

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. 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
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	GANO 6-17
Doc ID	1359555

Tops

Name	Top	Datum
Heebner	3630	-588
Lansing	3675	-633
B/KC	4188	-1146
Marm	4209	-1167
Pawnee	4310	-1268
Ft. Scott	4343	-1301
Cherokee	4354	-1312
Morrow	4653	-1611
Miss	4793	-1751

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	GANO 6-17
Doc ID	1359555

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3918-3936		



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

TICKET 30583

PAGE 1 OF 1

SERVICE LOCATIONS 1. Ness City KS WELL/PROJECT NO. #6-17 LEASE Gano COUNTY/PARISH Keurny STATE KS CITY Lakin DATE 6-7-17 OWNER Same

2. TICKET TYPE SERVICE SALES CONTRACTOR Dube Drilling RIG NAME/NO. #7 SHIPPED VIA CT DELIVERED TO Location ORDER NO.

3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement 13 3/8" Conductor Pipe WELL PERMIT NO. WELL LOCATION Lakin - 3s, 2w, 1s, 1w, 5inb

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE		100	mi	5.00	500.00
576 S		1			Pump Change - Shallow Surface		1	13 3/8 in	800.00	800.00
325		1			Standard Cement		220	skts	12.25	2695.00
278		1			Calcium Chloride		10	skts	40.00	400.00
279		1			Bentonite Gel		4	skts	25.00	100.00
290		1			D-Air		2	gal	42.00	84.00
581		1			Service Charge Cement		220	skts	1.50	330.00
583		1			Drayage		21580	lbs	0.075	809.25

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 Charles D. Roub
 DATE SIGNED 6-7-17 TIME SIGNED 2:30 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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5718.25
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

TAX 6.5% 213.14
 TOTAL 5931.39

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

SWIFT OPERATOR David Huehn APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6-7-17 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
American Warrior		#6-17		Guno		Conductor Pipe		#30583	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	2145								on location 13 3/8" 48"
									RTD-218 TP-216
									Rig pulling Pipe
	2225								Start 13 3/8" 48" conductor Pipe in well
6-8-17	0010								Break Circulation
	0030	4 1/2	5		✓		100		Pump 5 bbl water Spacer
	0035	4 1/2	53		✓		100		mix 220 slts 2% Gcl 3% CC @ 14.7 fpg
	0050	4 1/2	330		✓		100		Displace Cement
		4 1/2	47		✓		200		circulate cement to Surface * 25 slts*
	0100	∅	31.5		✓		200		Kick out Pump * Shut in *
									Wash up truck
	0130								Job Complete

Thank You
Dave Preston Kirby



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

TICKET 30388

PAGE 1 OF 2

1. SERVICE LOCATIONS Ness City KS WELL/PROJECT NO. 6-17 LEASE GANO COUNTY/PARISH Kearney STATE KS CITY Lakin DATE 10 Jun 17 OWNER:
 2. TICKET TYPE SERVICE CONTRACTOR DUKE RIG NAME/NO. 7 SHIPPED VIA CT DELIVERED TO location ORDER NO.:
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement deep surface WELL PERMIT NO.: WELL LOCATION 17-25-36
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M				
<u>575</u>		<u>1</u>			<u>MILEAGE TRK 114</u>	<u>100</u>	<u>mi</u>			<u>5.00</u>	<u>500.00</u>
<u>576D</u>		<u>1</u>			<u>Pump charge</u>		<u>hea</u>			<u>12.50</u>	<u>1250.00</u>
<u>400</u>		<u>1</u>			<u>Guide shoe</u>	<u>8</u>	<u>in</u>	<u>1 ea</u>		<u>350</u>	<u>3500.00</u>
<u>401</u>		<u>1</u>			<u>insert float</u>	<u>8</u>	<u>in</u>	<u>1 ea</u>		<u>200</u>	<u>200.00</u>
<u>409</u>		<u>1</u>			<u>Turbolizer</u>	<u>8</u>	<u>in</u>	<u>3 ea</u>		<u>95</u>	<u>285.00</u>
<u>410</u>		<u>1</u>			<u>Top plug</u>	<u>8</u>	<u>in</u>	<u>1 ea</u>		<u>120</u>	<u>120.00</u>
<u>194</u>		<u>1</u>			<u>Plug container rental</u>			<u>1 ea</u>	<u>8</u>	<u>200</u>	<u>200.00</u>
											<u>2905.00</u>
											<u>2855.00</u>

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

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

X

DATE SIGNED: TIME SIGNED: 2:50 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
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		
WE UNDERSTOOD AND MET YOUR NEEDS?		
OUR SERVICE WAS PERFORMED WITHOUT DELAY?		
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?		
ARE YOU SATISFIED WITH OUR SERVICE?		
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

PAGE TOTAL	<u>16155.89</u>
TAX	<u>955.42</u>
TOTAL	<u>20016.31</u>



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

TICKET CONTINUATION

TICKET No. 30388

CUSTOMER American Warrior
WELL GRAND 6-17
DATE 10 Jun 17 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		
330		1				SMD cement	700	sk			15.75	11025.00
281		1				mud flush	500	gal			1.25	625.00
221		1				KCL liquid	2	gal			25.00	50.00
276		1				Floccle	175	lb			2.25	393.75
580		1				Additional hours	2	hr			200.00	400.00
581		1				SERVICE CHARGE	700	sk			1.50	1050.00
583		1				MILEAGE CHARGE	TOTAL WEIGHT 69657		LOADED MILES 160		0.75	2612.14
							TON MILES 3482.85					

CONTINUATION TOTAL 16155.89

JOB LOG

SWIFT Services, Inc.

DATE 10 Jun 17 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 6-17 LEASE Gano JOB TYPE cement deep surface
TICKET NO. 30388

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								700 sk SMD cement w/ #4 flocc 8 5/8" x 23" casing 43 jts TD = 1835 Total pipe 1832' shoe jt 42.27' Centralizer #1, 14, 30
	1500							on loc TR & 114
	1830							start 8 5/8" x 23" casing in well
	2107							Drop ball - circulate
	2137	4	12				100	Pump 500 gal mud flush
		4	20				100	Pump 20 bbl RCL flush
	2143	5 1/2	92				150	mix SMD cement 200sk @ 11.8ppg
		5 1/2	130				150	mix SMD cement 350sk @ 12.5ppg
		5 1/2	31				150	mix SMD cement 100sk @ 13.5ppg
		7 1/2	25				200	mix SMD cement 100sk @ 14.5ppg
			281					700sk total mixed
	2250	6					200	Drop plug Displace plug
								→ cement to surface ←
	2330	5 1/2	110				600	Land plug {600sk to P. 4}
		4	115				1000	
								shot in 8 5/8" Release pressure to truck
	2335							wash truck
								Rack up
	2350							job complete
								Thanks
								Flint, Blaine, Isaac & Russ



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

TICKET 30393

PAGE 1 OF 2

SERVICE LOCATIONS 1. Wad Gt. KS WELL/PROJECT NO. 6-17 LEASE SAND COUNTY/PARISH Kearney STATE KS CITY Lakin DATE 21 Jun 17 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR DUNE RIG NAME/NO. 7 SHIPPED CT DELIVERED TO location ORDER NO.
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement long string WELL PERMIT NO. WELL LOCATION 17-25-36
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	100		mi		5.00	500.00
578		1			Pump Charge			lea		1250.00	1250.00
403		1			Star Cement Basket	5 1/2		in	2	250.00	500.00
406		1			Latch Down plug & baffle	5 1/2		in	1	225.00	225.00
407		1			inset float shoe w/ AUTO FILL	5 1/2		in	1	300.00	300.00
409		1			Turbolizer	5 1/2		in	10	75.00	750.00

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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 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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				3525.00
WE UNDERSTOOD AND MET YOUR NEEDS?				6710.88
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				10235.88
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				463.39
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				10999.27



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

TICKET CONTINUATION

TICKET No. 30393

CUSTOMER American Warrior WELL Gano 6-17 DATE 21 Jun 17 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	250	sk			12.25	3062.50
283		1				salt	10	%	1100	lb	0.20	220.00
285		1				CFR-1	1/2	%	100	lb	4.50	450.00
286		1				halad-1	1/2	%	100	lb	8.00	800.00
276		1				flocel	1/4	#	50	lb	2.25	112.50
281		1				med flush	500	gal			1.25	625.00
221		1				RCL liquid	2	gal			25.00	50.00
290		1				D-AIR	2	gal			42.00	84.00
581		1				SERVICE CHARGE					1.50	375.00
583		1				MILEAGE CHARGE					0.75	931.88

SERVICE CHARGE 2.50 CUBIC FEET
MILEAGE CHARGE 248.50 TON MILES 1242.5
TOTAL WEIGHT 100

CONTINUATION TOTAL 6710.88

JOB LOG

SWIFT Services, Inc.

DATE 21 Jan 17 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 6-17 LEASE GAND JOB TYPE cement long string TICKET NO. 30393

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								250 sk standard cement - 10% salt - 1/4" flocculant 120 jts 5 1/2" x 17" casing TD = 5050 total pipe 5049' shoe jt 29-27 Centralizers 1,3,5,7,9,11,13,15,20,25 Baskets #2,14
	0300							on loc TRR 114
	0515							start 5 1/2" x 17" casing in well
	0830							Drop ball - circulate
	0920		32					Pump 500 gal m.w. flush - 20 bbl Koff flush Plug RT - all H 30 sk - 20 sk Pump
	0939	4 1/2	51			200		Mix STD cement 200 sk @ 15.6 ppq
								Drop latch down plug wash out Pump & Line
	1002	6				200		Displace plug
		6	98			800		
	1030	6	117			1600		Land plug
								Release pressure to truck - dried up
	1033							wash truck
								Rack up
	1105							job complete
								Thanks
								Blaine, Flint & squish



DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Gano #6-17

17-25s-36w Kearny,KS

Start Date: 2017.06.14 @ 06:50:00

End Date: 2017.06.14 @ 13:49:35

Job Ticket #: 59464 DST #: 1

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

Printed: 2017.06.22 @ 14:12:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59464

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.06.14 @ 06:50:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:46:25

Time Test Ended: 13:49:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 3636.00 ft (KB) To 3660.00 ft (KB) (TVD)

Reference Elevations: 3040.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 473.41 psig @ 3657.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.14

End Date:

2017.06.14

Last Calib.: 2017.06.14

Start Time: 06:50:02

End Time:

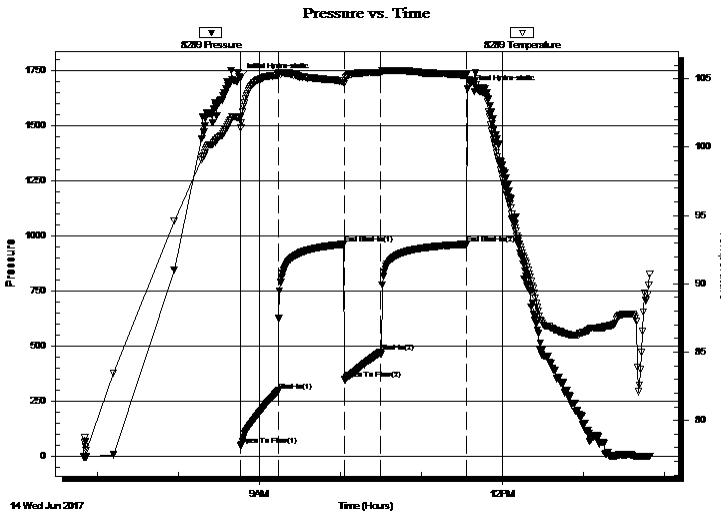
13:49:34

Time On Btm: 2017.06.14 @ 08:46:10

Time Off Btm: 2017.06.14 @ 11:33:54

TEST COMMENT: IF: BOB 1 1/2 min, strong steady blow
IS: No blow back
FF: BOB 5 min., strong steady blow
FS: No blow back

PRESSURE SUMMARY



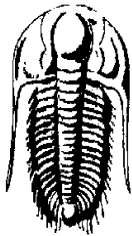
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.56	102.19	Initial Hydro-static
1	49.87	101.44	Open To Flow (1)
28	297.18	105.27	Shut-In(1)
77	961.14	104.83	End Shut-In(1)
77	348.28	104.65	Open To Flow (2)
104	473.41	105.47	Shut-In(2)
168	960.95	105.27	End Shut-In(2)
168	1664.15	105.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
930.00	gassy water 2%G,98%W	11.38

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

17-25s-36w Kearny,KS

Gano #6-17

Job Ticket: 59464 **DST#: 1**

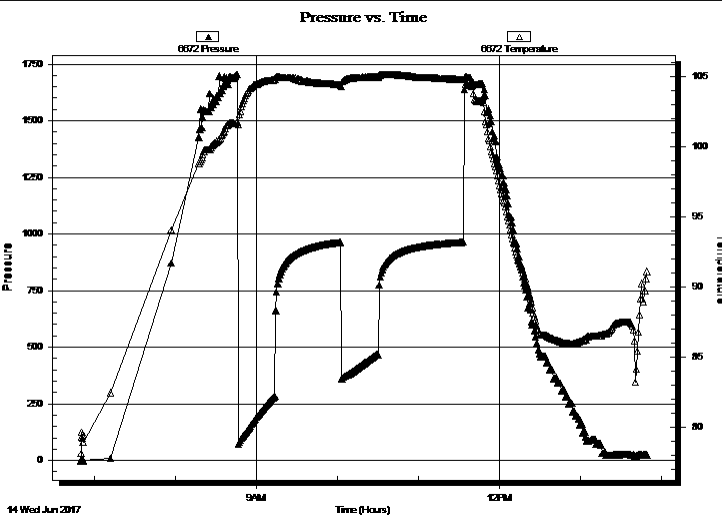
Test Start: 2017.06.14 @ 06:50:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:46:25
 Tester: Chris Hagman
 Time Test Ended: 13:49:35
 Unit No: 75
 Interval: **3636.00 ft (KB) To 3660.00 ft (KB) (TVD)**
 Reference Elevations: 3040.00 ft (KB)
 Total Depth: 3660.00 ft (KB) (TVD) 3029.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 6672 Outside
 Press@RunDepth: psig @ 3657.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.14 End Date: 2017.06.14 Last Calib.: 1899.12.30
 Start Time: 06:50:02 End Time: 13:49:04 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB 1 1/2 min, strong steady blow
 IS: No blow back
 FF: BOB 5 min., strong steady blow
 FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
930.00	gassy water 2%G,98%W	11.38

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59464

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.06.14 @ 06:50:00

Tool Information

Drill Pipe:	Length: 3440.00 ft	Diameter: 3.80 inches	Volume: 48.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 49.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3636.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 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			3609.00	
Shut In Tool	5.00			3614.00	
Hydraulic tool	5.00			3619.00	
Jars	5.00			3624.00	
Safety Joint	3.00			3627.00	
Packer	5.00			3632.00	28.00 Bottom Of Top Packer
Packer	4.00			3636.00	
Stubb	1.00			3637.00	
Perforations	1.00			3638.00	
Perforations	19.00			3657.00	
Recorder	0.00	8289	Inside	3657.00	
Recorder	0.00	6672	Outside	3657.00	
Bullnose	3.00			3660.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59464

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.06.14 @ 06:50:00

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:

50000 ppm

Viscosity: 30.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
930.00	gassy w ater 2%G,98%W	11.378

Total Length: 930.00 ft Total Volume: 11.378 bbl

Num Fluid Samples: 0

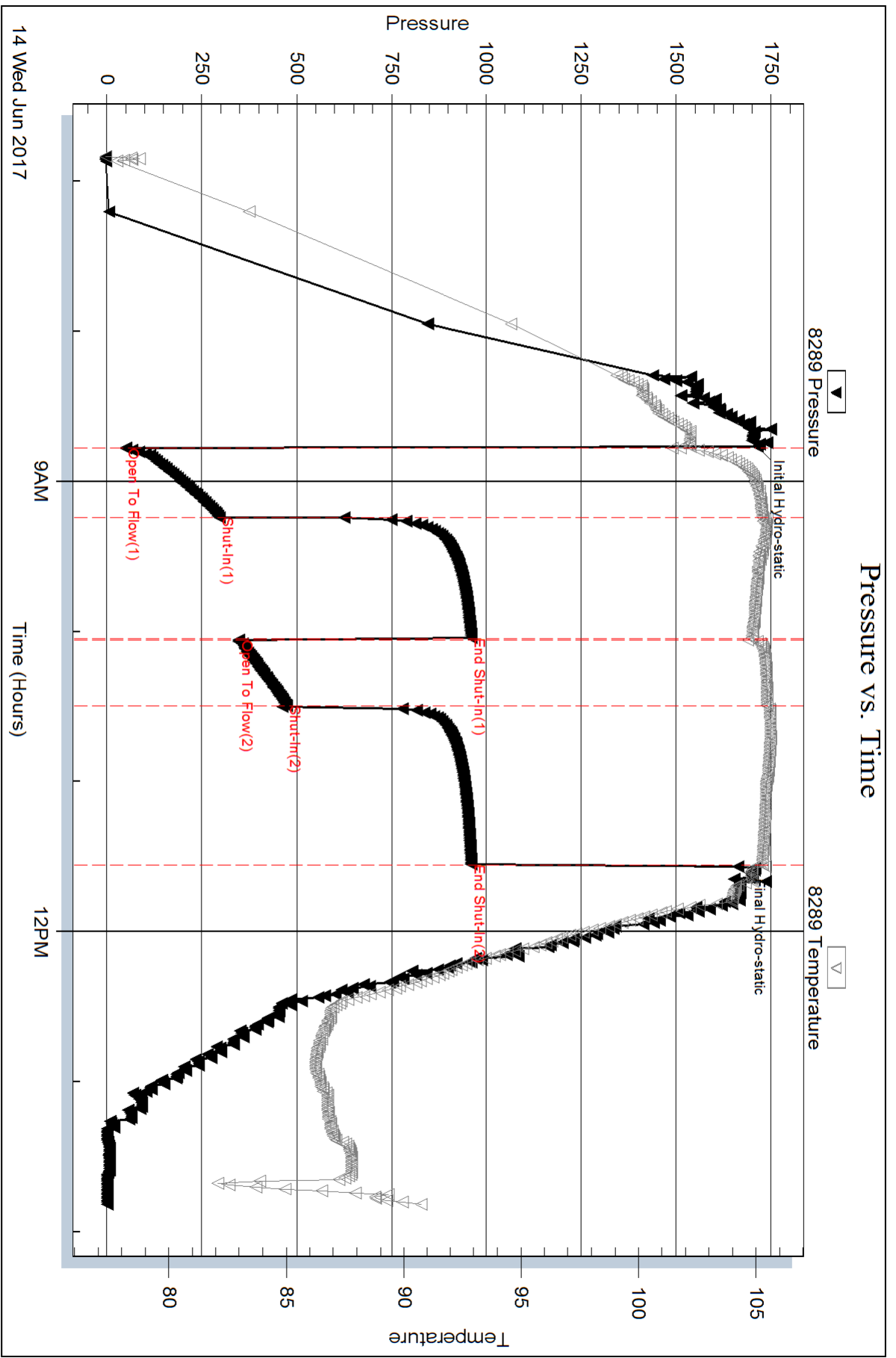
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.124@86F=50000ppm







DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Gano #6-17

17-25s-36w Kearny,KS

Start Date: 2017.06.15 @ 07:03:00

End Date: 2017.06.15 @ 13:44:09

Job Ticket #: 59465 DST #: 2

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

Printed: 2017.06.22 @ 14:12:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59465

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.06.15 @ 07:03:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:30:40

Time Test Ended: 13:44:09

Test Type: Conventional Straddle (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 3782.00 ft (KB) To 3812.00 ft (KB) (TVD)

Reference Elevations: 3040.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 96.43 psig @ 3784.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.15

End Date:

2017.06.15

Last Calib.:

2017.06.15

Start Time: 07:03:02

End Time:

13:44:10

Time On Btm:

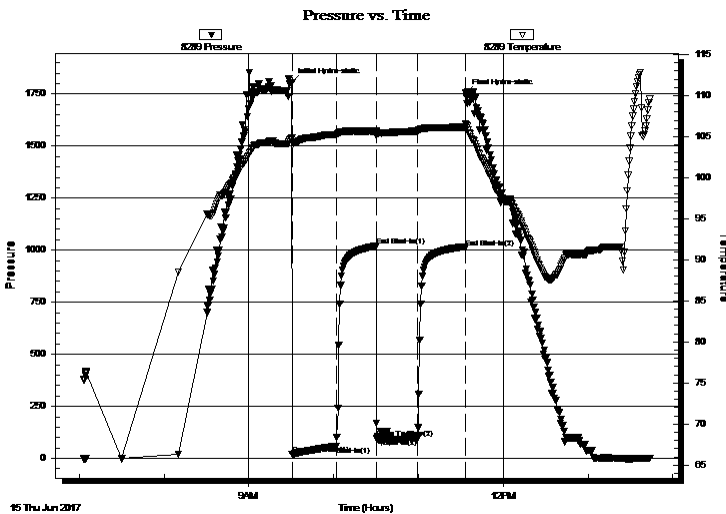
2017.06.15 @ 09:30:20

Time Off Btm:

