

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1350277
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: _____

1350277

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LEE 3-20
Doc ID	1350277

Tops

Name	Top	Datum
Anhy	1752	+1325
B/Anhy	1827	+1250
Heebner	3666	-589
Lansing	3713	-636
B/KC	4232	-1155
Marmaton	4265	-1188
Pawnee	4353	-1276
Ft.Scott	4387	-1310
Cherokee	4393	-1316
Morrow	4691	-1614
St.Gen	4829	-1752



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

TICKET 30160

PAGE 1 OF 1

SERVICE LOCATIONS: newly KS
 WELL/PROJECT NO: 3-20 LEASE: Lee COUNTY/PARISH: Kearney STATE: KS CITY: Lakin DATE: 3 MAR 17 OWNER:
 TICKET TYPE: SERVICE SALES CONTRACTOR: DUKE RIG NAME/NO.: 7 SHIPPED VIA: CT DELIVERED TO: location ORDER NO.:
 WELL TYPE: oil WELL CATEGORY: Development JOB PURPOSE: cement deep surface WELL PERMIT NO.: WELL LOCATION: 20-25-36
 REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	100	mi			5.00	500.00
576D		1			Pump Charge		lea			12.50	12.50.00
400		1			Guide shoe	88	in	1	lea	300.00	380.00
401		1			insert float w/ AUTO PILL	88	in	1	lea	200.00	200.00
403		1			Cement Basket	88	in	1	lea	325.00	325.00
409		1			Turbolizer	88	in	3	lea	95.00	285.00
410		1			TOP plug	88	in	1	lea	120.00	120.00
194		1			Plug container rental	88	in	1	lea	200.00	200.00
											3230.00
											3100.00
											15 923.89
											19,153.89
											889.96
											20043.85

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

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

DATE SIGNED: 2/15/17 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?				
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

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

SWIFT OPERATOR: APeyhall APPROVAL:

Thank You!



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

TICKET CONTINUATION

TICKET No. 30160

CUSTOMER *American Warrior* WELL *Lee 3-20* DATE *3 MAR 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				<i>SUD cement</i>	<i>700</i>	<i>SK</i>			<i>15.75</i>	<i>11025.00</i>
276		1				<i>Floacle</i>	<i>175</i>	<i>lb</i>			<i>2.25</i>	<i>393.75</i>
281		1				<i>mid flush</i>	<i>500</i>	<i>gal</i>			<i>1.25</i>	<i>625.00</i>
221		1				<i>KCh flr liquid</i>	<i>2</i>	<i>gal</i>			<i>25.00</i>	<i>50.00</i>
290		1				<i>D-AIR</i>	<i>4</i>	<i>gal</i>			<i>42.00</i>	<i>168.00</i>
581		1				SERVICE CHARGE					<i>1.50</i>	<i>1050.00</i>
583		1				MILEAGE CHARGE					<i>0.75</i>	<i>2612.14</i>
						TOTAL WEIGHT	<i>69657</i>					
						LOADED MILES	<i>100</i>					
						CUBIC FEET						
						TON MILES			<i>3482.85</i>			

CONTINUATION TOTAL *15923.89*

JOB LOG

SWIFT Services, Inc.

DATE

3 MAR 17

PAGE NO.

1

CUSTOMER

American Junior

WELL NO.

3-20

LEASE

Lee

JOB TYPE

cement deep surface

TICKET NO.

30160

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/ 1/4" floccle 8 5/8" x 23" casing 1792' 1789' D = 1792' Cement 200 #1, 8, 21 Rodent 22 903'
	1145							on loc TRK 114
	1630							start 8 5/8" x 23" casing in well
	1900							Drop ball - circulate
	1930	4	12				200	Pump 500 gal mud flush
		4	20				200	Pump 20 bbl KCl flush
	1939	6	93				250	mix SMD 200 sk @ 11.8 ppg
		6	120				250	300 sk 12.5 ppg
		5 1/2	25				300	100 sk 13.5 ppg
		5 1/2	26				300	100 sk 14.5 ppg
								total 700 sk
	2110	5 1/2					300	Release plug Displace w/ H ₂ O
								→ cement to surface ←
	2130	5 1/2	99				800	Land plug
		5 1/2	112				1500	shut in 8 5/8"
	2132							wash truck
								back up
	2150							job complete

700 sk mixed
400 sk total

TREATMENT REPORT



HURRICANE SERVICES INC

Customer:	AMERICAN WARRIOR	Date:	3/14/2017	Ticket No.:	50967
Field Rep:	GALEN ROACH				
Address:					
City, State:					
County, Zip:					

Field Order No.:	
Well Name:	LEE # 3-20
Location:	LAKIN, KS
Formation:	
Type of Service:	ROTARY PLUG
Well Type:	
Age of Well:	NEW
Packer Type:	
Packer Depth:	
Treatment Via:	DRILL PIPE

Open Hole:	7 7/8"
Casing Depth:	1786'
Casing Size:	8 5/8" 24#
Tubing Depth:	
Tubing Size:	
Liner Depth:	
Liner Size:	
Liner Top:	
Liner Bottom:	
Total Depth:	

Perf Depths (ft)	Perfs
Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
6:00 AM					ON LOACTION			
					SAFETY MEETING			
					RIG UP			
7:10 AM					HOOK UP TO DRILL PIPE 1816'			
	4.0		300.0		PUMP 12 BBL WATER AHEAD			12.00
	4.0		300.0		MIX AND PUMP 50 SX CEMENT			12.64
7:30 AM	4.0		300.0		DISPLACE			22.70
					PULL DRILL PIPE			
					HOOK UP TO DRILL PIPE 870'			
9:15 AM	4.0		200.0		PUMP 10 BBL WATER AHEAD			10.00
	4.0		200.0		MIX AND PUMP CEMENT 40 SX			10.11
9:30 AM	4.0		200.0		DISPLACE			9.90
					PULL DRILL PIPE			
					HOOK UP TO DRILL PIPE 400'			
9:45 AM	4.0		200.0		PUMP 10 BBL WATER AHEAD			10.00
	4.0		200.0		MIX AND PUMP CEMENT 40 SX			10.11
9:55 AM	3.0		200.0		DISPLACE			3.21
TOTAL:						-	-	118.35

