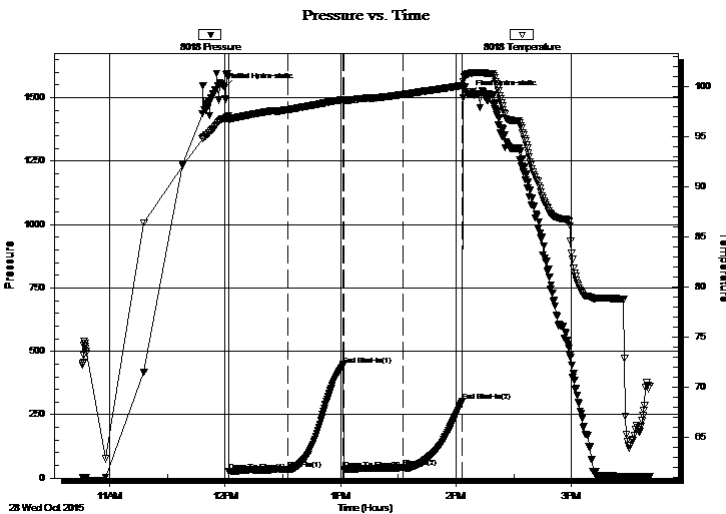
15:40:34

Time On Btm: 2015.10.28 @ 11:59:35

Time Off Btm: 2015.10.28 @ 14:06:50

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 1/2" bl  
30-ISIP-no bl  
30-FFP-w k bl thru-out 1/4" bl  
30-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1540.38	96.83	Initial Hydro-static
3	26.64	96.66	Open To Flow (1)
33	33.81	97.72	Shut-In(1)
62	447.02	98.73	End Shut-In(1)
62	35.79	98.56	Open To Flow (2)
93	41.32	99.24	Shut-In(2)
124	301.76	100.13	End Shut-In(2)
128	1513.85	101.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/ show of oil	0.14

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc

**30-16s-10w Ellsworth,KS**

PO Box 399  
Garden City KS 67846

**Lillie #4-30**

Job Ticket: 62674

**DST#: 1**

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.28 @ 10:45:55

## Tool Information

Drill Pipe:	Length: 2815.00 ft	Diameter: 3.80 inches	Volume: 39.49 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.70 inches	Volume: 2.20 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 41.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3147.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3119.00	
Shut In Tool	5.00			3124.00	
Hydraulic tool	5.00			3129.00	
Jars	5.00			3134.00	
Safety Joint	3.00			3137.00	
Packer	5.00			3142.00	29.00 Bottom Of Top Packer
Packer	5.00			3147.00	
Stubb	1.00			3148.00	
Perforations	5.00			3153.00	
Recorder	0.00	8018	Inside	3153.00	
Recorder	0.00	8700	Outside	3153.00	
Blank Spacing	64.00			3217.00	
Bullnose	3.00			3220.00	73.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**30-16s-10w Ellsworth,KS**

PO Box 399  
Garden City KS 67846

**Lillie #4-30**

Job Ticket: 62674

**DST#: 1**

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.28 @ 10:45:55

## 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: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.74 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	Mud w / show of oil	0.142

Total Length: 20.00 ft      Total Volume: 0.142 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