2017.06.15 @ 11:33:09

TEST COMMENT: IF: 1 1/2" in 30 min., weak building blow
IS: No blow back
FF: 1/2" in 30 min., weak surface blow
FS: No blow back

PRESSURE SUMMARY



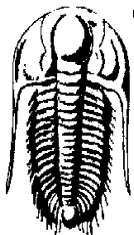
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.50	104.81	Initial Hydro-static
1	18.29	103.89	Open To Flow (1)
32	59.26	105.25	Shut-In(1)
60	1019.28	105.69	End Shut-In(1)
61	96.47	105.34	Open To Flow (2)
89	96.43	105.68	Shut-In(2)
123	1012.29	106.16	End Shut-In(2)
123	1753.89	106.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
188.00	GWMCO 5%G,20%W,30%M,45%O	0.97

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59465

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.06.15 @ 07:03:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:30:40

Time Test Ended: 13:44:09

Test Type: Conventional Straddle (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: **3782.00 ft (KB) To 3812.00 ft (KB) (TVD)**

Total Depth: 3830.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3040.00 ft (KB)

3029.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6663 Below (Straddle)

Press@RunDepth: psig @ 3827.00 ft (KB)

Start Date: 2017.06.15

End Date:

2017.06.15

Start Time: 07:03:02

End Time:

13:43:45

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

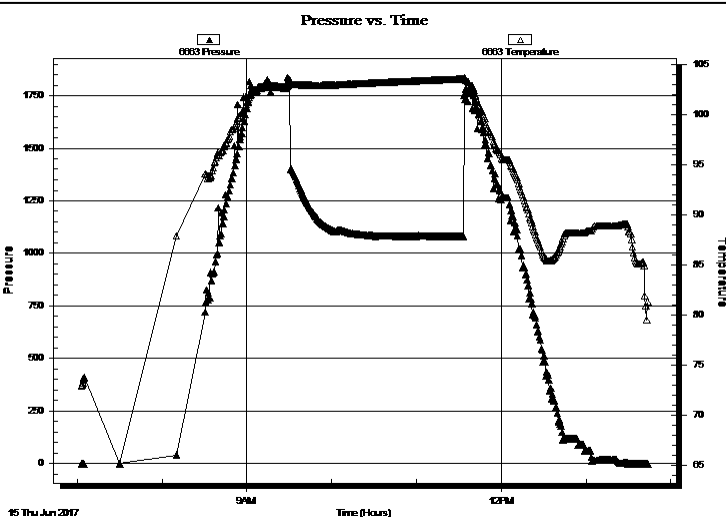
Time Off Btm:

TEST COMMENT: IF: 1 1/2" in 30 min., weak building blow

IS: No blow back

FF: 1/2" in 30 min., weak surface blow

FS: No blow back



PRESSURE SUMMARY

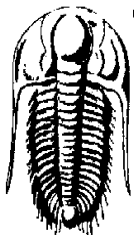
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
188.00	GWMCO 5%G,20%W,30%M,45%O	0.97

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.
PO Box 399
Garden City, KS 67846
ATTN: Luke Thompson

17-25s-36w Kearny,KS

Gano #6-17

Job Ticket: 59465 **DST#: 2**

Test Start: 2017.06.15 @ 07:03:00

GENERAL INFORMATION:

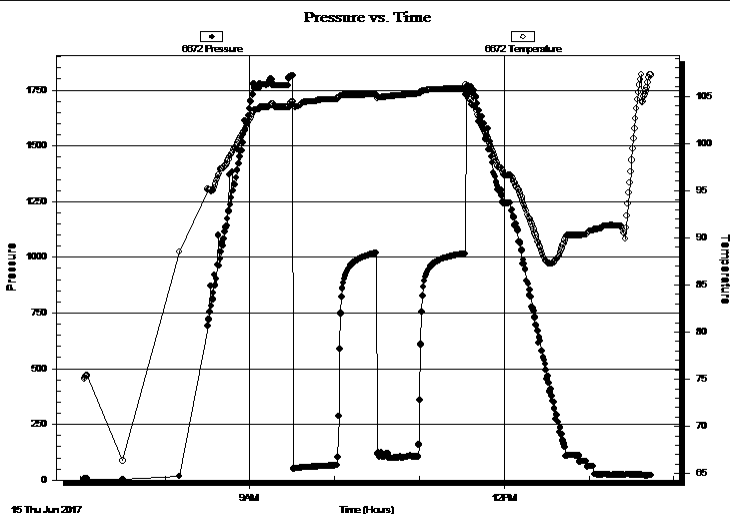
Formation: **LKC D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:30:40
 Time Test Ended: 13:44:09
 Interval: **3782.00 ft (KB) To 3812.00 ft (KB) (TVD)**
 Total Depth: 3830.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 Test Type: Conventional Straddle (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 3040.00 ft (KB)
 3029.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6672

Outside

Press@RunDepth: psig @ 3784.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.15 End Date: 2017.06.15 Last Calib.: 1899.12.30
 Start Time: 07:03:02 End Time: 13:44:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1 1/2" in 30 min., weak building blow
 IS: No blow back
 FF: 1/2" in 30 min., weak surface blow
 FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
188.00	GWMCO 5%G,20%W,30%M,45%O	0.97

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59465

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.06.15 @ 07:03:00

Tool Information

Drill Pipe:	Length: 3576.00 ft	Diameter: 3.80 inches	Volume: 50.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3782.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	3830.00 ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3755.00	
Shut In Tool	5.00			3760.00	
Hydraulic tool	5.00			3765.00	
Jars	5.00			3770.00	
Safety Joint	3.00			3773.00	
Packer	5.00			3778.00	28.00 Bottom Of Top Packer
Packer	4.00			3782.00	
Stubb	1.00			3783.00	
Perforations	1.00			3784.00	
Recorder	0.00	8289	Inside	3784.00	
Recorder	0.00	6672	Outside	3784.00	
Perforations	23.00			3807.00	
Blank Off Sub	1.00			3808.00	
Packer - Shale	4.00			3812.00	
Stubb	1.00			3813.00	
Perforations	14.00			3827.00	
Recorder	0.00	6663	Below	3827.00	
Bullnose	3.00			3830.00	48.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59465

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.06.15 @ 07:03:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1350.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
188.00	GWMCO 5%G,20%W,30%M,45%O	0.970