SUMMARY

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
4.0	3.5	300.0	212.5

PRODUCTS USED

200 SX 60:40:4%GEL

Treater: JAKE HEARD

Customer: GALEN ROACH



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

3118 Cummings Rd
Garden City, KS 67846

ATTN: Kevin Timson

Lee #3-20

20-25s-36w Kearny,KS

Start Date: 2017.03.08 @ 22:49:06

End Date: 2017.03.09 @ 07:11:36

Job Ticket #: 65669 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.14 @ 13:28:46



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc
3118 Cummings Rd
Garden City, KS 67846
ATTN: Kevin Timson

20-25s-36w Kearny, KS

Lee #3-20

Job Ticket: 65669

DST#: 1

Test Start: 2017.03.08 @ 22:49:06

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:42:06
 Time Test Ended: 07:11:36
 Interval: **4260.00 ft (KB) To 4304.00 ft (KB) (TVD)**
 Total Depth: 4304.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3077.00 ft (KB)
 3065.00 ft (CF)
 KB to GR/CF: 12.00 ft

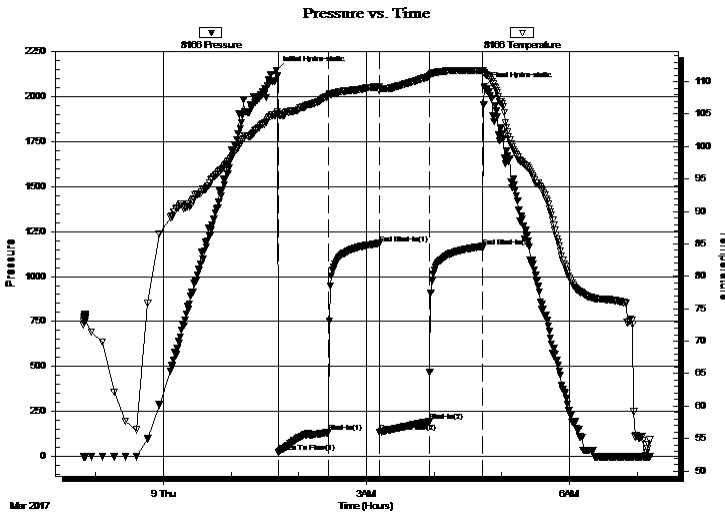
Serial #: 8166

Outside

Press@RunDepth: 192.80 psig @ 4261.00 ft (KB)
 Start Date: 2017.03.08 End Date: 2017.03.09
 Start Time: 22:49:11 End Time: 07:11:35
 Capacity: 8000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2017.03.09 @ 01:40:06
 Time Off Btm: 2017.03.09 @ 04:44:36

TEST COMMENT: IF: 1/4" blow built to 8"
 IS: No return.
 FF: Surface blow built to 7"
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.57	105.07	Initial Hydro-static
2	22.01	104.98	Open To Flow (1)
46	132.40	107.81	Shut-In(1)
91	1184.35	109.20	End Shut-In(1)
92	134.57	108.64	Open To Flow (2)
136	192.80	110.79	Shut-In(2)
183	1167.59	111.71	End Shut-In(2)
185	2057.54	111.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	mcw 80%w 20%m	1.82
155.00	w cm 40%w 60%m	2.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

20-25s-36w Kearny,KS

3118 Cummings Rd
Garden City, KS 67846

Lee #3-20

Job Ticket: 65669

DST#: 1

ATTN: Kevin Timson

Test Start: 2017.03.08 @ 22:49:06

Tool Information

Drill Pipe:	Length: 4056.00 ft	Diameter: 3.80 inches	Volume: 56.90 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: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4260.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Stubb	1.00			4234.00	
Shut In Tool	5.00			4239.00	
Hydraulic tool	5.00			4244.00	
Jars	5.00			4249.00	
Safety Joint	2.00			4251.00	
Packer	5.00			4256.00	27.00 Bottom Of Top Packer
Packer	4.00			4260.00	
Stubb	1.00			4261.00	
Recorder	0.00	8875	Inside	4261.00	
Recorder	0.00	8166	Outside	4261.00	
Perforations	4.00			4265.00	
Change Over Sub	1.00			4266.00	
Drill Pipe	32.00			4298.00	
Change Over Sub	1.00			4299.00	
Bullnose	5.00			4304.00	44.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

20-25s-36w Kearny,KS

3118 Cummings Rd
Garden City, KS 67846

Lee #3-20

Job Ticket: 65669

DST#: 1

ATTN: Kevin Timson

Test Start: 2017.03.08 @ 22:49:06

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	mcw 80%w 20%m	1.821
155.00	wcm 40%w 60%m	2.174

