

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

November 2016

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	VAN 1-28
Doc ID	1378556

Tops

Name	Top	Datum
Anhydrite	1404	782
Heebner	3683	-1497
Lansing	3732	-1546
Base Kansas City	4058	-1872
Pawnee	4180	-1994
Ft. Scott	4253	-2067
Cherokee	4277	-2091
Mississippian	4344	-2158
RTD	4370	-2184



CHARGE TO: American Indian of Iowa
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET NO 1067

PAGE 1 OF 1

SERVICE LOCATIONS: 1. *Adena City, KS*
 WELL/PROJECT NO.: *1-28
 LEASE: *Van*
 COUNTY/PARISH: *Adair*
 STATE: *KS*
 CITY: *Beaumont*
 DATE: *12-1-17*
 OWNER: *Service*
 ORDER NO.:
 RIG NAME NO.: #4
 SHIPPED: YES
 DELIVERED TO: *Leah's*
 WELLS PERMIT NO.:
 WELL TYPE: *Oil*
 WELL CATEGORY: *Drilling*
 JOB PURPOSE: *Drillment Cement 8 7/8" Surface*
 WELL LOCATION: *Box 200 - 115 Hwy 15, Be, IA*
 INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY, U/M		QTY, U/M		UNIT PRICE	AMOUNT
575					MILEAGE			25	mi	\$5.00	125.00
576.5					Pump Charge - Shallow Surface			1	job	800.00	800.00
325					Standard Cement			165	bags	12.25	2021.25
278					Calcium Chloride			3	1/2	46.00	280.00
279					Benbrake Gel			2	1/2	35.00	75.00
290					D-Air			2	gals	42.00	84.00
581					Service Charge Cement			165	bags	1.30	217.50
582					Minimum Drayage Charge			1	ea	250.00	250.00

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

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 DATE SIGNED: *12-1-17*
 TIME SIGNED: *2:45*
 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: 3882
 TAX:
 TOTAL:
 THANK YOU!

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR: *David Kucha*
 APPROVAL:
 THANK YOU!



TICKET 01070

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

PAGE 1 OF 1

1. SERVICE LOCATIONS Address City KS	WELL/PROJECT NO. #1-38	LEASE Van	COUNTY/PARISH Leas	STATE KS	CITY Bazine	DATE 12-8-17	OWNER Sonne
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Discovery Drilling	RIG NAME/NO. #4	SHIPPED W/CT	DELIVERED TO Location	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE O1	WELL CATEGORY Development	JOB PURPOSE PTA				WELL LOCATION Bazine - 1 1/2 Hwy 15, Bazine	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE			20	mi	5.00	100.00
576 P					Pump Charge - PTA			1	job	800.00	800.00
328-4					60/40 Pozmix (4% Gel)			250	blks	10.25	2562.50
276					Flare			1/4	1lb	2.25	112.50
290					D-Air			3	gal	42.00	126.00
581					Service Charge Cement			250	blks	1.50	375.00
582					Minimum Drayage Charge			1	ea	250.00	250.00

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

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 DATE SIGNED 12-8-17 TIME SIGNED 0800 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	4326.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				TAX	
WE UNDERSTOOD AND MET YOUR NEEDS?				TOTAL	
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					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR David Muchin APPROVAL Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 12-8-17	PAGE NO. 1
TICKET NO. 31070	

CUSTOMER American Warrior	WELL NO. #1-28	LEASE Van	JOB TYPE PTA
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0400							on location
								RTD - 4370 Hole - 7 7/8" DP - 4 1/2" 1440'
	0440	4 1/2	13		✓	300		mix 50 sks @ 1440'
		4 1/2	17		✓	100		Displace Cement
	0450							Pull D.P.
	0515	4 1/2	21		✓	100		mix 80 sks @ 600'
		4 1/2	3 1/2		✓	100		Displace Cement
	0525							Pull D.P.
	0540	4 1/2	13		✓	100		mix 50 sks @ 250'
		4 1/2	1/2		✓	100		Displace Cement
	0545							Pull D.P.
	0715	4	5 1/2		✓	100		mix 20 sks @ 60'
	0730		8-5 1/2					Plug RH - MH (30-20)
								wash up truck
								total - 250 sks 60/40 Poz 4% Gel 1/4" flo
	0830							Jobs Complete

Thank You
Dave Preston Isaac



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

Van #1-28

28-20S-22W Ness,KS

Start Date: 2017.12.07 @ 15:42:00

End Date: 2017.12.07 @ 22:58:02

Job Ticket #: 62097 DST #: 1

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

Printed: 2017.12.12 @ 13:38:32



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

28-20S-22W Ness,KS
Van #1-28
Job Ticket: 62097 **DST#: 1**
Test Start: 2017.12.07 @ 15:42:00

