

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

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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TICKET 031138

CHARGE TO: Arkham Warrior
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Law City KS WELL/PROJECT NO. 9-17 LEASE G AND COUNTY/PARISH Kearney CITY Lakin DATE 12-Jan-18 OWNER _____
 2. _____ TICKET TYPE SERVICE SALES CONTRACTOR _____ RIG NAME/NO. 5 DELIVERED TO location ORDER NO. _____
 3. _____ WELL TYPE o-1 WELL CATEGORY Development WELL PERMIT NO. _____ WELL LOCATION 17-25-36
 4. _____ WELL PERMIT NO. _____ WELL LOCATION _____
 INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575				MILEAGE	120	mi			5.00	600.00
576S				Pump Charge - shallow surface	1	ea			800.00	800.00
325				Standard cement	250	sk			12.25	3062.50
279				Bentonite gel	56k	/2%	1500	lb	25.00	125.00
278				Calcium chloride	110k	3%	550	lb	40.00	440.00
280				D-ATP	2	gal			42.00	84.00
581				Service charge	250	sk			1.50	375.00
				Drillage	245	lb				375.00
1583				Drillage	24550	lb	1470	TM	0.75	1102.50

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

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

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

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

SURVEY
 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?
 YES NO CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 6589.00
 TOTAL 6830.25

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

SWIFT OPERATOR Boyer APPROVAL _____

Thank You!

SMILE SERVICES INC

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

TICKET 031188

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Ness City KS
 2. _____
 3. _____
 4. _____

WELL/PROJECT NO. # 9-17
 CONTRACTOR Duke Drilling
 WELL TYPE Oil
 INVOICE INSTRUCTIONS _____

LEASE Guro
 COUNTY/PARISH Leary
 RIG NAME/NO. AS
 CITY Lakin
 STATE KS
 SHIPPED VIA CT
 DELIVERED TO Location
 WELL PERMIT NO. _____

WELL LOCATION Lakin 3s, 13/4 way 13/4s, Windo

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	AGREE	UNDECIDED	DISAGREE	SURVEY	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?	AMOUNT
		LOC	ACCT											
575		1		MILEAGE	120	mi								600.00
576 D		1		Pump Charge - Deep Surface	1	job								1250.00
403		1		Cement Basket	1	ca	8 5/8 in							325.00
400		1		Guide Shoe	1	ca	8 5/8 in							350.00
409		1		Turbolizer	3	ca	8 5/8 in							285.00
401		1		Insert Float w/ Auto Fill	1	ca	8 7/8 in							200.00
410		1		Top Plug	1	ca	8 7/8 in							120.00
194		1		Plug Container Rental	1	job	8 5/8 in							200.00

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

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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 1-15-18 TIME SIGNED A.M. P.M.

PAGE TOTAL 12
 TOTAL 901'40

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

SWIFT OPERATOR David Huchin APPROVAL Renee McQuinn

Thank You!

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102-166-5310

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MEGA CITY K20 200

6'0" BOX VEE

SMITH SERVICES, INC.

REMIT PAYMENT TO

Blind Contaminant Report

Job #100

Tracy, CA 95371

Industrial

Contaminant

Company Name

Blind Contaminant Report

Job # 115

Blind Contaminant Report

Job # 115

Blind Contaminant Report

Job # 115

Blind Contaminant Report

Job # 115

Blind Contaminant Report

Job # 115

Blind Contaminant Report

102-166-5310

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SWIFT Services, Inc.

DATE 1-14-18
PAGE NO. 1

TICKET NO. # 31188
JOB TYPE Lengthening Surface

DESCRIPTION OF OPERATION AND MATERIALS

on location
8 5/8" 23#

RTD-1795'
55-#142'
Tubo - #1 15# 30' Basket # 18

2220

Break circulation

Pump 500 gal Mud Flush
Pump 20 bbl 14L Flush

0105
5 1/2 95
mix 200 sks SMD 1/4" flo @ 11.8 ppq
mix 300 sks SMD 1/4" flo @ 12.5 ppq
mix 100 sks SMD 1/4" flo @ 13.5 ppq
mix 100 sks SMD 1/4" flo @ 14.5 ppq

Wash out Pump + Lines
Release Top Plug

0220
6 1/2 0
Start Displacement
250 L-ft Pressure
300 Circulate Cement to surface * 30 sks *
500 Max L-ft Pressure
800 Band Top Plug

Release Pressure * Float Hold *

Wash up truck

Job Complete

Thank You
Dave Pession Libby Zack

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0105	5 1/2	95						
0100	6 1/2	12						
0220	6 1/2	0						
0220	5 1/2	115						
0220	5	31						
0220	5	26						
0220	6 1/2	65						
0220	6 1/2	94						
0220	6 1/2	110						
0220	6 1/2	111.5						

WELL NO.	LEASE	JOB TYPE	TICKET NO.
# 9-17	Grand	Lengthening Surface	# 31188

CUSTOMER	CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
American Lubricator	0105	5 1/2	95						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	0						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	12						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	5 1/2	115						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	5	31						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	5	26						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	65						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	94						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	110						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	111.5						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	0						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	12						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	5 1/2	115						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	111.5						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	0						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	65						

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0220	6 1/2	94						

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0220	6 1/2	110						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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0220	5	26						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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0220	6 1/2	111.5						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	0						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	12						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	5 1/2	115						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	5	26						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	T	C	TUBING	CASING
0220	6 1/2	65						

Done before 11:00 AM
1/12/18

0312

200 200/200

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100 100/100

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American Express Inc.

1-11-18 1-5-15

1001 BIRCHWOOD TOWER

31188

Geological Report

American Warrior, Inc.

Gano #9-17

544' FSL & 1098' FEL

Sec 17, T25s, R36w

Kearny County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Gano #9-17
544' FSL & 1098' FEL
Sec. 17, T25s, R36w
Kearny County, Kansas
API # 15-093-21965-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: January 12, 2018

Completion Date: January 25, 2018

Elevation 3027' G.L.
3016' K.B.

Directions: From 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 mile West on Rd. 110 to R road – Now go 0.7 miles South to lease road – Go West 0.25 miles to ingress stake – South into

Casing: 266' 13 3/8" 48# Conductor Casing
1785' 8 5/8" 23# Surface Casing
5090' 5 1/2" 15.5# 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: Two-Trilobite Testing "Mike Roberts" &
"Brandon Turley"

Problems: none encountered

Formation Tops

Gano #9-17

Sec. 17, T25s, R36w

544' FSL & 1098' FEL

Heebner	3630 -603
Toronto	3644 -617
Lansing	3670 -643
Stark	4027 -1000
Hush	4094 -1067
BKC	4189 -1162
Marmaton	4212 -1185
Pawnee	4320 -1293
Fort Scott	4350 -1323
Cherokee	4360 -1333
Morrow	4660 -1633
St. Gen	4834 -1807
LTD	5098 -2071

Sample Zone Descriptions

Lansing A (3680' -653): Covered in DST #1

Limestone, cream, sub to fine crystalline, slightly chalky, occasional recrystallized/sucrosic, occasional Chert, white, scattered pinpoint vuggy and inter crystalline porosity, good odor, fair stain and saturation, good scattered gold fluorescence, fair slow stream cut. Gas 40 units hotwire.

Morrow Sand (4790' -1763): Covered in DST #2

Sandstone, gray, fine grained, sub-round, well sorted, fair to poor cement, glauconitic, occasional pyrite, occasionally slightly dirty, scattered fair inter-crystalline porosity, fair fleeting odor, oil skim in cup, oil scum on sides of cup, fair stain, good saturation, good to excellent show of free oil when broke, fair spotty gold/green fluorescence, fair slow stream cut. Gas 50-140 units hotwire.

Drill Stem Tests

Trilobite Testing
"Mike Roberts"

DST #1 Lansing A

Interval (3668' – 3700') Anchor Length 32'

IHP - 1713 #

IFP - 30" – built to 8"

ISI - 30" – no return

FFP - 45" – BOB 35 min

FSIP - 45" – no return

FHP - 1698 #

BHT - 101° F

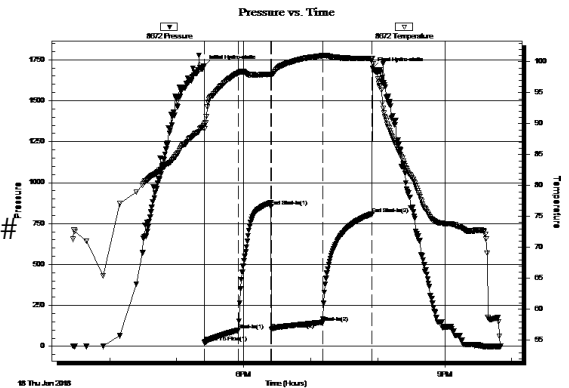
Recovery: 124' GIP
20' CO
188' OCWM 10% O
126' MCW

23-98#

853#

104-147#

810#



Trilobite Testing
"Brandon Turley"

DST #2 Morrow Sand

Interval (4736' – 4850') Anchor Length 114'

IHP - 2521 #

IFP - 45" – built to 3"

ISI - 45" – no return

FFP - 45" – built to 6"