Total Length: 403.00 ft Total Volume: 3.995 bbl

Num Fluid Samples: 0

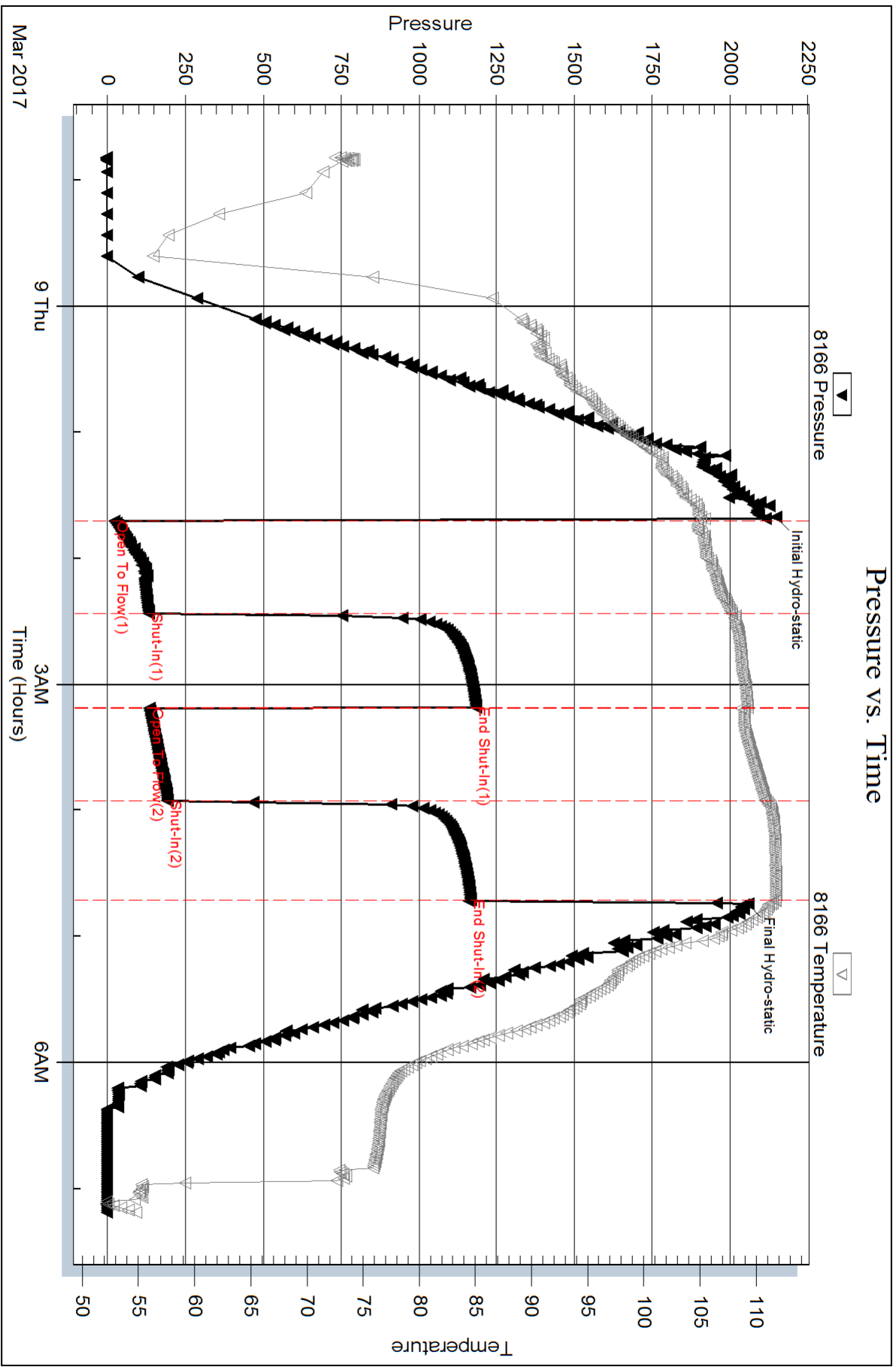
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .28@39=48000



