

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1254784  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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

1254784

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

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

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Harper 1-10
Doc ID	1254784

Tops

Name	Top	Datum
Anhy	1485	+652
B/Anhy	1515	+622
Topeka	3088	-951
Heebner	3300	-1163
Toronto	3323	-1186
Lansing	3340	-1203
B/KC	3565	-1428
Arbuckle	3648	-1610





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

TICKET 27177

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Hays Ks</u> 2. <u>Ness City Ks</u>	WELL/PROJECT NO. <u>#1-10</u>	LEASE <u>Harpce</u>	COUNTY/PARISH <u>Rooks</u>	STATE <u>Ks</u>	CITY	DATE <u>5-8-15</u>	OWNER
	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Discovery Drilling</u>	RIG NAME/NO. <u>Rig #2</u>	SHIPPED VIA	DELIVERED TO <u>location</u>	ORDER NO.	
	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Shallow Surface</u>	WELL PERMIT NO.	WELL LOCATION		
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	40		Mi		25.00	200.00
5765		1			Pump Charge - Shallow Surface	1		EA		800.00	800.00
290		1			D-Air	2		GAL		42.00	84.00
325		2			Standard Cmt	175		SKS		12.25	2143.75
279		2			Bentonite Gel	3		SKS		25.00	75.00
278		2			Calcium Chloride	6		SKS		40.00	240.00
581		2			Service Charge Cement	175		SKS		1.50	262.50
583		2			Drayage	345		TM		75	258.75

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

X  
 DATE SIGNED 5-8-15 TIME SIGNED 6:00  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	<u>4063.25</u>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					<u>4064.00</u>
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				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	<u>4233.09</u>

Rooks  
 TAX  
16.65% 169.09

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

SWIFT OPERATOR David Edgerton

APPROVAL [Signature]

Thank You!

**JOB LOG**

**SWIFT Services, Inc.**

DATE 5-8-15 PAGE NO. 1

CUSTOMER American Warrior WELL NO. #1-10 LEASE Harper JOB TYPE Shallow Surface TICKET NO. 27177

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	400							On location
								8 5/8 - 24"
								RTD - 214'
								Csg - 203.9
								LJ - 10.00'
								Tot - 213.9
	430							Start Csg
	500							Break Circ on Bottom
	510	5	10 BBL				0	Start WTR Flush - 10 BBL
		5	0				0	Start Cmt
		5	43				0	End Cmt
		5	0				0	Start Disp
	540	5	12.5				0	End Disp
								Thanks
								David, Austin & Preston



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

TICKET 27030

PAGE 1 OF 1

SERVICE LOCATIONS 1. <i>Hays, Ks</i> 2. <i>Ness City, Ks</i> 3. 4.	WELL/PROJECT NO. <i>1-10</i>	LEASE <i>Harper</i>	COUNTY/PARISH <i>Rooks</i>	STATE <i>Ks</i>	CITY	DATE <i>5/28/15</i>	OWNER <i>Same</i>
	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Express Well Serv.</i>	RIG NAME/NO.	SHIPPED VIA <i>CIT</i>	DELIVERED TO <i>Loc.</i>	ORDER NO.	
	WELL TYPE <i>Oil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>Cmt. Port Collar</i>	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>575</i>		<i>1</i>			<i>MILEAGE #111</i>	<i>30</i>	<i>mi</i>			<i>5.00</i>	<i>150.00</i>
<i>576 D</i>		<i>1</i>			<i>Pump Service</i>	<i>1</i>	<i>ea</i>			<i>1,250.00</i>	<i>1,250.00</i>
<i>290</i>		<i>1</i>			<i>D-Air</i>	<i>1</i>	<i>gal</i>			<i>42.00</i>	<i>42.00</i>
<i>104</i>		<i>2</i>			<i>Port Collar Opening Tool</i>	<i>1</i>	<i>job</i>			<i>200.00</i>	<i>200.00</i>
<i>581</i>		<i>2</i>			<i>Service Charge</i>	<i>175</i>	<i>sk</i>			<i>1.50</i>	<i>262.50</i>
<i>583</i>		<i>2</i>			<i>Drayage</i>	<i>436</i>	<i>Ton miles</i>			<i>175</i>	<i>327.00</i>
<i>330</i>		<i>2</i>			<i>SMD Cement</i>	<i>100</i>	<i>sk</i>			<i>15.75</i>	<i>1,575.00</i>
<i>276</i>		<i>2</i>			<i>Flocele</i>	<i>45</i>	<i>#</i>			<i>2.25</i>	<i>101.25</i>

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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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	<i>3,907.75</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>Rooks TAX 16.65%</i>	<i>127.56</i>
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	<i>4035.31</i>
<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 *[Signature]* APPROVAL \_\_\_\_\_

Thank You!









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

TICKET 28388

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Ness City KS</u>	WELL/PROJECT NO. <u>1-10</u>	LEASE <u>Harper</u>	COUNTY/PARISH <u>Rooks</u>	STATE <u>KS</u>	CITY <u>Zurich</u>	DATE <u>5-15-15</u>	OWNER <u>Same</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Discovery Drilling</u>		RIG NAME/NO. <u># 2</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 5 1/2" longstring</u>	WELL PERMIT NO.		WELL LOCATION <u>Zurich KS- 3s, 1E, Uinb</u>		
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 <u>Tnk #112</u>					5.00	400.00	
578		1			Pump Charge - Longstring			1	job	1250.00	1250.00	
402		1			Centralizer			5 1/2	lin	80.00	480.00	
403		1			Cement Basket			5 1/2	lin	2.50	500.00	
404		1			Port Collar			5 1/2	lin	2500.00	2500.00	
406		1			Latch Down Plug + Baffle			5 1/2	lin	225.00	225.00	
407		1			Insert Float Shoe w/ Auto Fill			5 1/2	lin	300.00	300.00	
419		1			Rotating Head Rental			5 1/2	lin	200.00	200.00	

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X  
 DATE SIGNED 5-15-15 TIME SIGNED 1000  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 #1	5855.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL #2	5448.00
WE UNDERSTOOD AND MET YOUR NEEDS?				subtotal	11,303.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Rooks TAX 6.65%	587.88
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	11,891.13
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	<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 Kushin APPROVAL [Signature]

Thank You!



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

TICKET CONTINUATION

TICKET No. 28388

CUSTOMER American Warrior  
WELL Harper 1-10  
DATE 5-15-15  
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE		AMOUNT			
		LOC	ACCT	DF			QTY	U/M	QTY	U/M						
325		1				Standard Cement					175	sts	12	25	2143	75
284		1				Calsoal	5	%			8	sts	30	00	240	00
283		1				Salt	10	%			900	lbs	00	20	180	00
292		1				Halad 322	3/4	lb			150	lbs	8	00	1200	00
276		1				Fbceck	1/4	lb			50	lbs	2	25	112	50
240		1				D-Air					2	gal	42	00	84	00
221		1				Liquid 15CL					2	gal	25	00	50	00
281		1				Wind Flush					500	gal	1	25	625	00
581		1				SERVICE CHARGE										
											CUBIC FEET	175	1	50	262	50
583		1				MILEAGE CHARGE										
						TOTAL WEIGHT	18350				LOADED MILES	80				
											TON MILES	734	0	75	550	50

CONTINUATION TOTAL 5448.25

JOB LOG

SWIFT Services, Inc.

DATE 5-15-15 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-10 LEASE Harper JOB TYPE Cement 5 1/2" Longstring TICKET NO. 28388

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							on Location
								RTD - 3748 LTD - 3747 TP - 3746 Set - 3746 SJ - 40.85 #2 PC - 1474 #55 cent #2 #4 #6 #8 #10 #12 #14 #54 Basket #2 #55 5 1/2" 15.5"
	1015							Start 5 1/2" 15.5" casing in well
	1150							Drop Ball circulate * Rotate *
	1240	6 1/2	12		✓	350	Pump	500 gal <del>1000 gal</del> Mud Flush
		6 1/2	20		✓	350	Pump	20 bbl HCL Flush
			7 - 3 1/2					Plug RH - MH (30-15)
	1300	4 1/2	31 1/2			200		mix 130 slts EA-2 @ 15.5 fpg Wash out Pump & Lines Release Latch Down Plug
		6 1/2	0		✓	100		Start Displacement * Rotate *
		6 1/2	60		✓	400		Lift Pressure
		6 1/2	89		✓	800		Max Lift Pressure
	1330	6 1/2	88.2		✓	1600		land Latch Down Plug
								Release Pressure * Hold *
								Wash up truck
	1415							Job Complete
								Thank You Dave John Tyler



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Marc Downing

### **Harper #1-10**

#### **10-10s-19w Rooks KS**

Start Date: 2015.05.12 @ 03:25:00

End Date: 2015.05.12 @ 16:23:45

Job Ticket #: 62707                      DST #: 1

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

Printed: 2015.05.15 @ 08:56:41



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Marc Downing

**10-10s-19w Rooks KS**  
**Harper #1-10**  
Job Ticket: 62707 **DST#: 1**  
Test Start: 2015.05.12 @ 03:25:00

## GENERAL INFORMATION:

Formation: **LKC "C-D"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 06:05:30  
Time Test Ended: 16:23:45  
Interval: **3365.00 ft (KB) To 3403.00 ft (KB) (TVD)**  
Total Depth: 3403.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Cody Bloedorn  
Unit No: 73  
Reference Elevations: 2128.00 ft (KB)  
2120.00 ft (CF)  
KB to GR/CF: 8.00 ft