FSIP - 45" – no return

FHP - 2488 #

BHT - 115° F

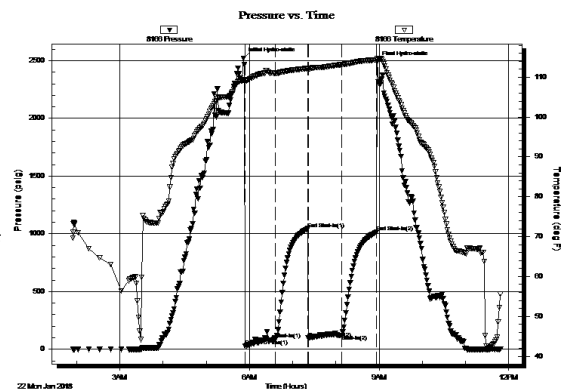
Recovery: 116' OCM 15% O
116' OCM 10% O

26-86#

1044#

90-123#

1014#



Structural Comparison

	American Warrior, Inc. Gano #9-17 Sec. 17, T25s, R36w 544' FSL & 1098' FEL		American Warrior, Inc. Gano #8-17 Sec. 17, T25s, R36w 755' FSL & 2347' FEL		Merit Energy Corp. Lee #20-1 Sec. 20, T25s, R36w 4950' FSL & 660' FEL			
<u>Formation</u>								
Heebner	3630	-603	-11	3626	-592	-5	3656	-598
Lansing	3670	-643	-7	3670	-636	-3	3698	-640
Stark	4027	-1000	-20	4014	-980	0	4058	-1000
BKC	4189	-1162	-15	4181	-1147	4	4224	-1166
Marmaton	4212	-1185	-18	4201	-1167	5	4248	-1190
Pawnee	4320	-1293	-21	4306	-1272	-3	4348	-1290
Fort Scott	4350	-1323	-19	4338	-1304	-3	4378	-1320
Cherokee	4360	-1333	-17	4350	-1316	-3	4388	-1330
Morrow	4660	-1633	-21	4646	-1612	-1	4690	-1632
Miss	4834	-1807	-49	4792	-1758	-19	4846	-1788

Summary

The location for the Gano #9-17 well was found via 3-D seismic survey. The new well ran structurally as expected. Two 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 ½" casing to further evaluate the Gano #9-17 well.

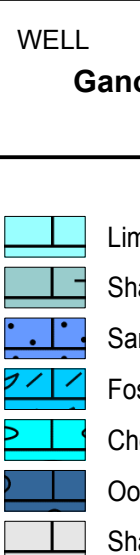
Perforations

Primary:	Morrow Sand	(4808' – 4818')	DST #2
	Morrow Sand	(4790' – 4808')	DST #2
Secondary:	Lansing A	(3671' – 3677')	DST #1

BFA:	Lansing E	(3790' – 3795')	Not tested
	St. Louis C	(4922' – 4930')	Not tested

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.



American Warrior, Inc.

Luke Thompson - Geologist
 3118 Cummings Rd
 Garden City, KS 67846
 (785) 493-1254 cell
 (620) 275-5067 office

WELL: **Gano #9-17**
 API #: **15-093-21965-00-00**

LOCATION: **Kearny County, KS**
544' FSL & 1098' FEL
17-25s-36w

Elevation
KB: 3027'
GL: 3016'
Measurements from KB

Lithology Key			
	Limestone		Shale
	Shaley Limestone		Silty Shale
	Sandy Limestone		Siltstone
	Fossil Limestone		Shaley Sandstone
	Cherty Limestone		Sandstone
	Oolitic Limestone		Chert
	Shale Interbed		Dolomite
	Limestone Interbed		Cherty Dolomite
	Black Shale		CFS

Curve Data:

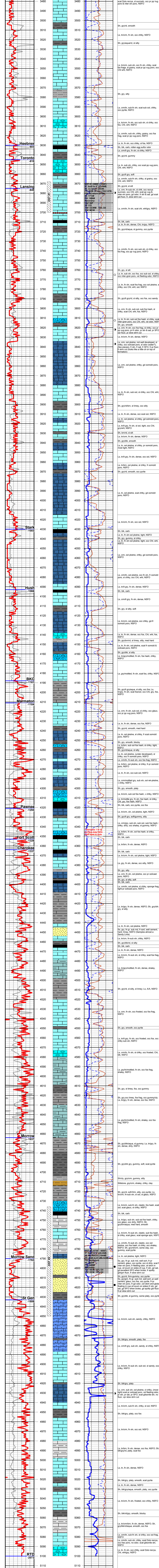
Left Column:
ROP (min/foot)
Gamma Ray
Right Column:
Ses (units)
Density Porosity
Neutron Porosity

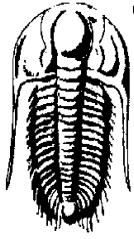
Geologist: Luke Thompson (American Warrior, Inc.)
 Drilling Contractor: Duke Rig #5
 Drilling time from: 3400' - TD
 Samples from: 3450' - RTD
 Geological Supervision from: 3500' - TD
 Correlating Log: Gano #8-17 (17-25s-36w)
 Conductor Casing: 26" 13 3/8" 48#
 Surface Casing: 1785' 8 5/8" 23#
 Production Casing: 5095' 5 1/2" 15 5#
 RTD: 5100'
 LTD: 5098'

Formation	Top	Log	Datum	Top	Sample	Datum	Correlating Well Structural Comparison
Heebner	3630	-603	3630	-603	-11		
Toronto	3644	-617	3645	-618	-10		
Lansing	3670	-643	3675	-648	-7		
Stark	4027	-1000	4030	-1003	-20		
Hush	4094	-1067	4093	-1066	-25		
BKC	4189	-1162	4188	-1161	-15		
Marmaton	4212	-1185	4211	-1184	-18		
Pawnee	4320	-1293	4321	-1294	-21		
Fort Scott	4350	-1323	4363	-1326	-19		
Cherokee	4360	-1333	4364	-1337	-17		
Morrow	4660	-1633	4664	-1637	-21		
Mrrw SD	4791	-1764	4790	-1763	-26		
St. Gen	4834	-1807	4833	-1806	-49		
TD	5098	-2071	5100	-2073			

Status:

Conclusion: The location for the Gano #9-17 was found via 3-D seismic survey. The well was low to the Heebner #9-17 as expected. Two DST's were conducted, one of which recovered commercial quantities of oil from the Morrow Sand. The decision was made to run 5 1/2" production casing to further evaluate the Gano #9-17.





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny Co, KS

P.O. Box 299
Garden City KS
67846
ATTN: Luke Thompson

Gano 9-17

Job Ticket: 64413

DST#: 1

Test Start: 2018.01.18 @ 15:27:15

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:25:00

Time Test Ended: 21:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 3668.00 ft (KB) To 3700.00 ft (KB) (TVD)

Reference Elevations: 3027.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

3017.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: 146.84 psig @ 3669.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.18 End Date: 2018.01.18

Last Calib.: 2018.01.18

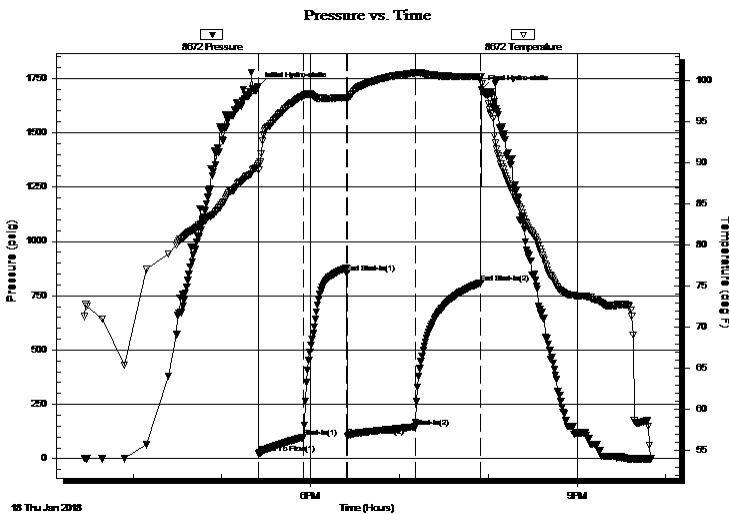
Start Time: 15:27:15 End Time: 21:50:15

Time On Btm: 2018.01.18 @ 17:24:45

Time Off Btm: 2018.01.18 @ 19:55:30

TEST COMMENT: IF: Built to 8" blow
IS: No return blow
FF: BOB in 35 min.
FS: No return blow

PRESSURE SUMMARY



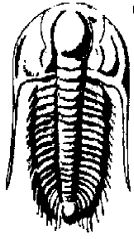
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.75	89.94	Initial Hydro-static
1	23.22	89.22	Open To Flow (1)
31	98.39	98.25	Shut-In(1)
60	853.28	97.95	End Shut-In(1)
60	104.34	97.77	Open To Flow (2)
106	146.84	101.00	Shut-In(2)
151	809.63	100.56	End Shut-In(2)
151	1698.15	100.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 5% m 95% w	0.62
188.00	ocw m 10% o 10% w 80% m	1.67
20.00	free oil 100% o	0.28
0.00	124 ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25s-36w Kearny Co, KS