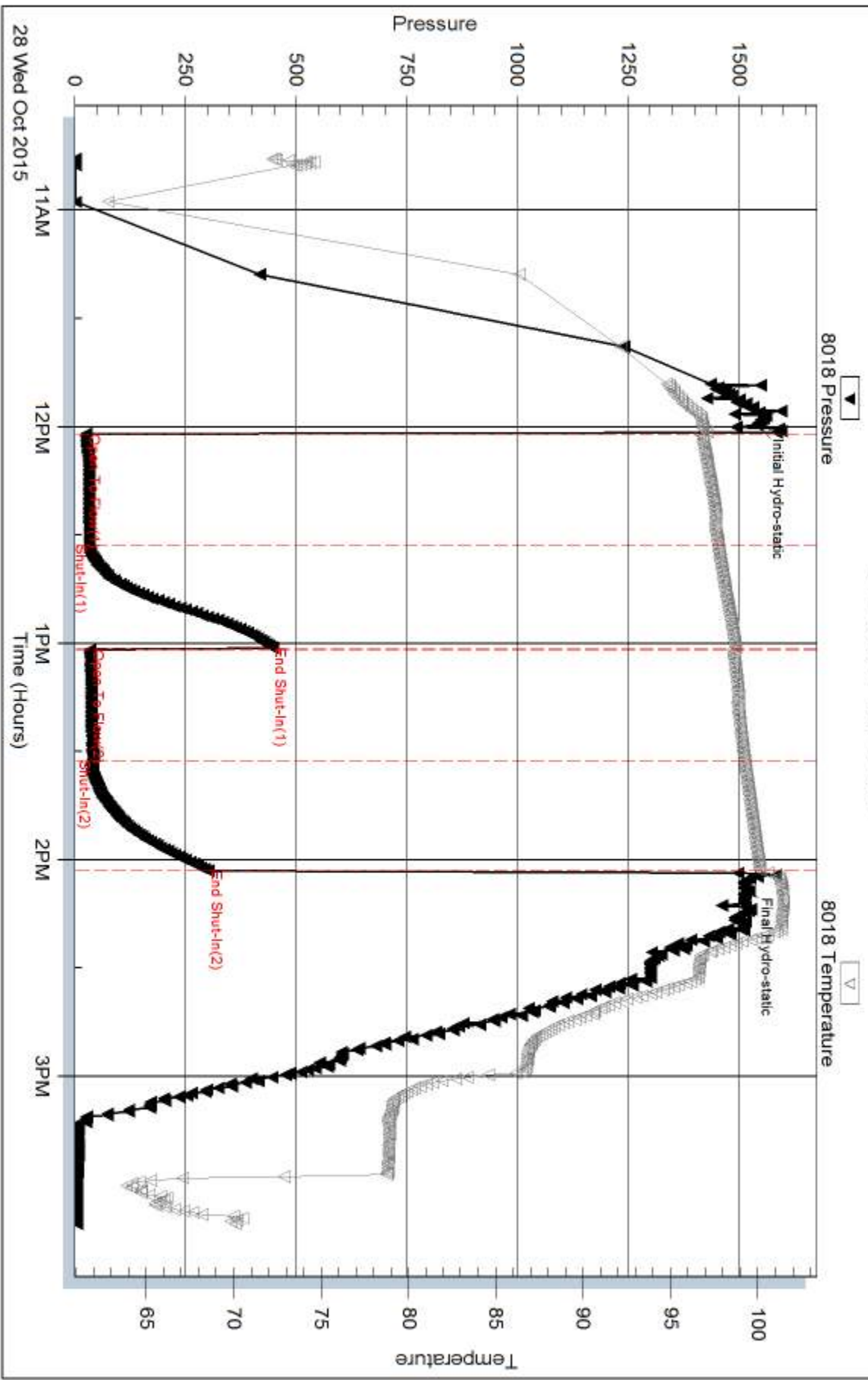
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

