

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:
Yes No

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 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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Weber 1-7
Doc ID	1349645

All Electric Logs Run

Induction
Porosity
Micro
Sonic



## Summary of Changes

Lease Name and Number: Weber 1-7

API/Permit #: 15-051-26817-00-00

Doc ID: 1349645

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved By	NAOMI JAMES	Karen Ritter
Approved Date	01/15/2016	03/23/2017
Date of First or Resumed Production or SWD or Enhr Producing Method Pumping	No	01/05/2016 Yes
Save Link	<a href="http://.../kcc/detail/operatorEditDetail.cfm?docID=1277804">../..kcc/detail/operatorEditDetail.cfm?docID=1277804</a>	<a href="http://.../kcc/detail/operatorEditDetail.cfm?docID=1349645">../..kcc/detail/operatorEditDetail.cfm?docID=1349645</a>



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1277804  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

# CONFIDENTIAL 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: \_\_\_\_\_



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

TICKET 28748

PAGE 1 OF 1

SERVICE LOCATIONS 1. Hays Ks	WELL/PROJECT NO: 1-7	LEASE Webber	COUNTY/PARISH Ellis	STATE Ks	CITY	DATE 12-1-15	OWNER
2. Ness City Ks	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Discovery Drilling	RIG NAME/NO. Tig 3	SHIPPED VIA	DELIVERED TO location	ORDER NO.	
3.	WELL TYPE Oil	WELL CATEGORY development	JOB PURPOSE Shallow Surface	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE # 111	20	Mi			5.00	100	00
576S		1			Pump Charge - Shallow Surface	1	EA			800.00	800	00
290		1			D-Air	2	GAL			42.00	84	00
325		2			STANDARD Cement	160	SBS			12.25	1960	00
279		2			Bentonite Gel	3	SBS			25.00	75	00
278		2			Calcium Chloride	4.5	SBS			40.00	180	00
581		2			Service Charge Cement	160	SBS			1.50	240	00
582		2			Minimum Drayage Charge	1	EA			250.00	250	00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

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

x *John Doble*  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 A.M.  
 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	3689.00
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?				Ellis TAX 7.0%	160.93
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	3849.93
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR: *David Edgerston* APPROVAL \_\_\_\_\_

Thank You.

**JOB LOG**

**SWIFT Services, Inc.**

DATE 12-1-15 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-7 LEASE Webber JOB TYPE Shallow Surface TICKET NO. 28748

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							On location
								8 5/8 28 #
								RTD - 232'
								Csg - 231.27'
	1140							START Running Csg
	1210							Break Circ on BTM
	1220	4.5	12					pump WTR Spacer
	1225	4.5	0				150	START CMT
	1240	4.5	38				250	End CMT
	1240	4.5	0				250	START Disp
		4.5	5				400	CMT Circ to surface
	1250	4.5					400	END Disp
								Circ 35 sks to Pit
								Thanks
								David Austin & Preston





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

TICKET 28749

PAGE 1 OF 2

SERVICE LOCATIONS 1. Hays Ks	WELL/PROJECT NO. Webber	LEASE 1-7	COUNTY/PARISH Ellis	STATE Ks	CITY	DATE 12-8-15	OWNER
2. Ness City Ks	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Discovery Drilling	RIG NAME/NO. Rig 3	SHIPPED VIA	DELIVERED TO Location	ORDER NO.	
3.	WELL TYPE Oil	WELL CATEGORY Development	JOB PURPOSE Long String	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE # 111	20		mi		5.00	100.00
578					Pump Charge - long String	1		EA		1250.00	1250.00
290					D-Air	2		Gal		42.00	84.00
281					Mud flush	500		Gal		1.25	625.00
221					1-gal KCl	2		Gal		25.00	50.00
402					Centralizer	7			5 1/2	60.00	420.00
403					Cement Basket	2				250.00	500.00
404					Port Collar	1		EA		2500.00	2500.00
406					Latch Down Plug & Baffle	1		EA		225.00	225.00
407					Insert Float shoe w/ Auto Fill	1		EA		300.00	300.00

**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

x *John Asbell*  
DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 A.M.  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		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				D.I. PAGE TOTAL	6054.00
WE UNDERSTOOD AND MET YOUR NEEDS?				P.2	4193.90
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				TOTAL	10247.90
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Ellis TAX 7.0%	585.21
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	10,833.11
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR  
*David Edgerston*

APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 28749

CUSTOMER: American Warrior Inc  
WELL: Webber 1-7  
DATE: 12-8-15  
PAGE: 2 OF 2

PRJCE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M			
325		2				STANDARD Cement	175	SKS			12.25	2143	75
284		2				CALSEAL	8	SKS			30.00	240	00
283		2				SALT	947	1BS			120	189	40
292		2				HALAD 322	123	1BS			8.00	984	00
276		2				FLOLELE	44	1BS			2.25	99	00
581		2				SERVICE CHARGE Cmt					1.50	262	50
583		2				MILEAGE CHARGE					75	275	25
						TOTAL WEIGHT	18364						
						LOADED MILES	40						
						CUBIC FEET	175 SKS						
						TON MILES	367						

CONTINUATION TOTAL 4193.90

**JOB LOG**

**SWIFT Services, Inc.**

DATE 12-8-15 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 1-7 LEASE Weber JOB TYPE Long String TICKET NO. 28749

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1130							On location w/ Float Equipment
								5 1/2 Csg
								RTD - 3950'
								Csg Total - 3947'
								Siloe Jnt - 42.48
								Insert e - 3904.89
								Centralizers - 1, 3, 5, 7, 9, 11, # 59
								Baskets - 8 + 60
								Port Collar - 60
	115							START Running Csg
	255							Break Circ on Bottom
	330	5.5	12			200		Pump Mudflush - 500 gal
		5.5	20			200		Pump Kel Spacer - 20 BBL
	355	2	7			0		Plug Rat Hole - 30 sks
								<del>Plug Rat Hole - 30 sks</del>
	340	5.5	0			200		START CMT
		5.5	30			0		END CMT
								WASH P&L / Drop plug
	355	5.5	0			0		START Disp
	415	4	93			1500		LAND plug - Lift - 700
								Land - 1500
								Release PSI - Dry
								Thanks
								David, Austin & Rob



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

TICKET 27048

PAGE 1 OF 1

SERVICE LOCATIONS/ 1. <i>Hays, Ks.</i>	WELL/PROJECT NO. <i>1-7</i>	LEASE <i>Weber</i>	COUNTY/PARISH <i>Ellis</i>	STATE <i>Ks.</i>	CITY	DATE <i>12/30/15</i>	OWNER <i>Same</i>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Express</i>	RIG NAME/NO.	SHIPPED <i>VIA CIT</i>	DELIVERED TO <i>Loc.</i>	ORDER NO.	
3.	WELL TYPE <i>Oil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>Cmt. Port Collar</i>	WELL PERMIT NO.	WELL LOCATION <i>East Ellis, Ks.</i>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT	
		LOC	ACCT	DF			U/M				
<i>575</i>		<i>1</i>			<i>MILEAGE #111</i>	<i>20</i>	<i>mi</i>	<i>5</i>	<i>00</i>	<i>100</i>	<i>01</i>
<i>576 D</i>		<i>1</i>			<i>Pump Service</i>	<i>1</i>	<i>ea</i>	<i>1,250</i>	<i>00</i>	<i>1,250</i>	<i>18</i>
<i>104</i>		<i>1</i>			<i>Port Collar Tool</i>	<i>1</i>	<i>ea</i>	<i>200</i>	<i>00</i>	<i>200</i>	<i>00</i>
<i>290</i>		<i>1</i>			<i>O-Air</i>	<i>2</i>	<i>gal</i>	<i>42</i>	<i>00</i>	<i>84</i>	<i>00</i>
<i>581</i>		<i>1</i>			<i>Service Charge</i>	<i>175</i>	<i>SKs</i>	<i>1</i>	<i>50</i>	<i>262</i>	<i>50</i>
<i>583</i>		<i>1</i>			<i>Drayage</i>	<i>349</i>	<i>TON miles</i>	<i>175</i>		<i>261</i>	<i>75</i>
<i>330</i>		<i>1</i>			<i>SMD Cement</i>	<i>125</i>	<i>SKs</i>	<i>15</i>	<i>75</i>	<i>1,968</i>	<i>25</i>
<i>276</i>		<i>1</i>			<i>Flocele</i>	<i>50</i>	<i>#</i>	<i>2</i>	<i>25</i>	<i>112</i>	<i>50</i>

**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.

REMIT PAYMENT TO:

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

<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	<i>4,239</i>	<i>50</i>
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?				<i>Ellis</i>	<i>TAX</i>	<i>165</i>
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<i>7.0%</i>		<i>57</i>
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	<i>4405</i>	<i>07</i>

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

SWIFT OPERATOR *[Signature]* APPROVAL \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 12/30/15 PAGE NO. 7

CUSTOMER American Warrior WELL NO. 1-7 LEASE Weber JOB TYPE Port Collar TICKET NO. 27048

CHART NO.	TIME	RATE (BPM)	VOLUME (BB) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:15							on Loc. Set up truck Loc P.C. 1463'
	11:50					1000	1000	Press test 1,000 psi hold open P.C.
	12:00	3				200		Inj. Rate 3 BPM 200 psi Start mixing 175 sks SMO 1/4 # Flocole 7 <sup>50</sup> pumped establish CIR. 100 sks mixed Cement Circulated to surface Increase weight 14 <sup>#</sup> /gal 20 sks Finish mixing Displ 4.25 <sup>00</sup> Close P.C.
			55					
			4.75					
						1000	1000	Press test 1,000 psi closed Run 5 Fts.
	12:30							Run 5 Fts.
	12:35							Reverse out short way 15 <sup>00</sup> pumped 2 frags wash & lock up truck
	13:10							Job Complete
								Mixed 125 sks. Cont. 20 sks to Pit

*[Signature]*

Rogers, Austin, Rob



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **Weber #1-7**

#### **7-13s-19w Ellis,KS**

Start Date: 2015.12.05 @ 11:00:39

End Date: 2015.12.05 @ 16:23:48

Job Ticket #: 64908                      DST #: 1

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

Printed: 2015.12.07 @ 16:11:56



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
 Job Ticket: 64908 **DST#: 1**  
 Test Start: 2015.12.05 @ 11:00:39