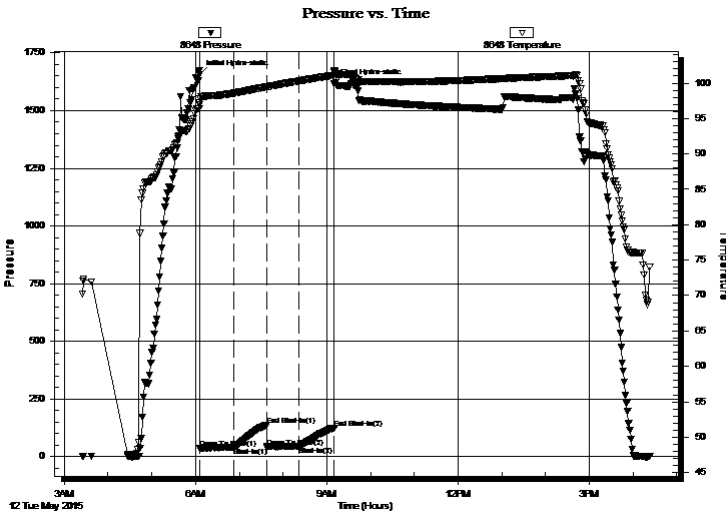
## Serial #: 8648

Inside

Press@RunDepth: 45.95 psig @ 3368.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.05.12 End Date: 2015.05.12 Last Calib.: 2015.05.12  
Start Time: 03:25:05 End Time: 16:23:45 Time On Btm: 2015.05.12 @ 06:05:15  
Time Off Btm: 2015.05.12 @ 09:10:15

TEST COMMENT: 45 - IF- 3" blow  
45 - IS- No return  
45 - FF- 3 1/2" blow  
45 - FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.61	97.23	Initial Hydro-static
1	34.83	96.94	Open To Flow (1)
47	40.97	98.56	Shut-In(1)
92	137.97	99.48	End Shut-In(1)
92	41.17	99.43	Open To Flow (2)
137	45.95	100.29	Shut-In(2)
185	124.79	101.11	End Shut-In(2)
185	1616.25	101.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud - Oil spots, 100%M	0.15

## 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: Marc Downing

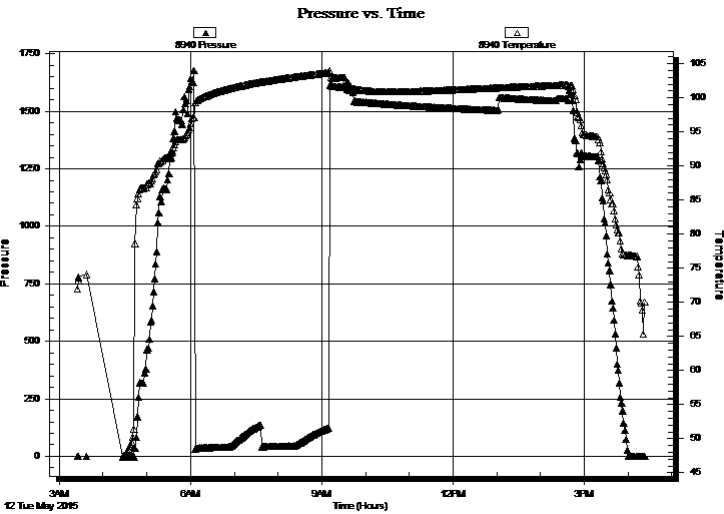
**10-10s-19w Rooks KS**  
**Harper #1-10**  
 Job Ticket: 62707 **DST#: 1**  
 Test Start: 2015.05.12 @ 03:25:00

## GENERAL INFORMATION:

Formation: **LKC "C-D"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 06:05:30 Tester: Cody Bloedorn  
 Time Test Ended: 16:23:45 Unit No: 73  
 Interval: **3365.00 ft (KB) To 3403.00 ft (KB) (TVD)** Reference Elevations: 2128.00 ft (KB)  
 Total Depth: 3403.00 ft (KB) (TVD) 2120.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8940 Outside**  
 Press@RunDepth: psig @ 3368.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.05.12 End Date: 2015.05.12 Last Calib.: 2015.05.12  
 Start Time: 03:25:05 End Time: 16:24:00 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 45 - IF- 3" blow  
 45 - IS- No return  
 45 - FF- 3 1/2" blow  
 45 - FS- No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud - Oil spots, 100%M	0.15

## 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: Marc Downing

**10-10s-19w Rooks KS**  
**Harper #1-10**  
Job Ticket: 62707 **DST#: 1**  
Test Start: 2015.05.12 @ 03:25:00

**Tool Information**

Drill Pipe:	Length: 3066.00 ft	Diameter: 3.80 inches	Volume: 43.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 45.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3365.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 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>
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Change Over Sub	1.00			3346.00	
Shut In Tool	5.00			3351.00	
Hydraulic tool	5.00			3356.00	
Packer	5.00			3361.00	20.00 Bottom Of Top Packer
Packer	4.00			3365.00	
Stubb	1.00			3366.00	
Anchor	1.00			3367.00	
Change Over Sub	1.00			3368.00	
Recorder	0.00	8648	Inside	3368.00	
Recorder	0.00	8940	Outside	3368.00	
Drill Pipe	31.00			3399.00	
Change Over Sub	1.00			3400.00	
Bullnose	3.00			3403.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**10-10s-19w Rooks KS**

PO Box 399  
Garden City KS 67846

**Harper #1-10**

Job Ticket: 62707

**DST#: 1**

ATTN: Marc Downing

Test Start: 2015.05.12 @ 03:25:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4250.00 ppm

Filter Cake: 2.50 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud - Oil spots, 100%M	0.147