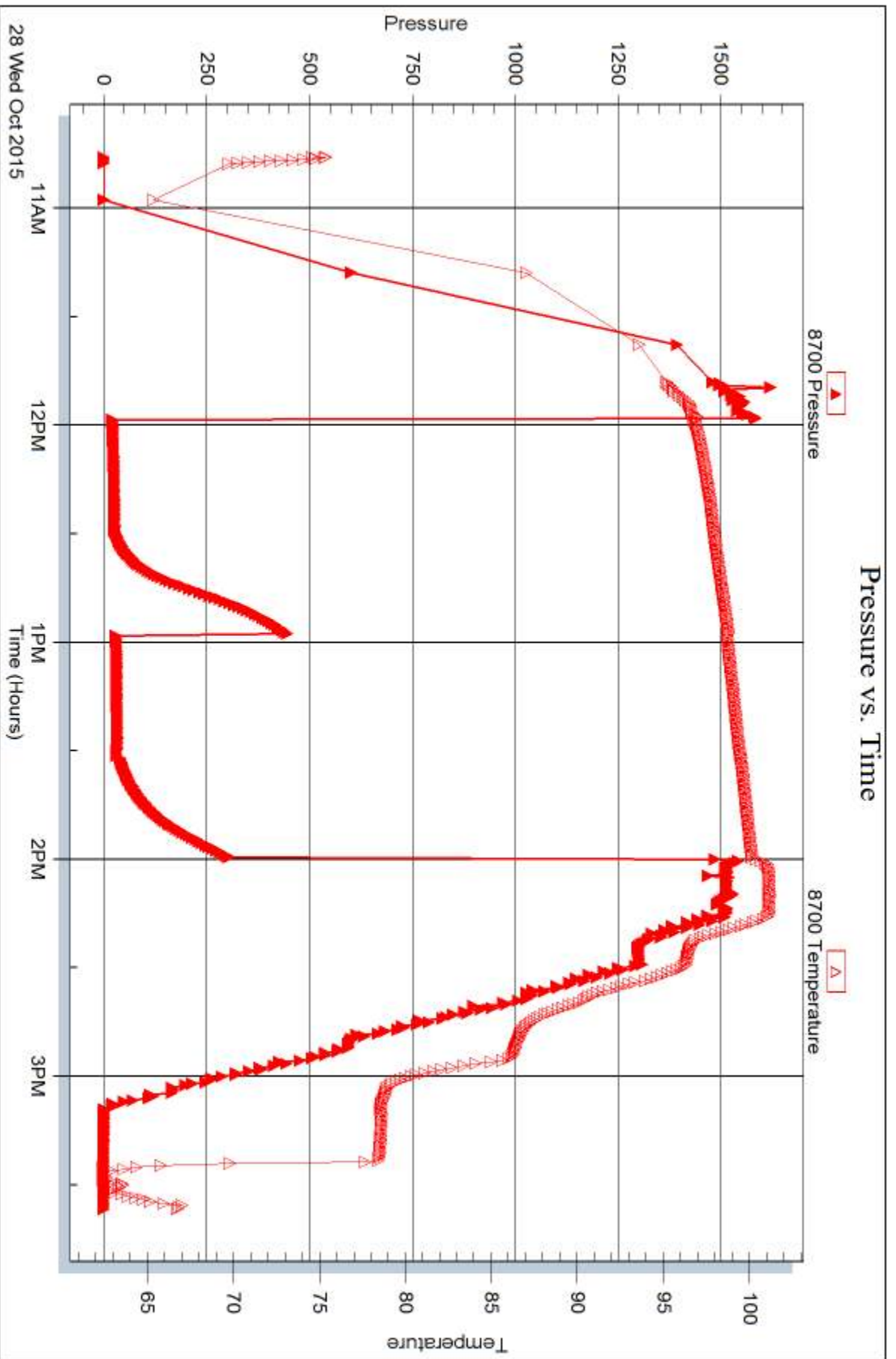


Serial #: 8700

Outside American Warrior Inc

Lille #4-30

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62674

Printed: 2015.10.30 @ 07:51:36



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Cecil O'Brate Luke T

**Lillie #4-30**

**30-16s-10w Ellsworth,KS**

Start Date: 2015.10.29 @ 08:46:04

End Date: 2015.10.29 @ 16:02:28

Job Ticket #: 62675                      DST #: 2

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

Printed: 2015.10.30 @ 07:51:03



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc

**30-16s-10w Ellsworth,KS**

PO Box 399  
Garden City KS 67846

**Lillie #4-30**

Job Ticket: 62675

**DST#: 2**

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.29 @ 08:46:04

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:04:44

Time Test Ended: 16:02:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

**Interval: 3319.00 ft (KB) To 3390.00 ft (KB) (TVD)**

Reference Elevations: 1881.00 ft (KB)

Total Depth: 3390.00 ft (KB) (TVD)

1873.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8018**

**Inside**

Press@RunDepth: 601.95 psig @ 3323.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.29

End Date:

2015.10.29

Last Calib.:

2015.10.29

Start Time: 08:46:04

End Time:

16:02:28

Time On Btm:

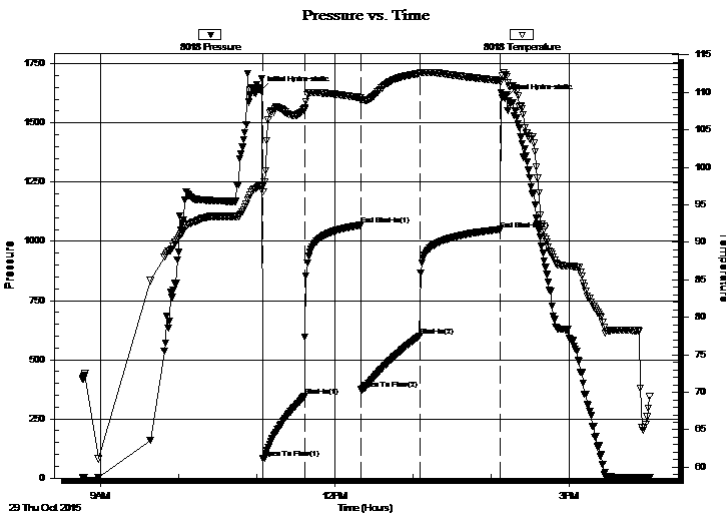
2015.10.29 @ 11:02:44

Time Off Btm:

2015.10.29 @ 14:10:58

**TEST COMMENT:** 30-IFP-w k to strg in 3 min  
45-ISIP-no bl bk  
45-FFP-w k to strg in 5 min  
60-FSIP-no bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.63	97.59	Initial Hydro-static
2	84.20	96.71	Open To Flow (1)
34	347.38	107.74	Shut-In(1)
77	1068.15	109.31	End Shut-In(1)
78	375.57	108.91	Open To Flow (2)
123	601.95	112.49	Shut-In(2)
185	1050.15	111.57	End Shut-In(2)
189	1604.32	112.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
866.00	Water	9.99
340.00	SOCMW 2%O25%M73%W	4.77
124.00	SOCW 2%O98%W	1.74

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc

**30-16s-10w Ellsworth,KS**

PO Box 399  
Garden City KS 67846

**Lillie #4-30**

Job Ticket: 62675

**DST#: 2**

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.29 @ 08:46:04

## Tool Information

Drill Pipe:	Length: 3006.00 ft	Diameter: 3.80 inches	Volume: 42.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.70 inches	Volume: 2.20 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3319.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	100.00 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			3291.00	
Shut In Tool	5.00			3296.00	
Hydraulic tool	5.00			3301.00	
Jars	5.00			3306.00	
Safety Joint	3.00			3309.00	
Packer	5.00			3314.00	29.00 Bottom Of Top Packer
Packer	5.00			3319.00	
Stubb	1.00			3320.00	
Perforations	3.00			3323.00	
Recorder	0.00	8018	Inside	3323.00	
Recorder	0.00	8700	Outside	3323.00	
Blank Spacing	64.00			3387.00	
Bullnose	3.00			3390.00	71.00 Bottom Packers & Anchor