## GENERAL INFORMATION:

Formation: **LKC C-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:58:19  
 Time Test Ended: 16:23:48  
 Interval: **3485.00 ft (KB) To 3530.00 ft (KB) (TVD)**  
 Total Depth: 3530.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2132.00 ft (KB)  
 2124.00 ft (CF)  
 KB to GR/CF: 8.00 ft

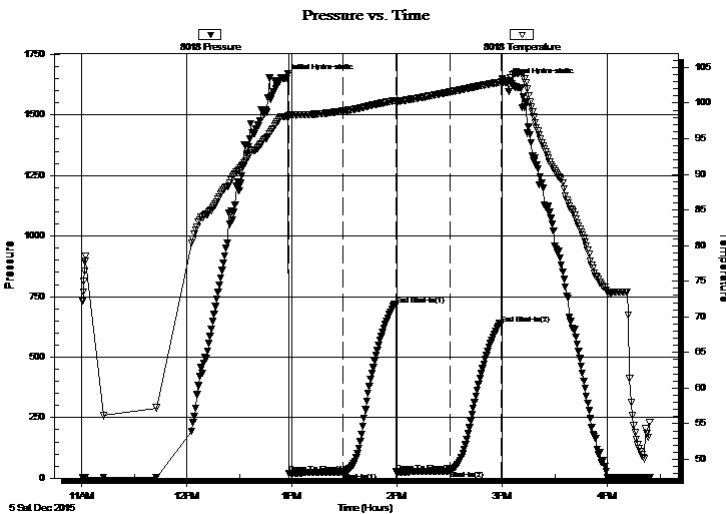
## Serial #: 8018

Inside

Press@RunDepth: 30.25 psig @ 3494.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.12.05 End Date: 2015.12.05 Last Calib.: 2015.12.05  
 Start Time: 11:00:39 End Time: 16:23:48 Time On Btm: 2015.12.05 @ 12:55:49  
 Time Off Btm: 2015.12.05 @ 15:01:49

TEST COMMENT: 30-IFP-w k bl thru-out 1/4"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	1651.18	98.14	Initial Hydro-static
3	19.44	98.11	Open To Flow (1)
33	25.10	98.88	Shut-In(1)
64	716.23	100.38	End Shut-In(1)
64	25.40	100.13	Open To Flow (2)
94	30.25	101.55	Shut-In(2)
124	637.03	102.95	End Shut-In(2)
126	1634.30	102.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 2%O98%M	0.10

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-13s-19w Ellis,KS**

**Weber #1-7**

Job Ticket: 64908 **DST#: 1**

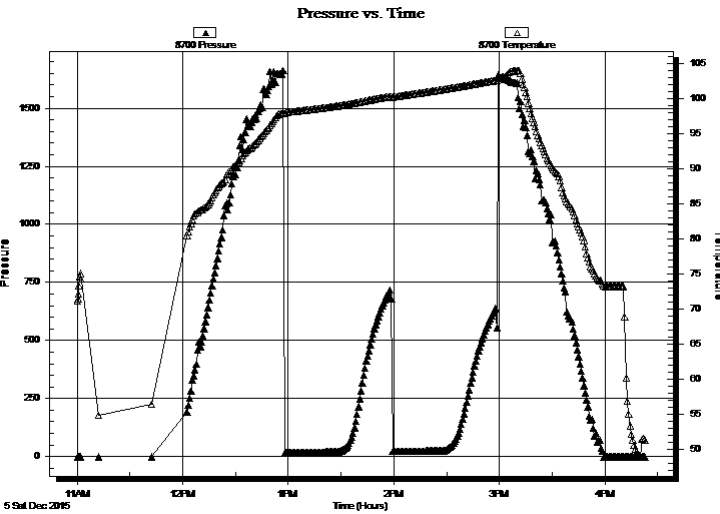
Test Start: 2015.12.05 @ 11:00:39

**GENERAL INFORMATION:**

Formation: **LKC C-D**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 12:58:19  
Time Test Ended: 16:23:48  
Interval: **3485.00 ft (KB) To 3530.00 ft (KB) (TVD)**  
Total Depth: 3530.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ray Schwager  
Unit No: 70  
Reference Elevations: 2132.00 ft (KB)  
2124.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8700 Outside**  
Press@RunDepth: psig @ 3494.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.12.05 End Date: 2015.12.05 Last Calib.: 2015.12.05  
Start Time: 11:00:11 End Time: 16:23:05 Time On Btm:  
Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1/4"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

**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	SOCM 2%O98%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  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64908      **DST#: 1**  
Test Start: 2015.12.05 @ 11:00:39

**Tool Information**

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.80 inches	Volume: 48.49 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 48.64 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3485.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3465.00	
Shut In Tool	5.00			3470.00	
Hydraulic tool	5.00			3475.00	
Packer	5.00			3480.00	21.00      Bottom Of Top Packer
Packer	5.00			3485.00	
Stubb	1.00			3486.00	
Perforations	8.00			3494.00	
Recorder	0.00	8018	Inside	3494.00	
Recorder	0.00	8700	Outside	3494.00	
Blank Spacing	33.00			3527.00	
Bullnose	3.00			3530.00	45.00      Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64908      **DST#: 1**  
Test Start: 2015.12.05 @ 11:00:39

## Mud and Cushion Information

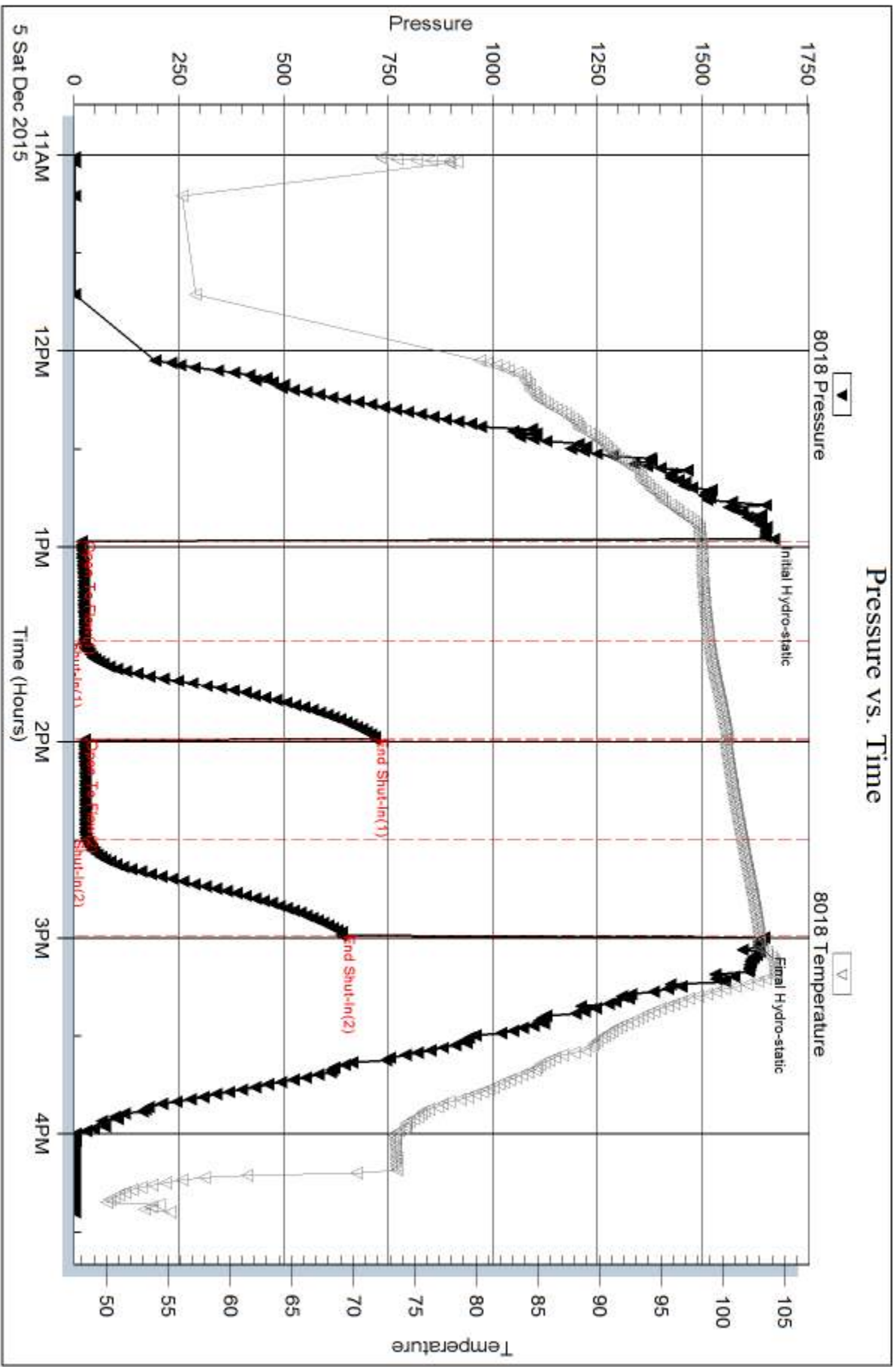
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.15 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM 2% O98%M	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