P.O. Box 299
Garden City KS
67846

Gano 9-17

Job Ticket: 64413

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.01.18 @ 15:27:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 960.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	mcw 5%m 95%w	0.620
188.00	ocw m 10%o 10% w 80%m	1.672
20.00	free oil 100%o	0.281
0.00	124 ft GIP	0.000

Total Length: 334.00 ft Total Volume: 2.573 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

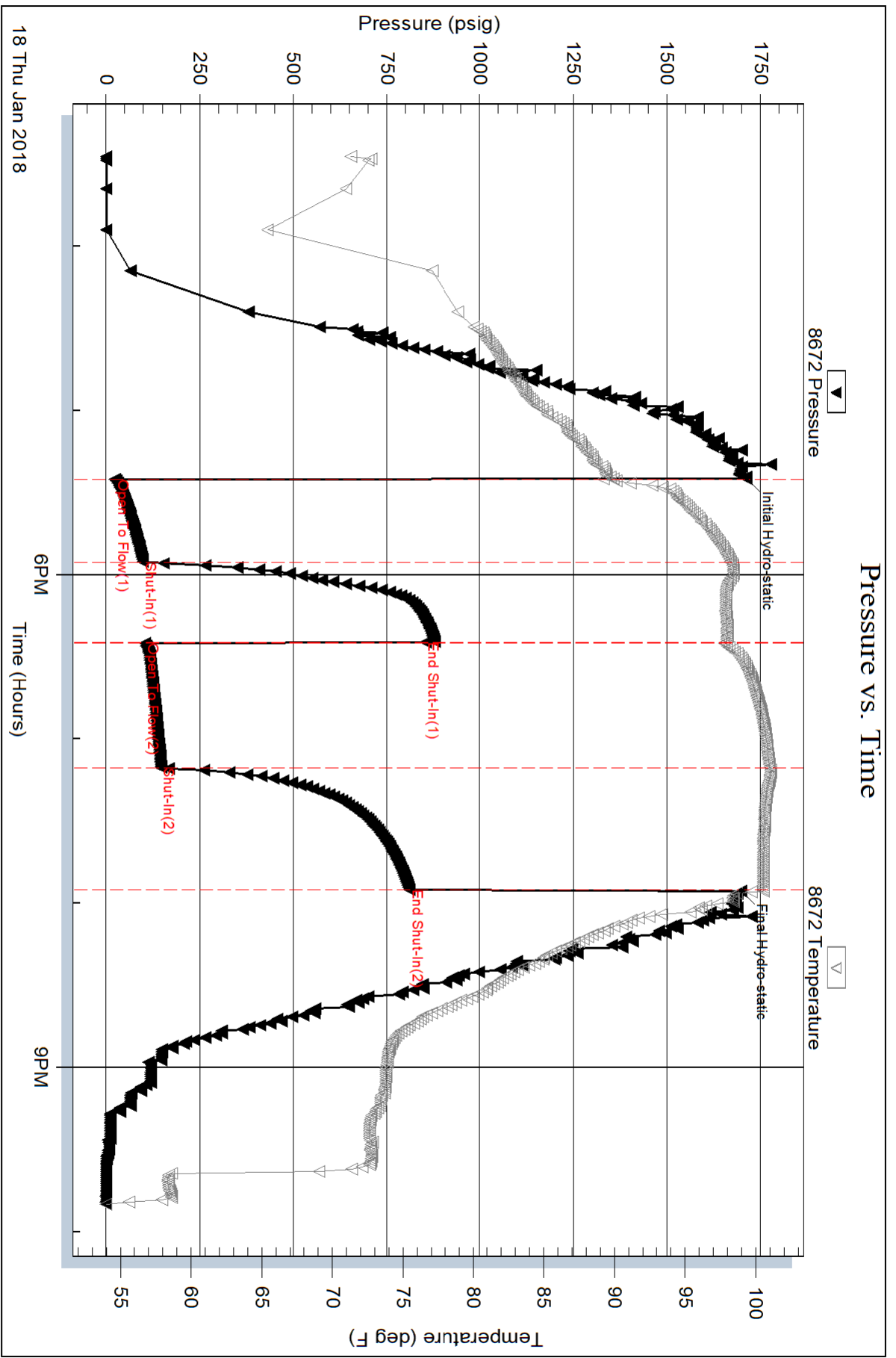
Serial #:

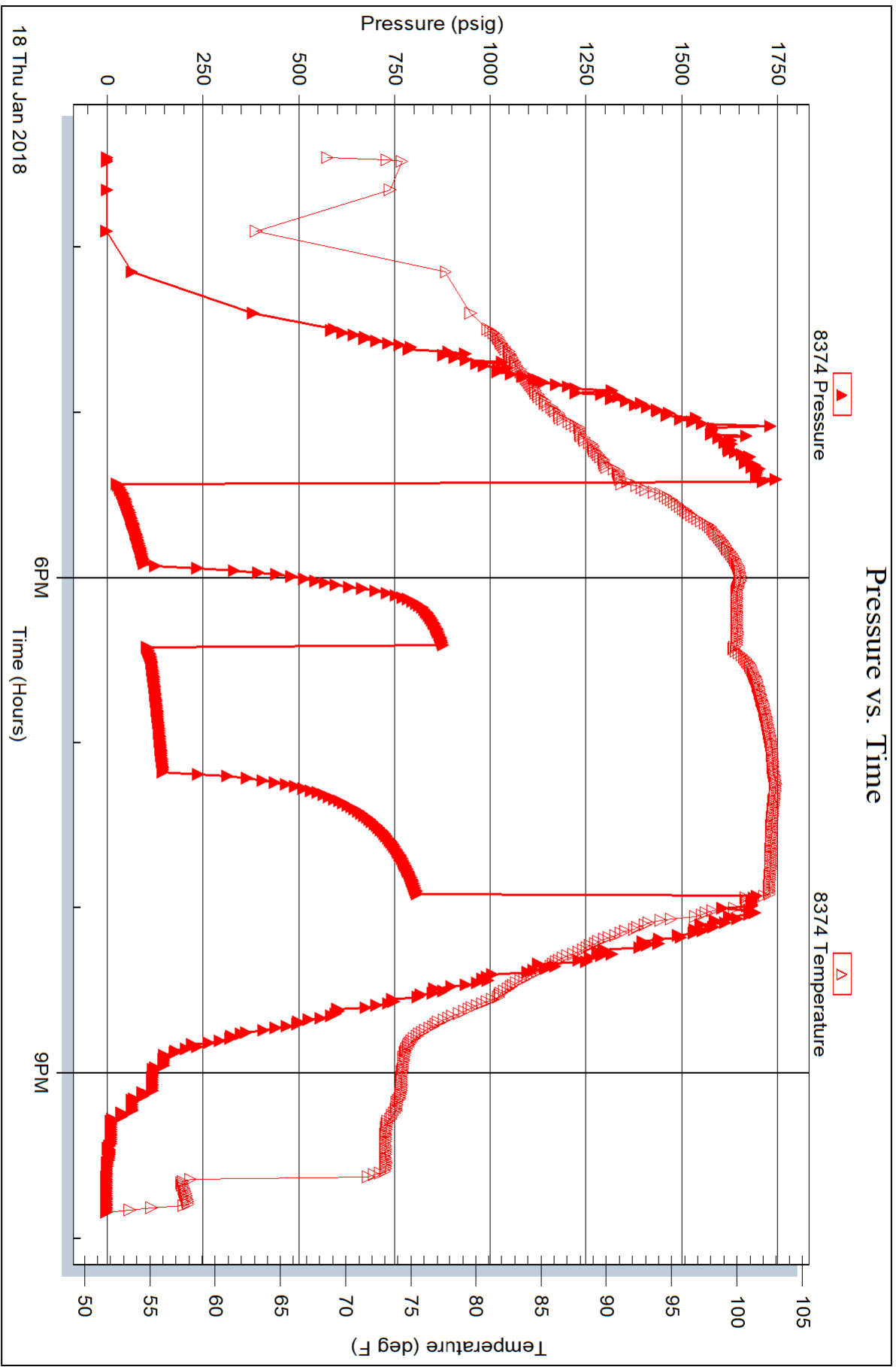
Laboratory Name:

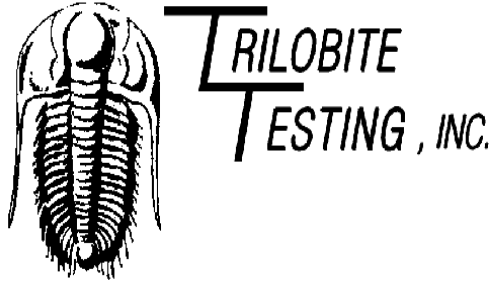
Laboratory Location:

Recovery Comments: RW= .547@ 38.2= 28,000 ppm

API= 29 @ 60 corrected to 29 @ 60







DRILL STEM TEST REPORT

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

PO Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #9-17

17-25s-36w Kearny,KS

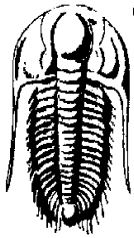
Start Date: 2018.01.18 @ 15:27:15

End Date: 2018.01.18 @ 21:50:15

Job Ticket #: 64413 DST #: 1

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

Printed: 2018.01.23 @ 15:34:02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 299
Garden City KS 67846