**Total Tool Length: 100.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**30-16s-10w Ellsworth,KS**

PO Box 399  
Garden City KS 67846

**Lillie #4-30**

Job Ticket: 62675

**DST#: 2**

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.29 @ 08:46:04

## 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:

20000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.70 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
866.00	Water	9.995
340.00	SOCMW 2%O25%M73%W	4.769
124.00	SOCW 2%O98%W	1.739

Total Length: 1330.00 ft      Total Volume: 16.503 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

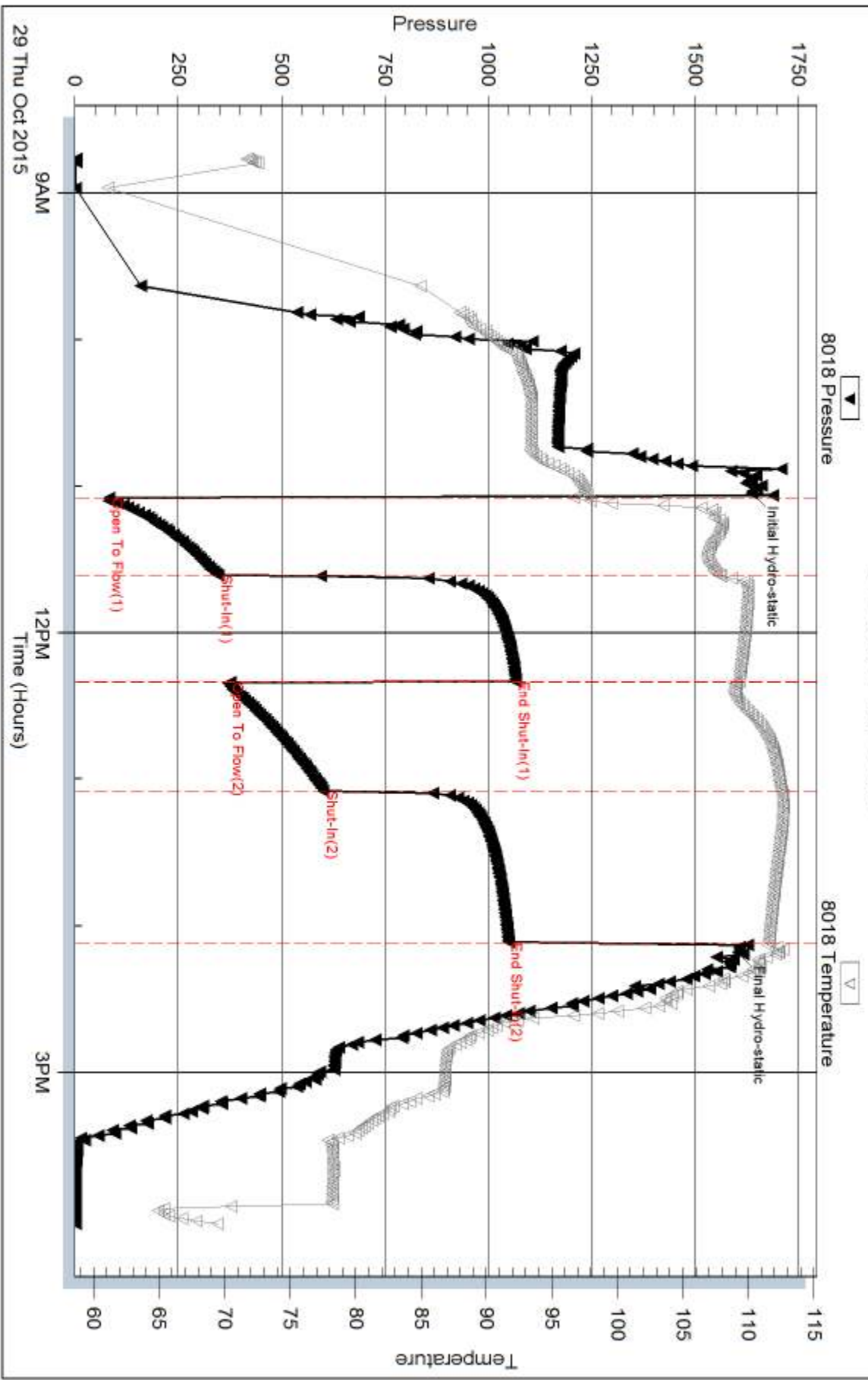
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .33@70F