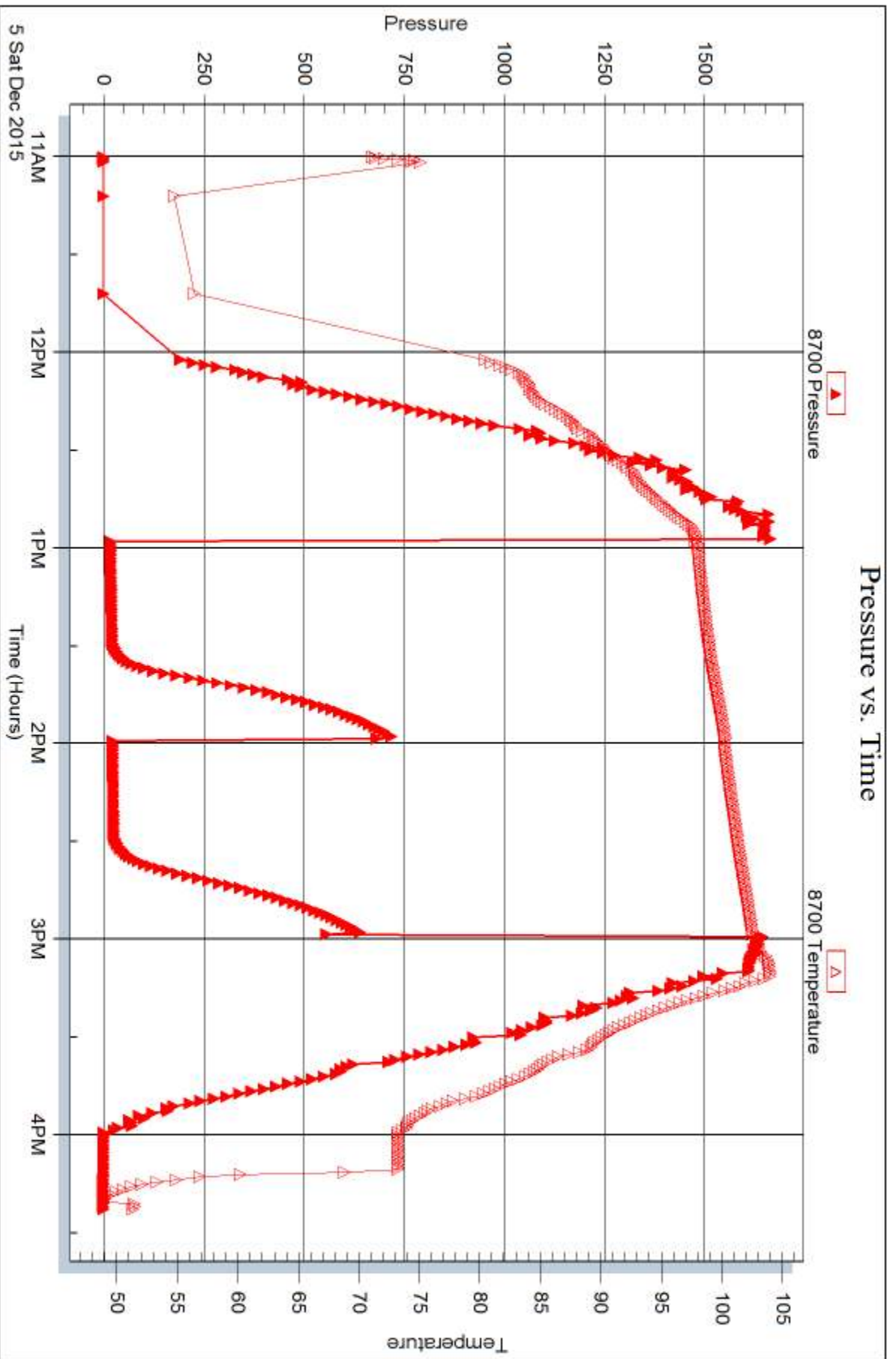


Serial #: 8700

Outside American Warrior Inc

Weber #1-7

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64908

Printed: 2015.12.07 @ 16:11:59



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **Weber #1-7**

#### **7-13s-19w Ellis,KS**

Start Date: 2015.12.05 @ 22:00:27

End Date: 2015.12.06 @ 02:25:21

Job Ticket #: 64909                      DST #: 2

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

Printed: 2015.12.07 @ 16:07:48



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-13s-19w Ellis,KS**

**Weber #1-7**

Job Ticket: 64909

**DST#: 2**

Test Start: 2015.12.05 @ 22:00:27

## GENERAL INFORMATION:

Formation: **LKC E-F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:46:22  
 Time Test Ended: 02:25:21  
 Interval: **3525.00 ft (KB) To 3555.00 ft (KB) (TVD)**  
 Total Depth: 3555.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2132.00 ft (KB)  
 2124.00 ft (CF)  
 KB to GR/CF: 8.00 ft

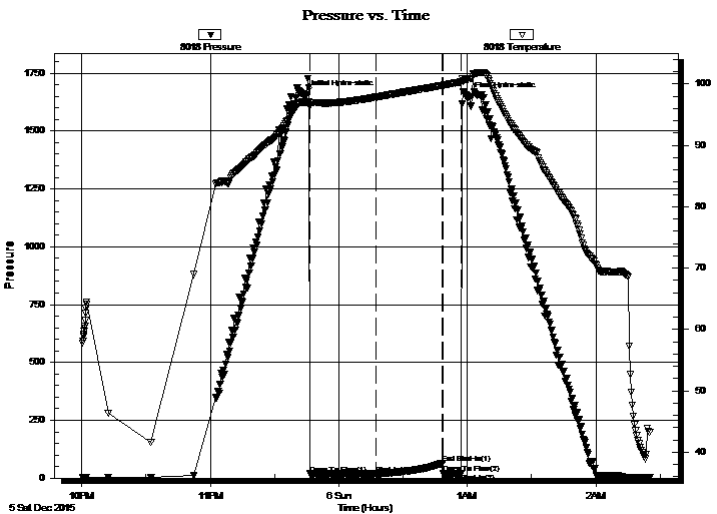
## Serial #: 8018

Inside

Press@RunDepth: 18.12 psig @ 3532.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.12.05 End Date: 2015.12.06 Last Calib.: 2015.12.06  
 Start Time: 22:00:27 End Time: 02:25:21 Time On Btm: 2015.12.05 @ 23:44:22  
 Time Off Btm: 2015.12.06 @ 01:00:22

TEST COMMENT: 30-IFP-w k surface bl thru-out  
 30-ISIP-no bl  
 10-FFP-surface bl died in 4 min  
 pulled tool

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.58	97.03	Initial Hydro-static
2	18.37	96.27	Open To Flow (1)
33	18.12	97.84	Shut-In(1)
64	64.23	99.76	End Shut-In(1)
65	18.64	99.74	Open To Flow (2)
73	19.29	100.33	Shut-In(2)
76	1647.65	100.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

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

**7-13s-19w Ellis,KS**

**Weber #1-7**

Job Ticket: 64909

**DST#: 2**

Test Start: 2015.12.05 @ 22:00:27

**GENERAL INFORMATION:**

Formation: **LKC E-F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:46:22  
 Time Test Ended: 02:25:21

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 70

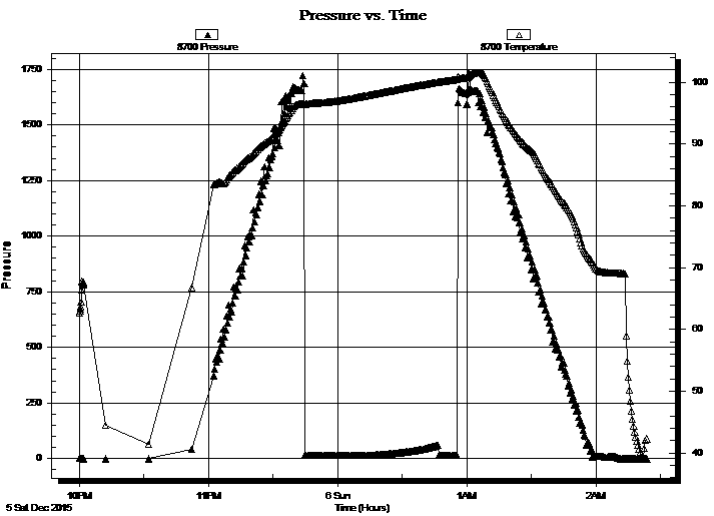
Interval: **3525.00 ft (KB) To 3555.00 ft (KB) (TVD)**  
 Total Depth: 3555.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2132.00 ft (KB)  
 2124.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: psig @ 3532.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.12.05 End Date: 2015.12.06 Last Calib.: 2015.12.06  
 Start Time: 22:00:16 End Time: 02:23:40 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30-IFP-w k surface bl thru-out  
 30-ISIP-no bl  
 10-FFP-surface bl died in 4 min  
 pulled tool



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

\* 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  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64909      **DST#: 2**  
Test Start: 2015.12.05 @ 22:00:27

**Tool Information**

Drill Pipe:	Length: 3489.00 ft	Diameter: 3.80 inches	Volume: 48.94 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 49.09 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3525.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3505.00	
Shut In Tool	5.00			3510.00	
Hydraulic tool	5.00			3515.00	
Packer	5.00			3520.00	21.00      Bottom Of Top Packer
Packer	5.00			3525.00	
Stubb	1.00			3526.00	
Perforations	6.00			3532.00	
Recorder	0.00	8018	Inside	3532.00	
Recorder	0.00	8700	Outside	3532.00	
Perforations	20.00			3552.00	
Bullnose	3.00			3555.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 51.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64909      **DST#: 2**  
Test Start: 2015.12.05 @ 22:00:27