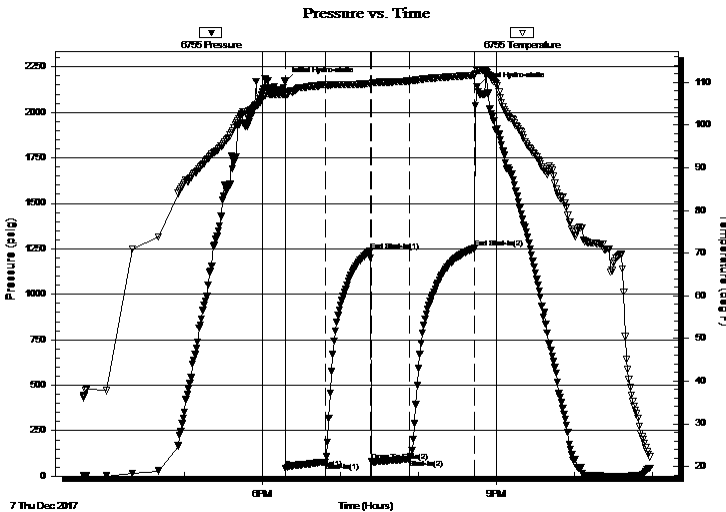
GENERAL INFORMATION:

Formation: **Ft. Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:17:32
Time Test Ended: 22:58:02
Interval: **4230.00 ft (KB) To 4275.00 ft (KB) (TVD)**
Total Depth: 4370.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair
Reference Elevations: 2186.00 ft (KB)
2178.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Straddle (Initial)
Tester: Ken Swinney
Unit No: 72

Serial #: 6755 **Inside**
Press@RunDepth: 94.03 psig @ 4265.53 ft (KB) Capacity: psig
Start Date: 2017.12.07 End Date: 2017.12.07 Last Calib.: 2017.12.07
Start Time: 15:42:01 End Time: 22:58:02 Time On Btm: 2017.12.07 @ 18:17:02
Time Off Btm: 2017.12.07 @ 20:44:47

TEST COMMENT: IFP 30 Minutes Surface blow died in 2 minutes
ISI 35 Minutes No blow back
FFP 30 Minutes Surface blow died in 2 minutes
FSI 45 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.38	107.44	Initial Hydro-static
1	44.57	106.92	Open To Flow (1)
31	76.66	109.43	Shut-In(1)
66	1236.78	109.72	End Shut-In(1)
67	81.35	109.69	Open To Flow (2)
96	94.03	110.32	Shut-In(2)
146	1253.36	111.70	End Shut-In(2)
148	2141.61	112.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud w /show of oil/ Mud 100%	1.41

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

28-20S-22W Ness, KS
Van #1-28
 Job Ticket: 62097 **DST#: 1**
 Test Start: 2017.12.07 @ 15:42:00

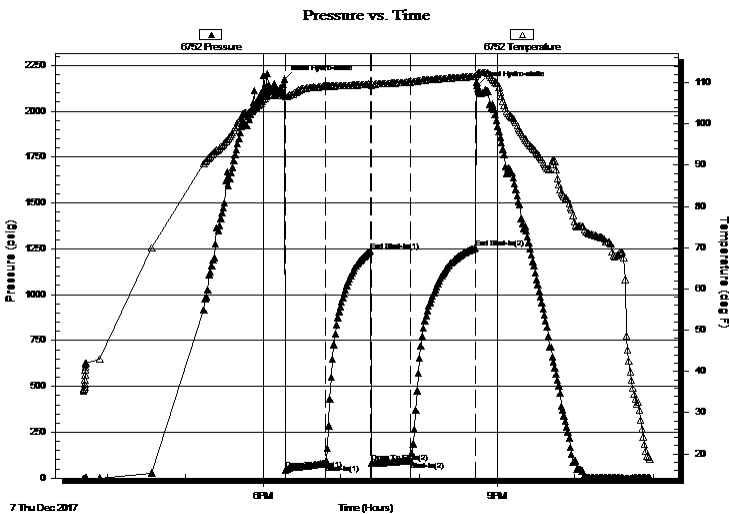
GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:17:32
 Time Test Ended: 22:58:02
 Interval: **4230.00 ft (KB) To 4275.00 ft (KB) (TVD)**
 Total Depth: 4370.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2186.00 ft (KB)
 2178.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6752 Outside
 Press@RunDepth: 1255.50 psig @ 4265.53 ft (KB) Capacity: psig
 Start Date: 2017.12.07 End Date: 2017.12.07 Last Calib.: 2017.12.07
 Start Time: 15:42:01 End Time: 22:58:02 Time On Btm: 2017.12.07 @ 18:16:47
 Time Off Btm: 2017.12.07 @ 20:44:47