### Pressure vs. Time

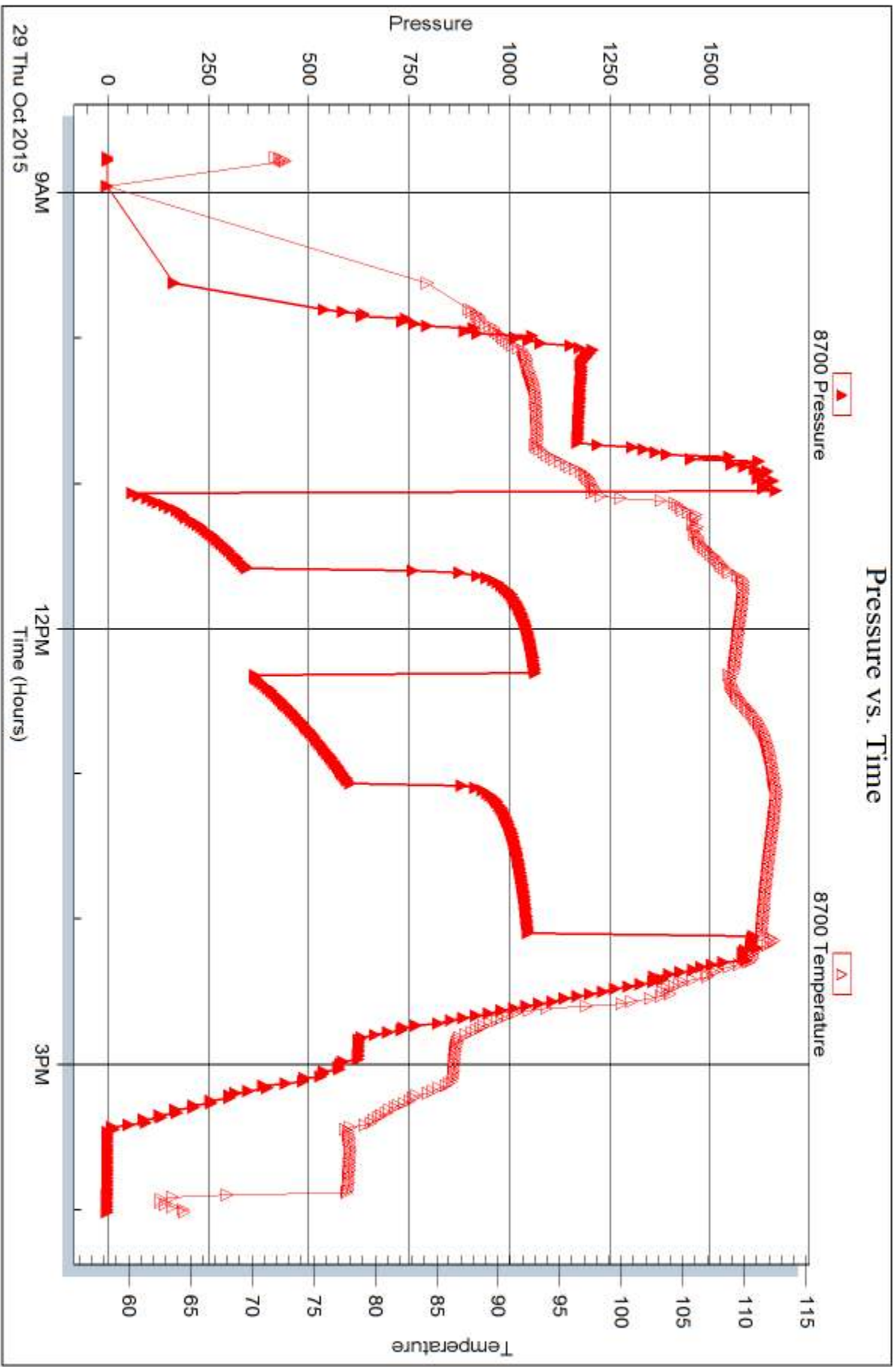


Serial #: 8700

Outside American Warrior Inc

Lille #4-30

DST Test Number: 2



Trickle Testing, Inc

Ref. No: 62675

Printed: 2015.10.30 @ 07:51:04



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62674

Well Name & No. LILLIE # 4-30 Test No. 1 Date 10-28-15  
 Company AMERICAN WARRIOR TNC Elevation 1881 KB 1873 GL  
 Address 3118 Cummings Rd, PO Box 399 Garden City, Ks 67846  
 Co. Rep / Geo. Luke Thompson Rig DISCOVERY rig 2  
 Location: Sec. 30 Twp. 16<sup>s</sup> Rge. 10<sup>w</sup> Co. Ellsworth State Ks

Interval Tested 3147-3220 Zone Tested LKC H-5  
 Anchor Length 73 Drill Pipe Run 2815 Mud Wt. 9.3  
 Top Packer Depth 3142 Drill Collars Run — Vis 58  
 Bottom Packer Depth 3147 Wt. Pipe Run 310 WL 8.8  
 Total Depth 3220 Chlorides 5200 ppm System LCM 1/2<sup>#</sup>  
 Blow Description TFP - WEAK Blow thru-out 1/4" To 1/2" Blow  
TSIP - NO Blow  
FFP - WEAK Blow thru-out 1/4" Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>				
	<u>w/slow oil</u>				