Total Length: 188.00 ft Total Volume: 0.970 bbl

Num Fluid Samples: 0

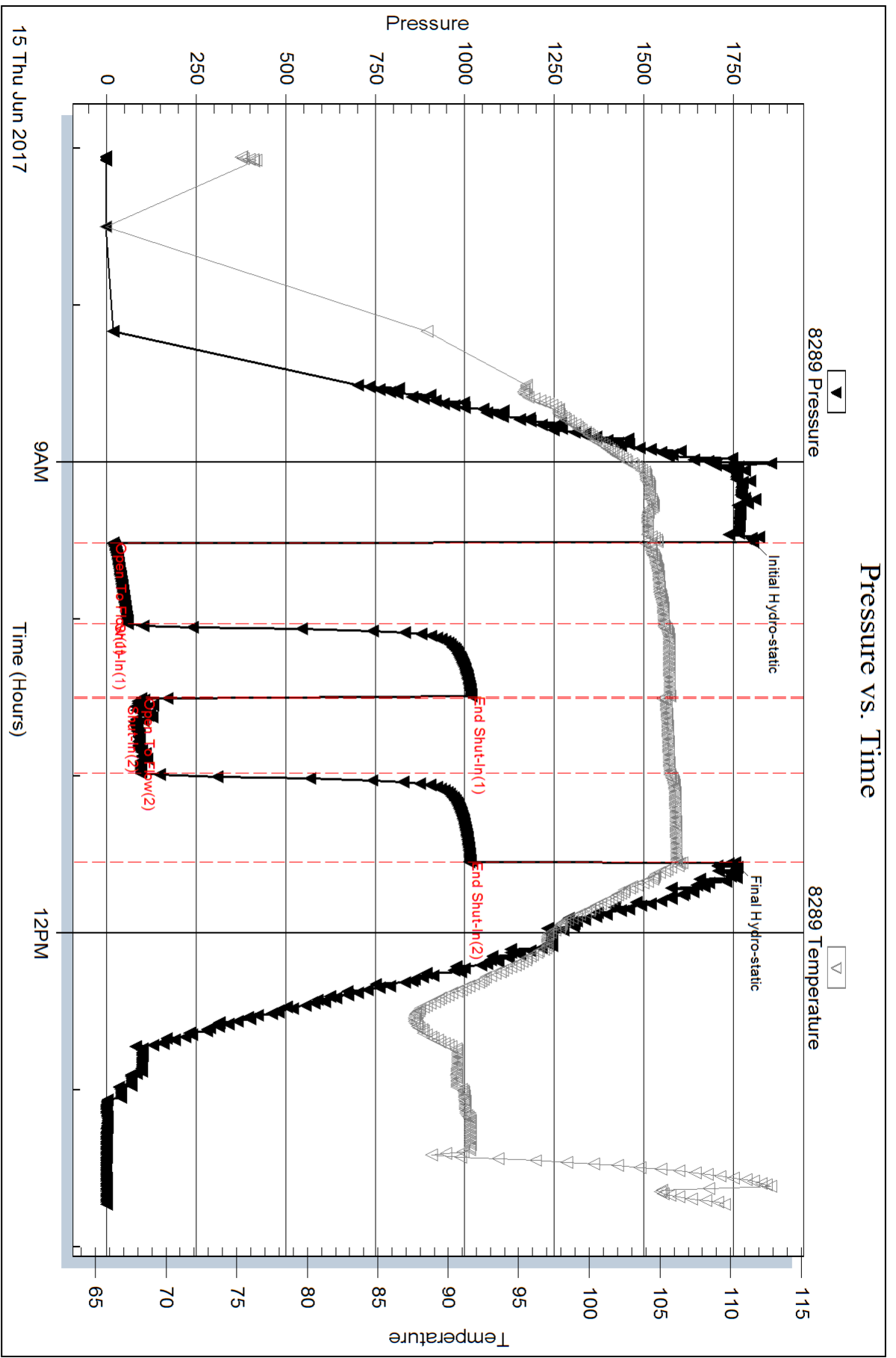
Num Gas Bombs: 0

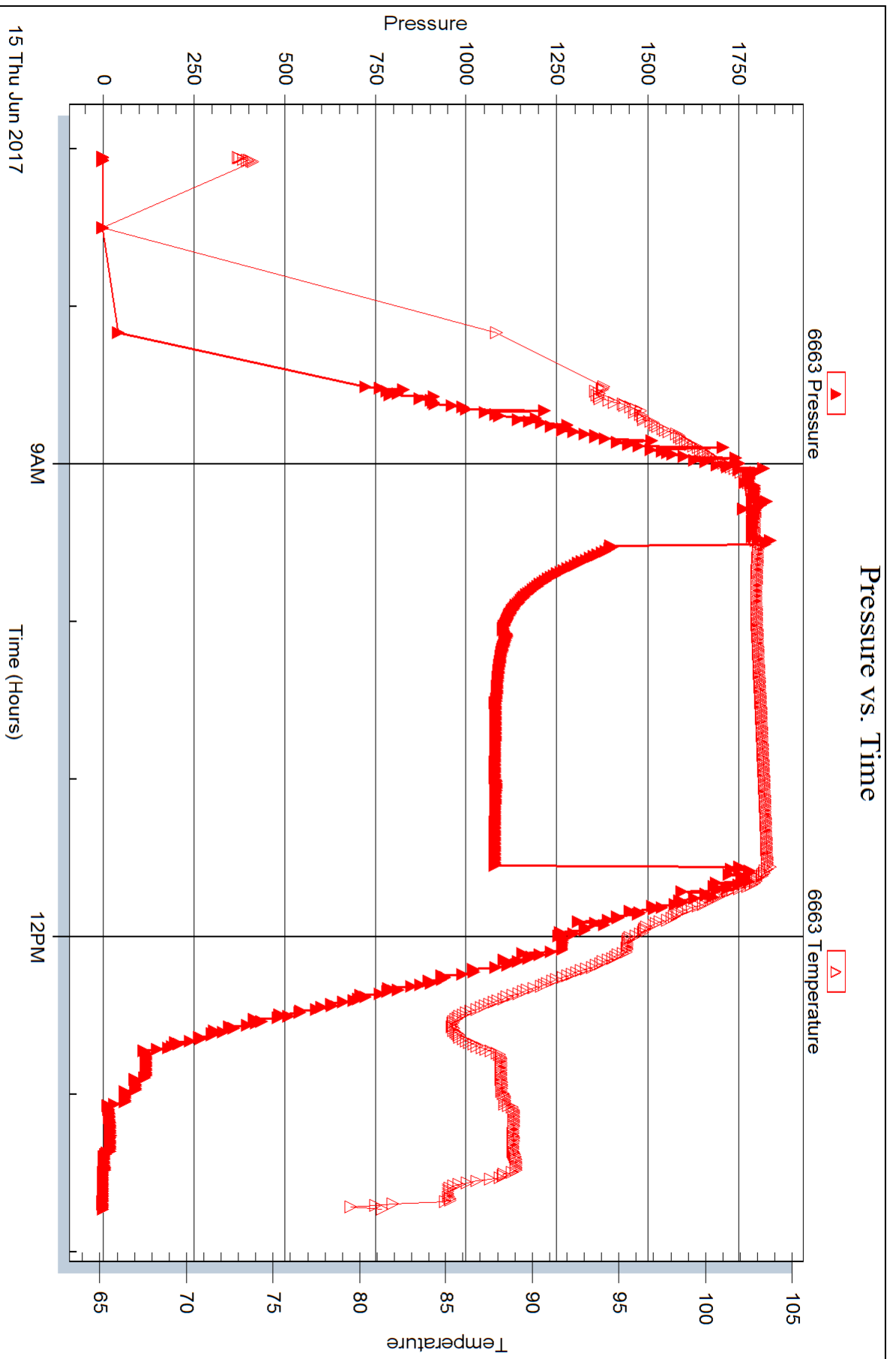
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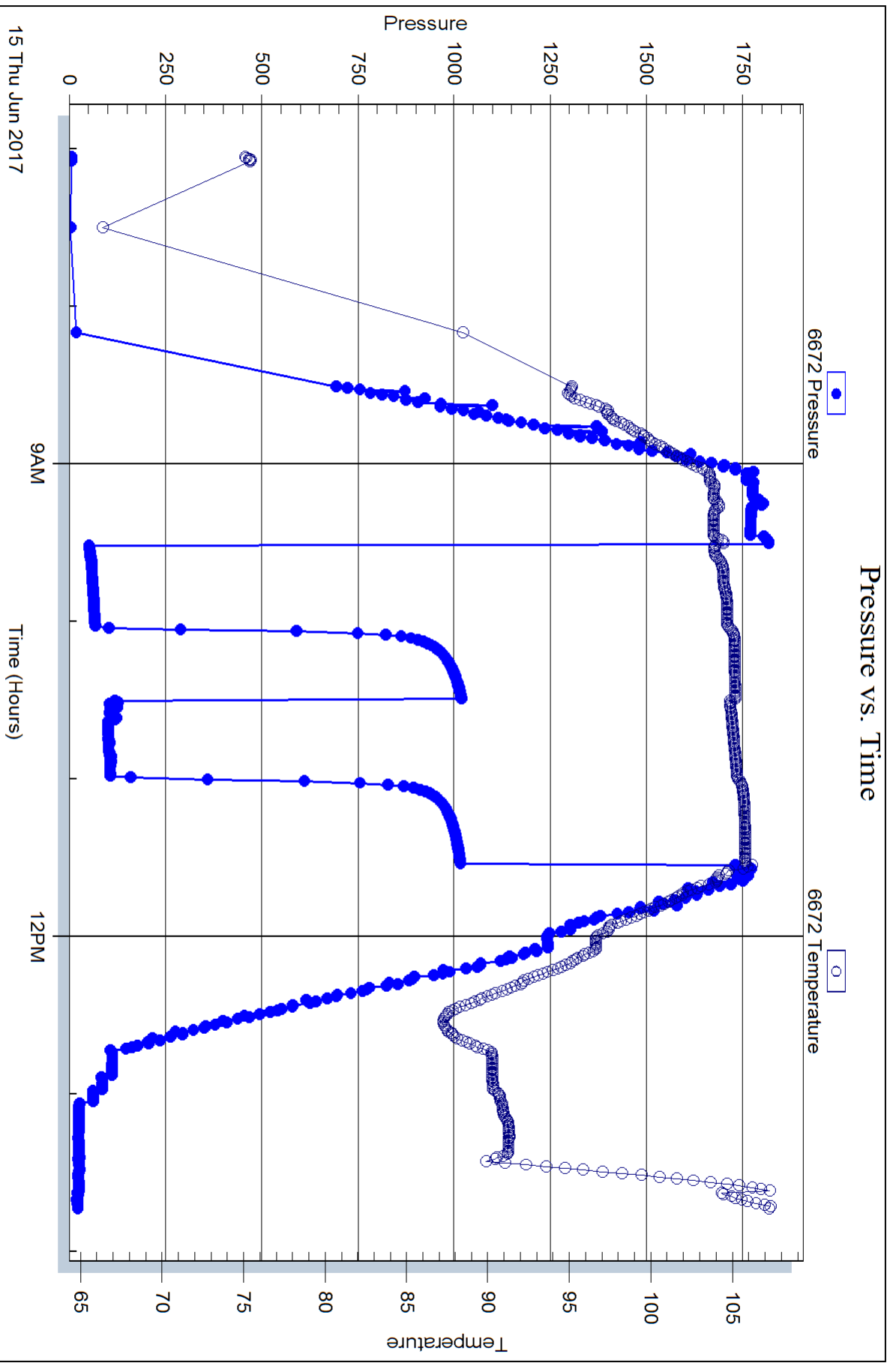
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.213@95F=24,000ppm









DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Gano #6-17

17-25s-36w Kearny,KS

Start Date: 2017.06.16 @ 18:12:00

End Date: 2017.06.17 @ 01:48:09

Job Ticket #: 59466 DST #: 3

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

Printed: 2017.06.22 @ 14:11:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59466

DST#: 3

ATTN: Luke Thompson

Test Start: 2017.06.16 @ 18:12:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:35:50

Time Test Ended: 01:48:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4260.00 ft (KB) To 4288.00 ft (KB) (TVD)

Reference Elevations: 3040.00 ft (KB)

Total Depth: 4288.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 93.10 psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.16

End Date:

2017.06.17

Last Calib.:

2017.06.16

Start Time:

18:12:02

End Time:

01:48:10

Time On Btm:

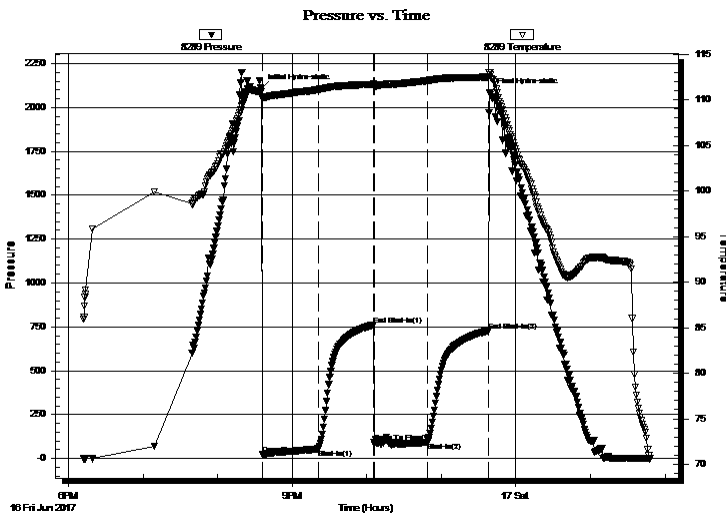
2017.06.16 @ 20:35:20

Time Off Btm:

2017.06.16 @ 23:39:00

TEST COMMENT: IF: 4" in 45 min., fair building blow
IS: No blow back
FF: 1/2" in 45 min., weak surface blow
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.07	110.87	Initial Hydro-static
1	21.37	110.09	Open To Flow (1)
46	54.55	111.16	Shut-In(1)
90	760.90	111.72	End Shut-In(1)
91	89.51	111.44	Open To Flow (2)
134	93.10	112.11	Shut-In(2)
183	728.41	112.50	End Shut-In(2)
184	2082.67	113.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
183.00	GOCMW 5%G,20%O,25%W,50%M	0.90
0.00	62' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59466