Gano #9-17

Job Ticket: 64413

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.01.18 @ 15:27:15

GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:25:00

Time Test Ended: 21:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 3668.00 ft (KB) To 3700.00 ft (KB) (TVD)

Reference Elevations: 3027.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

3017.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: 146.84 psig @ 3669.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.18

End Date: 2018.01.18

Last Calib.: 2018.01.18

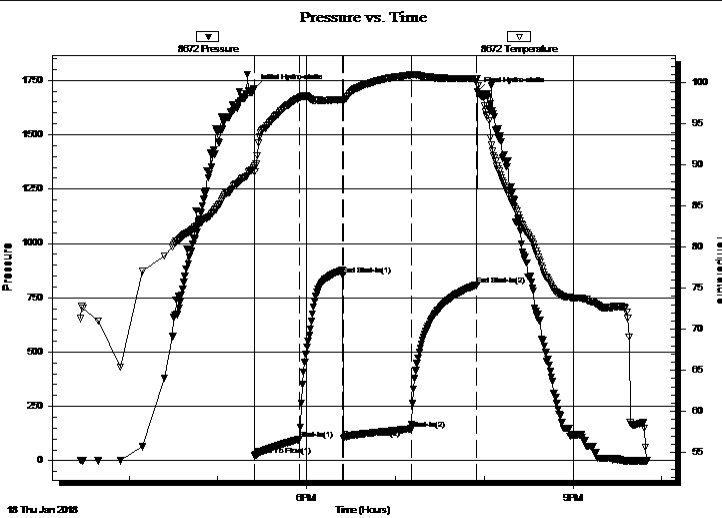
Start Time: 15:27:15

End Time: 21:50:15

Time On Btm: 2018.01.18 @ 17:24:45

Time Off Btm: 2018.01.18 @ 19:55:30

TEST COMMENT: IF: Built to 8" blow
IS: No return blow
FF: BOB in 35 min.
FS: No return blow



PRESSURE SUMMARY

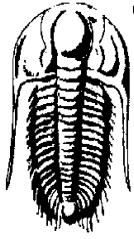
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.75	89.94	Initial Hydro-static
1	23.22	89.22	Open To Flow (1)
31	98.39	98.25	Shut-In(1)
60	853.28	97.95	End Shut-In(1)
60	104.34	97.77	Open To Flow (2)
106	146.84	101.00	Shut-In(2)
151	809.63	100.56	End Shut-In(2)
151	1698.15	100.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 5% m 95% w	0.62
188.00	ocw m 10% o 10% w 80% m	1.67
20.00	free oil 100% o	0.28
0.00	124 ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 299
Garden City KS 67846

Gano #9-17

Job Ticket: 64413

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.01.18 @ 15:27:15

Tool Information

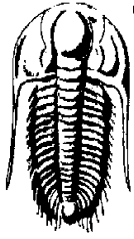
Drill Pipe:	Length: 3428.00 ft	Diameter: 3.80 inches	Volume: 48.09 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 232.00 ft	Diameter: 2.25 inches	Volume: 1.14 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 49.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3668.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 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			3641.00	
Shut In Tool	5.00			3646.00	
Hydraulic tool	5.00			3651.00	
Jars	5.00			3656.00	
Safety Joint	3.00			3659.00	
Packer	5.00			3664.00	28.00 Bottom Of Top Packer
Packer	4.00			3668.00	
Stubb	1.00			3669.00	
Recorder	0.00	8672	Inside	3669.00	
Recorder	0.00	8374	Outside	3669.00	
Perforations	26.00			3695.00	
Bullnose	5.00			3700.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 299
Garden City KS 67846

Gano #9-17

Job Ticket: 64413

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.01.18 @ 15:27:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 29 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 28000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.78 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 960.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

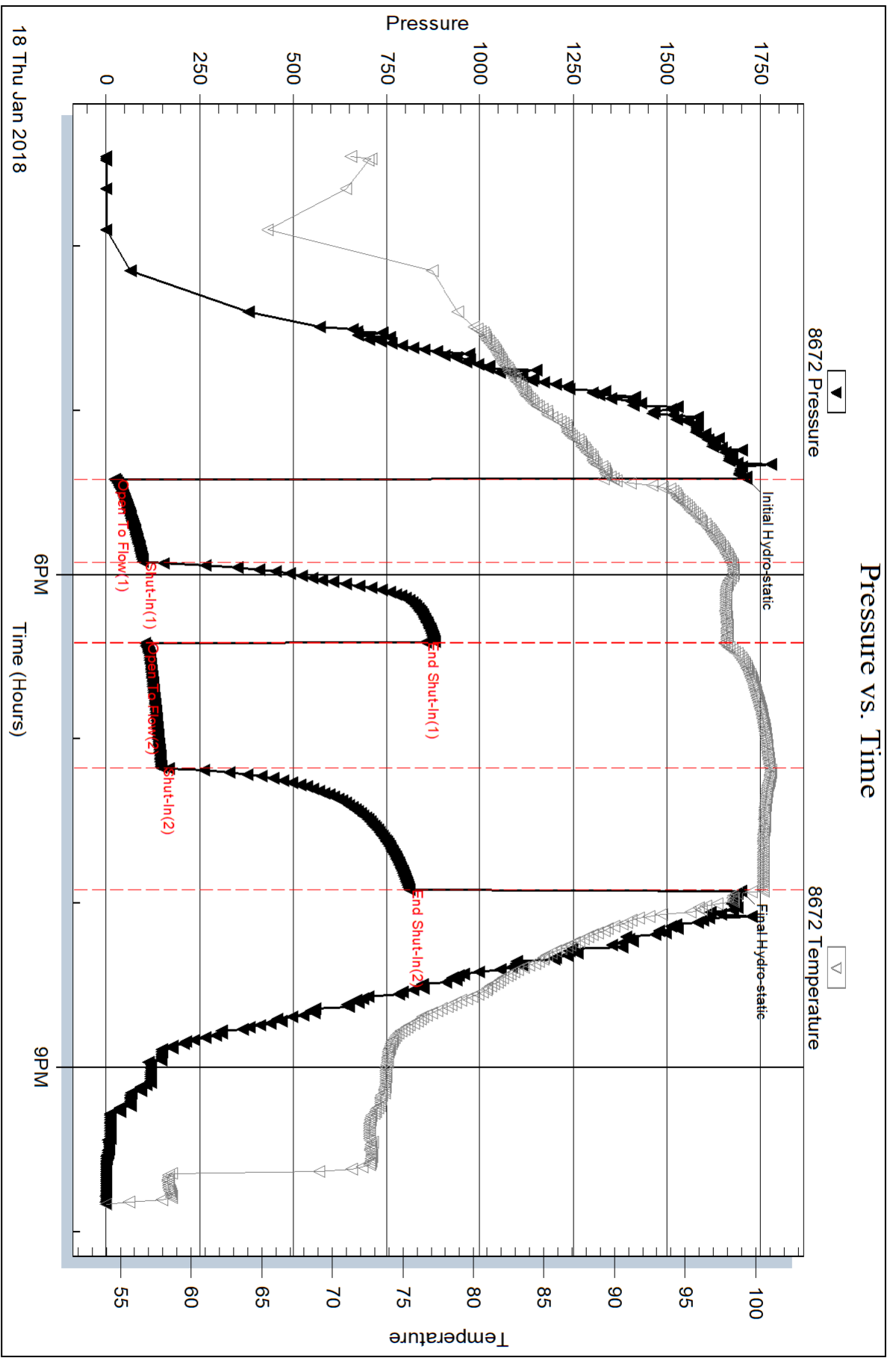
Length ft	Description	Volume bbl
126.00	mcw 5%m 95%w	0.620
188.00	ocw m 10%o 10% w 80%m	1.672
20.00	free oil 100%o	0.281
0.00	124 ft GIP	0.000

Total Length: 334.00 ft Total Volume: 2.573 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .547@ 38.2= 28,000 ppm
API= 29 @ 60 corrected to 29 @ 60