TEST COMMENT: IFP 30 Minutes Surface blow died in 2 minutes
 ISI 35 Mintues No blow back
 FFP 30 Minutes Surface blow died in 2 minutes
 FSI 45 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.16	106.97	Initial Hydro-static
1	45.73	106.53	Open To Flow (1)
32	77.87	109.16	Shut-In(1)
66	1237.56	109.60	End Shut-In(1)
67	83.81	109.34	Open To Flow (2)
97	94.41	110.16	Shut-In(2)
147	1255.50	111.56	End Shut-In(2)
148	2140.65	112.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud w /show of oil/ Mud 100%	1.41

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

28-20S-22W Ness, KS
Van #1-28
 Job Ticket: 62097 **DST#: 1**
 Test Start: 2017.12.07 @ 15:42:00

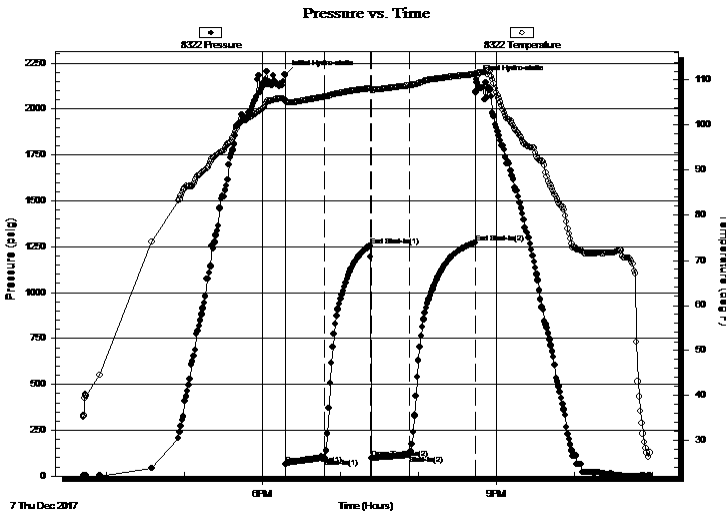
GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:17:32
 Time Test Ended: 22:58:02
 Interval: **4230.00 ft (KB) To 4275.00 ft (KB) (TVD)**
 Total Depth: 4370.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2186.00 ft (KB)
 2178.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8322 Below (Straddle)
 Press@RunDepth: 1271.43 psig @ 4301.40 ft (KB) Capacity: psig
 Start Date: 2017.12.07 End Date: 2017.12.07 Last Calib.: 2017.12.07
 Start Time: 15:42:01 End Time: 22:58:02 Time On Btm: 2017.12.07 @ 18:17:17
 Time Off Btm: 2017.12.07 @ 20:44:47

TEST COMMENT: IFP 30 Minutes Surface blow died in 2 minutes
 ISI 35 Mintues No blow back
 FFP 30 Minutes Surface blow died in 2 minutes
 FSI 45 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.10	105.62	Initial Hydro-static
1	63.86	105.16	Open To Flow (1)
31	99.38	106.23	Shut-In(1)
66	1253.87	108.11	End Shut-In(1)
67	98.84	107.84	Open To Flow (2)
96	114.04	108.76	Shut-In(2)
147	1271.43	111.24	End Shut-In(2)
148	2159.15	111.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud w /show of oil/ Mud 100%	1.41

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

28-20S-22W Ness,KS
Van #1-28
Job Ticket: 62097 **DST#: 1**
Test Start: 2017.12.07 @ 15:42:00

Tool Information

Drill Pipe:	Length: 4195.00 ft	Diameter: 3.80 inches	Volume: 58.84 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.75 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4230.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	4368.89 ft			
Interval between Packers:	138.89 ft			
Tool Length:	163.64 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Shut-In Tool	5.00			4210.25	
Hydraulic tool	5.00			4215.25	
Jars	6.00			4221.25	
Safety Joint	2.00			4223.25	
Top Packer	5.00			4228.25	
Packer	1.75			4230.00	24.75 Bottom Of Top Packer
Anchor	2.00			4232.00	
Change Over Sub	1.02			4233.02	
Drill Pipe	31.66			4264.68	
Change Over Sub	0.85			4265.53	
Recorder	0.00	6755	Inside	4265.53	
Recorder	0.00	6752	Outside	4265.53	
Anchor	5.00			4270.53	
Packer (test side)	3.17			4273.70	
Packer (tail side)	1.65			4275.35	
Blank Off Sub	1.00			4276.35	
Perforations	24.00			4300.35	
Change Over Sub	1.05			4301.40	
Recorder	0.00	8322	Below	4301.40	
Drill Pipe	63.37			4364.77	
Change Over Sub	1.12			4365.89	
Bullnose	3.00			4368.89	138.89 Anchor Tool