Rec Total 20 BHT 100 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1540</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1020</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1045</u>
(C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1205</u>
(D) Initial Shut-In <u>447</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1405</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1540</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>125 RT</u>	Comments <u>Motel stay</u>
(G) Final Shut-In <u>301</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1513</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1500</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1500</u>	

Approved By \_\_\_\_\_ Our Representative Ray Schwager Thad 404

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. 62675

Well Name & No. Lillie #4-30 Test No. 2 Date 10-29-15  
 Company AMERICAN WARRIOR Inc Elevation 1881 KB 1873 GL  
 Address 3118 Cummings Rd. Po Box 399 Garden City, Ks 67846  
 Co. Rep / Geo. Luke Thompson Rig Discovery rig 2  
 Location: Sec. 30 Twp. 16<sup>s</sup> Rge. 10<sup>w</sup> Co. ELLSWORTH State Ks

Interval Tested 3319-3390 Zone Tested Arbuckle  
 Anchor Length 71 Drill Pipe Run 3006 Mud Wt. 9.4  
 Top Packer Depth 3314 Drill Collars Run — Vis 50  
 Bottom Packer Depth 3319 Wt. Pipe Run 310 WL 8.8  
 Total Depth 3390 Chlorides 5200 ppm System LCM 1/2#  
 Blow Description TFP - WEAK TO STRONG IN 3 MIN  
ISIP - NO BLOW BACK  
FFP - WEAK TO STRONG IN 5 MIN  
FSIP - NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>866</u>	<u>WATER</u>				
<u>340</u>	<u>SOC MW</u>		<u>2</u>	<u>73</u>	<u>25</u>
<u>124</u>	<u>SOCW</u>		<u>2</u>	<u>98</u>	<del>2</del>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1330 BHT III Gravity — API RW .33 @ 70 °F Chlorides 20000 ppm

(A) Initial Hydrostatic <u>1636</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0700</u>
(B) First Initial Flow <u>84</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0845</u>
(C) First Final Flow <u>347</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1100</u>
(D) Initial Shut-In <u>1068</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1400</u>
(E) Second Initial Flow <u>375</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1602</u>
(F) Second Final Flow <u>601</u>	<input checked="" type="checkbox"/> Mileage <u>125</u>	Comments
(G) Final Shut-In <u>1050</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1604</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</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>60</u>	<input type="checkbox"/> Day Standby	Total <u>1500</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1500</u>	

Approved By \_\_\_\_\_ Our Representative Ray Schwager *Thank you*

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Services, Inc.

TICKET 28733

CHARGE TO: AMERICAN WIRELESS INC  
 ADDRESS: [blank]  
 CITY, STATE, ZIP CODE: [blank]

PAGE 1 OF 2

1. SERVICE LOCATIONS: Hays KS  
 2. Well Project No: 4-30  
 3. Lease: Little  
 4. County/Parish: Ellisworth  
 State: KS  
 City: [blank]  
 Date: 10-30-15  
 Owner: [blank]  
 Ticket Type:  SERVICE  SALES  
 Contractor: Discovery Drilling  
 RIG NAME NO: # 2  
 Shipped Via: [blank]  
 Delivered To: Location  
 Well Permitt No: [blank]  
 Well Location: [blank]  
 Well Type: SWD  
 Well Category: Development  
 Job Purpose: Long Spacing  
 Invoice Instructions: [blank]

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
ST75					MILEAGE # 111	70	Mi			5.00	350.00
ST98					Ramp Charge Long Spacing	1	EA			1250.00	1250.00
290					D-Air	3	GA			42.00	126.00
387					MudFlush	500	GA			1.25	625.00
221					Logist Mat	2	GA			25.00	50.00
402					Centralizer	6	EA		S 1/2	60.00	360.00
403					Chut Baskets	1	GA			250.00	250.00
405					Formation Payer. Sump	1	GA			1300.00	1300.00
406					Latid Down Plug + Baffle	1	EA			225.00	225.00

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: [Signature]  
 TIME SIGNED:  AM  P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				02	4536.00
WE UNDERSTOOD AND MET YOUR NEEDS?				02	5065.45
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				01	9599.45
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				01	9599.45
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	9599.45

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR: [Signature]  
 APPROVAL: [Signature]  
 Thank You!



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

TICKET CONTINUATION

TICKET No.