### Mud and Cushion Information

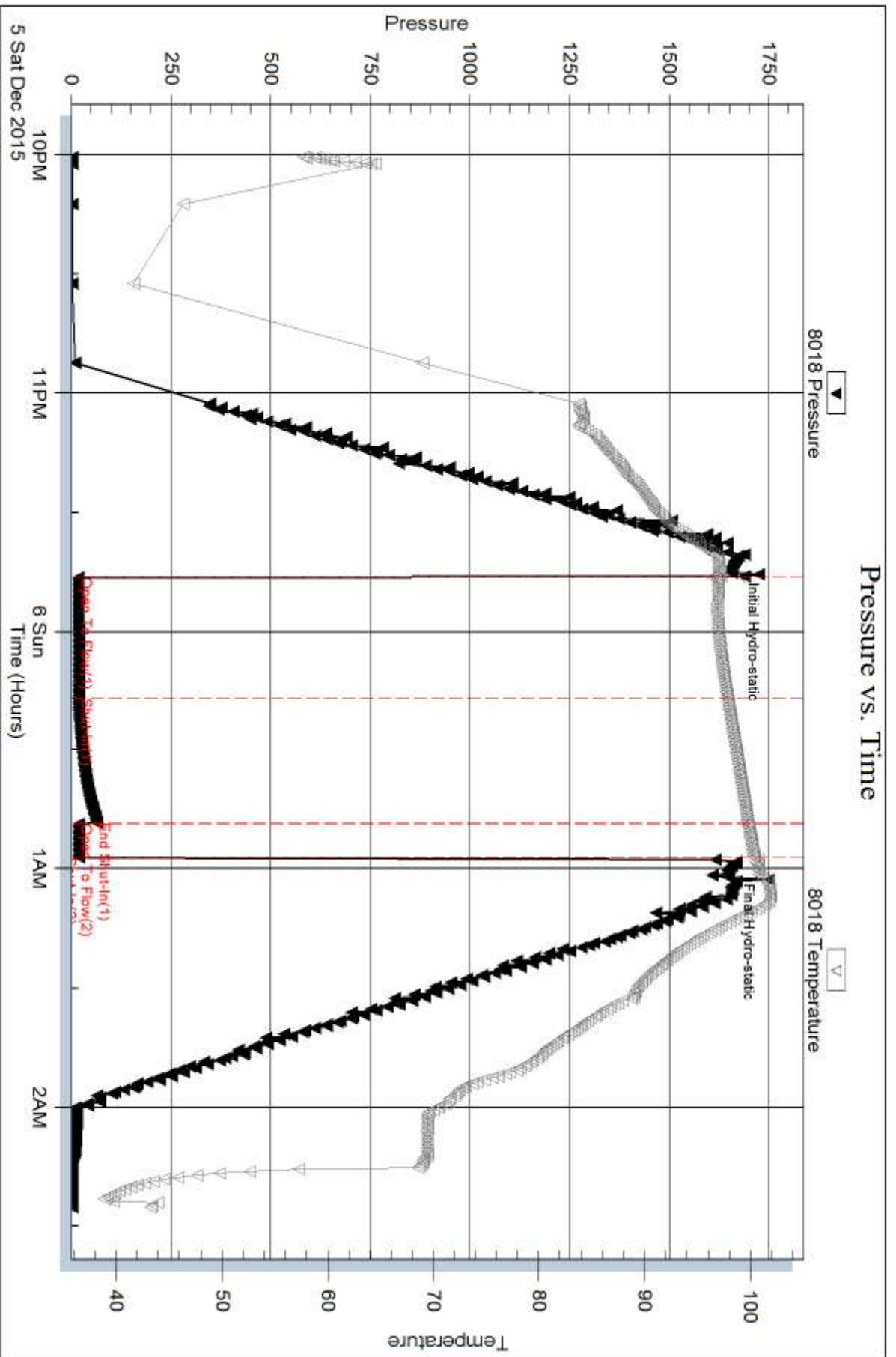
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: 1.00 inches			

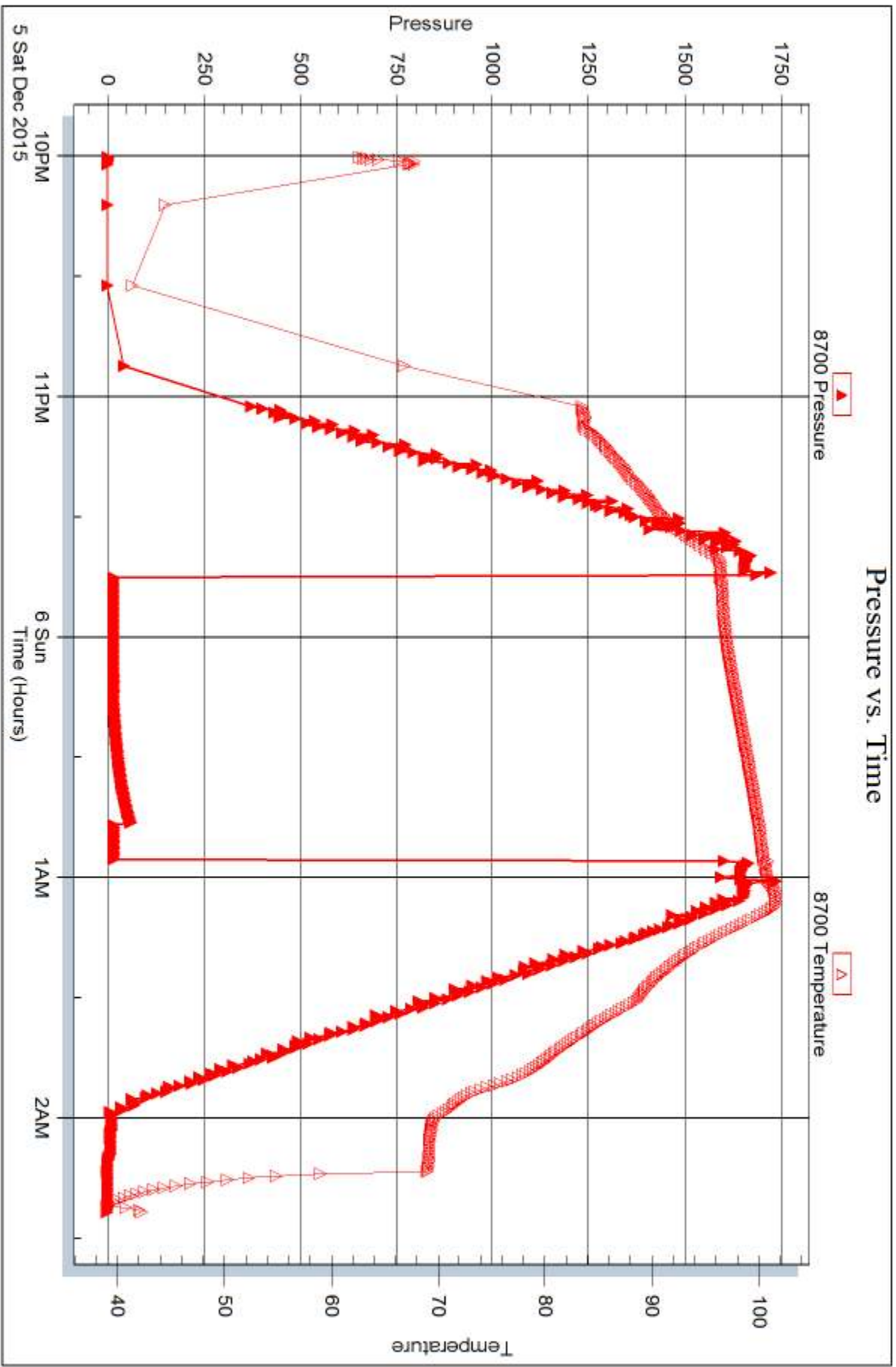
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **Weber #1-7**

#### **7-13s-19w Ellis,KS**

Start Date: 2015.12.06 @ 15:35:35

End Date: 2015.12.06 @ 22:07:59

Job Ticket #: 64910                      DST #: 3

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

Printed: 2015.12.07 @ 16:07:14



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64910      **DST#: 3**  
Test Start: 2015.12.06 @ 15:35:35

## GENERAL INFORMATION:

Formation: **LKC J-L**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 17:30:00  
Time Test Ended: 22:07:59  
Interval: **3640.00 ft (KB) To 3708.00 ft (KB) (TVD)**  
Total Depth: 33708.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2132.00 ft (KB)  
2124.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 70

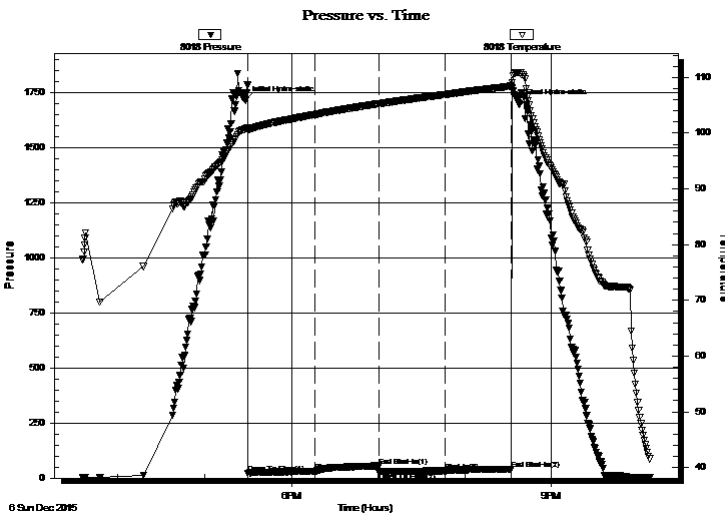
## Serial #: 8018

Inside

Press@RunDepth: 32.86 psig @ 3647.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.12.06      End Date: 2015.12.06      Last Calib.: 2015.12.06  
Start Time: 15:35:35      End Time: 22:07:59      Time On Btm: 2015.12.06 @ 17:28:30  
Time Off Btm: 2015.12.06 @ 20:37:29

TEST COMMENT: 45-IFP-w k to a fr bl 1/2" to 4" bl  
45-ISIP-no bl  
45-FFP-w k bl thru-out 1/2" to 1 1/2" bl  
45-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.18	100.76	Initial Hydro-static
2	22.23	100.50	Open To Flow (1)
48	31.10	103.32	Shut-In(1)
92	55.53	105.28	End Shut-In(1)
93	24.62	105.28	Open To Flow (2)
138	32.86	106.90	Shut-In(2)
184	41.39	108.41	End Shut-In(2)
189	1697.92	110.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	150' GIP	0.00
30.00	MGO 10%G25%M65%O	0.15
10.00	MGO 10%G15%M75%O	0.14

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-13s-19w Ellis, KS**  
**Weber #1-7**  
Job Ticket: 64910      **DST#: 3**  
Test Start: 2015.12.06 @ 15:35:35

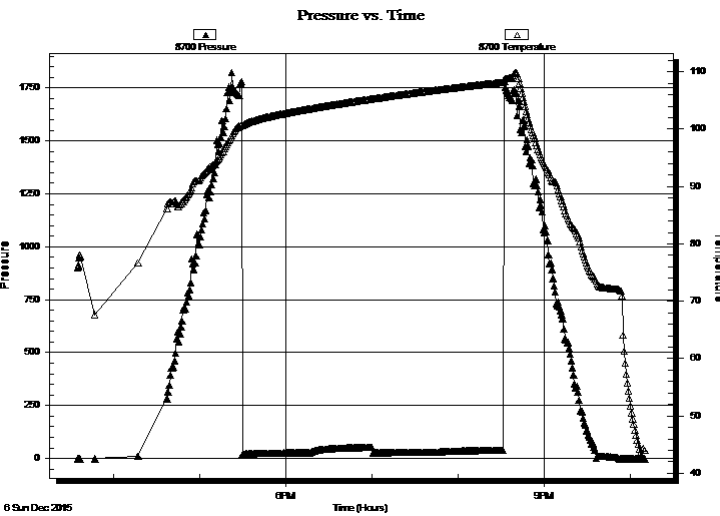
## GENERAL INFORMATION:

Formation: **LKC J-L**  
Deviated: No Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 17:30:00      Tester: Ray Schwager  
Time Test Ended: 22:07:59      Unit No: 70  
**Interval: 3640.00 ft (KB) To 3708.00 ft (KB) (TVD)**      Reference Elevations: 2132.00 ft (KB)  
Total Depth: 33708.00 ft (KB) (TVD)      2124.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 8.00 ft

## Serial #: 8700      Outside

Press@RunDepth:                      psig @      3647.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.12.06      End Date: 2015.12.06      Last Calib.: 2015.12.06  
Start Time: 15:35:14      End Time: 22:10:08      Time On Btm:  
Time Off Btm:

TEST COMMENT: 45-IFP-w k to a fr bl 1/2" to 4" bl  
45-ISIP-no bl  
45-FFP-w k bl thru-out 1/2" to 1 1/2" bl  
45-FSIP-no bl



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	150' GIP	0.00
30.00	MGO 10%G25%M65%O	0.15
10.00	MGO 10%G15%M75%O	0.14

\* 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  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64910      **DST#: 3**  
Test Start: 2015.12.06 @ 15:35:35

**Tool Information**

Drill Pipe:	Length: 3615.00 ft	Diameter: 3.80 inches	Volume: 50.71 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3640.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	89.00 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			3620.00	
Shut In Tool	5.00			3625.00	
Hydraulic tool	5.00			3630.00	
Packer	5.00			3635.00	21.00      Bottom Of Top Packer
Packer	5.00			3640.00	
Stubb	1.00			3641.00	
Perforations	6.00			3647.00	
Recorder	0.00	8018	Inside	3647.00	
Recorder	0.00	8700	Outside	3647.00	
Blank Spacing	33.00			3680.00	
Perforations	25.00			3705.00	
Bullnose	3.00			3708.00	68.00      Bottom Packers & Anchor

**Total Tool Length:    89.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64910      **DST#: 3**  
Test Start: 2015.12.06 @ 15:35:35

### 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.16 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6400.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	150' GIP	0.000
30.00	MGO 10%G25%M65%O	0.148
10.00	MGO 10%G15%M75%O	0.140

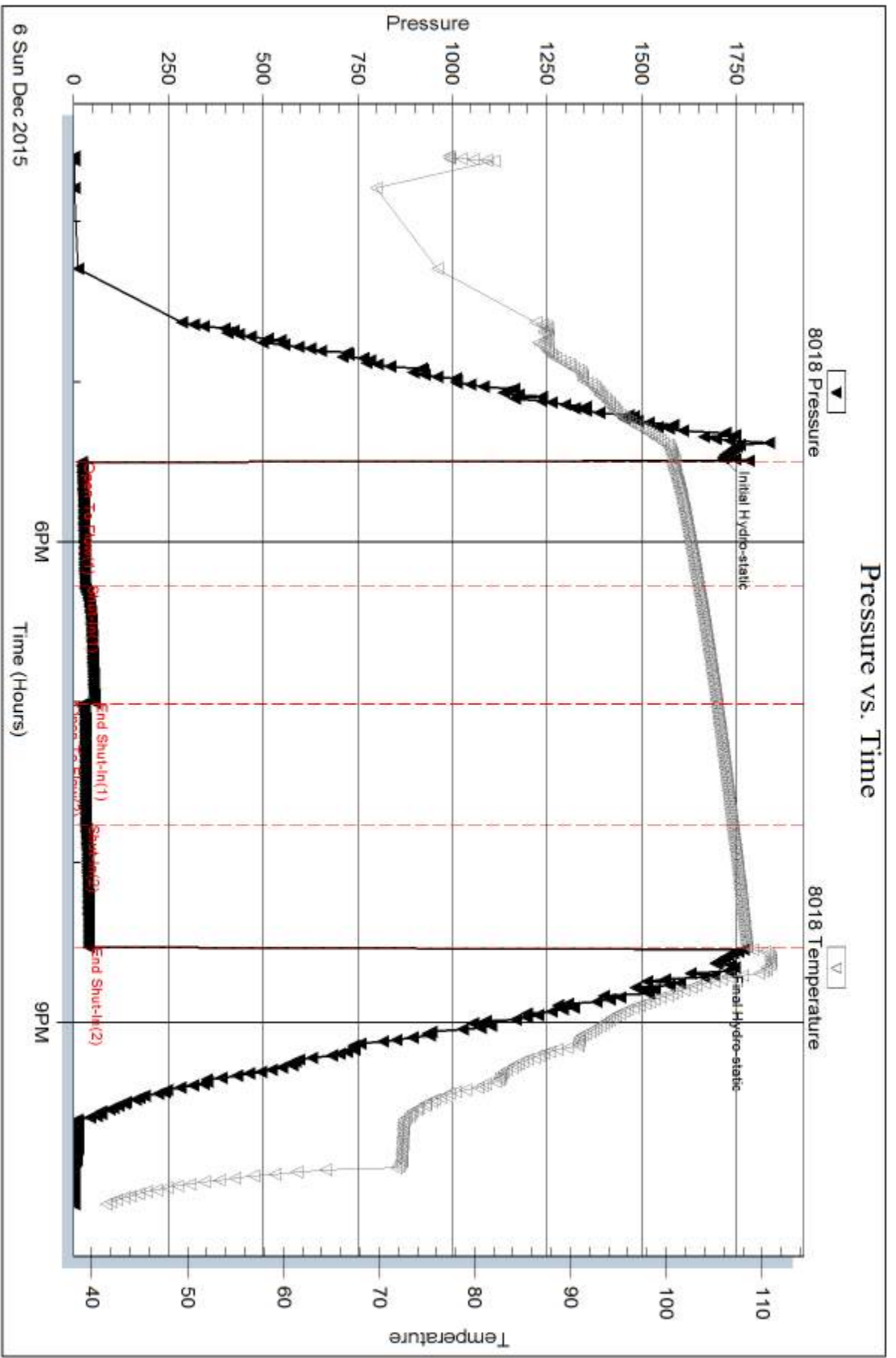
Total Length: 40.00 ft      Total Volume: 0.288 bbl

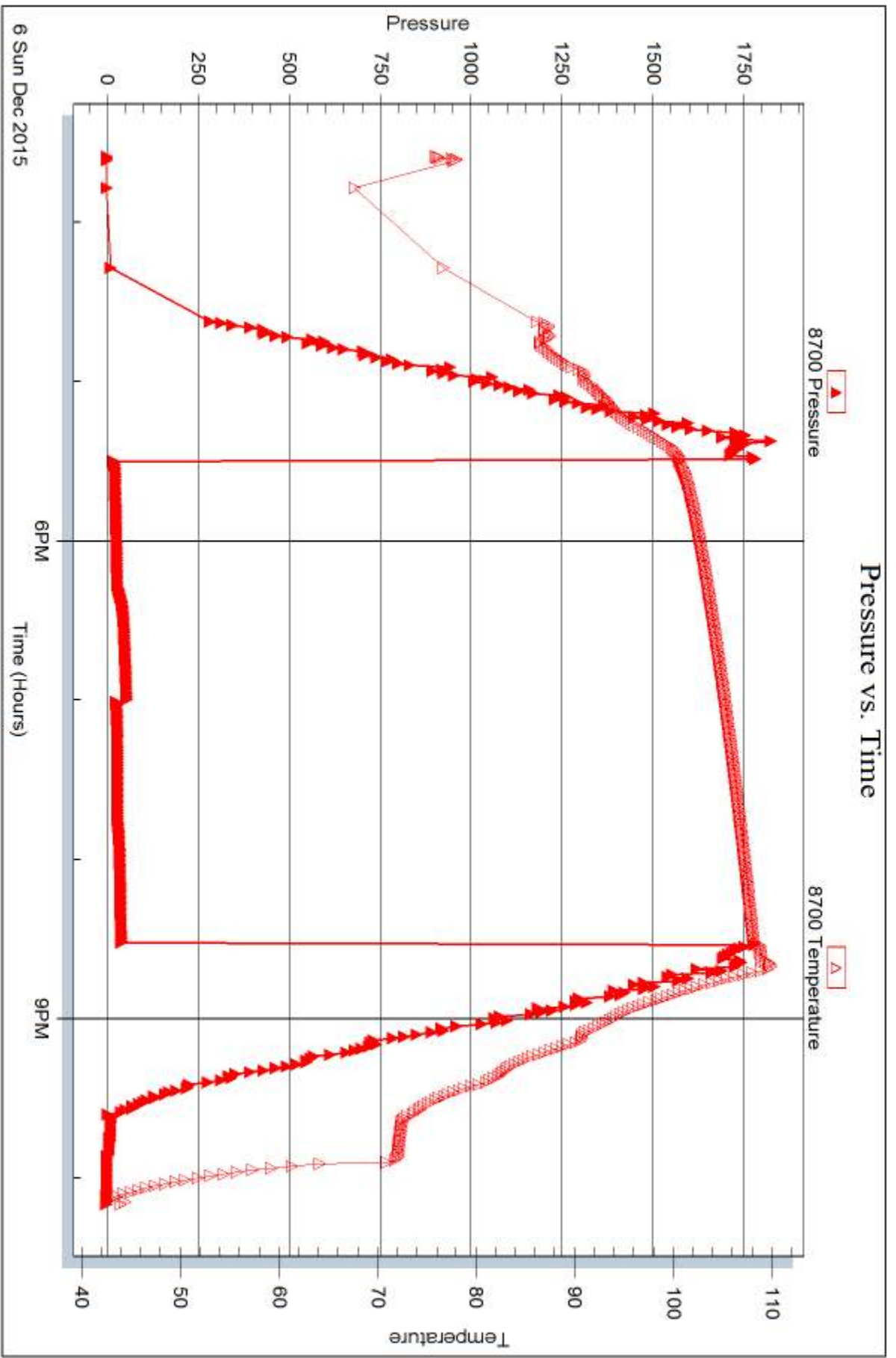
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **Weber #1-7**

#### **7-13s-19w Ellis,KS**

Start Date: 2015.12.07 @ 07:40:52

End Date: 2015.12.07 @ 13:26:31

Job Ticket #: 64911                      DST #: 4

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

Printed: 2015.12.07 @ 16:06:33



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
 Job Ticket: 64911 **DST#: 4**  
 Test Start: 2015.12.07 @ 07:40:52