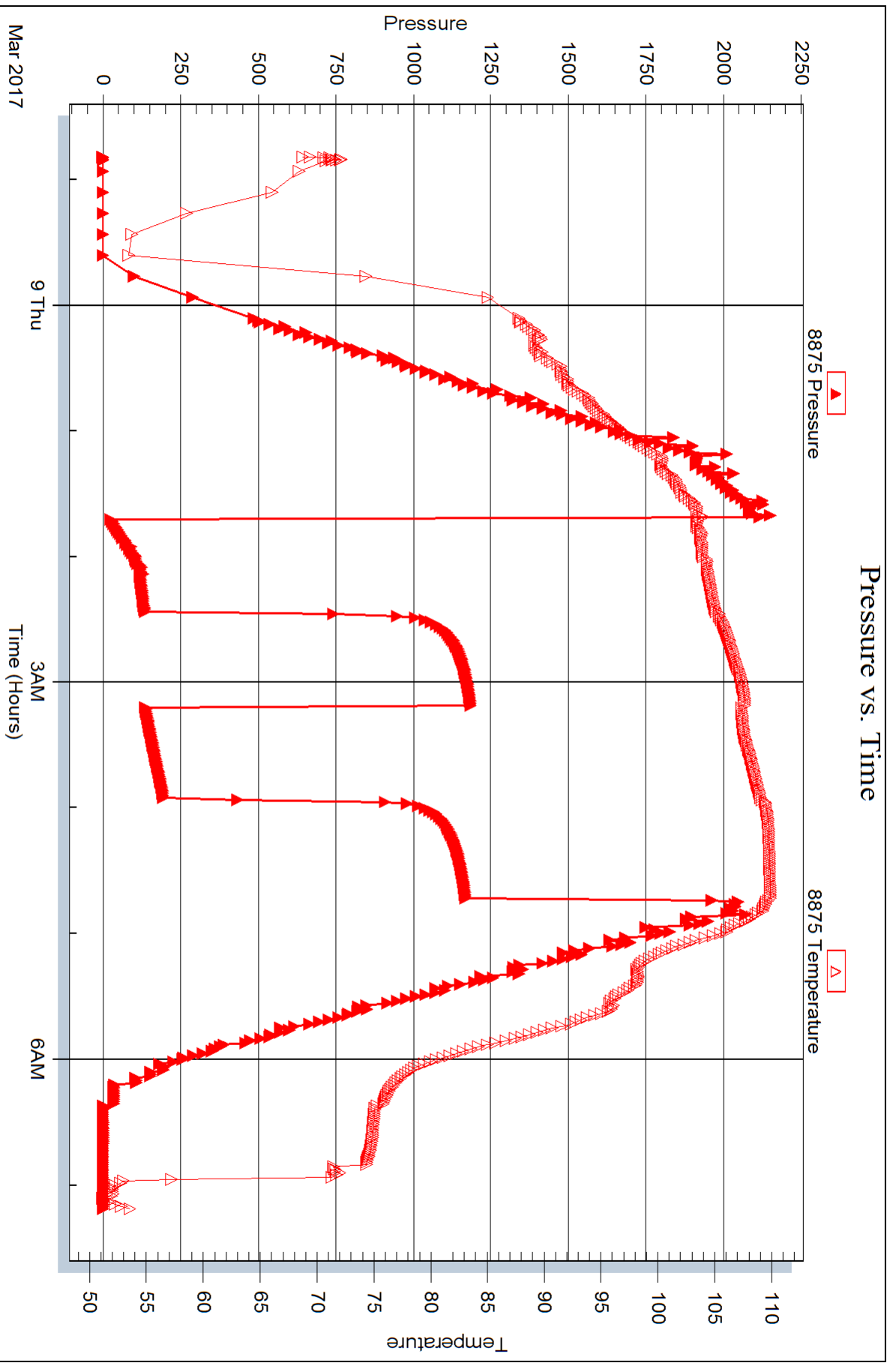
Serial #: 8875

Inside

American Warrior Inc

Lee #3-20

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65669

Printed: 2017.03.14 @ 13:28:47



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

3118 Cummings Rd
Garden City, KS 67846

ATTN: Kevin Timson

Lee #3-20

20-25s-36w Kearny,KS

Start Date: 2017.03.10 @ 18:34:57

End Date: 2017.03.11 @ 00:01:57

Job Ticket #: 65670 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.14 @ 13:20:33



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
 3118 Cummings Rd
 Garden City, KS 67846
 ATTN: Kevin Timson

20-25s-36w Kearny, KS
Lee #3-20
 Job Ticket: 65670 **DST#: 2**
 Test Start: 2017.03.10 @ 18:34:57

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:28:57
 Time Test Ended: 00:01:57
 Interval: **4444.00 ft (KB) To 4534.00 ft (KB) (TVD)**
 Total Depth: 4534.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3077.00 ft (KB)
 3065.00 ft (CF)
 KB to GR/CF: 12.00 ft

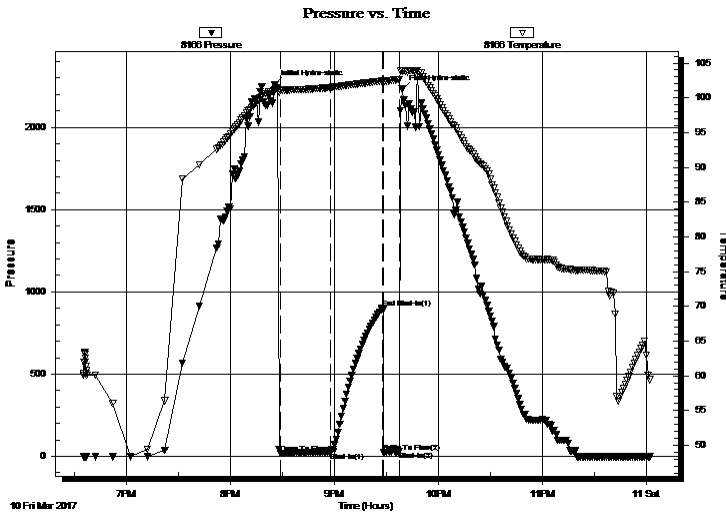
Serial #: 8166

Outside

Press@RunDepth: 24.38 psig @ 4445.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.10 End Date: 2017.03.11 Last Calib.: 2017.03.11
 Start Time: 18:35:02 End Time: 00:01:56 Time On Btm: 2017.03.10 @ 20:25:27
 Time Off Btm: 2017.03.10 @ 21:38:57

TEST COMMENT: IF: 1/4" blow died in 11 min.
 IS: No return.
 FF: No blow.
 FS: Pulled tool.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.87	101.23	Initial Hydro-static
4	18.49	101.04	Open To Flow (1)
32	24.38	101.48	Shut-In(1)
62	899.52	102.42	End Shut-In(1)
63	26.19	102.27	Open To Flow (2)
72	31.66	102.66	Shut-In(2)
74	2231.85	103.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* 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
3118 Cummings Rd
Garden City, KS 67846
ATTN: Kevin Timson

20-25s-36w Kearny,KS
Lee #3-20
Job Ticket: 65670 **DST#: 2**
Test Start: 2017.03.10 @ 18:34:57

Tool Information

Drill Pipe:	Length: 4247.00 ft	Diameter: 3.80 inches	Volume: 59.57 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:	30000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 60.47 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4444.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	117.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4418.00	
Shut In Tool	5.00			4423.00	
Hydraulic tool	5.00			4428.00	
Jars	5.00			4433.00	
Safety Joint	2.00			4435.00	
Packer	5.00			4440.00	27.00 Bottom Of Top Packer
Packer	4.00			4444.00	
Stubb	1.00			4445.00	
Recorder	0.00	8875	Inside	4445.00	
Recorder	0.00	8166	Outside	4445.00	
Perforations	19.00			4464.00	
Change Over Sub	1.00			4465.00	
Drill Pipe	63.00			4528.00	
Change Over Sub	1.00			4529.00	
Bullnose	5.00			4534.00	90.00 Bottom Packers & Anchor

Total Tool Length: 117.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

20-25s-36w Kearny,KS

3118 Cummings Rd
Garden City, KS 67846

Lee #3-20

Job Ticket: 65670

DST#: 2

ATTN: Kevin Timson

Test Start: 2017.03.10 @ 18:34:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