CUSTOMER American Laundry

WELL (1) Mile - 4-30

DATE 10-30-15

PAGE 1 OF

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M			QTY
330						Swift Multi-Density	125	SYS	15.75	1968.75	
325						Standard	100	SYS	12.25	1225.00	
284						Cal Seal	30	lbs	30.00	900.00	
283						Salt	54	lbs	20.00	1080.00	
292						Head 322	70	lbs	8.00	560.00	
226						Floater	57	lbs	2.25	128.25	
581						SERVICE CHARGE			1.50	337.50	
585						MILEAGE CHARGE	223.18	LOADED MILES	2.5	585.25	
							CUBIC FEET	481			
							TON MILES	225	SYS		
CONTINUATION TOTAL										5063.45	

JOB LOG

SWIFT Services, Inc.

DATE 10-30-18 PAGE NO. 1

CUSTOMER American Water WELL NO. 4-30 LEASE Lillie JOB TYPE Long Spring TICKET NO. 28733

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	6:30							On location
								5 1/2 17# Csg
								Rtd - 3600
								LTD - 3602
								Centralizers - 1, 3, 5, 7, 9, 11
								Basket - 1
								Insert - 3430'
	8:15							Start Running Csg
	9:50							Break Circ at Bottom
	10:30							<del>XXXXXX</del> Set PKR Shoe
	10:55	5	12			200		ump mud flush
		5	20			200		ump Vel Spacers
	11:00	2	14					plug Rat Hole - 30 SKS - SMD
		2	9.5					plug Mouse Hole - 20 SKS - SMD
	11:05	5	0			200		Start Cmt - 75 SMD @ 100 EA 2
	11:25	5	59.5			0		End Cmt
								Drop plug / wash p & L
	11:30	5	0			0		Start Disp
	11:45	4	79.5			1500		End Disp / Land plug
								Lift psi - 900
								Land psi - 1500
								Thanks
								David, Austin, J Reed



Services, Inc.

CHARGE TO: American Wadsworth Loc  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 28593

PAGE 1 OF 1

1. SERVICE LOCATIONS Ness City, Ks WELLS/PROJECT NO. 4-30 LEASE LDLITE COUNTY/PARISH ELLISBORO STATE KS CITY HOUSTON DATE 10-24-15 OWNER SAME

2. TICKET TYPE CONTRACTOR CONTRACTOR Discovery Data #2 RIG NAME NO. 85/8" SURFACE SHIPPED VIA OT DELIVERED TO HOUSTON ORDER NO.

3. WELLS TYPE Oil WELLS CATEGORY Development JOB PURPOSE 85/8" SURFACE WELLS PERMIT NO. S/10250, Ks - ORA, 3/14E

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT							
575				MILEAGE # 115	70	MT			5.00	350.00
576.5				PUMP GRASS	1	TONS			800.00	800.00
325				STANDARD CONERT	225	SUS			12.25	2756.25
278				GALOM CHLORIDE	10	SUS			40.00	400.00
279				BANDSIDE GEL	4	SUS			25.00	100.00
290				D-ADD	3	BARL			42.00	126.00
581				SEWIZE CHARGE CONERT	225	SUS			1.50	337.50
583				DEPAYGE	22050	lbs			771.75/TM	578.81

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

DATE SIGNED 10-24-15 TIME SIGNED 1930  A.M.  P.M.

SWIFT OPERATOR Wayne Wadsworth APPROVAL [Signature]

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?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PAGE TOTAL 5448.56

TAX 7.57% 253.67

TOTAL 5702.23

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 10-24-15 PAGE NO. 1

CUSTOMER AMERICAN WARRIOR

WELL NO. 4-30

LEASE LILLIE

JOB TYPE 8 5/8" SURFACE

TICKET NO. 28593

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1930							ON LOCATION - WATER TRAP
								TD - 411'
								TP - 411'
								8 5/8" # 28
								15' CEMENT LEFT TO PIPE
	2135							BREAK CIRCULATION
	2150	4 1/2	55		✓	150		MAX CEMENT - 225 SKS STANDARD 2% GEL, 3% CC - 14.7 MG
	2206	6 1/2	0		✓	300		DISPLACE CEMENT
	2210		24.7					CEMENT DISPLACED - SHOT IN
								CEMENT CIRCULATED TO DET 20 SKS
								WASH TRUCK
	2300							JOB COMPLETE
								THANK YOU WAYNE, COLE, ROB

# **Geological Report**

American Warrior, Inc.

**Lillie #4-30**

2305' FNL & 1610' FEL

Sec 30, T16s, R10w

Ellsworth County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Lillie #4-30  
2305' FNL & 1610' FEL  
Sec 30, T16s, R10w  
Ellsworth County, Kansas  
API # 15-053-21340-00-00

Drilling Contractor: Discovery Drilling Rig #2

Geologist: Luke Thompson

Spud Date: October 25, 2015

Completion Date: October 31, 2015

Elevation 1873' G.L.  
1881' K.B.

Directions: From the North side of Hollyrood, KS, at the intersection of Hwy 156 and Ave T go 3.8 miles west to County Line Rd on Ave T, go 3 miles North to Rd Q, go 0.5 miles East, go South into.