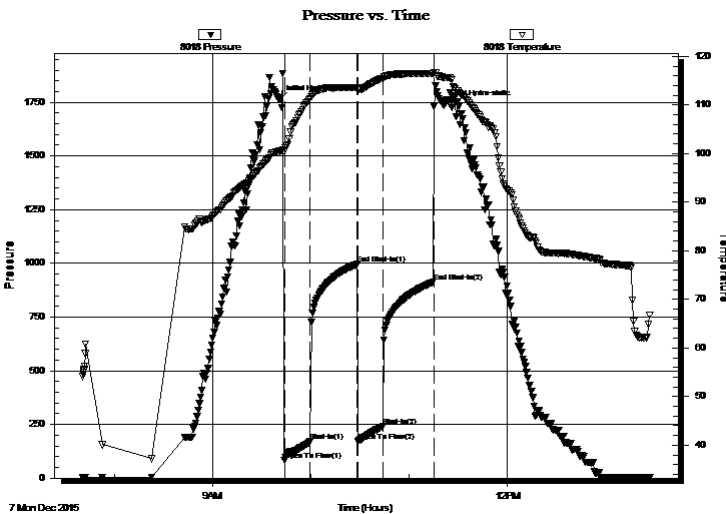
## GENERAL INFORMATION:

Formation: **Congl. Sd**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 09:43:47 Tester: Ray Schwager  
 Time Test Ended: 13:26:31 Unit No: 70  
 Interval: **3767.00 ft (KB) To 3809.00 ft (KB) (TVD)** Reference Elevations: 2132.00 ft (KB)  
 Total Depth: 3809.00 ft (KB) (TVD) 2124.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8018 Inside**  
 Press@RunDepth: 242.00 psig @ 3773.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.12.07 End Date: 2015.12.07 Last Calib.: 2015.12.07  
 Start Time: 07:40:52 End Time: 13:26:31 Time On Btm: 2015.12.07 @ 09:41:02  
 Time Off Btm: 2015.12.07 @ 11:20:47

TEST COMMENT: 15-IFP-strg bl in 4min  
 30-ISIP-1/2" bl bk  
 15-FFP-strg bl in 4min  
 30-FSIP-1/2" bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.88	100.49	Initial Hydro-static
3	81.61	100.63	Open To Flow (1)
19	169.47	111.24	Shut-In(1)
47	995.62	113.56	End Shut-In(1)
48	171.83	113.29	Open To Flow (2)
63	242.00	115.53	Shut-In(2)
94	912.67	116.48	End Shut-In(2)
100	1738.90	115.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	145' GIP	0.00
63.00	MGO 30%G20%M50%O	0.61
525.00	CO	7.36

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

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

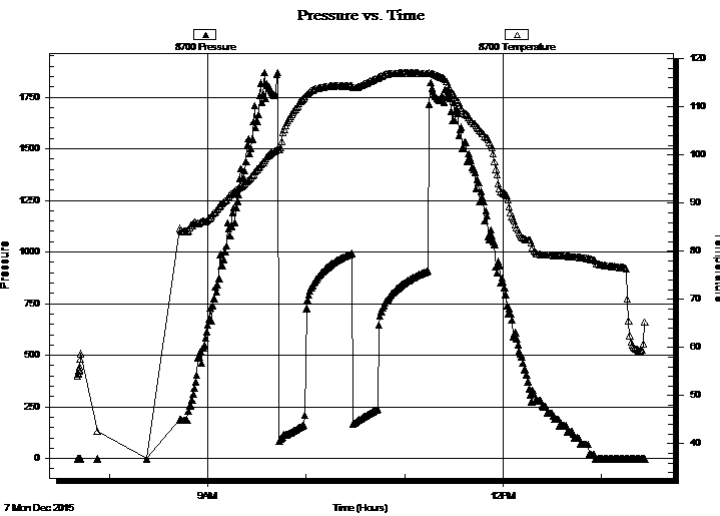
**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64911 **DST#: 4**  
Test Start: 2015.12.07 @ 07:40:52

**GENERAL INFORMATION:**

Formation: **Congl. Sd**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:43:47  
Time Test Ended: 13:26:31  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 70  
**Interval: 3767.00 ft (KB) To 3809.00 ft (KB) (TVD)**  
Reference Elevations: 2132.00 ft (KB)  
Total Depth: 3809.00 ft (KB) (TVD) 2124.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8700 Outside**  
Press@RunDepth: psig @ 3773.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.12.07 End Date: 2015.12.07 Last Calib.: 2015.12.07  
Start Time: 07:40:37 End Time: 13:26:16 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 15-IFP-strg bl in 4min  
30-ISIP-1/2" bl bk  
15-FFP-strg bl in 4min  
30-FSIP-1/2" bl bk



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	145' GIP	0.00
63.00	MGO 30%G20%M50%O	0.61
525.00	CO	7.36

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  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64911      **DST#: 4**  
Test Start: 2015.12.07 @ 07:40:52

**Tool Information**

Drill Pipe:	Length: 3743.00 ft	Diameter: 3.80 inches	Volume: 52.50 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 52.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3767.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3747.00	
Shut In Tool	5.00			3752.00	
Hydraulic tool	5.00			3757.00	
Packer	5.00			3762.00	21.00      Bottom Of Top Packer
Packer	5.00			3767.00	
Stubb	1.00			3768.00	
Perforations	5.00			3773.00	
Recorder	0.00	8018	Inside	3773.00	
Recorder	0.00	8700	Outside	3773.00	
Blank Spacing	33.00			3806.00	
Bullnose	3.00			3809.00	42.00      Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**7-13s-19w Ellis,KS**  
**Weber #1-7**  
Job Ticket: 64911      **DST#: 4**  
Test Start: 2015.12.07 @ 07:40:52

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.16 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6400.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

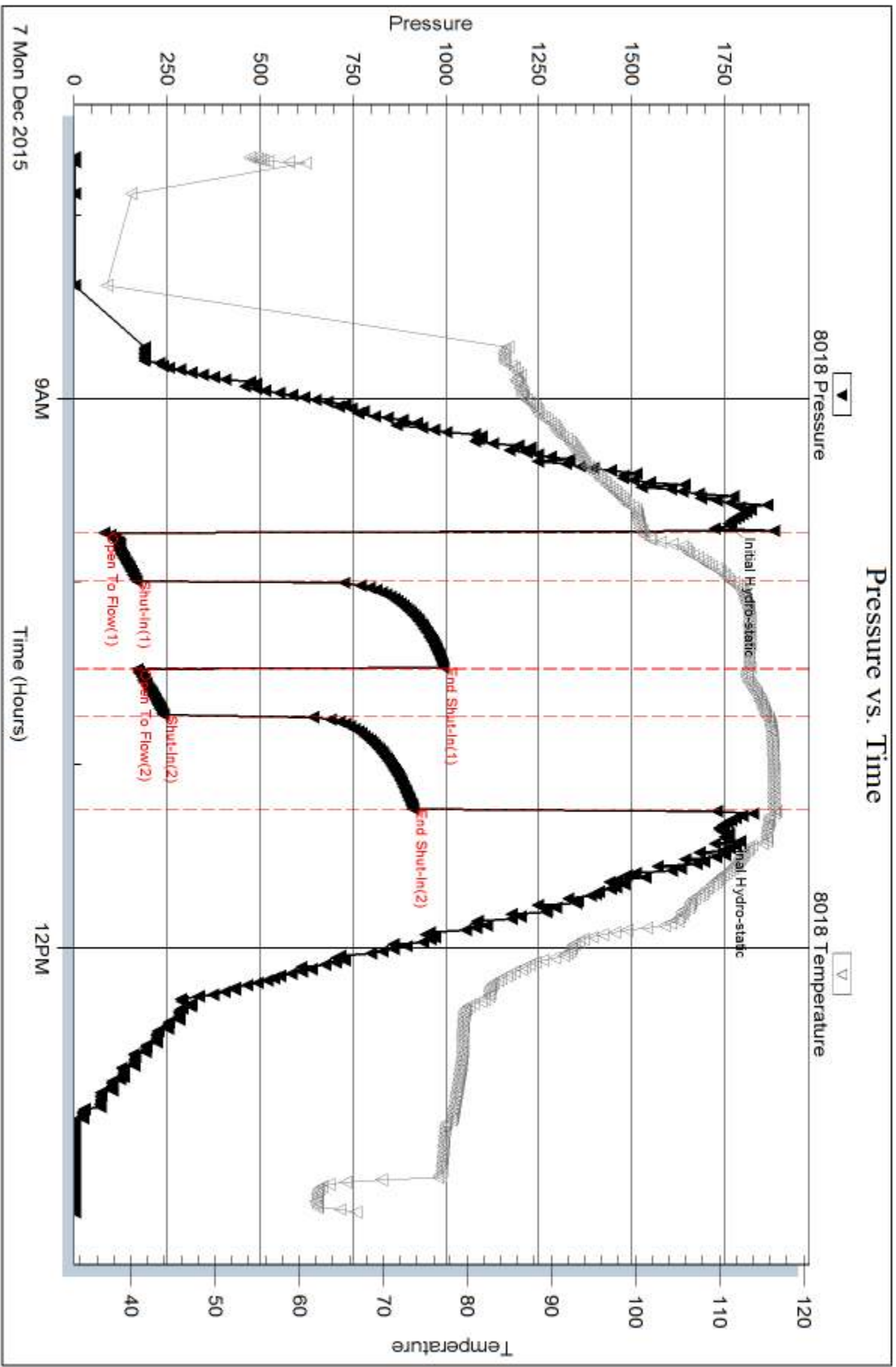
Length ft	Description	Volume bbl
0.00	145' GIP	0.000
63.00	MGO 30%G20%M50%O	0.610
525.00	CO	7.364