Total Length: 20.00 ft      Total Volume: 0.147 bbl

Num Fluid Samples: 0

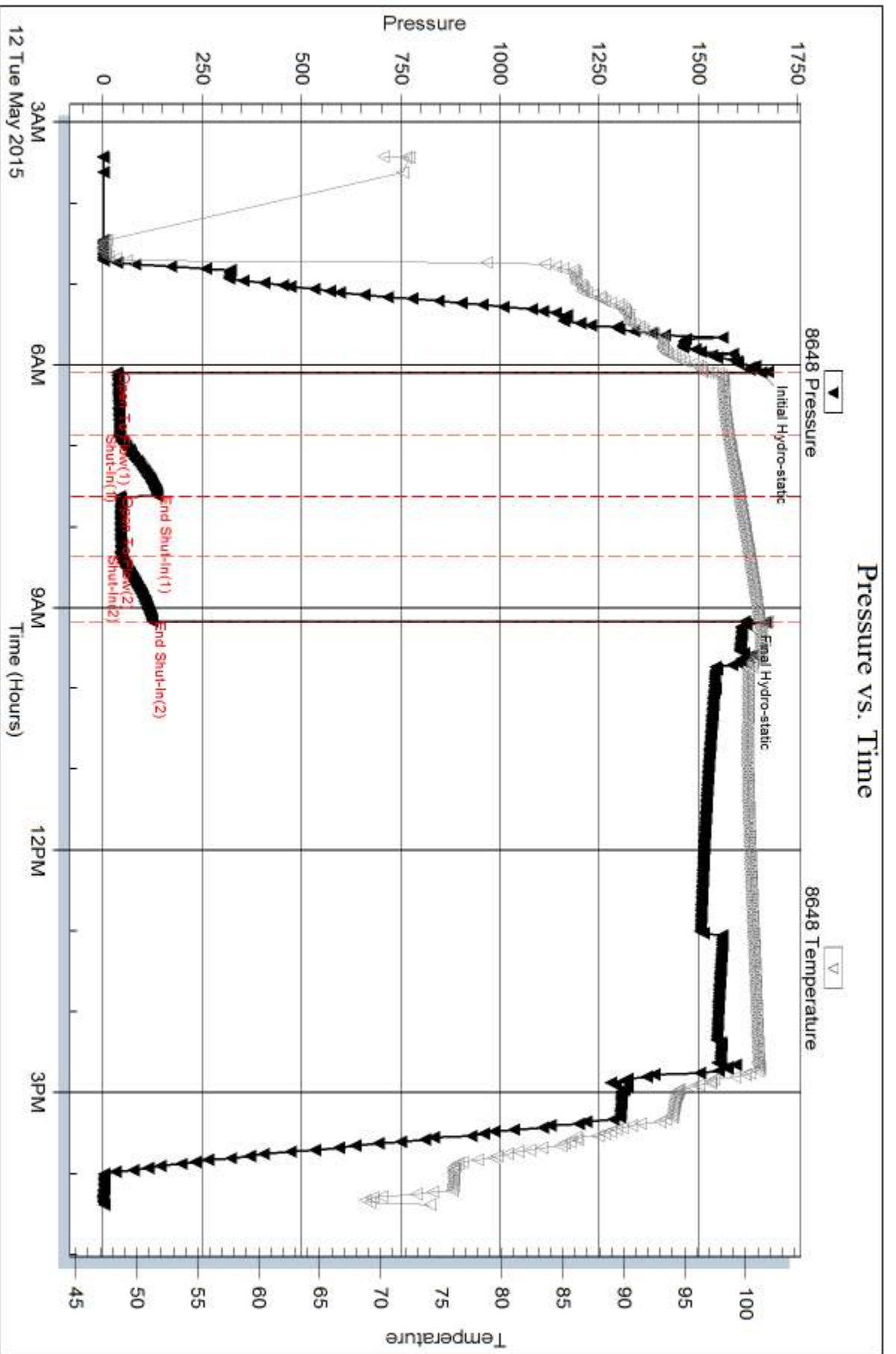
Num Gas Bombs: 0

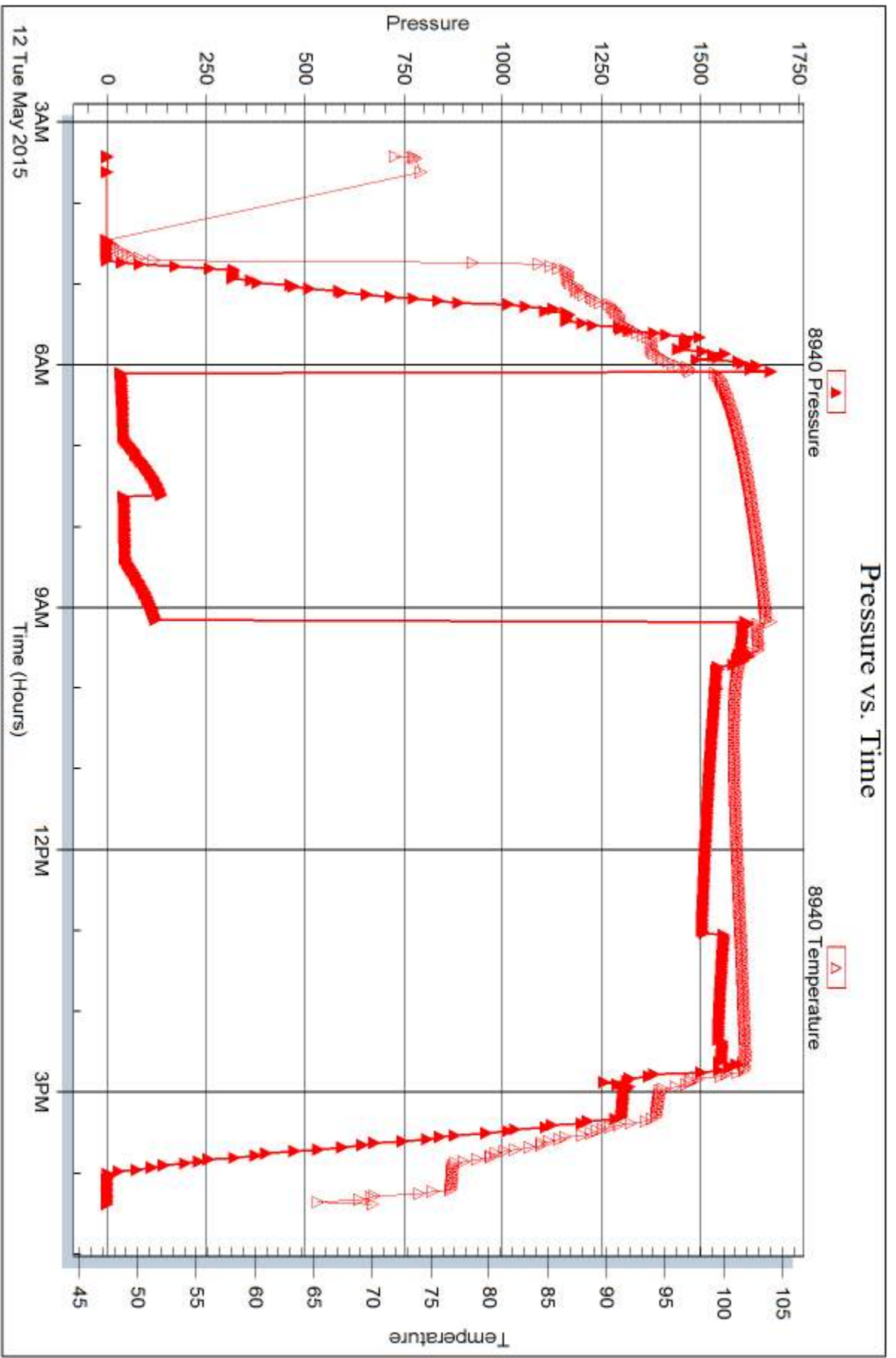
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Marc Downing

### **Harper #1-10**

#### **10-10s-19w Rooks KS**

Start Date: 2015.05.12 @ 23:08:00

End Date: 2015.05.13 @ 05:03:30

Job Ticket #: 62708                      DST #: 2

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

Printed: 2015.05.15 @ 08:56:21



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Marc Downing

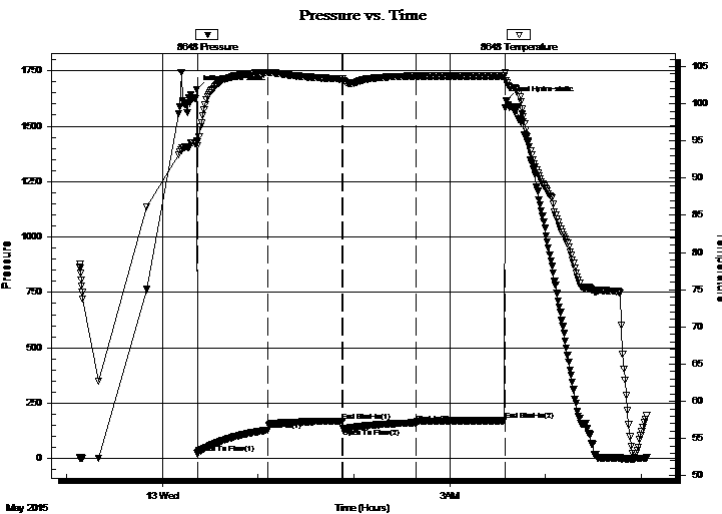
**10-10s-19w Rooks KS**  
**Harper #1-10**  
Job Ticket: 62708 **DST#: 2**  
Test Start: 2015.05.12 @ 23:08:00

## GENERAL INFORMATION:

Formation: **LKC "E-F"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:21:45  
Time Test Ended: 05:03:30  
Interval: **3402.00 ft (KB) To 3430.00 ft (KB) (TVD)**  
Total Depth: 3430.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Cody Bloedorn  
Unit No: 73  
Reference Elevations: 2128.00 ft (KB)  
2120.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8648 Inside**  
Press@RunDepth: 161.69 psig @ 3427.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.05.12 End Date: 2015.05.13 Last Calib.: 2015.05.13  
Start Time: 23:08:05 End Time: 05:03:29 Time On Btm: 2015.05.13 @ 00:21:30  
Time Off Btm: 2015.05.13 @ 03:35:30

**TEST COMMENT:** 45 - IF- B.O.B. In 20 minutes  
45 - IS- Surface return, died in 12 minutes  
45 - FF- 5" blow  
45 - FS- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.47	94.94	Initial Hydro-static
1	22.38	94.40	Open To Flow (1)
45	128.91	104.20	Shut-In(1)
92	168.43	103.31	End Shut-In(1)
92	135.08	103.28	Open To Flow (2)
138	161.69	103.72	Shut-In(2)
193	171.47	103.72	End Shut-In(2)
194	1616.68	103.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM, 20%W, 80%M	0.46
186.00	MW, 10%M, 90%W	1.37
62.00	MW, 40%M, 60%W	0.46

## 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: Marc Downing

**10-10s-19w Rooks KS**  
**Harper #1-10**  
Job Ticket: 62708      **DST#: 2**  
Test Start: 2015.05.12 @ 23:08:00

**Tool Information**

Drill Pipe:	Length: 3095.00 ft	Diameter: 3.80 inches	Volume: 43.41 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer:	30000.00 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: 45.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3402.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	48.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3383.00	
Shut In Tool	5.00			3388.00	
Hydraulic tool	5.00			3393.00	
Packer	5.00			3398.00	20.00      Bottom Of Top Packer
Packer	4.00			3402.00	
Stubb	1.00			3403.00	
Anchor	24.00			3427.00	
Recorder	0.00	8648	Inside	3427.00	
Recorder	0.00	8940	Outside	3427.00	
Bullnose	3.00			3430.00	28.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**10-10s-19w Rooks KS**

PO Box 399  
Garden City KS 67846

**Harper #1-10**

Job Ticket: 62708

**DST#: 2**

ATTN: Marc Downing

Test Start: 2015.05.12 @ 23:08:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 3.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	WM, 20%W, 80%M	0.455
186.00	MW, 10%M, 90%W	1.366
62.00	MW, 40%M, 60%W	0.455