Casing: 411' 8 5/8" #28 Surface Casing  
3600' 5 1/2" #15.5 Production Casing

Samples: 2600' to RTD 10' Wet & Dry

Drilling Time: 2500' to RTD

Electric Logs: Pioneer Energy Services "J. Long"  
Stacked Micro

Drillstem Tests: Two-Trilobite Testing "Ray Schwager"

Problems: none encountered

## **Formation Tops**

**Lillie #4-30**

**2305' FNL & 1610' FEL**

**Sec 30, T16s, R10w**

<b>Anhydrite</b>	<b>660' +1221</b>
<b>Base</b>	<b>688' +1193</b>
<b>Howard</b>	<b>2568' -687</b>
<b>Topeka</b>	<b>2606' -725</b>
<b>Lecompton</b>	<b>2741' -860</b>
<b>Plattsmouth</b>	<b>2814' -933</b>
<b>Heebner</b>	<b>2895' -1014</b>
<b>Toronto</b>	<b>2914' -1033</b>
<b>Douglas</b>	<b>2926' -1045</b>
<b>Brown Lime</b>	<b>2997' -1116</b>
<b>Lansing</b>	<b>3017' -1136</b>
<b>Stark</b>	<b>3234' -1353</b>
<b>BKC</b>	<b>3294' -1413</b>
<b>Conglomerate</b>	<b>3320' -1439</b>
<b>Arbuckle</b>	<b>3351' -1469</b>
<b>RTD</b>	<b>3600' -1719</b>
<b>LTD</b>	<b>3602' -1721</b>

## Sample Zone Descriptions

**Lansing H-J**                    **(3162', -1281 & 3204', -1323)**                    **Covered in DST #1**

**(Lansing H; 3162')** Limestone, tan, oolitic, fair oomoldic porosity, slight odor, scattered fair stain, fair saturation, fair show of free oil. Gas unit not working.

**(Lansing J; 3204')** Limestone, tan, oolitic, good oomoldic porosity, fair odor, scattered poor stain, fair saturation, poor to fair show of free oil. Gas unit not working.

**Arbuckle**                    **(3372', -1491)**                    **Covered in DST #2**

Dolomite, tan, fine crystalline, sucrosic, fair inter-crystalline porosity, strong odor, poor stain, fair saturation, fair slow stream cut, fair show of free oil. Gas unit not working.

## Drill Stem Tests

Trilobite Testing  
"Ray Schwager"

### DST #1

#### Lansing H-J

Interval (3147' – 3220') Anchor Length 73'

IHP - 1540 #

IFP - 30" – ¼" to ½" blow 27-34 #

ISI - 30" – No Return 447 #

FFP - 30" – ¼" blow 36-41 #

FSIP - 30" – No return 302 #

FHP - 1514 #

BHT - 101 ° F

**Recovery:** 20' M w/show of oil

### DST #2

#### Arbuckle

Interval (3319' – 3390') Anchor Length 71'

IHP - 1637 #

IFP - 30" – BOB in 3 min 84-347 #

ISI - 45" – No Return 1068 #

FFP - 45" – BOB 5 min 375-602 #

FSIP - 60" – No Return 1050 #

FHP - 1604 #

BHT - 112 ° F

**Recovery:** 124' SOCW (2% O)

340' SOCMW (2% O)

866' W

## Structural Comparison

	American Warrior, Inc. Lillie #4-30 Sec. 30, T16s, R10w 2305' FNL & 1610' FEL		American Warrior, Inc. Lillie #2-30 Sec. 30, T16s, R10w 633' FNL & 2097' FEL		American Warrior, Inc. Lillie #1 Sec. 30, T16s, R10w 2970' FSL & 2310' FEL
<b>Formation</b>					
Topeka	2606' -725	+9	2624' -734	+5	2610' -730
Heebner	2895' -1014	+12	2916' -1026	+5	2902' -1019
Toronto	2914' -1033	+12	2935' - 1045	+5	2921' -1038
Douglas	2926' -1045	+11	2946' -1056	+4	2932' -1049
Brown Lm	2997' -1116	+12	3018' -1128	+5	3004' -1121
Lansing	3017' -1136	+12	3038' -1148	+4	3023' -1140
Stark	3234' -1353	+13	3256' -1366		
BKC	3294' -1413	+10	3313' -1423		
Conglom.	3320' -1439	+11	3340' -1450	+5	3327' -1444
Arbuckle	3351' -1469	-5	3354' -1464	0	3352' -1469

### Summary

The location for the Lillie #4-30 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem tests were conducted, none of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to run 5 ½" casing to further evaluate the Lillie #4-30 well.

### Perforations

<b>Primary:</b>	<b>Arbuckle</b>	<b>3366' – 3369'</b>
<b>Secondary:</b>	<b>Lansing G</b>	<b>3097' – 3100'</b>
	<b>Lansing C</b>	<b>3045' – 3052'</b>

Respectfully Submitted,

Lukas Thompson  
American Warrior, Inc.