Total Length: 588.00 ft      Total Volume: 7.974 bbl

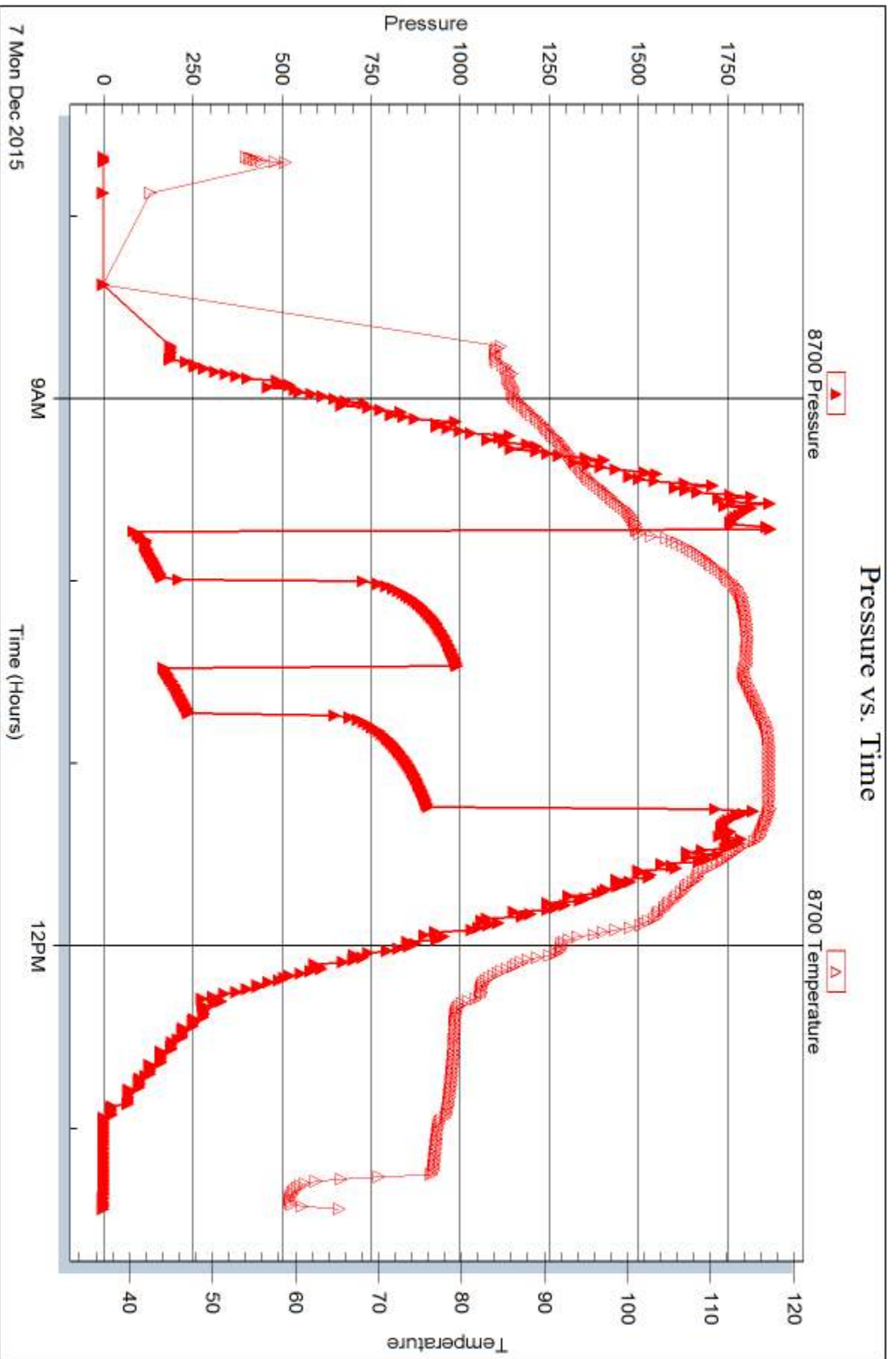
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64908**

Well Name & No. Webee #1-7 Test No. 1 Date 12-5-15  
 Company AMERICAN WARRIOR Inc Elevation 2132 KB 2124 GL  
 Address 3118 Cummings Rd. PO Box 399 Garden City, Ko 67846  
 Co. Rep / Geo. JASON ALM Rig Discovery rig 3  
 Location: Sec. 7 Twp. 13<sup>s</sup> Rge. 19<sup>w</sup> Co. ELLIS State Ko

Interval Tested 3485-3530 Zone Tested LKC C-0  
 Anchor Length 45 Drill Pipe Run 3457 Mud Wt. 8.9  
 Top Packer Depth 3480 Drill Collars Run 30 Vis 49  
 Bottom Packer Depth 3485 Wt. Pipe Run - WL 7.2  
 Total Depth 3530 Chlorides 7500 ppm System LCM 1#  
 Blow Description IFP - WEAK Blow thru-out 1/4" Blow  
ISIP - NO Blow  
FFP - WEAK Blow thru-out 1/4" Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>50CM</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

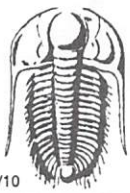
Rec Total 20 BHT 103' Gravity - API RW - @ - °F Chlorides - ppm  
 (A) Initial Hydrostatic 1651  Test 1050 T-On Location 0900  
 (B) First Initial Flow 19  Jars \_\_\_\_\_ T-Started 1100  
 (C) First Final Flow 25  Safety Joint \_\_\_\_\_ T-Open 1300  
 (D) Initial Shut-In 716  Circ Sub \_\_\_\_\_ T-Pulled 1500  
 (E) Second Initial Flow 25  Hourly Standby \_\_\_\_\_ T-Out 1623  
 (F) Second Final Flow 30  Mileage 33RT Comments \_\_\_\_\_  
 (G) Final Shut-In 637  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1634  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1083

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Sub Total 0  
 Total 1083  
 MP/DST Disc't \_\_\_\_\_

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64909**

Well Name & No. Weber #1-7 Test No. 2 Date 12-5-15  
 Company AMERICAN WARRIOR INC Elevation 2132 KB 2124 GL  
 Address 3118 Cummings Rd. PO Box 399 Garden City, Ks 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery 1193  
 Location: Sec. 7 Twp. 13<sup>s</sup> Rge. 19<sup>w</sup> Co. ELLIS State K

Interval Tested 3525-3555 Zone Tested LKC E-F  
 Anchor Length 30 Drill Pipe Run 3489 Mud Wt. 9  
 Top Packer Depth 3520 Drill Collars Run 30 Vis 51  
 Bottom Packer Depth 3525 Wt. Pipe Run - WL 7.2  
 Total Depth 3555 Chlorides 7500 ppm System LCM 1#

Blow Description IFP - WEAK SURFACE BLOW THRU-OUT  
ISIP - NO BLOW  
FFP - SURFACE BLOW, DIED IN 4 MIN  
FSIP - PULLED TOOL

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</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 1 BHT 100 Gravity - API RW - @ - °F Chlorides - ppm  
 (A) Initial Hydrostatic 1657  Test 1050 T-On Location 2135  
 (B) First Initial Flow 18  Jars - T-Started 2200  
 (C) First Final Flow 18  Safety Joint - T-Open 2345  
 (D) Initial Shut-In 64  Circ Sub - T-Pulled 0055  
 (E) Second Initial Flow 18  Hourly Standby - T-Out 0225  
 (F) Second Final Flow 19  Mileage 33RT Comments -  
 (G) Final Shut-In -  Sampler -  
 (H) Final Hydrostatic 1647  Straddle -  Ruined Shale Packer -  
 Shale Packer -  Ruined Packer -

Initial Open 30  Extra Packer -  Extra Copies -  
 Initial Shut-In 30  Extra Recorder - Sub Total 0  
 Final Flow 10  Day Standby - Total 1083  
 Final Shut-In OUT  Accessibility - MP/DST Disc't -  
 Sub Total 1083

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64910

4/10

Well Name & No. Weber #1-7 Test No. 3 Date 12-6-15  
 Company American Warrior Inc Elevation 2132 KB 2124 GL  
 Address 3118 Cummings Rd. PO Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery rig 3  
 Location: Sec. 7 Twp. 13<sup>s</sup> Rge. 19<sup>w</sup> Co. Ellis State Ks

Interval Tested 3640-3708 Zone Tested LKC J-L  
 Anchor Length 68 Drill Pipe Run 3615 Mud Wt. 9.1  
 Top Packer Depth 3635 Drill Collars Run 30 Vis 53  
 Bottom Packer Depth 3640 Wt. Pipe Run - WL 7.2  
 Total Depth 3708 Chlorides 6400 ppm System LCM 1#  
 Blow Description IFP - WEAK TO A FAIR BLOW 1/2" TO 4" BLOW  
ISIP - NO BLOW  
FFP - WEAK BLOW 1/4" TO 1/2" BLOW  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>GTP</u>				
<u>30</u>	<u>M60</u>	<u>10</u>	<u>65</u>	<u>25</u>	
<u>10</u>	<u>M60</u>	<u>10</u>	<u>75</u>	<u>15</u>	

Rec Total 40 BHT 108 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1715  Test 1050 T-On Location 1435  
 (B) First Initial Flow 22  Jars - T-Started 1535  
 (C) First Final Flow 31  Safety Joint - T-Open 1730  
 (D) Initial Shut-In 55  Circ Sub - T-Pulled 2030  
 (E) Second Initial Flow 24  Hourly Standby - T-Out 2207  
 (F) Second Final Flow 32  Mileage 33RT Comments -  
 (G) Final Shut-In 41  Sampler -  
 (H) Final Hydrostatic 1697  Straddle -  Ruined Shale Packer -  
 Shale Packer -  Ruined Packer -  
 Extra Packer -  Extra Copies -  
 Extra Recorder - Sub Total 0  
 Day Standby - Total 1083  
 Accessibility - MP/DST Disc't -  
 Sub Total 1083

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64911**

Well Name & No. Weber #1-7 Test No. 4 Date 12-7-15  
 Company AMERICAN WARRIOR Inc Elevation 2132 KB 2124 GL  
 Address 3118 Cummings Rd PO Box 399 Garden City, Ks 67846  
 Co. Rep / Geo. JASON ALM Rig DISCOVERY rig 3  
 Location: Sec. 7 Twp. 13<sup>s</sup> Rge. 19<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3767-3809 Zone Tested Cond. SD.  
 Anchor Length 42 Drill Pipe Run 3743 Mud Wt. 9.1  
 Top Packer Depth 3762 Drill Collars Run 30 Vis 55  
 Bottom Packer Depth 3767 Wt. Pipe Run — WL 7.2  
 Total Depth 3809 Chlorides 6400 ppm System LCM 1#  
 Blow Description IFP - STRONG Blow in 4min  
TSIP - 1/2" Blow BACK  
FFP - STRONG Blow in 4min  
FSIP - 1/2" Blow BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</u>	<u>GIP</u>				
<u>63</u>	<u>M60</u>	<u>30</u>	<u>50</u>		<u>20</u>
<u>525</u>	<u>CO</u>				