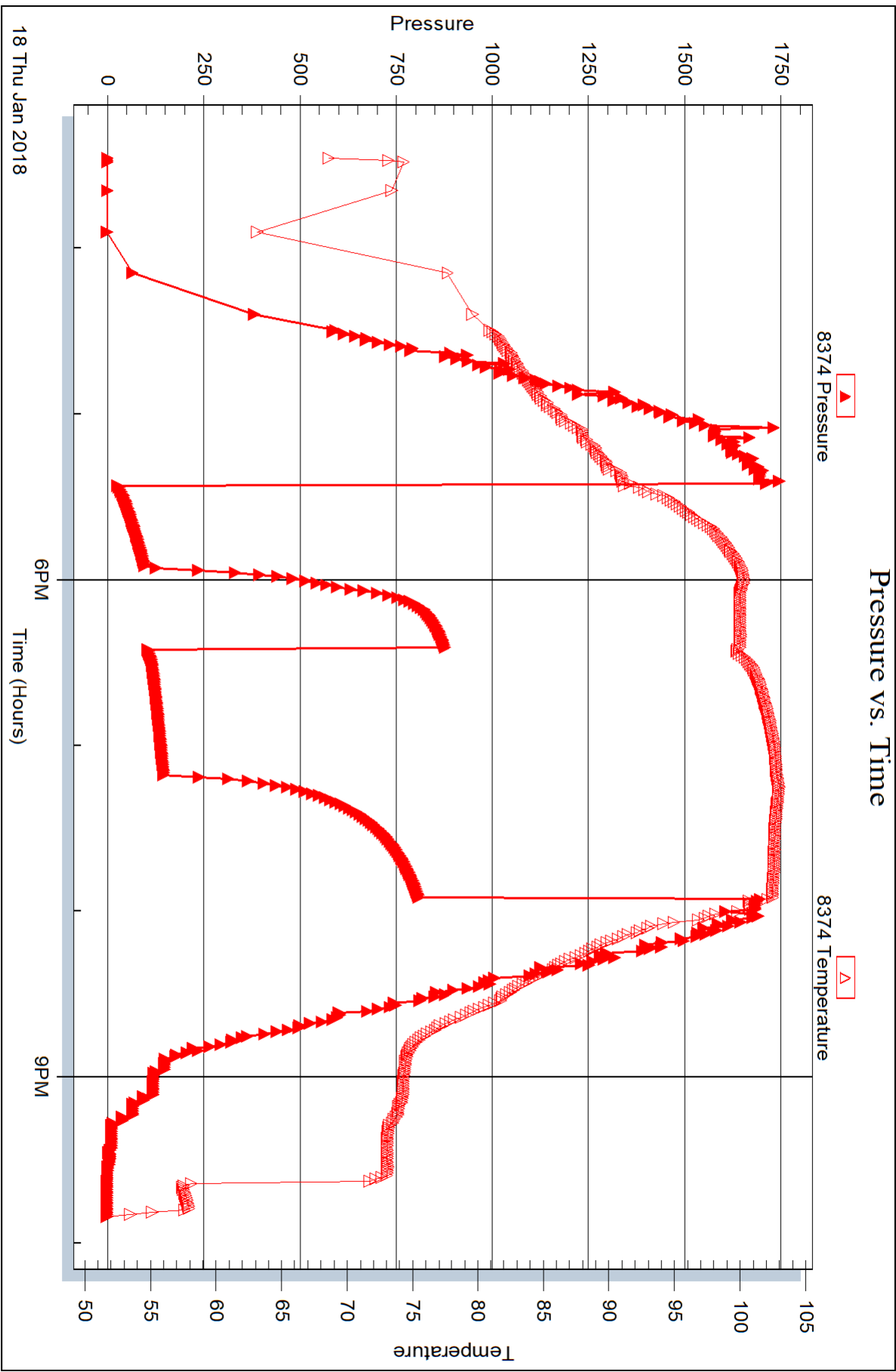


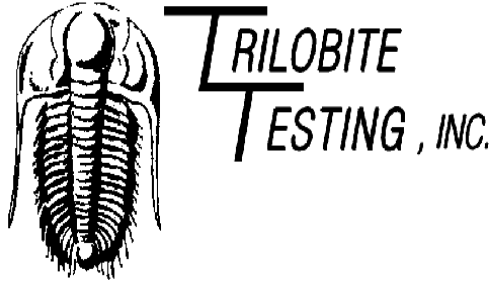
Serial #: 8374

Outside American Warrior, Inc.

Gano #9-17

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #9-17

17-25s-36w Kearny,KS

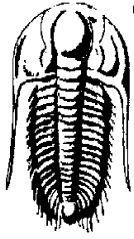
Start Date: 2018.01.22 @ 01:55:00

End Date: 2018.01.22 @ 11:49:00

Job Ticket #: 64291 DST #: 2

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

Printed: 2018.01.23 @ 15:32:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 299
Garden City KS 67846

Gano #9-17

Job Ticket: 64291

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.01.22 @ 01:55:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:54:00

Time Test Ended: 11:49:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 70

Interval: 4736.00 ft (KB) To 4850.00 ft (KB) (TVD)

Reference Elevations: 3027.00 ft (KB)

Total Depth: 4850.00 ft (KB) (TVD)

3017.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8166

Inside

Press@RunDepth: 122.50 psig @ 4737.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.22

End Date:

2018.01.22

Last Calib.:

2018.01.22

Start Time: 01:55:05

End Time:

11:49:00

Time On Btm:

2018.01.22 @ 05:51:30

Time Off Btm:

2018.01.22 @ 08:57:30

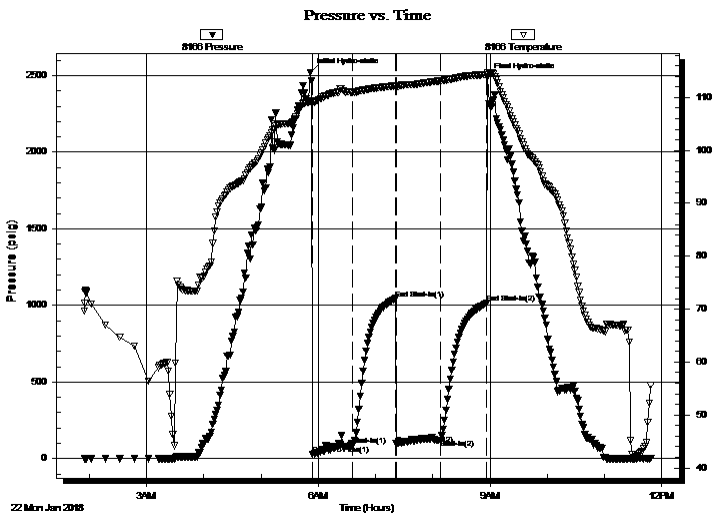
TEST COMMENT: IF: 1/4 blow built to 3"

IS: No return.

FF: Surface blow built to 6"

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2520.85	109.20	Initial Hydro-static
3	26.38	108.92	Open To Flow (1)
45	85.82	110.97	Shut-In(1)
90	1044.49	112.21	End Shut-In(1)
91	90.47	112.10	Open To Flow (2)
137	122.50	113.15	Shut-In(2)
185	1014.04	114.32	End Shut-In(2)
186	2488.34	114.72	Final Hydro-static

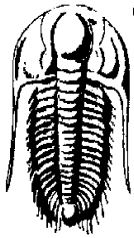
Recovery

Length (ft)	Description	Volume (bbl)
116.00	ocm 15%o 85%m	0.57
116.00	ocm 10%o 90%m	0.57

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 299
Garden City KS 67846

Gano #9-17

Job Ticket: 64291

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.01.22 @ 01:55:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:54:00

Time Test Ended: 11:49:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 70

Interval: 4736.00 ft (KB) To 4850.00 ft (KB) (TVD)

Reference Elevations: 3027.00 ft (KB)

Total Depth: 4850.00 ft (KB) (TVD)

3017.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6651 Outside

Press@RunDepth: psig @ 4737.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.22 End Date: 2018.01.22

Last Calib.: 2018.01.22

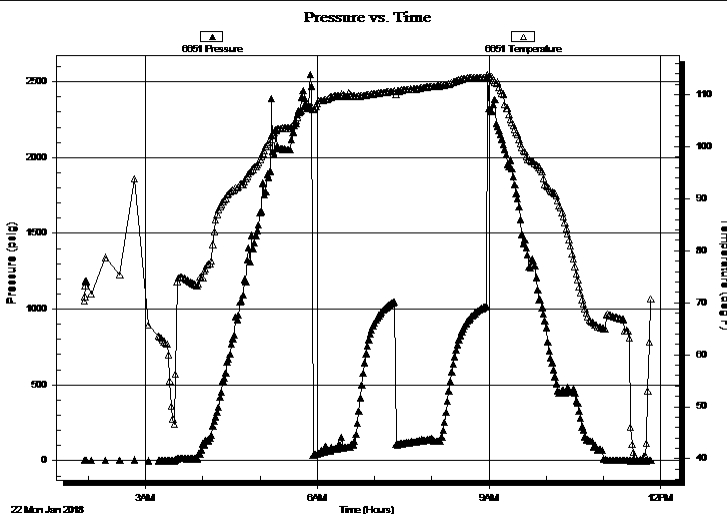
Start Time: 01:56:04 End Time: 11:49:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4 blow built to 3"
IS: No return.
FF: Surface blow built to 6"
FS: No return.