Total Length: 310.00 ft      Total Volume: 2.276 bbl

Num Fluid Samples: 0

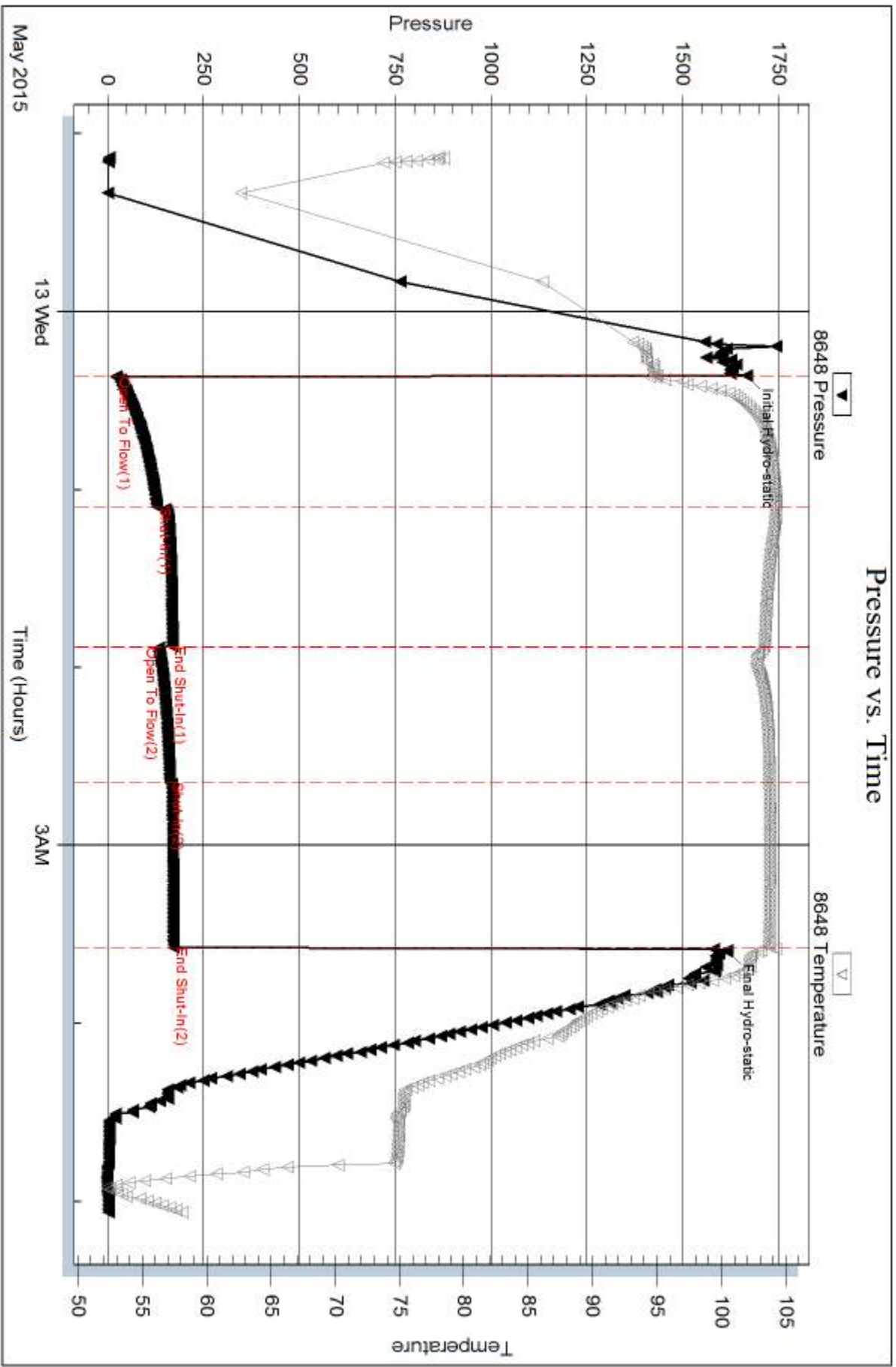
Num Gas Bombs: 0

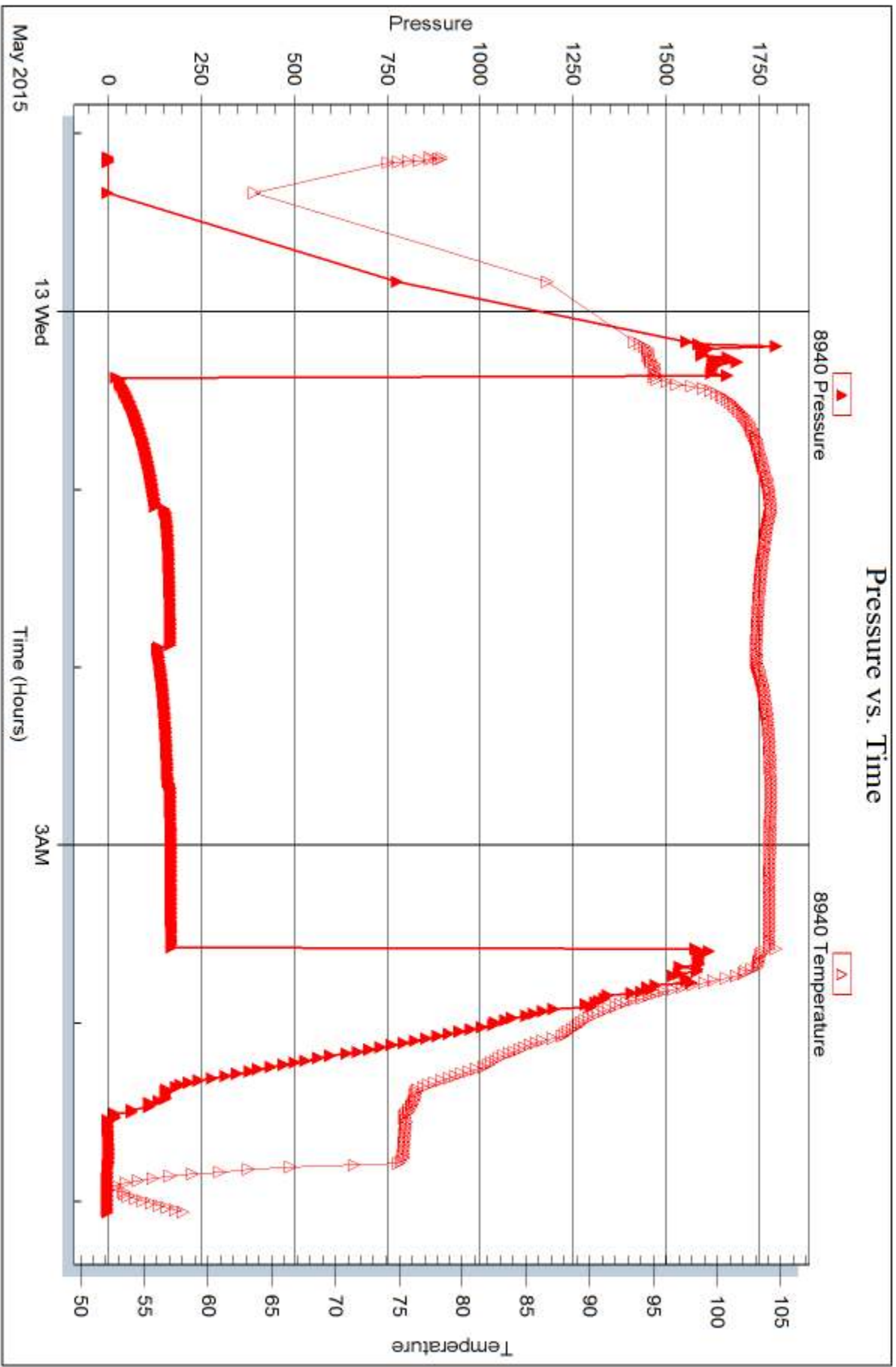
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .28 @ 60 Degrees = 27000







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Marc Downing

### **Harper #1-10**

#### **10-10s-19w Rooks KS**

Start Date: 2015.05.13 @ 14:18:00

End Date: 2015.05.13 @ 19:22:15

Job Ticket #: 62709                      DST #: 3

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

Printed: 2015.05.15 @ 08:56:01



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Marc Downing

**10-10s-19w Rooks KS**  
**Harper #1-10**  
 Job Ticket: 62709 **DST#: 3**  
 Test Start: 2015.05.13 @ 14:18:00

## GENERAL INFORMATION:

Formation: **LKC "H-J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:52:30  
 Time Test Ended: 19:22:15  
 Interval: **3459.00 ft (KB) To 3524.00 ft (KB) (TVD)**  
 Total Depth: 3524.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 73  
 Reference Elevations: 2128.00 ft (KB)  
 2120.00 ft (CF)  
 KB to GR/CF: 8.00 ft