Rec Total 588 BHT 116 Gravity 27 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1762  Test 1080 T-On Location 0710  
 (B) First Initial Flow 81  Jars — T-Started 0740  
 (C) First Final Flow 169  Safety Joint — T-Open 0945  
 (D) Initial Shut-In 995  Circ Sub — T-Pulled 1115  
 (E) Second Initial Flow 171  Hourly Standby — T-Out 1326  
 (F) Second Final Flow 242  Mileage 33RT Comments —  
 (G) Final Shut-In 913  Sampler —  
 (H) Final Hydrostatic 1738  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Initial Open 15  Extra Recorder — Sub Total 0  
 Initial Shut-In 30  Day Standby — Total 1083  
 Final Flow 15  Accessibility — MP/DST Disc't —  
 Final Shut-In 30  Sub Total 1083

Approved By \_\_\_\_\_

Our Representative Ray Schwager

*Thank you*

# **Geological Report**

**Weber #1-7**  
993' FNL & 1845' FWL  
Sec. 7 T13s R19w  
Ellis County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Weber #1-7  
993' FNL & 1845' FWL  
Sec. 7 T13s R19w  
Ellis County, Kansas  
API # 15-051-26817-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm

Spud Date: December 1, 2015

Completion Date: December 8, 2015

Elevation: 2124' Ground Level  
2132' Kelly Bushing

Directions: Yocemento KS, West on Hwy 40 to 160 Ave, North  
2 mi. to Feedlot Rd, East ¼ mi, South into location.

Casing: 231' 8 5/8" surface casing  
3948' 5 1/2" production casing

Samples: 10' wet and dry, 3050' to RTD

Drilling Time: 3150' to RTD

Electric Logs: Pioneer Energy Services "Dan Schmidt"  
CNL/CDL, DIL, MEL, BHCS

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

Problems: None

Remarks: None

## Formation Tops

	<b>American Warrior, Inc.</b> <b>Weber #1-7</b> <b>Sec. 7 T13s R19w</b> <b>993' FNL &amp; 1845' FWL</b>
<b>Formation</b>	
Anhydrite	<b>1470', +662</b>
Base	<b>1514', +618</b>
Topeka	<b>3187', -1055</b>
Heebner	<b>3422', -1290</b>
Toronto	<b>3443', -1311</b>
Lansing	<b>3463', -1331</b>
BKC	<b>3712', -1580</b>
Marmaton	<b>3756', -1624</b>
Conglomerate Sand	<b>3782', -1650</b>
Arbuckle	<b>3858', -1726</b>
LTD	<b>3949', -1817</b>
RTD	<b>3950', -1818</b>

## Sample Zone Descriptions

- LKC “C” zone (3495’, -1363): Covered in DST #1**  
 Ls – Fine crystalline, oolitic with poor to fair oolitic porosity, light to fair oil stain with light scattered saturation, show of free oil, light odor, dull yellow fluorescents.
- LKC “D” zone (3515’, -1383): Covered in DST #1**  
 Ls – Fine to sub-crystalline, oolitic with poor oomoldic and inter-crystalline porosity, light to fair oil stain with very scattered light saturation, slight show of free oil, very light odor, dull yellow fluorescents.
- LKC “E” zone (3538’, -1406): Covered in DST #2**  
 Ls – Fine crystalline, micro-oolitic with fair pinpoint oomoldic porosity, light to fair oil stain with light spotted saturation, slight show of free oil when broken, light odor, dull yellow fluorescents.
- LKC “J” zone (3643’, -1511): Covered in DST #3**  
 Ls – Fine to sub-crystalline, oolitic with fair oomoldic and inter-crystalline porosity, light heavy oil stain with light to fair saturation, slight show of free oil, fair odor, light yellow fluorescents.



**Conglomerate Sand (3782', -1650): Covered in DST #4**

Ss – Quartz, clear, fine to coarse grained, poor to very poorly sorted, fair to poorly cemented, sub-rounded to sub-angular with poor to good inter-granular porosity in cluster, fair to good show of free oil, light to very good oil stain and saturation in cluster, fair show of free oil on cup, good odor, light spotted yellow fluorescents.

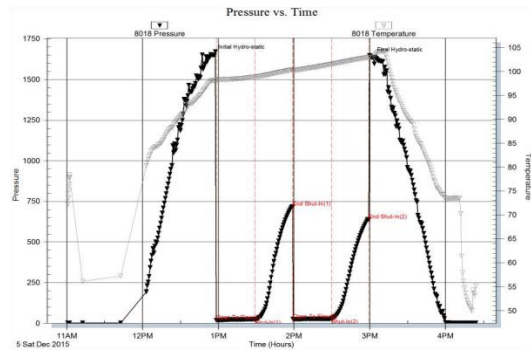
**Drill Stem Tests**  
 Trilobite Testing, Inc.  
 "Ray Schwager"

**DST #1 LKC "C-D" zones**

Interval (3485' – 3530') Anchor Length 45'

- IHP – 1651 #
- IFP – 30" – Built to ¼ in. 19-25 #
- ISI – 30" – Dead 716 #
- FFP – 30" – Built to ¼ in. 25-30 #
- FSI – 30" – Dead 637 #
- FHP – 1634 #
- BHT – 102°F

Recovery: 20' SOCM 2% Oil

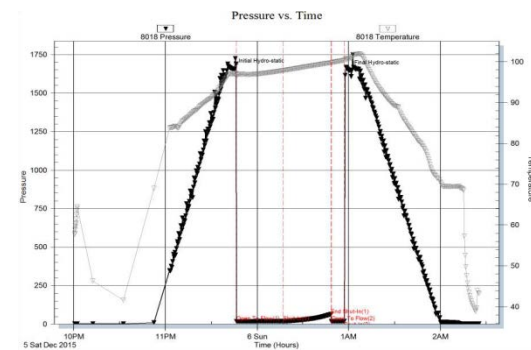


**DST #2 LKC "E-F" zones**

Interval (3525' – 3555') Anchor Length 30'

- IHP – 1657 #
- IFP – 30" – W.S.B. 18-18 #
- ISI – 30" – Dead 64 #
- FFP – 10" – Dead 18-19 #
- FHP – 1647 #
- BHT – 100°F

Recovery: 1' Mud

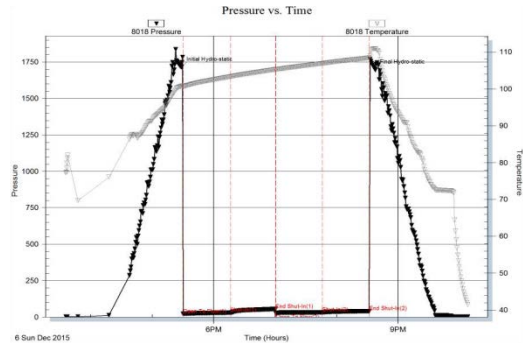


**DST #3 LKC "J-L" zones**

Interval (3640' – 3708') Anchor Length 68'

- IHP – 1715 #
- IFP – 45" – Built to 4 in. 22-31 #
- ISI – 45" – Dead 55 #
- FFP – 45" – Built to 1 1/2 in. 24-32 #
- FSI – 45" – Dead 41 #
- FHP – 1698 #
- BHT – 110°F

Recovery: 150' GIP  
 30' MGO 65% Oil  
 10' MGO 75% Oil

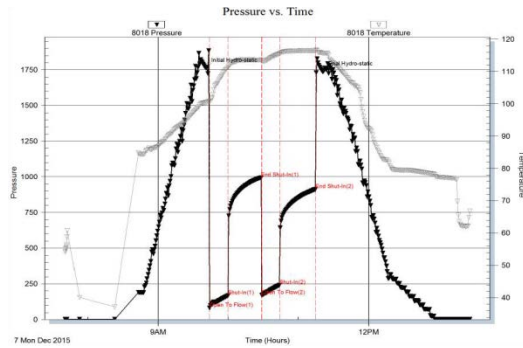


**DST #4 Conglomerate Sand**

Interval (3767' – 3809') Anchor Length 42'

- IHP – 1763 #
- IFP – 15" – B.O.B. 4 min. 81-169 #
- ISI – 30" – Built to 1/2 in. 996 #
- FFP – 15" – B.O.B. 4 min. 171-242 #
- FSI – 30" – Built to 1/2 in. 913 #
- FHP – 1739 #
- BHT – 116°F

Recovery: 145' GIP  
 525' GCO  
 63' MGO 50% Oil



**Structural Comparison**

	American Warrior, Inc. Weber #1-7 Sec. 7 T13s R19w 993' FNL & 1845' FWL	Graham Michaelis Corp Weber #1-7 Sec. 7 T13s R19w SW SW NW		Petroleum, Inc. Amrein #2 Sec. 6 T13s R19w E2 SW SW	
<b>Formation</b>					
Anhydrite	1470', +662	NA	NA	1514', +657	(+5)
Base	1514', +618	NA	NA	1558', +613	(+5)
Topeka	3187', -1055	3178', -1043	(-12)	3225', -1054	(-1)
Heebner	3422', -1290	3416', -1281	(-9)	3461', -1290	FL
Toronto	3443', -1311	3438', -1303	(-8)	NA	NA
Lansing	3463', -1331	3458', -1323	(-8)	3503', -1332	(+1)
BKC	3712', -1580	3700', -1565	(-15)	3744', -1573	(-7)
Marmaton	3756', -1624	3750', -1615	(-9)	NA	NA
Cong Sand	3782', -1650	Not Present	NP	3846', -1673	(+23)
Arbuckle	3858', -1726	Not Present	NP	3875', -1704	(-22)

## Summary

The location for the Weber #1-7 well was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Four Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Conglomerate Sand. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Weber #1-7 well.

### Recommended Perforations

**Primary:**

**Conglomerate Sand (3786' – 3794') DST #4**

**Before Abandonment:**

**LKC "J" (3612' – 3615') DST #3**

**LKC "C" (3499' – 3502') DST #1**

**(3505' – 3509')**

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.