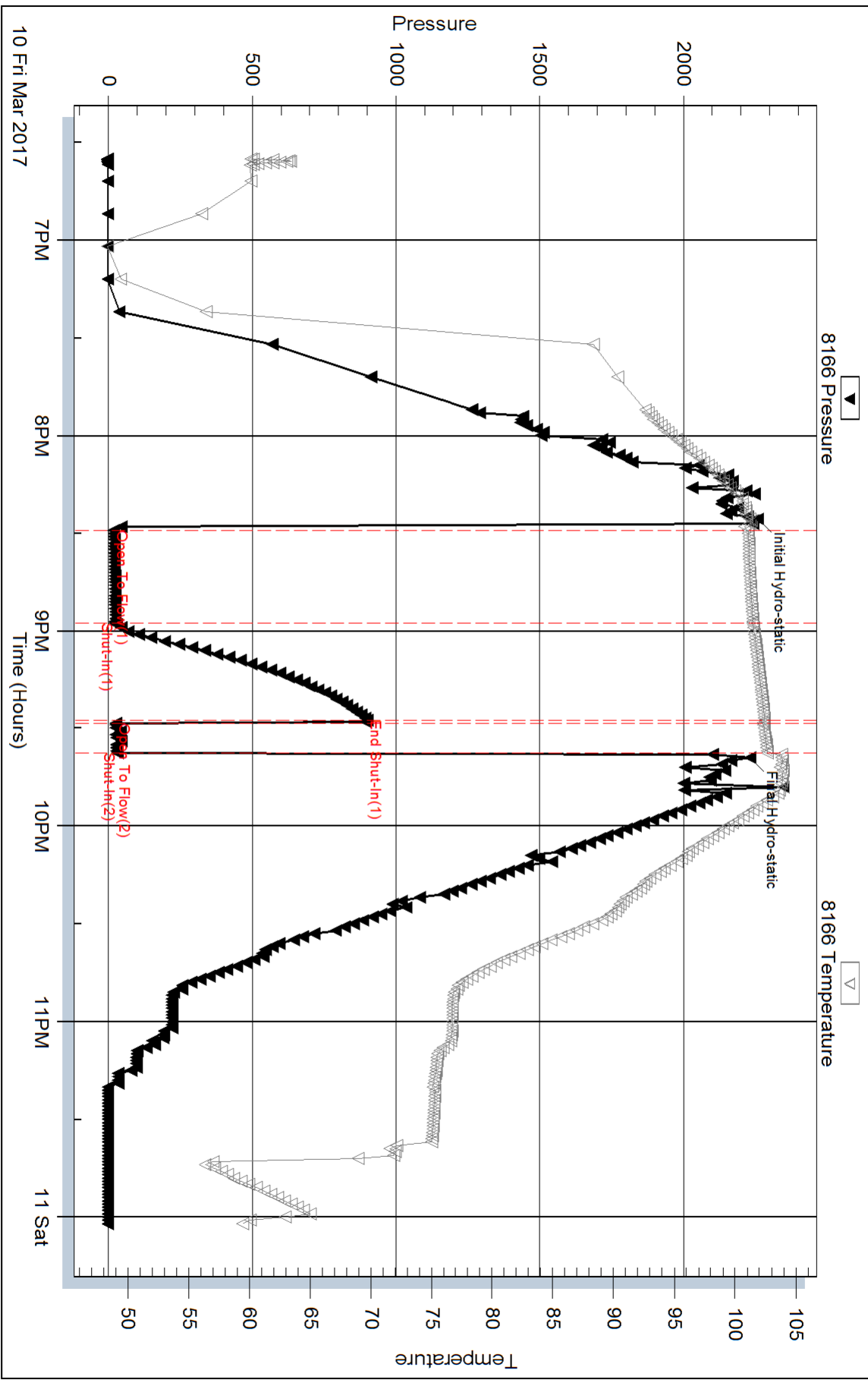
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



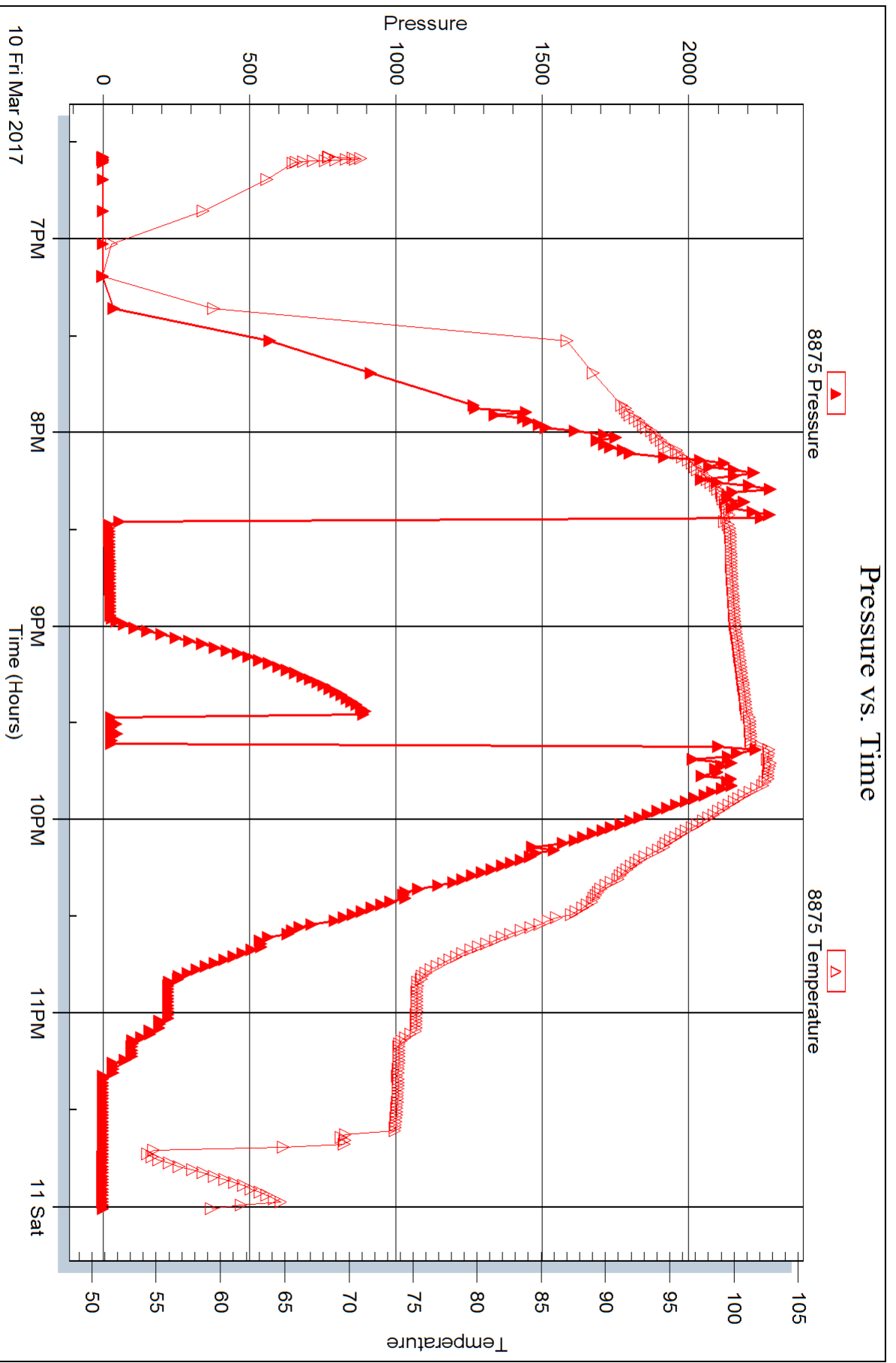
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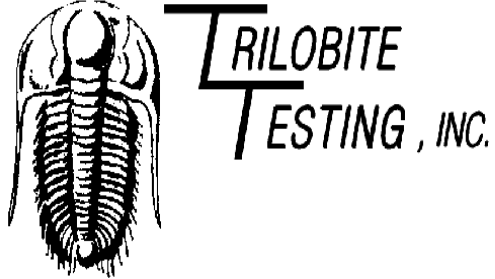
Inside