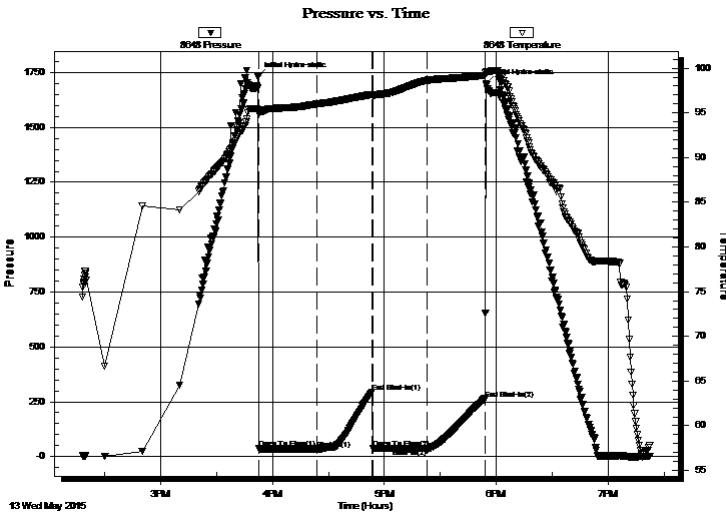
## Serial #: 8648

Inside

Press@RunDepth: 36.80 psig @ 3466.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.05.13 End Date: 2015.05.13 Last Calib.: 2015.05.13  
 Start Time: 14:18:05 End Time: 19:22:14 Time On Btm: 2015.05.13 @ 15:52:15  
 Time Off Btm: 2015.05.13 @ 17:54:30

TEST COMMENT: 30 - IF- 1/4" blow  
 30 - IS- No return  
 30 - FF- No blow  
 30 - FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.32	95.38	Initial Hydro-static
1	36.43	94.85	Open To Flow (1)
32	35.69	95.97	Shut-In(1)
61	293.30	97.06	End Shut-In(1)
62	39.37	96.90	Open To Flow (2)
91	36.80	98.64	Shut-In(2)
122	262.62	99.20	End Shut-In(2)
123	1700.19	99.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - Oil spots, 100%M	0.04

\* 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: Marc Downing

**10-10s-19w Rooks KS**  
**Harper #1-10**  
Job Ticket: 62709 **DST#: 3**  
Test Start: 2015.05.13 @ 14:18:00

**Tool Information**

Drill Pipe:	Length: 3159.00 ft	Diameter: 3.80 inches	Volume: 44.31 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume: 46.59 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3459.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	65.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

**Tool Description**

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

Change Over Sub	1.00			3440.00	
Shut In Tool	5.00			3445.00	
Hydraulic tool	5.00			3450.00	
Packer	5.00			3455.00	20.00 Bottom Of Top Packer
Packer	4.00			3459.00	
Stubb	1.00			3460.00	
Anchor	5.00			3465.00	
Change Over Sub	1.00			3466.00	
Recorder	0.00	8648	Inside	3466.00	
Recorder	0.00	8940	Outside	3466.00	
Drill Pipe	31.00			3497.00	
Change Over Sub	1.00			3498.00	
Anchor	23.00			3521.00	
Bullnose	3.00			3524.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 85.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**10-10s-19w Rooks KS**

PO Box 399  
Garden City KS 67846

**Harper #1-10**

Job Ticket: 62709

**DST#: 3**

ATTN: Marc Downing

Test Start: 2015.05.13 @ 14:18:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.50 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - Oil spots, 100%M	0.037

Total Length: 5.00 ft      Total Volume: 0.037 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

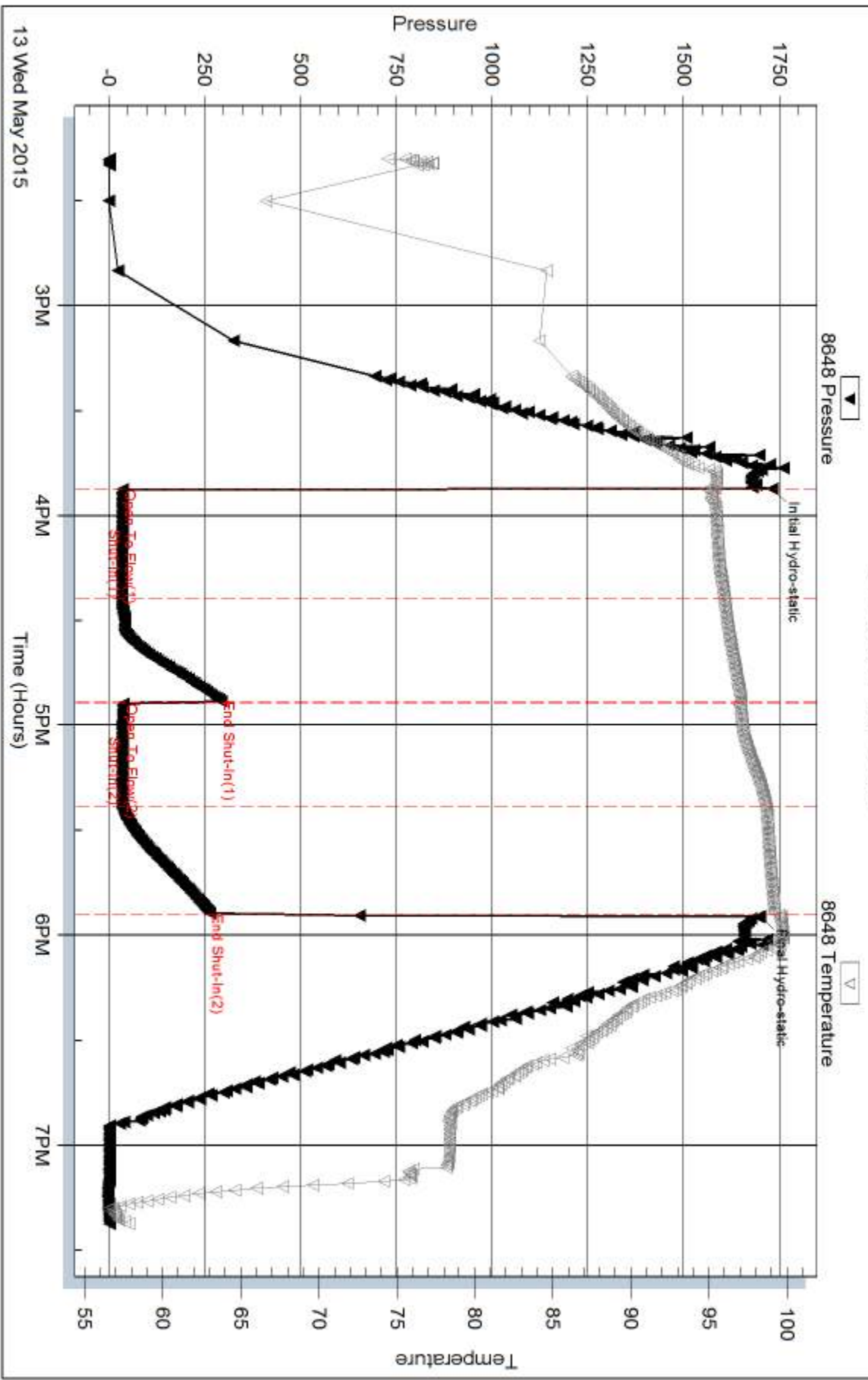
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