PRESSURE SUMMARY



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

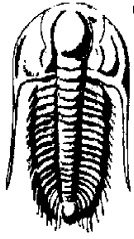
Recovery

Length (ft)	Description	Volume (bbl)
116.00	ocm 15%o 85%m	0.57
116.00	ocm 10%o 90%m	0.57

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 299
Garden City KS 67846

Gano #9-17

Job Ticket: 64291

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.01.22 @ 01:55:00

Tool Information

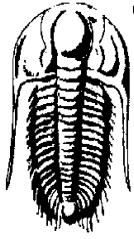
Drill Pipe:	Length: 4499.00 ft	Diameter: 3.80 inches	Volume: 63.11 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 232.00 ft	Diameter: 2.25 inches	Volume: 1.14 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 64.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4736.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	114.00 ft			
Tool Length:	142.00 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			4709.00	
Shut In Tool	5.00			4714.00	
Hydraulic tool	5.00			4719.00	
Jars	5.00			4724.00	
Safety Joint	3.00			4727.00	
Packer	5.00			4732.00	28.00 Bottom Of Top Packer
Packer	4.00			4736.00	
Stubb	1.00			4737.00	
Recorder	0.00	8166	Inside	4737.00	
Recorder	0.00	6651	Outside	4737.00	
Perforations	15.00			4752.00	
Change Over Sub	1.00			4753.00	
Drill Pipe	93.00			4846.00	
Change Over Sub	1.00			4847.00	
Bullnose	3.00			4850.00	114.00 Bottom Packers & Anchor

Total Tool Length: 142.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 299
Garden City KS 67846

Gano #9-17

Job Ticket: 64291

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.01.22 @ 01:55:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 350.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
116.00	ocm 15%o 85%m	0.570
116.00	ocm 10%o 90%m	0.570

Total Length: 232.00 ft Total Volume: 1.140 bbl

Num Fluid Samples: 0

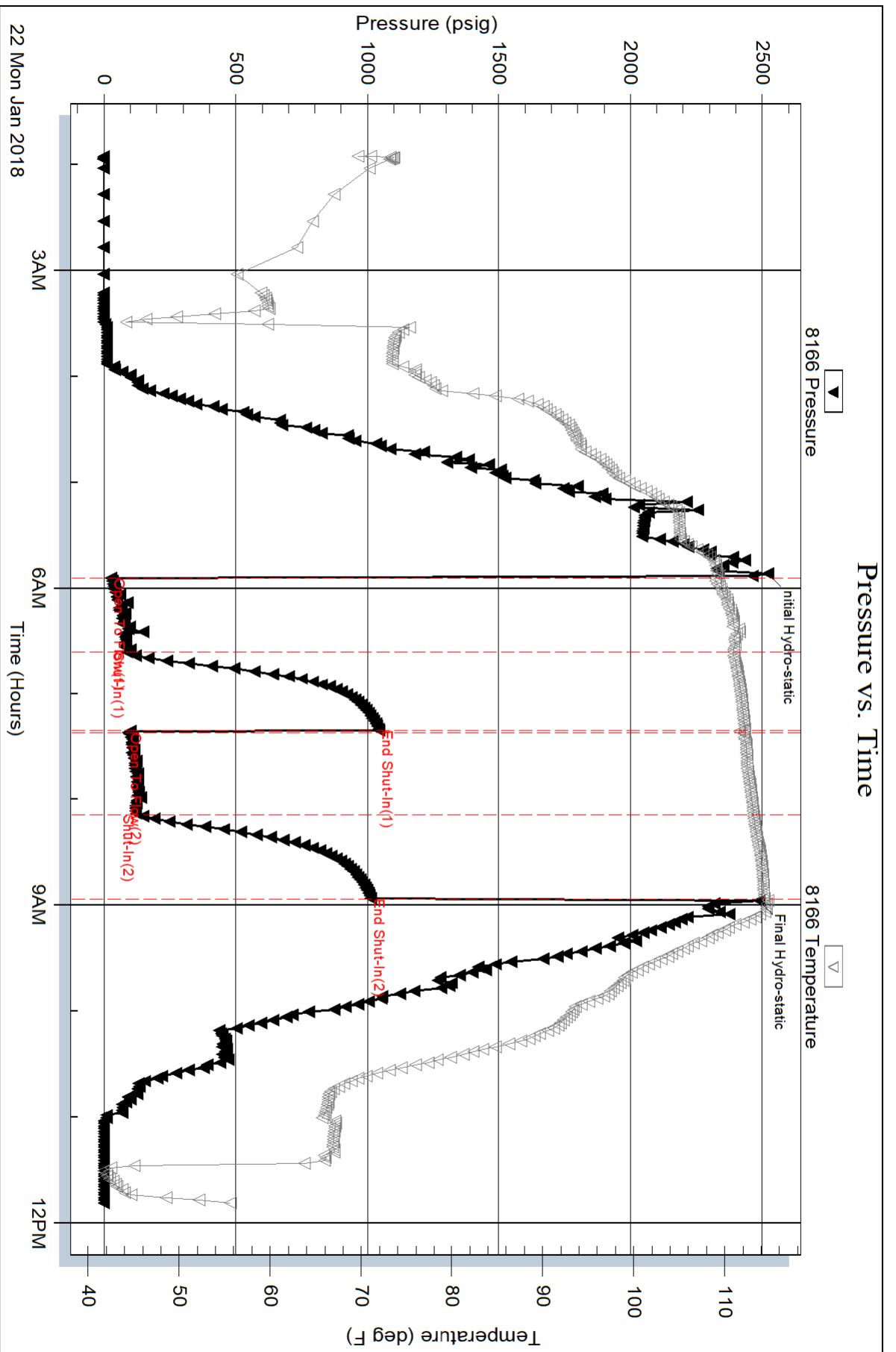
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

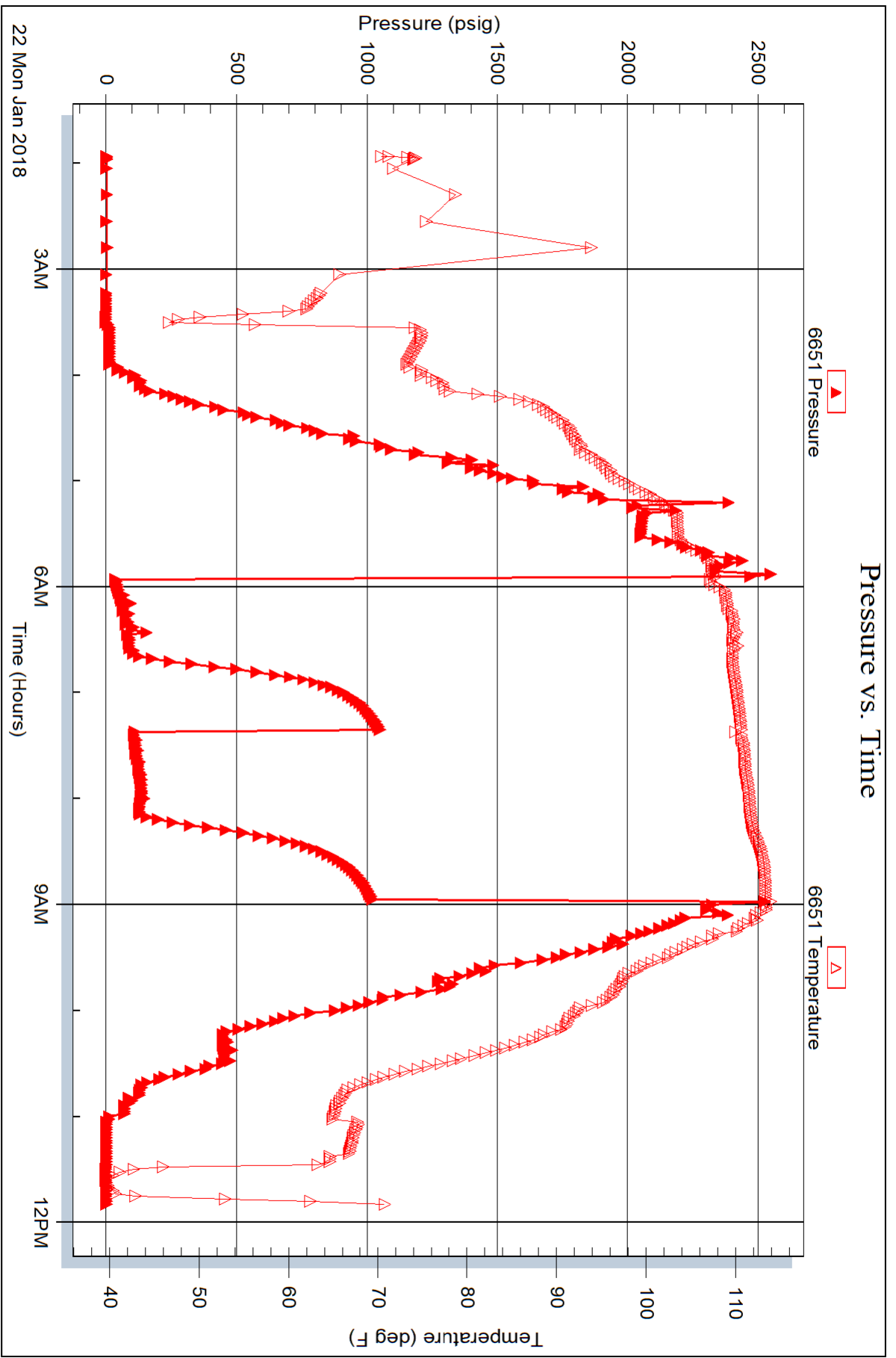


Serial #: 6651

Outside American Warrior, Inc.