American Warrior Inc

Lee #3-20

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

3118 Cummings Rd
Garden City, KS 67846

ATTN: Kevin Timson

Lee #3-20

20-25s-36w Kearny,KS

Start Date: 2017.03.12 @ 09:59:38

End Date: 2017.03.12 @ 15:26:38

Job Ticket #: 65671 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.14 @ 13:16:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
 3118 Cummings Rd
 Garden City, KS 67846
 ATTN: Kevin Timson

20-25s-36w Kearny, KS

Lee #3-20

Job Ticket: 65671

DST#: 3

Test Start: 2017.03.12 @ 09:59:38

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:17:38

Time Test Ended: 15:26:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4672.00 ft (KB) To 4832.00 ft (KB) (TVD)

Reference Elevations: 3077.00 ft (KB)

Total Depth: 4832.00 ft (KB) (TVD)

3065.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8166 Outside

Press@RunDepth: 166.34 psig @ 4673.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.12

End Date: 2017.03.12

Last Calib.: 2017.03.12

Start Time: 09:59:43

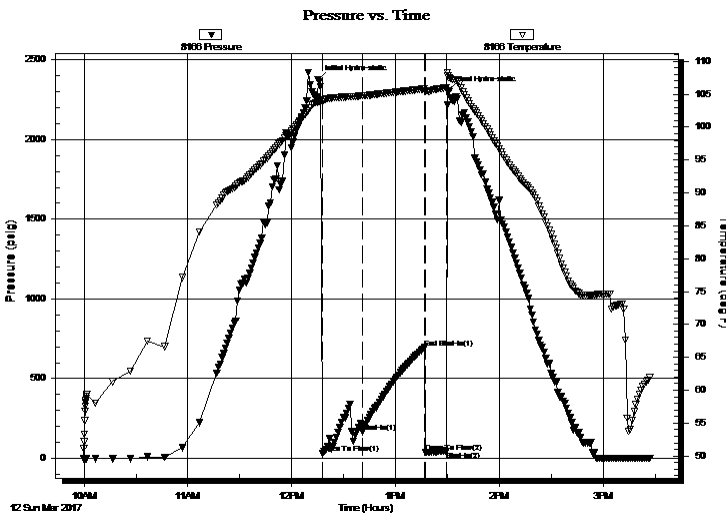
End Time: 15:26:37

Time On Btm: 2017.03.12 @ 12:15:08

Time Off Btm: 2017.03.12 @ 13:30:08

TEST COMMENT: IF: 1/2" blow built to 1" and died in 21 min.
 IS: No return.
 FF: No blow.
 FS: Pulled tool.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2374.06	103.86	Initial Hydro-static
3	29.06	103.82	Open To Flow (1)
26	166.34	104.74	Shut-In(1)
62	694.90	105.81	End Shut-In(1)
62	39.84	105.39	Open To Flow (2)
74	44.38	106.00	Shut-In(2)
75	2305.79	107.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100%m	0.07

* 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
3118 Cummings Rd
Garden City, KS 67846
ATTN: Kevin Timson

20-25s-36w Kearny,KS
Lee #3-20
Job Ticket: 65671 **DST#: 3**
Test Start: 2017.03.12 @ 09:59:38

Tool Information

Drill Pipe:	Length: 4472.00 ft	Diameter: 3.80 inches	Volume: 62.73 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: 30000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4672.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	160.00 ft			
Tool Length:	187.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4646.00	
Shut In Tool	5.00			4651.00	
Hydraulic tool	5.00			4656.00	
Jars	5.00			4661.00	
Safety Joint	2.00			4663.00	
Packer	5.00			4668.00	27.00 Bottom Of Top Packer
Packer	4.00			4672.00	
Stubb	1.00			4673.00	
Recorder	0.00	8875	Inside	4673.00	
Recorder	0.00	8166	Outside	4673.00	
Perforations	28.00			4701.00	
Change Over Sub	1.00			4702.00	
Drill Pipe	124.00			4826.00	
Change Over Sub	1.00			4827.00	
Bullnose	5.00			4832.00	160.00 Bottom Packers & Anchor