DST#: 3

ATTN: Luke Thompson

Test Start: 2017.06.16 @ 18:12:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:35:50

Time Test Ended: 01:48:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4260.00 ft (KB) To 4288.00 ft (KB) (TVD)

Reference Elevations: 3040.00 ft (KB)

Total Depth: 4288.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.16

End Date:

2017.06.17

Last Calib.:

1899.12.30

Start Time: 18:12:02

End Time:

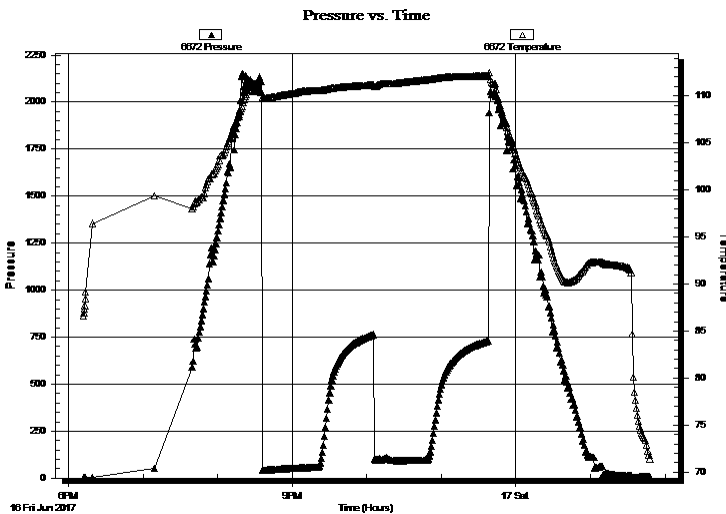
01:48:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 4" in 45 min., fair building blow
IS: No blow back
FF: 1/2" in 45 min., weak surface blow
FS: No blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
183.00	GOCMW 5%G,20%O,25%W,50%M	0.90
0.00	62' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59466

DST#: 3

ATTN: Luke Thompson

Test Start: 2017.06.16 @ 18:12:00

Tool Information

Drill Pipe:	Length: 4054.00 ft	Diameter: 3.80 inches	Volume: 56.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4260.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 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			4233.00	
Shut In Tool	5.00			4238.00	
Hydraulic tool	5.00			4243.00	
Jars	5.00			4248.00	
Safety Joint	3.00			4251.00	
Packer	5.00			4256.00	28.00 Bottom Of Top Packer
Packer	4.00			4260.00	
Stubb	1.00			4261.00	
Perforations	1.00			4262.00	
Perforations	23.00			4285.00	
Recorder	0.00	8289	Inside	4285.00	
Recorder	0.00	6672	Outside	4285.00	
Bullnose	3.00			4288.00	28.00 Bottom Packers & Anchor

Total Tool Length: 56.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59466

DST#: 3

ATTN: Luke Thompson

Test Start: 2017.06.16 @ 18:12:00

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:

12000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1350.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
183.00	GOCMW 5%G,20%O,25%W,50%M	0.900
0.00	62' GIP	0.000

Total Length: 183.00 ft Total Volume: 0.900 bbl

Num Fluid Samples: 0

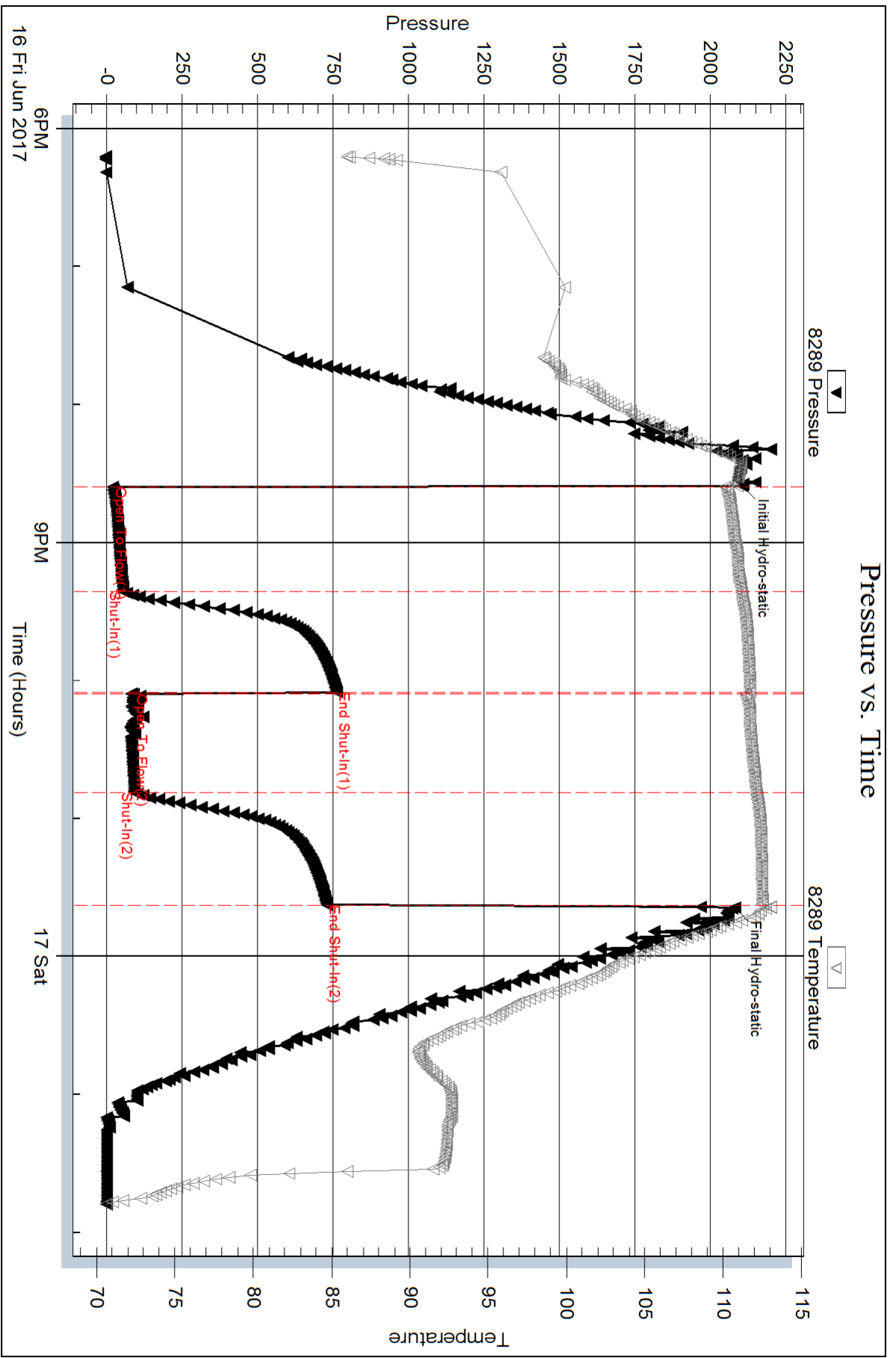
Num Gas Bombs: 0

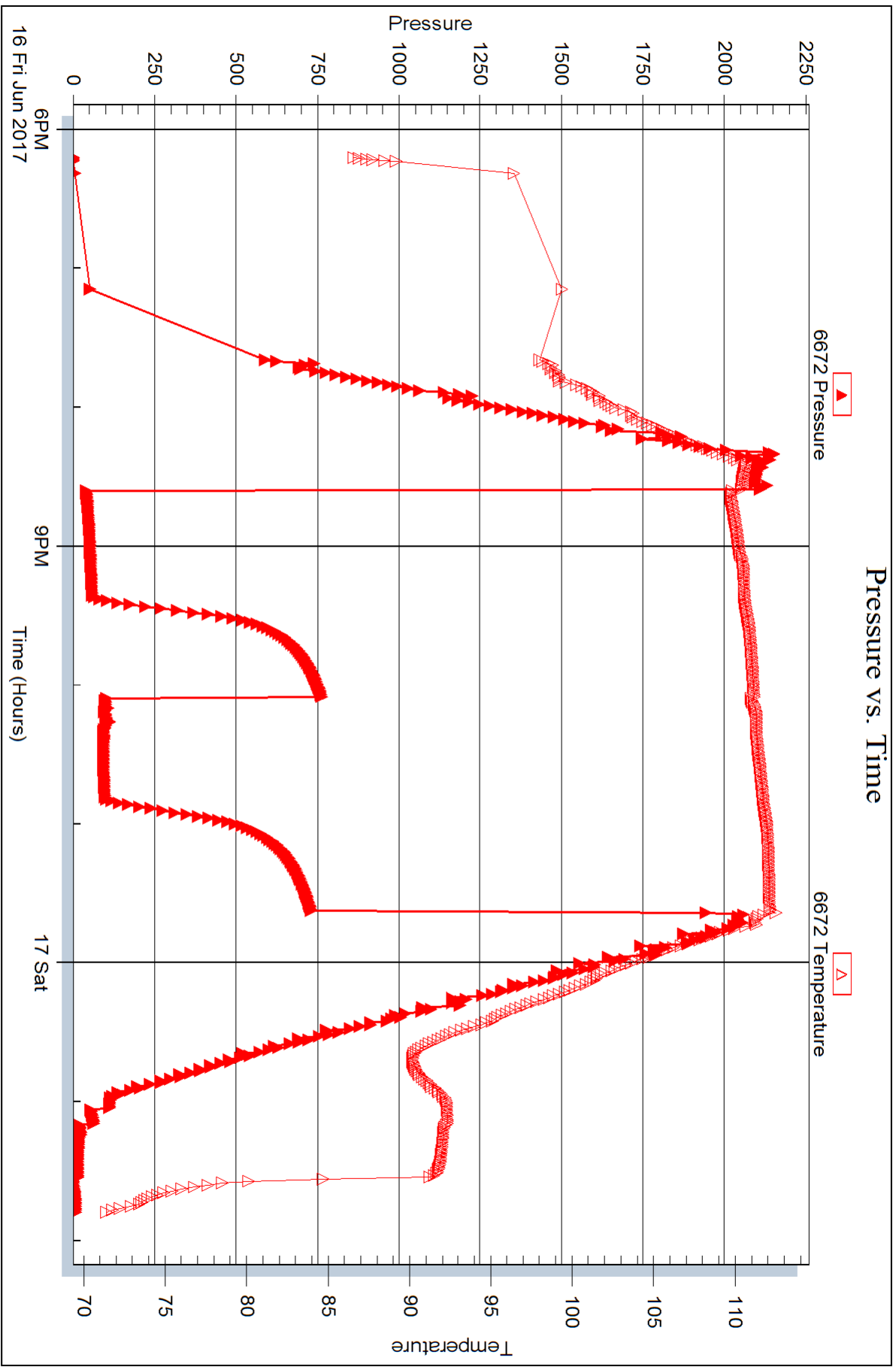
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.468@83F=12000ppm







DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Gano #6-17

17-25s-36w Kearny,KS

Start Date: 2017.06.19 @ 15:24:00

End Date: 2017.06.19 @ 22:26:39

Job Ticket #: 59467 DST #: 4

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

Printed: 2017.06.22 @ 14:10:43



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59467

DST#: 4

ATTN: Luke Thompson

Test Start: 2017.06.19 @ 15:24:00

GENERAL INFORMATION:

Formation: **St. Gen - St. Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:25:50
 Time Test Ended: 22:26:39
 Interval: **4815.00 ft (KB) To 4965.00 ft (KB) (TVD)**
 Total Depth: 4965.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 3040.00 ft (KB)
 3029.00 ft (CF)
 KB to GR/CF: 11.00 ft

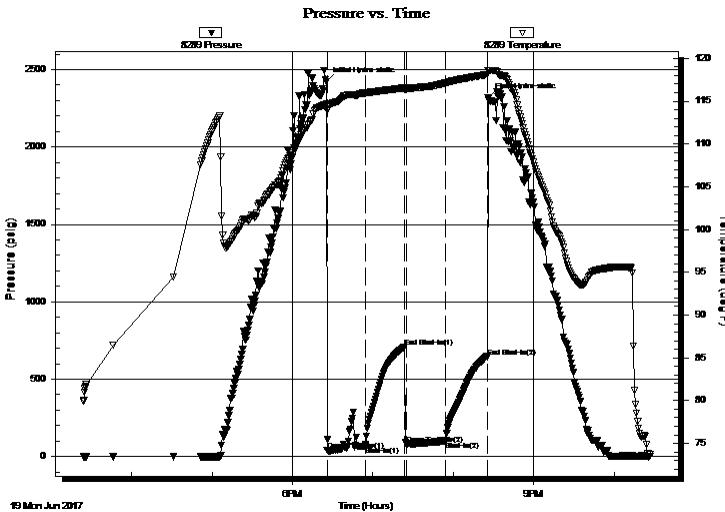
Serial #: 8289

Inside

Press@RunDepth: 99.03 psig @ 4834.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.19 End Date: 2017.06.19 Last Calib.: 2017.06.19
 Start Time: 15:24:02 End Time: 22:26:40 Time On Btm: 2017.06.19 @ 18:25:10
 Time Off Btm: 2017.06.19 @ 20:26:09

TEST COMMENT: IF: 2" in 30 min., weak surface blow
 IS: No blow back
 FF: Weak surface blow
 FS: No blow back

PRESSURE SUMMARY



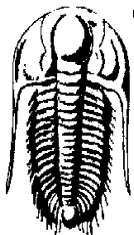
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2423.90	114.64	Initial Hydro-static
1	39.28	113.89	Open To Flow (1)
29	66.40	115.93	Shut-In(1)
59	710.26	116.54	End Shut-In(1)
60	81.87	116.42	Open To Flow (2)
89	99.03	117.10	Shut-In(2)
120	645.19	118.08	End Shut-In(2)
121	2316.07	118.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
183.00	WM w / oil spots 40%W,60%M	0.90

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 399 Garden City, KS 67846

Gano #6-17

Job Ticket: 59467

DST#: 4

ATTN: Luke Thompson

Test Start: 2017.06.19 @ 15:24:00

GENERAL INFORMATION:

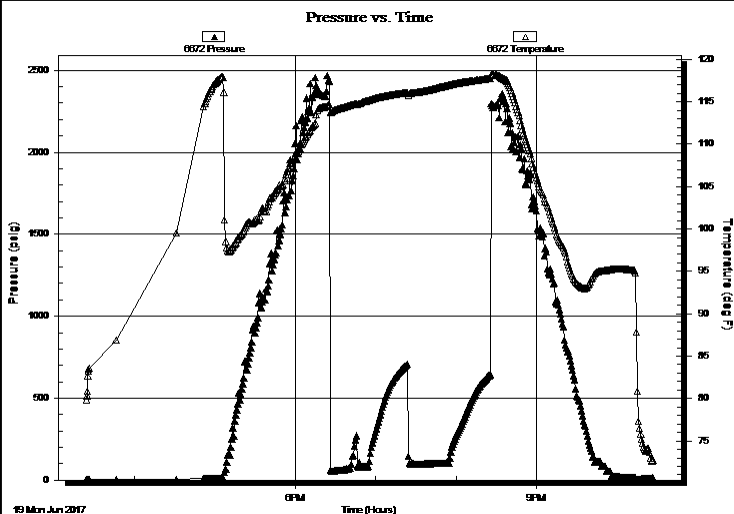
Formation: St. Gen - St. Louis
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:25:50
Time Test Ended: 22:26:39
Interval: 4815.00 ft (KB) To 4965.00 ft (KB) (TVD)
Total Depth: 4965.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 75
Reference Elevations: 3040.00 ft (KB) 3029.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6672

Outside

Press@RunDepth: psig @ 4834.00 ft (KB)
Start Date: 2017.06.19 End Date: 2017.06.19
Start Time: 15:24:02 End Time: 22:27:00
Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 2" in 30 min., weak surface blow
IS: No blow back
FF: Weak surface blow
FS: No blow back



PRESSURE SUMMARY

Table with 4 columns: Time (Min.), Pressure (psig), Temp (deg F), Annotation

Recovery

Table with 3 columns: Length (ft), Description, Volume (bbl)

Gas Rates

Table with 4 columns: Choke (inches), Pressure (psig), Gas Rate (MMcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59467

DST#: 4

ATTN: Luke Thompson

Test Start: 2017.06.19 @ 15:24:00

Tool Information

Drill Pipe:	Length: 4624.00 ft	Diameter: 3.80 inches	Volume: 64.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4815.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	150.00 ft			
Tool Length:	178.00 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			4788.00	
Shut In Tool	5.00			4793.00	
Hydraulic tool	5.00			4798.00	
Jars	5.00			4803.00	
Safety Joint	3.00			4806.00	
Packer	5.00			4811.00	28.00 Bottom Of Top Packer
Packer	4.00			4815.00	
Stubb	1.00			4816.00	
Perforations	1.00			4817.00	
Perforations	17.00			4834.00	
Recorder	0.00	8289	Inside	4834.00	
Recorder	0.00	6672	Outside	4834.00	
Change Over Sub	1.00			4835.00	
Drill Pipe	126.00			4961.00	
Change Over Sub	1.00			4962.00	
Bullnose	3.00			4965.00	150.00 Bottom Packers & Anchor
Total Tool Length:	178.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #6-17

Job Ticket: 59467

DST#: 4

ATTN: Luke Thompson

Test Start: 2017.06.19 @ 15:24:00

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:

60000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
183.00	WM w / oil spots 40%W,60%M	0.900