Gano #9-17

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64413**

Well Name & No. American Gano. #9-17 Test No. 1 Date 1-18-18
 Company American Warrior Inc Elevation 3027 KB 3017 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 255 Rge. 36w Co. Kearny State KS

Interval Tested 3668-3700 Zone Tested Lansing A
 Anchor Length 32 Drill Pipe Run 3428 Mud Wt. 8.7
 Top Packer Depth 3463 Drill Collars Run 232 Vis 60
 Bottom Packer Depth 3668 Wt. Pipe Run Ø WL 6.8
 Total Depth 3700 Chlorides 960 ppm System LCM 2
 Blow Description IF: Boil 4 to 8"
IS: NO Return Blow
FF: BOB in 35 Min.
FS: NO Return Blow

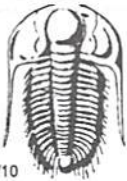
Rec	Feet of	%gas	%oil	%water	%mud
120	GIP 124	100			
20	Free Oil		100		
180	OCWM		10	10	80
126	MCW			95	5

Rec Total 334 BHT 101 Gravity 29 API RW .547 @ 38.4° F Chlorides 28000 ppm

(A) Initial Hydrostatic 1712 Test 1050 T-On Location 13:32
 (B) First Initial Flow 23 Jars 250 T-Started 15:27
 (C) First Final Flow 98 Safety Joint 75 T-Open 17:25
 (D) Initial Shut-In 853 Circ Sub NC T-Pulled 19:55
 (E) Second Initial Flow 104 Hourly Standby T-Out 21:50
 (F) Second Final Flow 146 Mileage 130 RT = 97.5% Comments _____
 (G) Final Shut-In 806 Sampler _____
 (H) Final Hydrostatic 1698 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1472.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1472.50

Approved By _____ Our Representative Mike Roberts

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. **64291**

Well Name & No. Gano 9-17 Test No. 2 Date 1-22-18
 Company American Warrior Elevation 3027 KB 3017 GL
 Address _____
 Co. Rep / Geo. Luke Rig Duke 5
 Location: Sec. 17 Twp. 25S Rge. 36W Co. Kerny State KS

Interval Tested 4736 4850 Zone Tested Morrow
 Anchor Length _____ Drill Pipe Run 4499 Mud Wt. 9.4
 Top Packer Depth _____ Drill Collars Run 252 Vis 55
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 7.6
 Total Depth 4850 Chlorides 350 ppm System LCM 2
 Blow Description IF: 1/4 blow built to 3.
IS: NO return.
FF: Surface blow built to 6.
FS: No return.

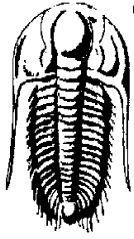
Rec	Feet of	%gas	%oil	%water	%mud
<u>116</u>	<u>ocm</u>	<u>10</u>		<u>90</u>	
<u>116</u>	<u>ocm</u>	<u>15</u>		<u>85</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 232 BHT 114 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2520</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>00:00</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1:55</u>
(C) First Final Flow <u>85</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>5:54</u>
(D) Initial Shut-In <u>1044</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>8:54</u>
(E) Second Initial Flow <u>90</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2</u>	T-Out <u>12:00</u>
(F) Second Final Flow <u>122</u>	<input checked="" type="checkbox"/> Mileage <u>130 x 2</u> 195	Comments _____
(G) Final Shut-In <u>1014</u>	<input type="checkbox"/> Sampler _____	<u>loaded tools 1/23 10:30</u>
(H) Final Hydrostatic <u>2488</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Day Standby _____	Total <u>1670</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1670</u>	

Approved By _____ Our Representative

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.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25s-36w Kearny, KS

PO Box 299
Garden City KS 67846

Gano #9-17

Job Ticket: 64291

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.01.22 @ 01:55:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:54:00

Time Test Ended: 11:49:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 70

Interval: 4736.00 ft (KB) To 4850.00 ft (KB) (TVD)

Reference Elevations: 3027.00 ft (KB)

Total Depth: 4850.00 ft (KB) (TVD)

3017.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8166

Inside

Press@RunDepth: 122.50 psig @ 4737.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.22

End Date:

2018.01.22

Last Calib.:

2018.01.22

Start Time: 01:55:05

End Time:

11:49:00

Time On Btm:

2018.01.22 @ 05:51:30

Time Off Btm:

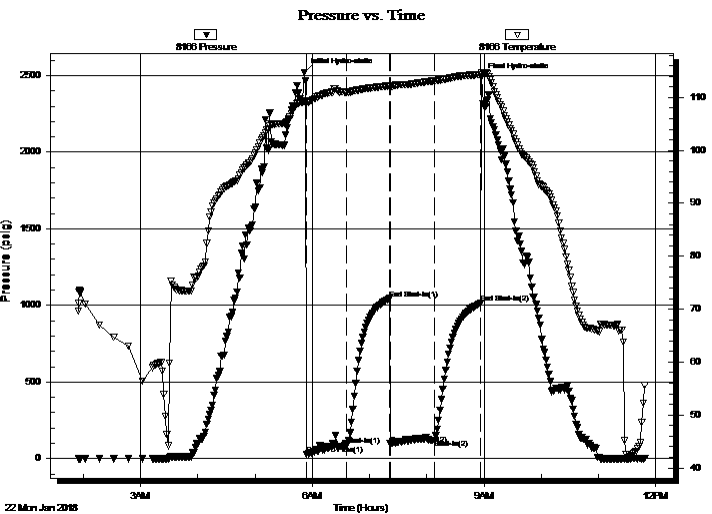
2018.01.22 @ 08:57:30

TEST COMMENT: IF: 1/4 blow built to 3"

IS: No return.

FF: Surface blow built to 6"

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2520.85	109.20	Initial Hydro-static
3	26.38	108.92	Open To Flow (1)
45	85.82	110.97	Shut-In(1)
90	1044.49	112.21	End Shut-In(1)
91	90.47	112.10	Open To Flow (2)
137	122.50	113.15	Shut-In(2)
185	1014.04	114.32	End Shut-In(2)
186	2488.34	114.72	Final Hydro-static

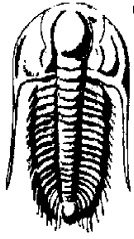
Recovery

Length (ft)	Description	Volume (bbl)
116.00	ocm 15%o 85%m	0.57
116.00	ocm 10%o 90%m	0.57

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25s-36w Kearny,KS

PO Box 299
Garden City KS 67846

Gano #9-17

Job Ticket: 64291

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.01.22 @ 01:55:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 350.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
116.00	ocm 15%o 85%m	0.570
116.00	ocm 10%o 90%m	0.570