Total Tool Length: 187.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

20-25s-36w Kearny,KS

3118 Cummings Rd
Garden City, KS 67846

Lee #3-20

Job Ticket: 65671

DST#: 3

ATTN: Kevin Timson

Test Start: 2017.03.12 @ 09:59:38

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

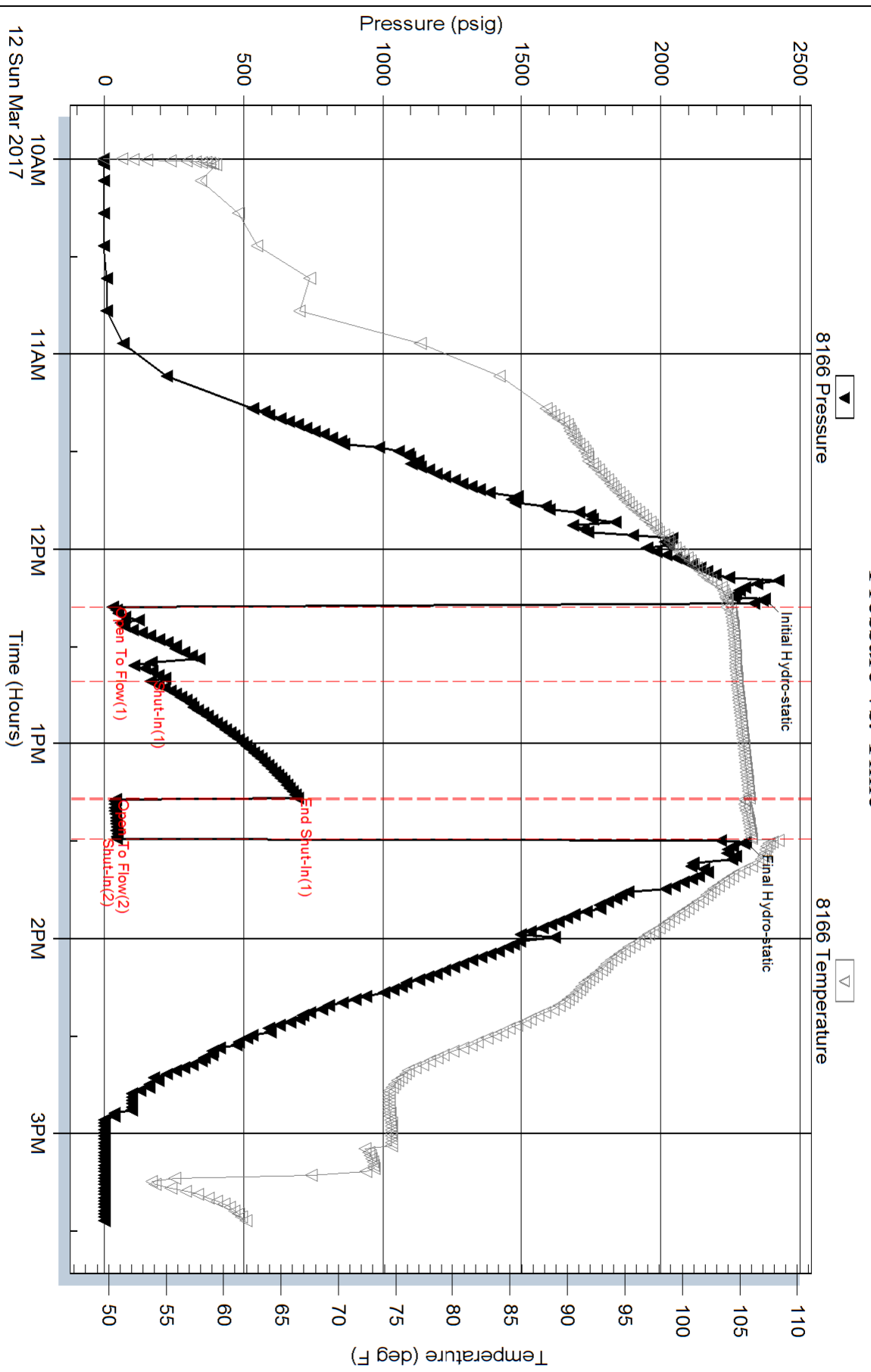
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