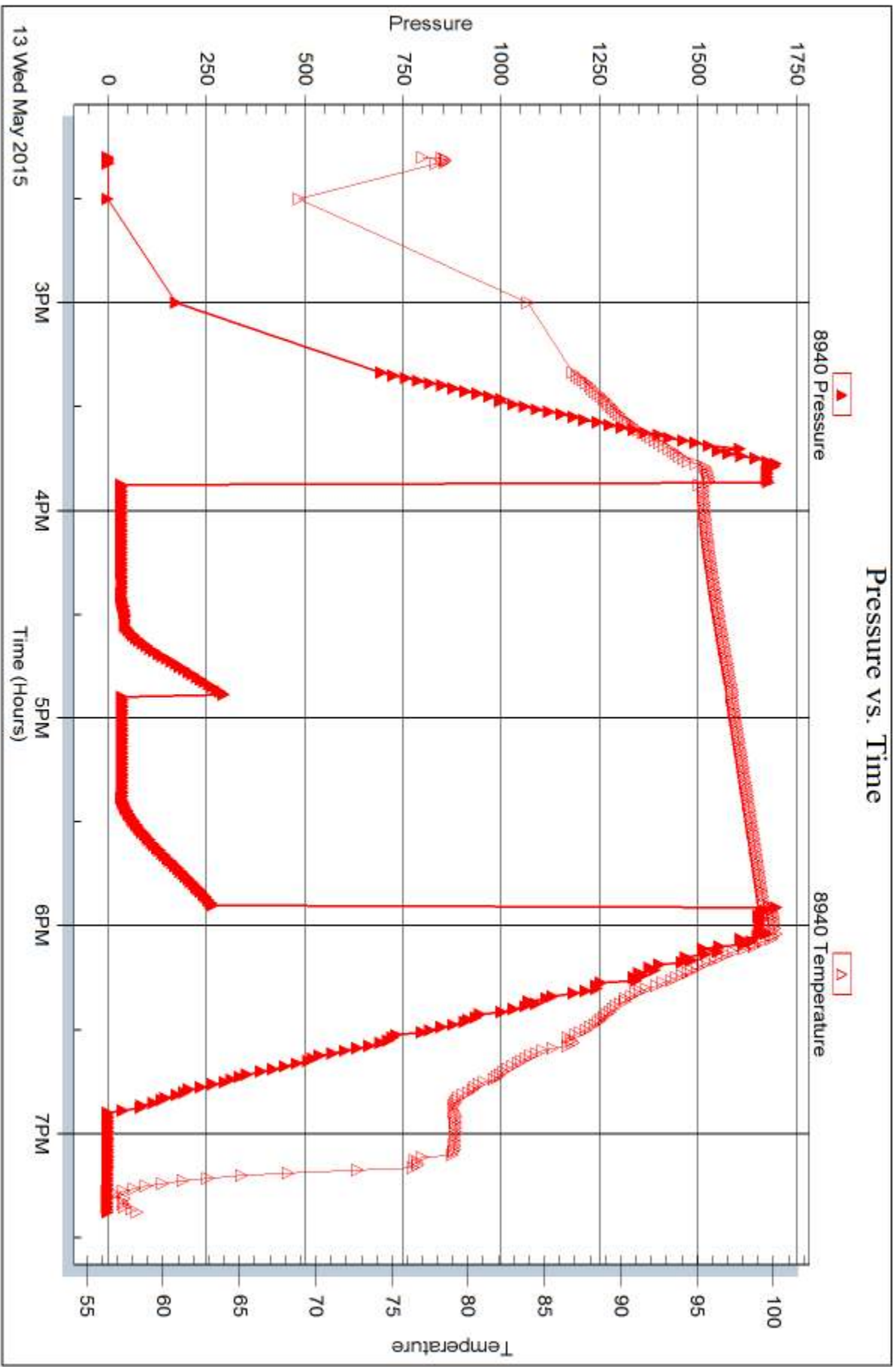


Serial #: 8940

Outside American Warrior Inc

Harper #1-10

DST Test Number: 3



13 Wed May 2015

Triobite Testing, Inc

Ref. No: 62709

Printed: 2015.05.15 @ 08:56:02



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Marc Downing

### **Harper #1-10**

#### **10-10s-19w Rooks KS**

Start Date: 2015.05.14 @ 08:06:00

End Date: 2015.05.14 @ 15:03:00

Job Ticket #: 62710                      DST #: 4

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

Printed: 2015.05.15 @ 08:55:15



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Marc Downing

**10-10s-19w Rooks KS**  
**Harper #1-10**  
Job Ticket: 62710      **DST#: 4**  
Test Start: 2015.05.14 @ 08:06:00

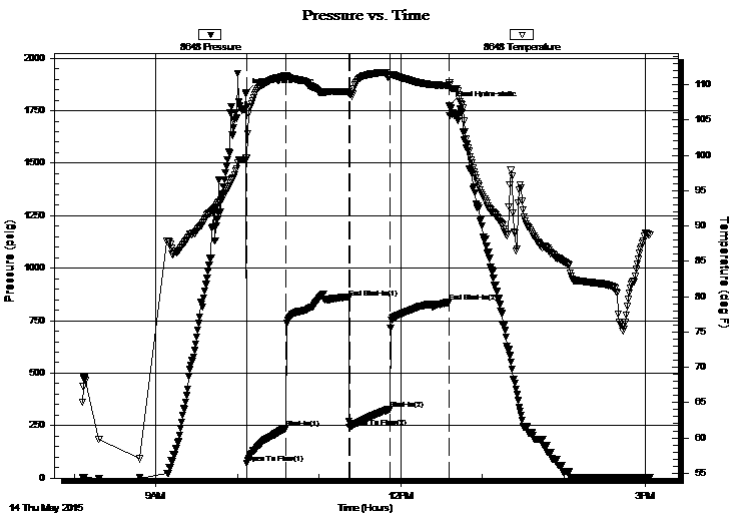
## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 10:06:45  
Time Test Ended: 15:03:00  
Interval: **3599.00 ft (KB) To 3658.00 ft (KB) (TVD)**  
Total Depth: 3658.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Cody Bloedorn  
Unit No: 73  
Reference Elevations: 2128.00 ft (KB)  
2120.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8648      Inside**  
Press@RunDepth: 330.40 psig @ 3605.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.05.14      End Date: 2015.05.14      Last Calib.: 2015.05.14  
Start Time: 08:06:05      End Time: 15:02:59      Time On Btm: 2015.05.14 @ 10:06:15  
Time Off Btm: 2015.05.14 @ 12:35:45

TEST COMMENT: 30 - IF- B.O.B. in 4 minutes  
45 - IS- No return  
30 - FF- B.O.B. in 9 minutes  
45 - FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1834.41	99.66	Initial Hydro-static
1	70.93	99.57	Open To Flow (1)
29	238.58	111.21	Shut-In(1)
76	859.87	109.03	End Shut-In(1)
76	242.50	108.64	Open To Flow (2)
106	330.40	111.21	Shut-In(2)
150	838.35	109.80	End Shut-In(2)
150	1772.52	110.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	OCMW, 20%M, 20%O, 60%W	1.37
310.00	GHOCM, 20%O, 30%G, 50%M	3.52
248.00	MCO, 40%O, 60%M	3.48
0.00	30' G.I.P.	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: Marc Downing

**10-10s-19w Rooks KS**  
**Harper #1-10**  
Job Ticket: 62710      **DST#: 4**  
Test Start: 2015.05.14 @ 08:06:00

**Tool Information**

Drill Pipe:	Length: 3285.00 ft	Diameter: 3.80 inches	Volume: 46.08 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer:	30000.00 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: 48.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3599.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.00 ft				
Tool Length:	79.00 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>
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Change Over Sub	1.00			3580.00	
Shut In Tool	5.00			3585.00	
Hydraulic tool	5.00			3590.00	
Packer	5.00			3595.00	20.00      Bottom Of Top Packer
Packer	4.00			3599.00	
Stubb	1.00			3600.00	
Anchor	4.00			3604.00	
Change Over Sub	1.00			3605.00	
Recorder	0.00	8648	Inside	3605.00	
Recorder	0.00	8940	Outside	3605.00	
Drill Pipe	31.00			3636.00	
Change Over Sub	1.00			3637.00	
Anchor	18.00			3655.00	
Bullnose	3.00			3658.00	59.00      Bottom Packers & Anchor

**Total Tool Length: 79.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**10-10s-19w Rooks KS**

PO Box 399  
Garden City KS 67846

**Harper #1-10**

Job Ticket: 62710

**DST#: 4**

ATTN: Marc Downing

Test Start: 2015.05.14 @ 08:06:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4250.00 ppm

Filter Cake: 2.50 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	OCMW, 20%M, 20%O, 60%W	1.366
310.00	GHOCM, 20%O, 30%G, 50%M	3.520
248.00	MCO, 40%O, 60%M	3.479
0.00	30' G.I.P.	0.000

Total Length: 744.00 ft

Total Volume: 8.365 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

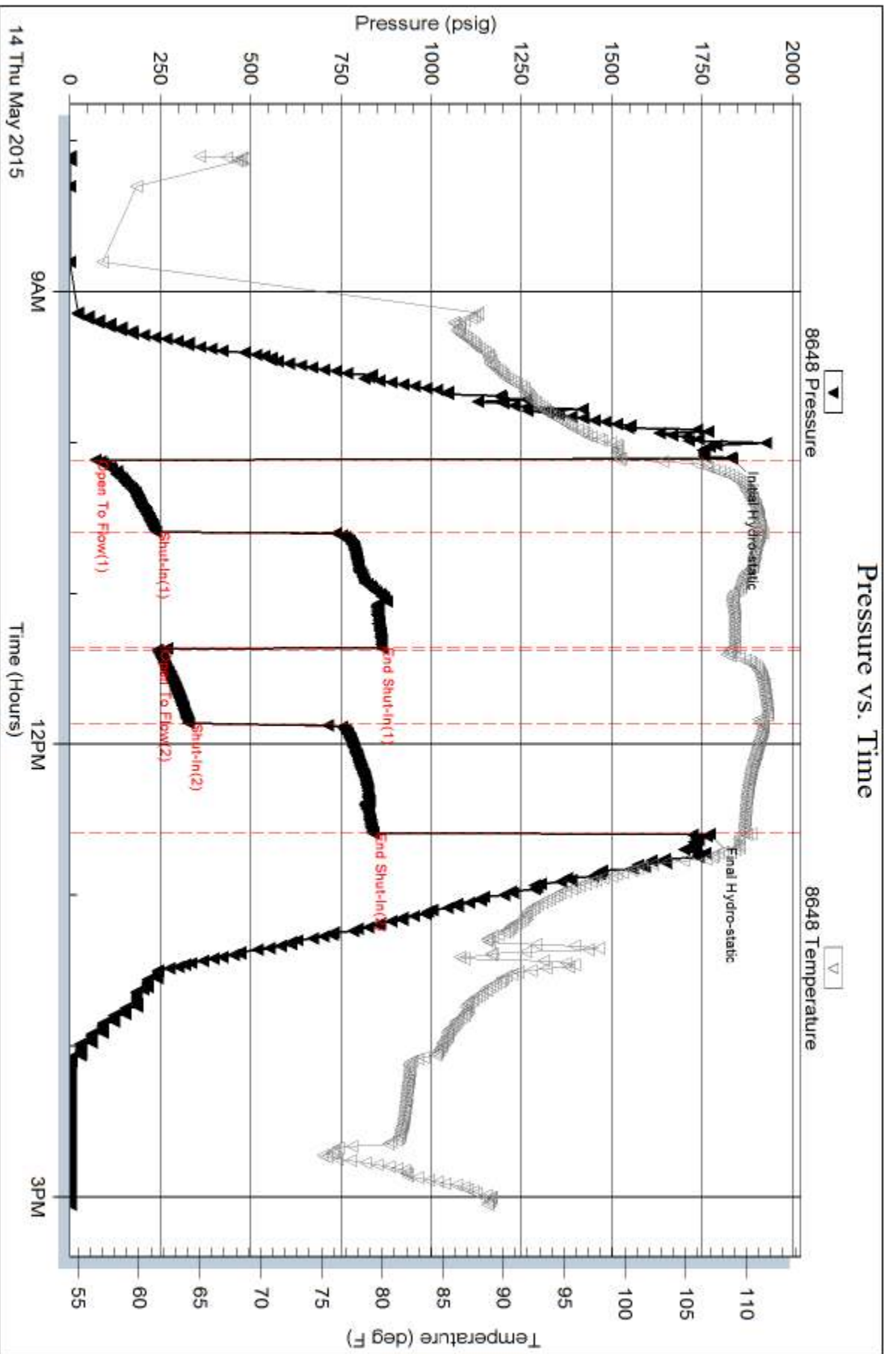
Serial #:

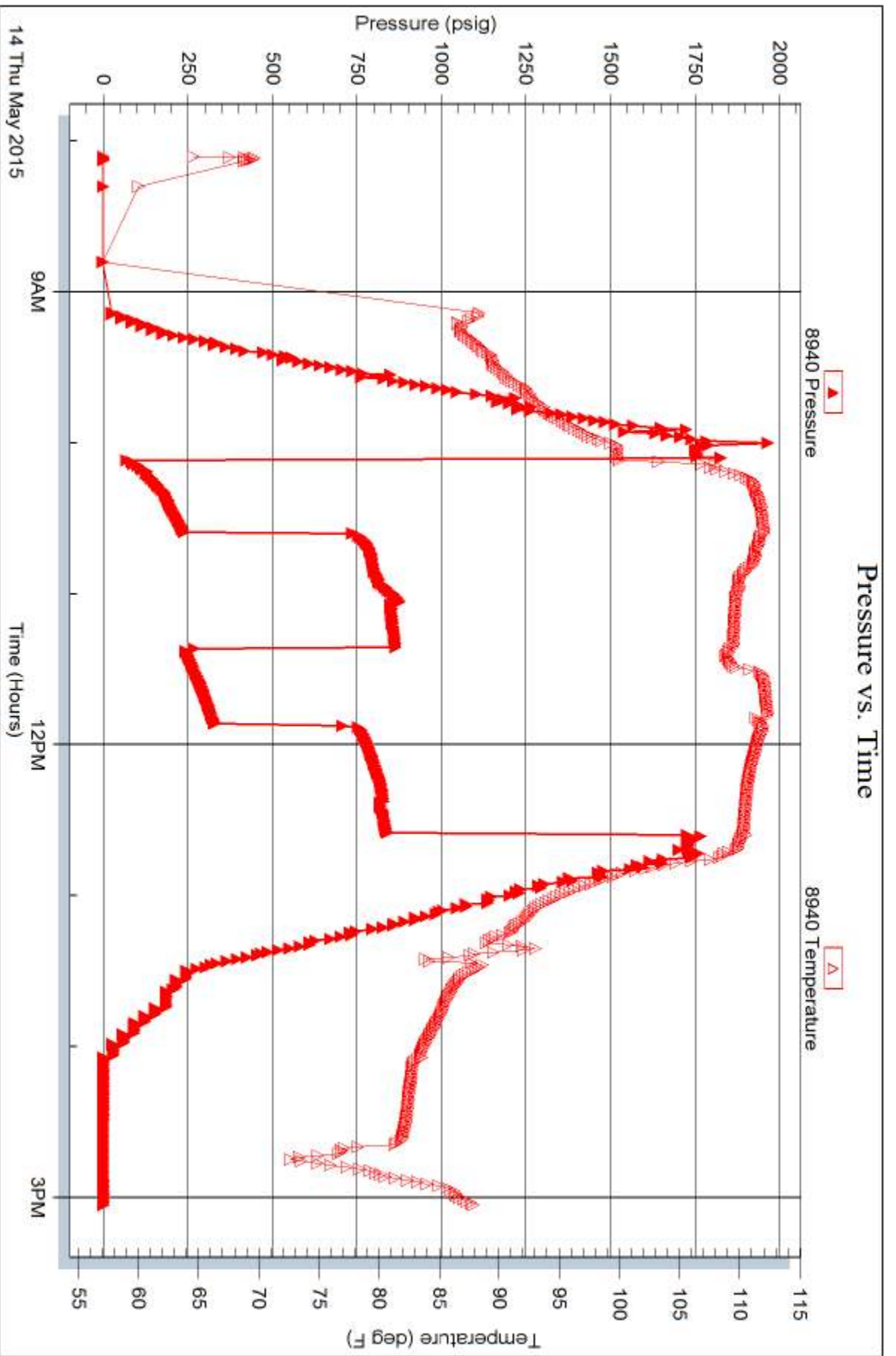
Laboratory Name:

Laboratory Location:

Recovery Comments:









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62707

Well Name & No. Harper 1-10 Test No. 1 Date 5-12-15  
 Company American Warrior Inc Elevation 2128 KB 2120 GL  
 Address Po Box 399, Garden City, KS, 67846  
 Co. Rep / Geo. Marc Downing Rig Discovery # 2  
 Location: Sec. 10 Twp. 10s Rge. 19w Co. Rooks State KS

Interval Tested 3365-3403 Zone Tested LKC "C-D"  
 Anchor Length 38' Drill Pipe Run 3066 Mud Wt. 8.7  
 Top Packer Depth 3360 Drill Collars Run ~~300~~ — Vis 50  
 Bottom Packer Depth 3365 Wt. Pipe Run 310 — WL 7.6  
 Total Depth 3403 Chlorides 4250 ppm System LCM 2 1/2  
 Blow Description IF-3" blow  
ISI - No return  
FF-3.5" blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud-oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

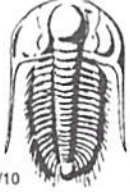
Rec Total 20' BHT 101° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1657</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0255</u>
(B) First Initial Flow <u>34</u>	<input type="checkbox"/> Jars	T-Started <u>0325</u>
(C) First Final Flow <u>40</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0606</u>
(D) Initial Shut-In <u>137</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0907</u>
(E) Second Initial Flow <u>41</u>	<input checked="" type="checkbox"/> Hourly Standby <u>320</u>	T-Out <u>1625</u>
(F) Second Final Flow <u>45</u>	<input checked="" type="checkbox"/> Mileage <u>64RT</u> 64	Comments <u>Turbo on rig went</u>
(G) Final Shut-In <u>124</u>	<input type="checkbox"/> Sampler	<u>out @ 9:10am - Fixed</u>
(H) Final Hydrostatic <u>1616</u>	<input type="checkbox"/> Straddle	<u>@ 1445</u>
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1434</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1434</u>	

Approved By \_\_\_\_\_ Our Representative Cody Bloedorn

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. 62708

Well Name & No. Harper 1-10 Test No. 2 Date 5-12-15  
 Company American Warrior Inc Elevation 2128 KB 2120 GL  
 Address Po Box 399, Garden City, KS, 67846  
 Co. Rep / Geo. Marc Downing Rig Discovery #2  
 Location: Sec. 10 Twp. 10S Rge. 19W Co. Rooks State KS

Interval Tested 3402-3430 Zone Tested LKC "E-F"  
 Anchor Length 28' Drill Pipe Run 3095' Mud Wt. 9  
 Top Packer Depth 3397 Drill Collars Run — Vis 58  
 Bottom Packer Depth 3402 Wt. Pipe Run 310' WL 8.8  
 Total Depth 3430 Chlorides 3 ppm System LCM 4500

Blow Description IF - B.O.B. in 20 minutes, die  
ISI - surface return, died in 12 minutes  
FF - ~~blow~~ ~~blow~~ 5" blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>WM</u>		<u>20</u>	<u>80</u>	
<u>186</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>62</u>	<u>MW</u>		<u>60</u>	<u>40</u>	

Rec Total 310 BHT 103° Gravity — API RW .28 @ 60 °F Chlorides 27,000 ppm

(A) Initial Hydrostatic 1666  Test 1050 T-On Location ~~1029~~ 2243  
 (B) First Initial Flow 22  Jars \_\_\_\_\_ T-Started 2308  
 (C) First Final Flow 128  Safety Joint \_\_\_\_\_ T-Open 1223  
 (D) Initial Shut-In 168  Circ Sub \_\_\_\_\_ T-Pulled 0323  
 (E) Second Initial Flow 135  Hourly Standby \_\_\_\_\_ T-Out 0505  
 (F) Second Final Flow 161  Mileage 64RT 64  
 (G) Final Shut-In 171  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1616  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1114  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1114

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62709

Well Name & No. Harper 1-10 Test No. 3 Date 5-13-15  
 Company American Warrior Inc Elevation 2128 KB 2/20 GL  
 Address Po Box 399, Garden City KS, 67846  
 Co. Rep / Geo. Marc Downing Rig Discovering #2  
 Location: Sec. 10 Twp. 10S Rge. 19W Co. Rooks State KS

Interval Tested 3459-3524 Zone Tested LKC "H-J"  
 Anchor Length 65' Drill Pipe Run 3159 Mud Wt. 9.1  
 Top Packer Depth 3454 Drill Collars Run — Vis 53  
 Bottom Packer Depth 3459 Wt. Pipe Run 310 WL 9.2  
 Total Depth 3524 Chlorides 4,000 ppm System LCM 1.5

Blow Description IF - 1/4" blow  
ISI - No return  
FF - No blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud - oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1731</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1408</u>
(B) First Initial Flow <u>36</u>	<input type="checkbox"/> Jars _____	T-Started <u>1418</u>
(C) First Final Flow <u>35</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1552</u>
(D) Initial Shut-In <u>293</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1752</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1923</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>64RT</u> <u>64</u>	Comments _____
(G) Final Shut-In <u>262</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1700</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>1114</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1114</u>	

Approved By \_\_\_\_\_ Our Representative Cody B...