Total Length: 183.00 ft Total Volume: 0.900 bbf

Num Fluid Samples: 0

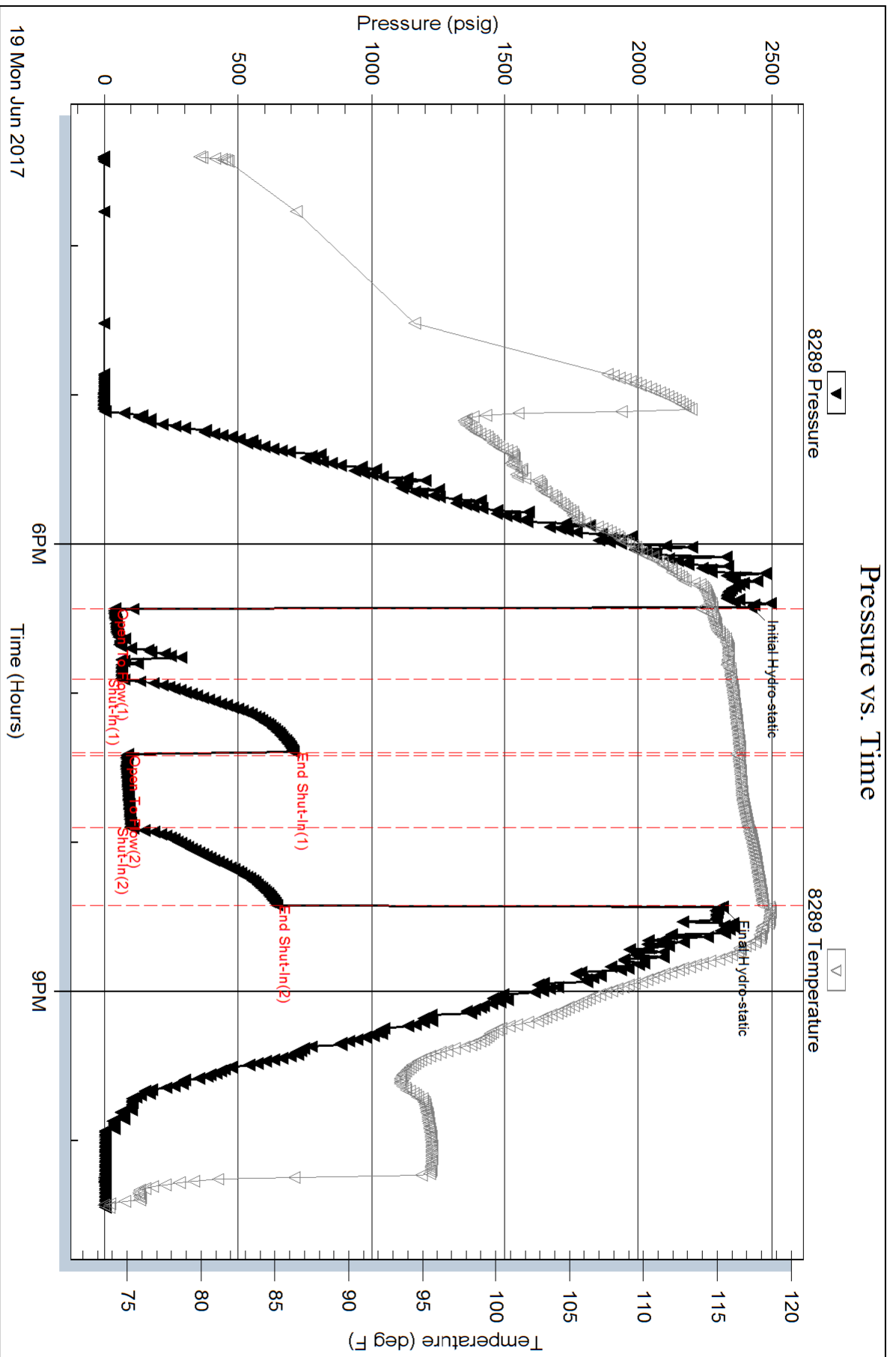
Num Gas Bombs: 0

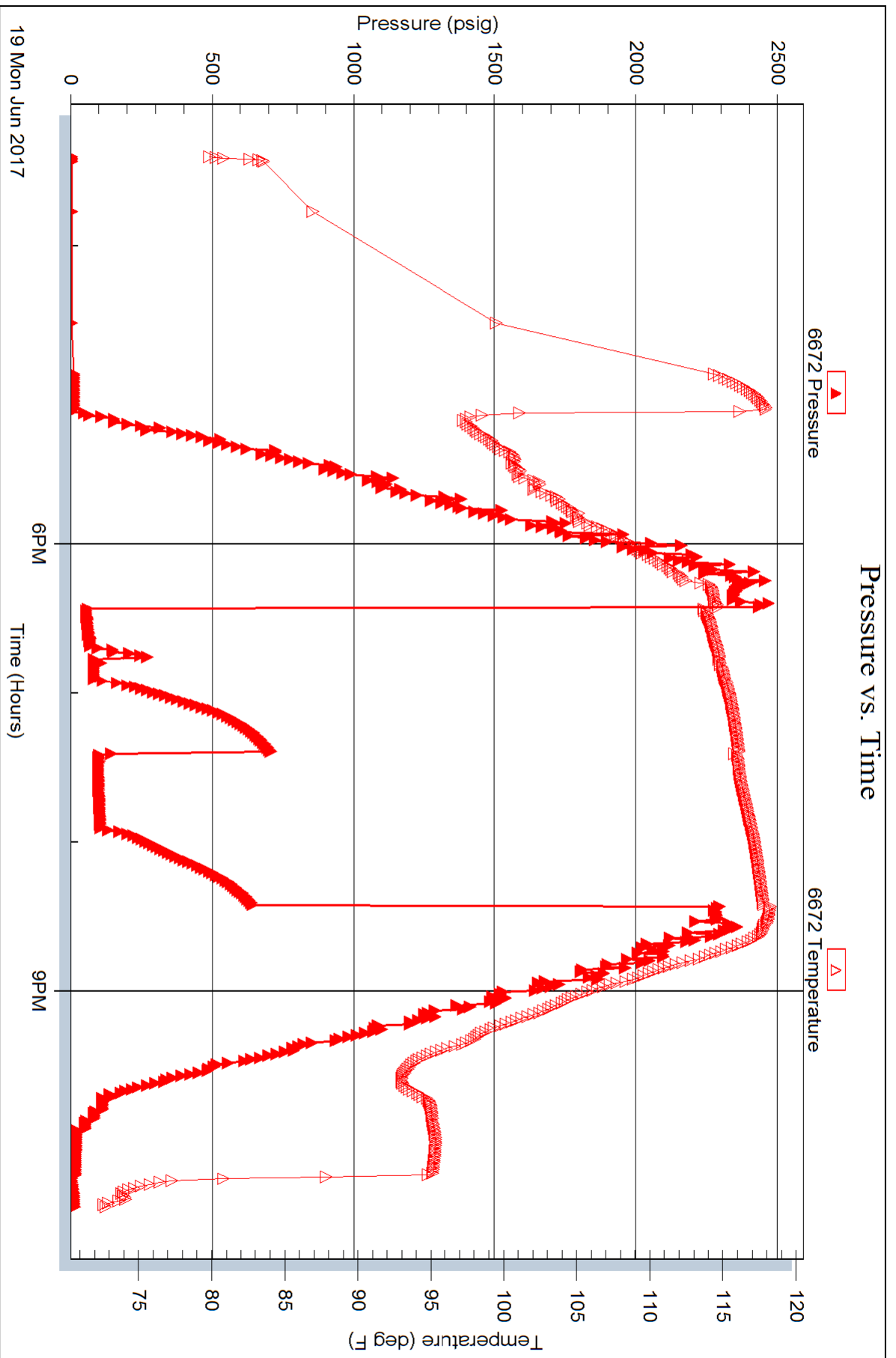
Serial #:

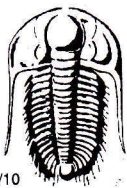
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.081@84F=60000ppm







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **59464**

4/10

Well Name & No. Cano 6-17 Test No. 1 Date 6-14-17
 Company American Warrior, Inc. Elevation ~~3040~~ 3029 KB 3029 GL
 Address 3118 Cummings Rd. P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #17
 Location: Sec. 17 Twp. 25 Rge. 36 Co. Keowny State KS

Interval Tested 3636-3660 Zone Tested Toronto
 Anchor Length 24' Drill Pipe Run 3440 Mud Wt. 9.4
 Top Packer Depth 3631 Drill Collars Run 183 Vis 30
 Bottom Packer Depth 3636 Wt. Pipe Run N.A. WL N/C
 Total Depth 3660 Chlorides 2900 ppm System LCM 2#

Blow Description IF: BOB 1.5 min., strong steady blow
ISI: No blow back
FF: BOB 5 min., strong steady blow
FST: N blow back

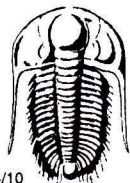
Rec	Feet of	%gas	%oil	%water	%mud
<u>930</u>	<u>gassy water</u>	<u>2</u>	<u>98</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 930 BHT 105 Gravity _____ API RW .124 @ 86 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic 1716 Test 1050 T-On Location 0545
 (B) First Initial Flow 50 Jars 250 T-Started 0645
 (C) First Final Flow 297 Safety Joint 75 T-Open 0845
 (D) Initial Shut-In 961 Circ Sub _____ T-Pulled 1130
 (E) Second Initial Flow 348 Hourly Standby _____ T-Out 1400
 (F) Second Final Flow 473 Mileage x120 90 Comments Bt on @ 0650
 (G) Final Shut-In 961 Sampler _____ 8289, 6672
 (H) Final Hydrostatic 1664 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1715
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1715

Approved By _____ Our Representative Chris Heggen

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **59465**

4/10

Well Name & No. Gran 6-17 Test No. 2 Date 6-15-17
 Company American Warrior, Inc. Elevation 3040 KB 3029 GL
 Address P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #17
 Location: Sec. 17 Twp. 25 Rge. 36 Co. Keary State KS

Interval Tested 3782-3812 Zone Tested Lansing D
 Anchor Length 30' Drill Pipe Run 3576 Mud Wt. 8.9
 Top Packer Depth 3797 Drill Collars Run 183 Vis 49
 Bottom Packer Depth 3782 Wt. Pipe Run N.A. WL 7.2
 Total Depth 3830 Chlorides 1350 ppm System LCM 1.5 #

Blow Description IF: 1.5 inches in 30 min, weak building blow
TSI: No blow back
FF: .5 inches in 30 min, weak surface blow
FST: No blow back

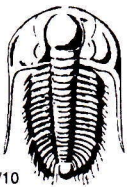
Rec	Feet of	%gas	%oil	%water	%mud
<u>188</u>	<u>gassy watery muddy oil</u>	<u>5</u>	<u>45</u>	<u>20</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 188 BHT 107 Gravity _____ API RW 213 @ 95 ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1805</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0600</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0700</u>
(C) First Final Flow <u>59</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0930</u>
(D) Initial Shut-In <u>1019</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1130</u>
(E) Second Initial Flow <u>96</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1330</u>
(F) Second Final Flow <u>96</u>	<input checked="" type="checkbox"/> Mileage <u>x 120</u> <u>90</u>	Comments <u>But on @ 0703</u>
(G) Final Shut-In <u>1012</u>	<input type="checkbox"/> Sampler _____	<u>8889,6672,6663</u>
(H) Final Hydrostatic <u>1754</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>2315</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2315</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **59466**

4/10

Well Name & No. Caro 6-17 Test No. 3 Date 6-15-17
 Company American Warrior, Inc. Elevation 3040 KB 3029 GL
 Address P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #7
 Location: Sec. 17 Twp. 25 Rge. 36 Co. Kearny State KS

Interval Tested 4260-4288 Zone Tested Marmaton
 Anchor Length 28' Drill Pipe Run 4054 Mud Wt. 9.25
 Top Packer Depth 4255 Drill Collars Run 183 Vis 50
 Bottom Packer Depth 4260 Wt. Pipe Run N.A. WL 8.4
 Total Depth 4288 Chlorides 1350 ppm System LCM 2#

Blow Description IFI 4 inches in 45 min., fair building blow
BSI: No blow back
FFI: 5 inches in 45 min., weak surface blow
FST: No blow back

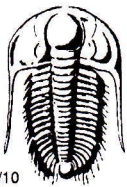
Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>GIP</u>	<u>100</u>			
<u>183</u>	<u>oily watery mud</u>	<u>5</u>	<u>20</u>	<u>25</u>	<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 183 BHT 112 Gravity _____ API RW .468 @ 83 °F Chlorides 12,000 ppm
 (A) Initial Hydrostatic 2106 Test 1150 T-On Location 1730
 (B) First Initial Flow 21 Jars 250 T-Started 1830
 (C) First Final Flow 55 Safety Joint 75 T-Open 2035
 (D) Initial Shut-In 761 Circ Sub _____ T-Pulled 2335
 (E) Second Initial Flow 90 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 93 Mileage x 120 90 Comments Best on @ 1812
 (G) Final Shut-In 728 Sampler _____ 8289, 6672
 (H) Final Hydrostatic 2083 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1565
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1565

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Approved By _____ Our Representative Chris Hegran

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59467

4/10

Well Name & No. Caro 617 Test No. 4 Date 6-19-17
 Company American Warrior, Inc. Elevation 3040 KB 3029 GL
 Address P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #17
 Location: Sec. 17 Twp. 25 Rge. 36 Co. Kearny State KS

Interval Tested 4815-4965 Zone Tested St. Gen - St. Louis
 Anchor Length 150 Drill Pipe Run 4624 Mud Wt. 9.4
 Top Packer Depth 4810 Drill Collars Run 183 Vis 52
 Bottom Packer Depth 4815 Wt. Pipe Run N.A. WL 9.2
 Total Depth 4965 Chlorides ~~1500~~ 1400 ppm System LCM 3#

Blow Description IP: 2 inches in 30 min., weak surface blow
ISB: No blow back
FFI: Weak surface blow
FSB: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>183</u>	<u>oil spotted muddy water</u>	<u>spot</u>	<u>40%</u>	<u>60%</u>	<u></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 183 BHT 117 Gravity _____ API RW 1.081 @ 84 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic <u>2424</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1430</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1600</u>
(C) First Final Flow <u>66</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1825</u>
(D) Initial Shut-In <u>710</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2025</u>
(E) Second Initial Flow <u>82</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2230</u>
(F) Second Final Flow <u>99</u>	<input checked="" type="checkbox"/> Mileage <u>x120</u> 90	Comments <u>Bot on @ 1524</u>
(G) Final Shut-In <u>645</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2316</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>1700</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby <u>3.5d 3h</u>	Total <u>3265</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1565</u>	

Approved By _____ Our Representative Chris Heggen

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Geological Report

American Warrior, Inc.