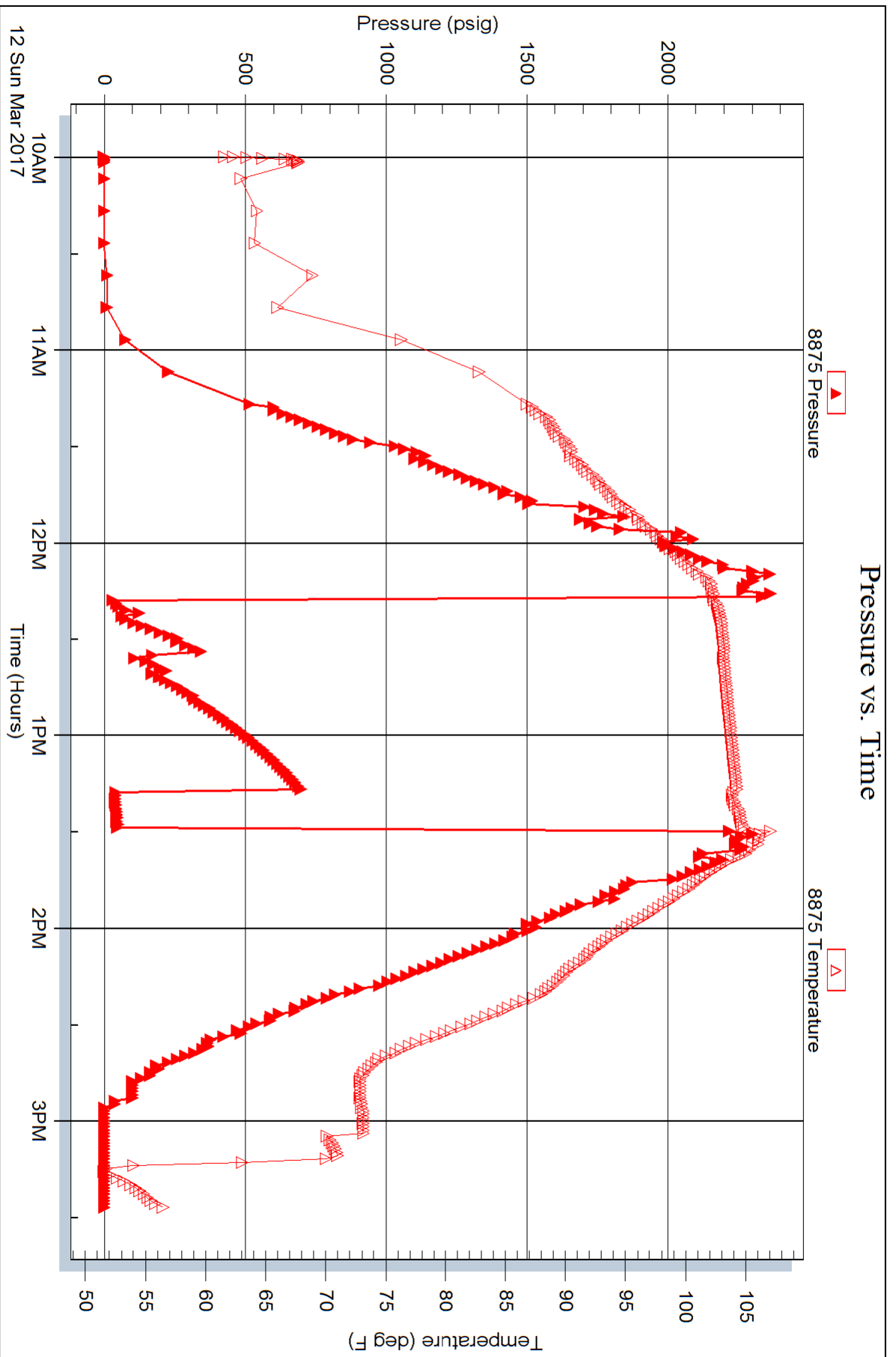
Serial #: 8875

Inside

American Warrior Inc

Lee #3-20

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65669**

Well Name & No. Lee 3-20 Test No. 1 Date 3-8-17
 Company American Warrior #NC Elevation 3077 KB 3065 GL
 Address 3118 Cummings Rd Garden city, KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke 7
 Location: Sec. 20 Twp. 25 Rge. 36 Co. KEARNY State KS

Interval Tested 4260 4304 Zone Tested Marmaton
 Anchor Length 44 Drill Pipe Run 4056 Mud Wt. 9.2
 Top Packer Depth 4255 Drill Collars Run 182 Vis 54
 Bottom Packer Depth 4260 Wt. Pipe Run WL 712
 Total Depth 4304 Chlorides 1500 ppm System LCM 3

Blow Description IF: 1/4 blow built to 8.
IS: No return.
FF: surface blow built to 7.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>155</u>	<u>wcm.</u>		<u>40</u>	<u>60</u>	
<u>248</u>	<u>mcw</u>		<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 403 BHT 111 Gravity API RW .28 @ 39 °F Chlorides 48,000 ppm

- (A) Initial Hydrostatic 2146 Test 1150
 - (B) First Initial Flow 22 Jars 250
 - (C) First Final Flow 132 Safety Joint 75
 - (D) Initial Shut-In 1184 Circ Sub NIL
 - (E) Second Initial Flow 134 Hourly Standby
 - (F) Second Final Flow 192 Mileage 138 103.50
 - (G) Final Shut-In 1167 Sampler
 - (H) Final Hydrostatic 2057 Straddle
 - Shale Packer
 - Extra Packer
 - Extra Recorder
 - Day Standby
 - Accessibility
- Sub Total 1578.50

T-On Location 21:30
 T-Started 22:49
 T-Open 1:42
 T-Pulled 4:42
 T-Out 7:10
 Comments
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1578.50
 MP/DST Disc't

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

Approved By Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65670**

Well Name & No. Lec 3-20 Test No. 2 Date 3-10-17
 Company American Warrior Inc Elevation 3077 KB 3055 GL
 Address _____
 Co. Rep / Geo. Kevin Timson Rig Duke 7
 Location: Sec. 26 Twp. 25 Rge. 36 Co. Kerny State MS

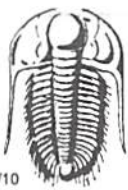
Interval Tested 4444 4534 Zone Tested Cherokee
 Anchor Length 90 Drill Pipe Run 4247 Mud Wt. 9.4
 Top Packer Depth 4439 Drill Collars Run 182 Vis 59
 Bottom Packer Depth 4444 Wt. Pipe Run — WL 9.2
 Total Depth 4534 Chlorides 2000 ppm System LCM 3
 Blow Description IF: 1/4 blow Bird 11 min
IS: No return.
FF: No blow.
FS: Pulled tool.

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

Rec Total 5 BHT 103 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2258</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>18:15</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:34</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:25</u>
(D) Initial Shut-In <u>899</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>21:35</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>00:01</u>
(F) Second Final Flow <u>31</u>	<input checked="" type="checkbox"/> Mileage <u>138</u> 103.50	Comments _____
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2231</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>10</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>pull</u>	<input type="checkbox"/> Day Standby	Total <u>1578.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1578.50</u>	

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65671**

Well Name & No. Lee 320 Test No. 3 Date 3-12-17
 Company American warrior INC Elevation 3077 KB 3065 GL
 Address _____
 Co. Rep / Geo. Kevin Timson Rig Duke 7
 Location: Sec. 20 Twp. 25 Rge. 36 Co. Kearny State KS

Interval Tested 4672 4832 Zone Tested Morrow
 Anchor Length _____ 160 Drill Pipe Run 4472 Mud Wt. 9.4
 Top Packer Depth _____ 4667 Drill Collars Run 182 Vis 58
 Bottom Packer Depth _____ 4672 Wt. Pipe Run _____ WL 7.2
 Total Depth _____ 4832 Chlorides 2300 ppm System LCM 3
 Blow Description IF: 1/2 blow built to 1 inch died in 21 min.
IS: No return.
FF: NO blow.
FS: Pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2374</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>9:30</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:59</u>
(C) First Final Flow <u>166</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:15</u>
(D) Initial Shut-In <u>694</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>13:25</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:27</u>
(F) Second Final Flow <u>44</u>	<input checked="" type="checkbox"/> Mileage <u>138-X2</u> 207	Comments <u>109606 44 12:30</u>
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	<u>3-14-17</u>
(H) Final Hydrostatic <u>2305</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>10</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>Pull</u>	<input type="checkbox"/> Day Standby _____	Total <u>1682</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1682</u>	

Approved By _____ Our Representative

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