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# TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

# Test Ticket

NO. 62710

Well Name & No. Harper 1-10 Test No. 4 Date 5-14-15  
 Company American Warrior Inc Elevation 2128 KB 2120 GL  
 Address Po Box 399, Garden City KS, 67846  
 Co. Rep / Geo. Marc Downing Rig Discovery #2  
 Location: Sec. 10 Twp. 10S Rge. 19W Co. ROOKS State KS

Interval Tested 3599-3658 Zone Tested Arbuckle  
 Anchor Length 59 Drill Pipe Run 3285 Mud Wt. 9.1  
 Top Packer Depth 3594 Drill Collars Run — Vis 53  
 Bottom Packer Depth 3579 Wt. Pipe Run 2310' WL 9.2  
 Total Depth 3658 Chlorides 4,000 ppm System LCM 1.5

Blow Description IF - @ B.O.B. in 4 minutes  
ISI - No return  
FF - B.O.B. in 9 minutes  
FSF - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>OCMW</u>	<u>20</u>	<u>60</u>	<u>20</u>	
<u>310</u>	<u>GHO CM</u>	<u>30</u>	<u>20</u>	<u>50</u>	
<u>248</u>	<u>MCO</u>	<u>40</u>		<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 744' BHT 109 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1834</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0800</u>
(B) First Initial Flow <u>70</u>	<input type="checkbox"/> Jars	T-Started <u>0806</u>
(C) First Final Flow <u>283</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1007</u>
(D) Initial Shut-In <u>859</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1237</u>
(E) Second Initial Flow <u>242</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1503</u>
(F) Second Final Flow <u>330</u>	<input checked="" type="checkbox"/> Mileage <u>64 RT</u> 64	Comments
(G) Final Shut-In <u>838</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1772</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>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1114</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1114</u>	

Approved By \_\_\_\_\_ Our Representative Cody Black

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Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator American Warrior, Inc.		Elevation	
Lease Harper No. 1-10		KB	2137
API # 15-163-24292-0000		DF	2135
Field Wildcat		GL	2129
Location 1882' FSL & 335' FEL		Casing Record	
Sec. 10 Twp. 10s Rge. 19s		Surface 8 5/8" @ 214'	
County Rooks State Kansas		Production 5 1/2" @ 3747'	
Formation Sample tops Log Tops Datum Struct Comp		Electrical Surveys	
Top Anhydrite NA 1485 +652 -1		CNL/CDL, DIL, MEL	
Base Anhydrite NA 1515 +622 NA			
Topeka 3090 3088 -951 +8			
Heebner 3303 3300 -1163 NA			
Toronto 3326 3323 -1186 NA			
LKC 3343 3340 -1203 NA			
BKC 3568 3365 -1228 NA			
Arbuckle 3650 3648 -1511 +34			
Total Depth 3748 3747 -1610			
Reference Well For Structural Comparison Tom Allan Mitchell #1 C N2 NE SE		Sec. 10-10s-19w	

Drilling Contractor	Discovery Drilling, Rig #2
Commenced	5-8-15
Completed	5-15-15
Samples Saved From	3100 To RTD
Drilling Time Kept From	3000 To RTD
Samples Examined From	3100 To RTD
Geological Supervision From	3000 To RTD

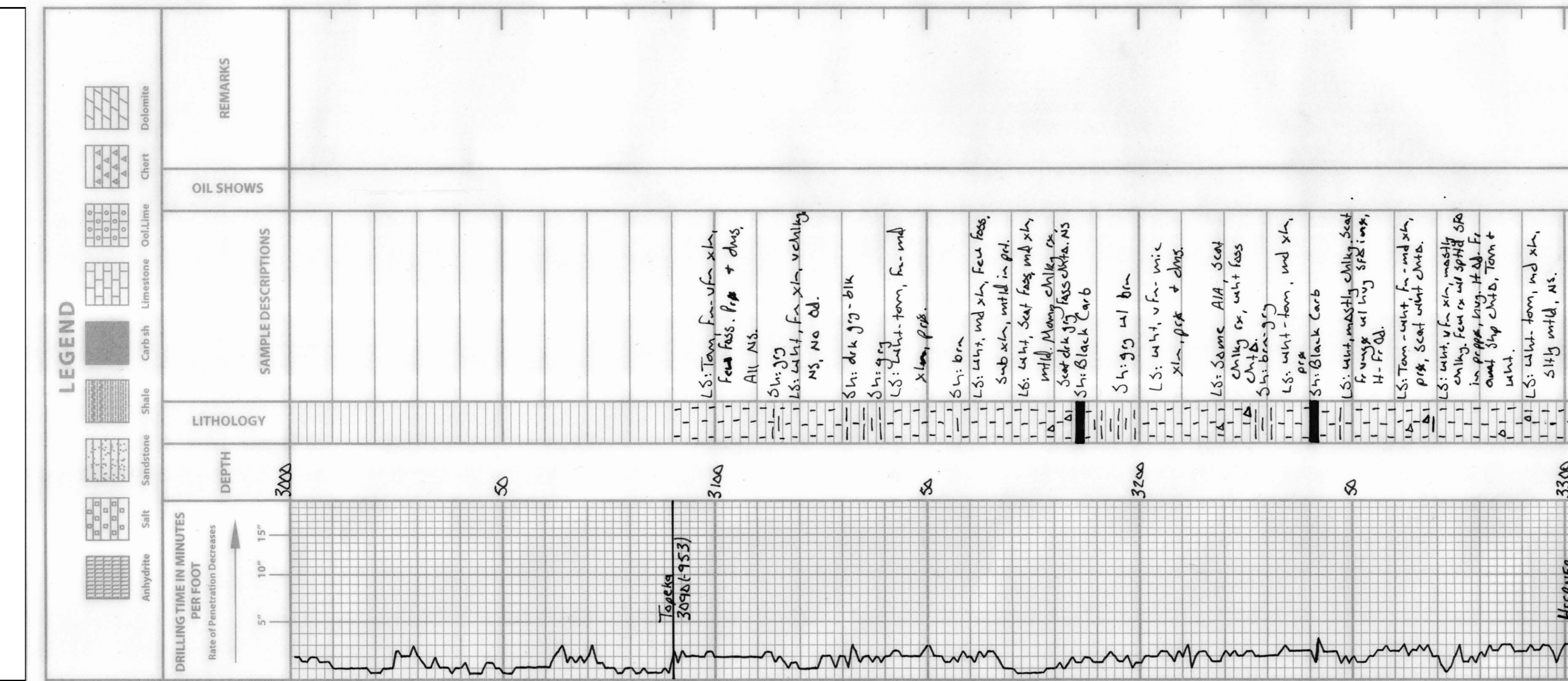
**Summary and Recommendations**

Due to structural position, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion in the Arbuckle.

Perforate: 3676-3679 (First, Squeeze if wet)  
3654-3658 (DST #1)

Respectfully Submitted,

Marc A. Downing



REMARKS	Vis: 50 Wt: 6.7 DST #1 3343-3403 45-48-48-45 I.F.-3" F.F.-3.5" I.F.P.-34-40 F.P.-41-45 S.I.P.-137-124 H.P.-1457-1464 Rec: 20' m ul oil spds. BHT: 101'
OIL SHOWS	DST #2 3402-3430 45-48-48-45 I.F.-608 20 min F.F.-5" I.F.P.-22-128 F.P.-135-141 S.I.P.-148-171 H.P.-1484-1484 Rec: 312' m ul 70% w BHT: 103'
SAMPLE DESCRIPTIONS	DST #3 3459-3524 30-30-30-30 I.F.-1/4" F.F.-Dead I.F.P.-36-38 F.P.-39-34 S.I.P.-243-242 H.P.-1731-1700 Rec: 5' m ul oil spds. BHT: 99'
LITHOLOGY	Vis: 53 Wt: 7.1 DST #4 3599-3658 30-45-30-45 I.F.-608 4 min F.F.-608 9 min I.F.P.-70-283 F.P.-242-330 S.I.P.-859-838 H.P.-1884-1772 Rec: 30' GIP 4610 310 GIP 3619, 2810 184' OCM 2820, 4010 BHT: 109'

Marc A. Downing