Total Length: 232.00 ft Total Volume: 1.140 bbl

Num Fluid Samples: 0

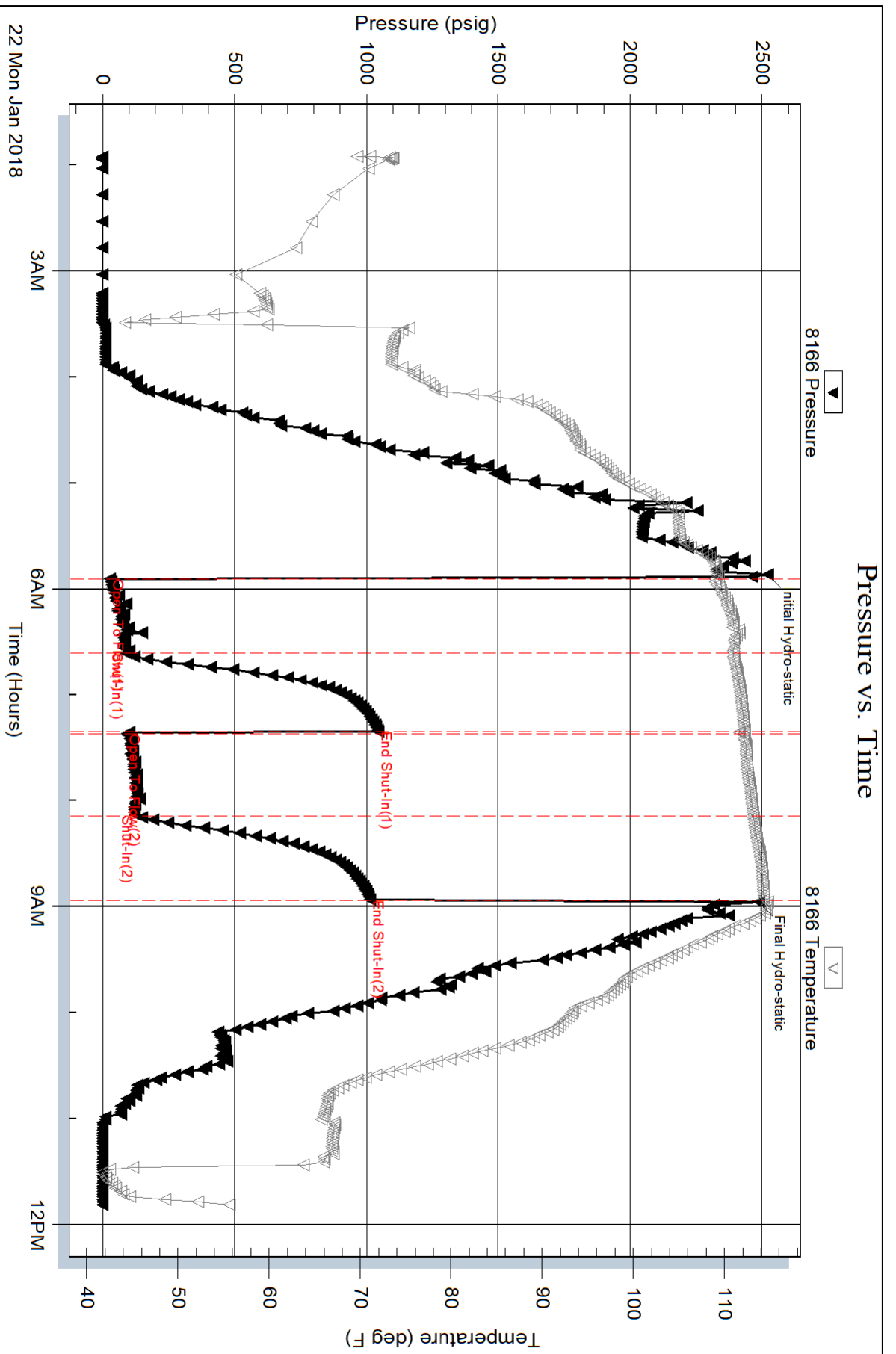
Num Gas Bombs: 0

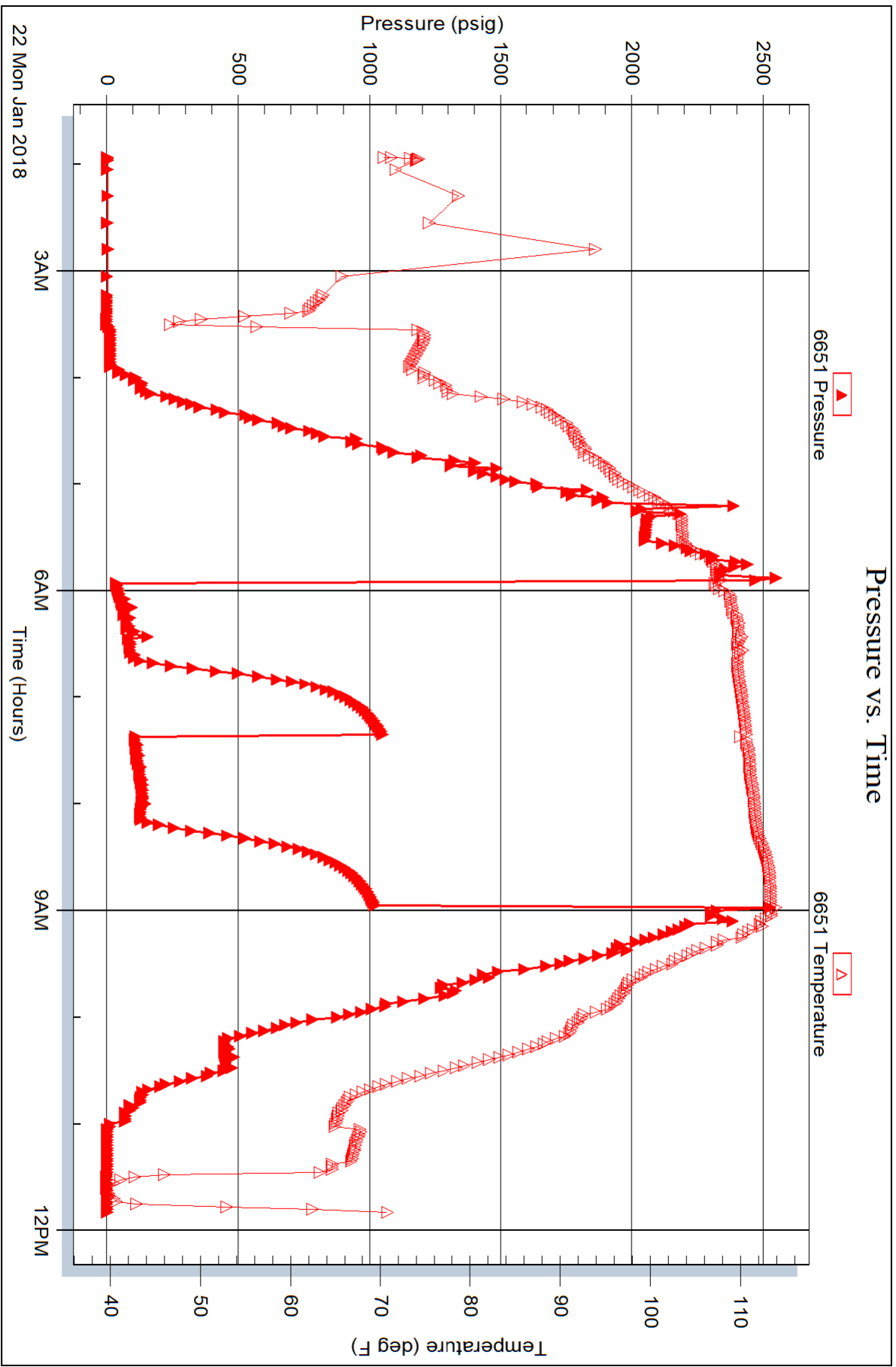
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







CHARGE TO: *Woodson Place*

ADDRESS

CITY, STATE, ZIP CODE

SERVICE LOCATIONS 1. <i>Neosho KS</i>	WELL/PROJECT NO. 2. <i>9-17</i>	LEASE <i>GARD</i>	COUNTY/PARISH <i>Woods</i>	STATE <i>KS</i>	CITY <i>Lakin</i>	DATE <i>24 Jan 18</i>	OWNER
TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>D&S</i>	RIG NAME/NO. <i>5</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>Location</i>	ORDER NO.		
WELL TYPE <i>Oil</i>	WELL CATEGORY <i>Leasehold</i>	JOB PURPOSE <i>Cement Plug String</i>	WELL PERMIT NO.	WELL LOCATION <i>172536</i>			
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					MILEAGE TRK 114	100	mi			5.00	500.00
578					Pump Casing Long String	1	ea			1250.00	1250.00
402					Centralizer	5 1/2	in	9	ea	100.00	540.00
403					Cement Bucket	5 1/2	in	2	ea	250.00	500.00
406					Latch over the bottle	5 1/2	in	1	ea	225.00	225.00
407					Insert float side w/ auto fish	5 1/2	in	1	ea	300.00	300.00

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

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

X

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	UNDECIDED	DISAGREE	PAGE TOTAL	3315.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					7226.00
WE UNDERSTOOD AND MET YOUR NEEDS?					10621.00
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	11110.00

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

SWIFT OPERATOR *BC Hill* APPROVAL _____

Thank You!

03/15/2018 13:11 Swift Services Ted (FAX) 785 798 2387 P. 002/004

Ness City KS 6/26/04
 Off: 785-798-2300

CUSTOMER
 H. B. ...

DATE
 9-17

UNIT PRICE

AMOUNT

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	BILL				UNIT PRICE	AMOUNT
		LOC	ACCT	TR			QTY	QTY	QTY	QTY		
325		1				Shawnee cement	250	sk			12.25	3062.50
279		1				Portland to go	500	lb	5	sk	25.00	125.00
283		1				5/8 Ct	1350	lb			0.90	270.00
292		1				hulled 3/8	200	lb			8.50	1600.00
276		1				Fir sh	50	lb			2.75	137.50
290		1				D-AIR	3	gal			42.00	126.00
381		1				hulkish	500	gal			1.25	625.00
221		1				hulk & sh	2	gal			25.00	50.00
						SERVICE CHARGE	20				1.50	375.00
						NET WEIGHT	4310				2.15	460.00
						COLORED MILES	178					
						TON MILES	12.00					
						CLIENT FEE						
						CONTRIBUTION TOTAL						7306.00

JOB LOG

SWIFT Services, Inc.

DATE: 24 Jan 15
TICKET NO: 31198

CUSTOMER		WELL NO.		LEASE		JOB TYPE		
HARRINGTON		9-17		G-AND		Sealant long string		
CHART NO.	TIME	RATE (GPM)	VOLUME (BBL/GAL)	RUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	O	TUBING	CASING	
								250 sacks Slurrying cement w. Cuff #1 @ 1500
								5 1/2 - 1 1/2 5" casing 120 ft 5090 FD-5
								Sheet 23" (actual) 1,245 to 4,000 @ 15
	1030							min 2.0
								min 10 @ 1.4
	1305							Sheet 5 1/2" @ 1000 to 1000
	1510							Drop ball - circulate
	1555	3 1/2	12			200		Plug 300 gal water
		3 1/2	20			200		Plug 20 bbl KCL fluid
			7					Plug KIL - M 14 30% - 20%
	1610	4	57			200		min STD fluid present 200 @ 15
								Drop latch from plug
								work out plug & line
	1635	6 1/4				200		Displace plug
		6 1/4	100			400		
		6 1/4	113			400		
	1700	6 1/4	122			1550		Hard plug
								Keep pressure to back - at 100 up
	1705							work plug
								Plug up
	1725							job complete
								Thanks
								Blaine Flint & SON