Gano #6-17

1648' FSL & 837' FWL

Sec 17, T25s, R36w

Kearny County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Gano #6-17
1648' FSL & 837' FWL
Sec. 17, T25s, R36w
Kearny County, Kansas
API # 15-093-21959-00-00

Drilling Contractor: Duke Drilling Co. Rig #7

Geologist: Luke Thompson

Spud Date: June 8, 2017

Completion Date: June 22, 2017

Elevation 3029' G.L.
3042' K.B.

Directions: From center of Lakin, KS at the intersection of Hwy 50 & Hwy 25 – Now go 3.3 miles South on Hwy 25 – Now go 0.7 mile West on Rd.120 – Now go 1 mile South on Rd. S – Now go 1.5 mile West on Rd. 110 to the lease road – South into by steel grain bins, Now go South 0.6 miles to pump jack, then west 1000' to location.

Casing: 1829' 8 5/8" #23 Surface Casing
5045' 5 1/2" #17 Production Casing

Samples: 3450' to RTD 10' Wet & Dry

Drilling Time: 3400' to RTD

Electric Logs: Pioneer Energy Services "J. Henrickson"
Stack Micro

Drillstem Tests: Four-Trilobite Testing "Chris Hagman"

Problems: none encountered

Formation Tops

Gano #6-17

Sec. 17, T25s, R36w

1648' FSL & 837' FWL

Heebner	3630' -588
Toronto	3643' -601
Lansing	3675' -633
Stark	4019' -977
Bkc	4188' -1146
Marmaton	4209' -1146
Pawnee	4310' -1268
Fort Scott	4343' -1301
Cherokee	4354' -1312
Morrow	4653' -1611
Miss	4793' -1751
RTD	5050' -2008
LTD	5051' -2009

Sample Zone Descriptions

Toronto (3650' -608): **Covered in DST #1**
Limestone, cream/tan, sub crystalline, scattered chalky, fair pinpoint vuggy porosity, strong odor, fair show of free oil in porosity, fair stain, fair to good saturation, good stream to flush cut. Gas 30 units hotwire.

Lansing D (3800' -758): **Covered in DST #2**
Limestone, tan, sub crystalline, slight chalky, scattered Dolomitic recrystallization, fair pinpoint vuggy porosity, strong odor, fair stain, fair to good saturation, fair slow flush cut. Gas 45 units hotwire.

Marmaton (4270' -1228): **Covered in DST #3**
Limestone, cream/tan, oolitic packstone, chalky, scattered oolitic fragments, fair oolitic porosity, strong odor, fair stain, fair saturation, show of free oil in porosity, fair stream cut. Gas 100+ units hotwire.

St. Gen (4840' -1798): **Covered in DST #4**
Limestone, tan to light grey, sub crystalline, chalky, oolitic grainstone, slightly sandy, poor oolitic porosity, very slight to no odor, poor stain, poor saturation, show of free oil when broke, poor slow string cut. Gas 15 units hotwire.

St. Louis (4930' -1888): **Covered in DST #4**
Limestone, tan, sub crystalline, oolitic packstone, chalky, poor oolitic porosity, very slight fleeting odor, very slight show of free oil when broke, very poor to no stain, poor saturation, poor slow string cut. Gas 20 units hotwire.

Drill Stem Tests

Trilobite Testing
"Chris Hagman"

DST #1 Toronto

Interval (3636' – 3660') Anchor Length 24'

IHP - 1715 #

IFP - 30" – BOB 1 ½ min

ISI - 45" – No Return

FFP - 45" – BOB 5 min

FSIP - 60" – No Return

FHP - 1664 #

BHT - 105° F

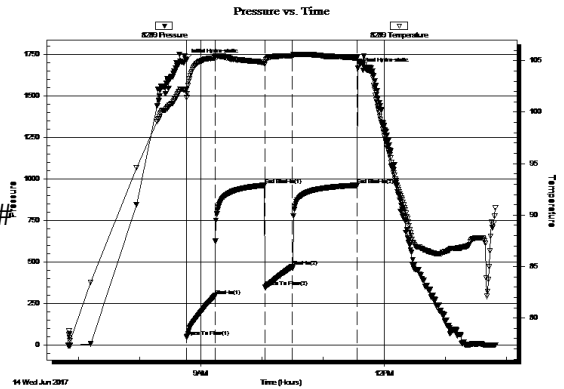
Recovery: 903' GW 2% G

50-297#

961#

348-473#

961#



DST #2 Lansing D (straddle test)

Interval (3782' – 3812') Anchor Length 30', Tail Pipe 18'

IHP - 1804 #

IFP - 30" – 1 ½" in 30 min

ISI - 30" – No Return

FFP - 30" – ½" in 30 min

FSIP - 30" – No Return

FHP - 1754 #

BHT - 107° F

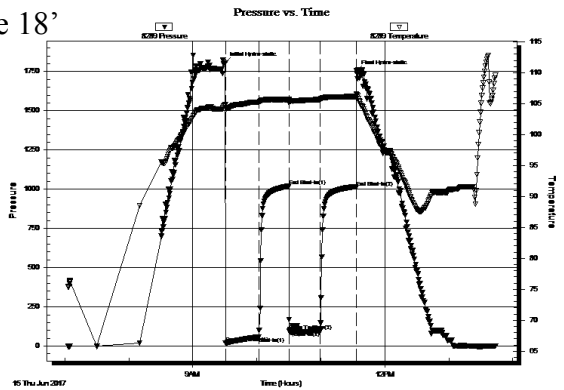
Recovery: 188' GWMCO 5% G 45% O

18-59#

1019#

96-96#

1012#



DST #3

Marmaton

Interval (4260' – 4288') Anchor Length 28'

IHP - 2106 #

IFP - 45" – 4" in 45 min

ISI - 45" – No Return

FFP - 45" – 1/2" in 45 min

FSIP - 45" – No Return

FHP - 2082 #

BHT - 113° F

Recovery: 62' GIP

183' GOCMW

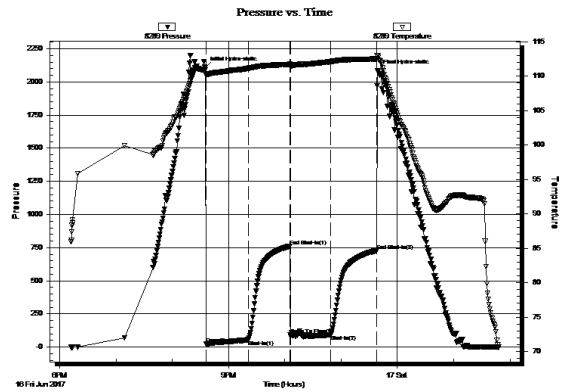
5% G 20% O

21-55#

761#

89-93#

728#



DST #4

St. Gen – St. Louis

Interval (4815' – 4965') Anchor Length 150'

IHP - 2424 #

IFP - 30" – 2" in 30 min

ISI - 30" – No Return

FFP - 30" – WSB

FSIP - 30" – No Return

FHP - 2316 #

BHT - 118° F

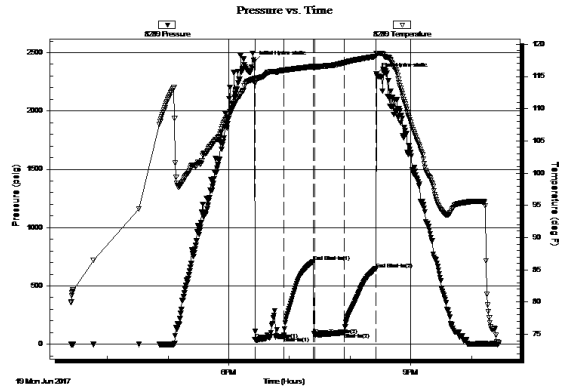
Recovery: 183' WM w/oil spots

39-66#

710#

82-99#

645#



Structural Comparison

	American Warrior, Inc. Gano #6-17 Sec. 17, T25s, R36w 1648' FSL & 837' FSL		American Warrior, Inc. Gano #4-17 Twin Sec. 17, T25s, R36w 2273' FSL & 1806' FWL		American Warrior, Inc. Gano #3-17 Sec. 17, T25s, R36w 1512' FSL & 2603' FEL
Formation					
Heebner	3630' -588	-2	3622' -586	+3	3627' -591
Lansing	3675' -633	-1	3668' -632	+5	3674' -638
Stark	4019' -977	-2	4011' -975	+5	4018' -982
BKC	4188' -1146	-3	4179' -1143	0	4182' -1146
Marmaton	4209' -1167	-5	4198' -1162	+3	4206' -1170
Pawnee	4310' -1268	-3	4301' -1265	+3	4307' -1271
Fort Scott	4343' -1301	-1	4336' -1300	+3	4340' -1304
Cherokee	4354' -1312	-2	4346' -1310	+3	4351' -1315
Morrow	4653' -1611	-4	4643' -1607	-4	4643' -1607
Miss	4793' -1751	+1	4788' -1752	-1	4788' -1752

Summary

The location for the Gano #6-17 well was found via 3-D seismic survey. The new well ran structurally as expected. Four drill stem tests were conducted, one of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to run 5 1/2" casing to further evaluate the Gano #6-17 well.

Perforations

Primary:	#1	Lansing H	(3918' – 3936')	Not Tested
	#2	Lansing E	(3820' – 3824')	Not Tested
	#3	Lansing D	(3795' – 3801')	DST #2
Secondary:	#4	Lansing A	(3674' – 3680')	Not Tested
	#5	Lansing A	(3683' – 3686')	Not Tested

Before Abandonment:	#6 St. Louis A	(4831' – 4835')	DST #4
	#7 Pawnee	(4316' – 4322')	Not Tested
	#8 Marmaton	(4270' – 4276')	DST #3

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.