Total Tool Length: 163.64



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

28-20S-22W Ness,KS
Van #1-28
Job Ticket: 62097 **DST#: 1**
Test Start: 2017.12.07 @ 15:42:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

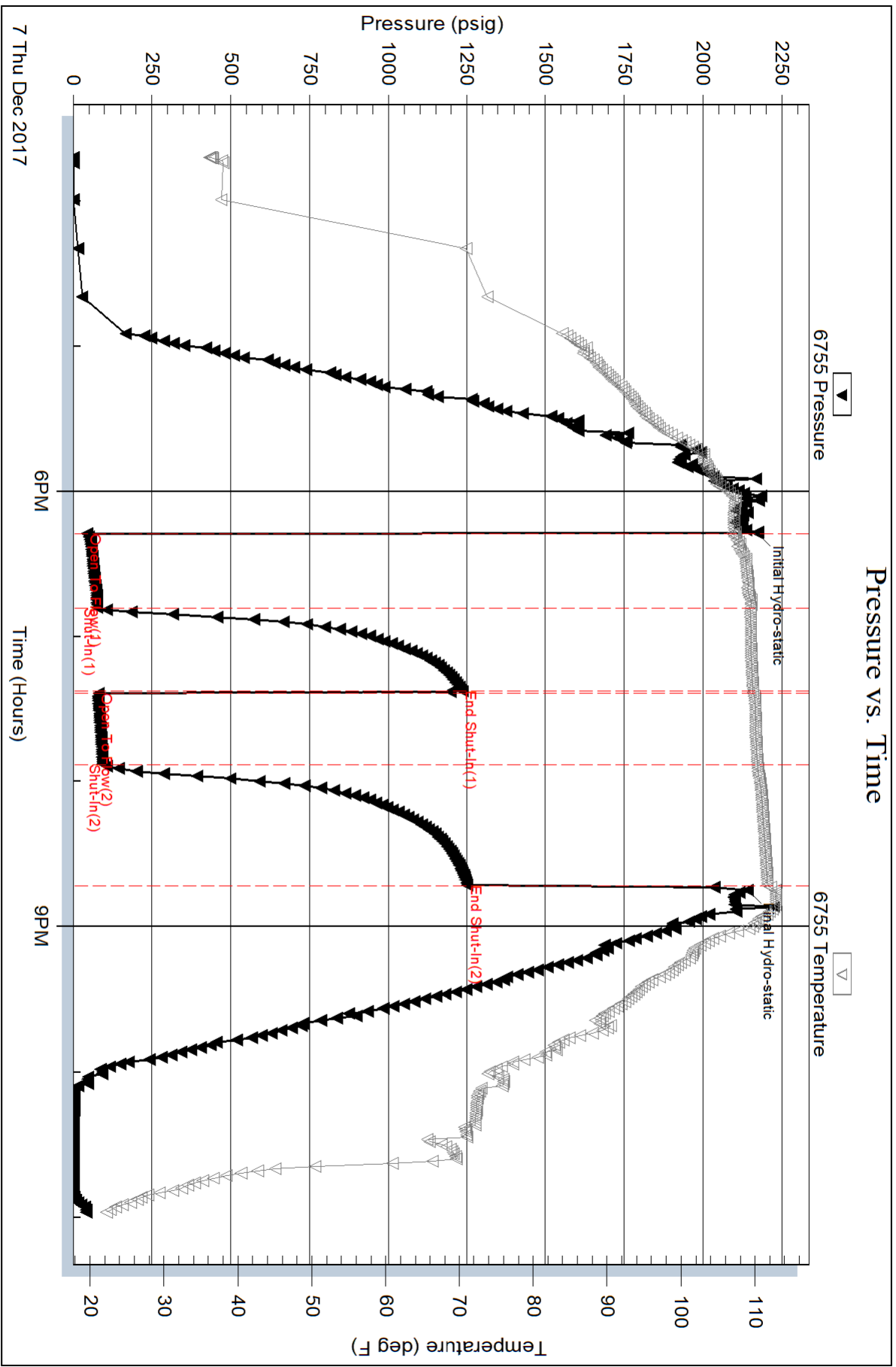
Length ft	Description	Volume bbl
120.00	Mud w/show of oil/ Mud 100%	1.410

Total Length: 120.00 ft Total Volume: 1.410 bbl

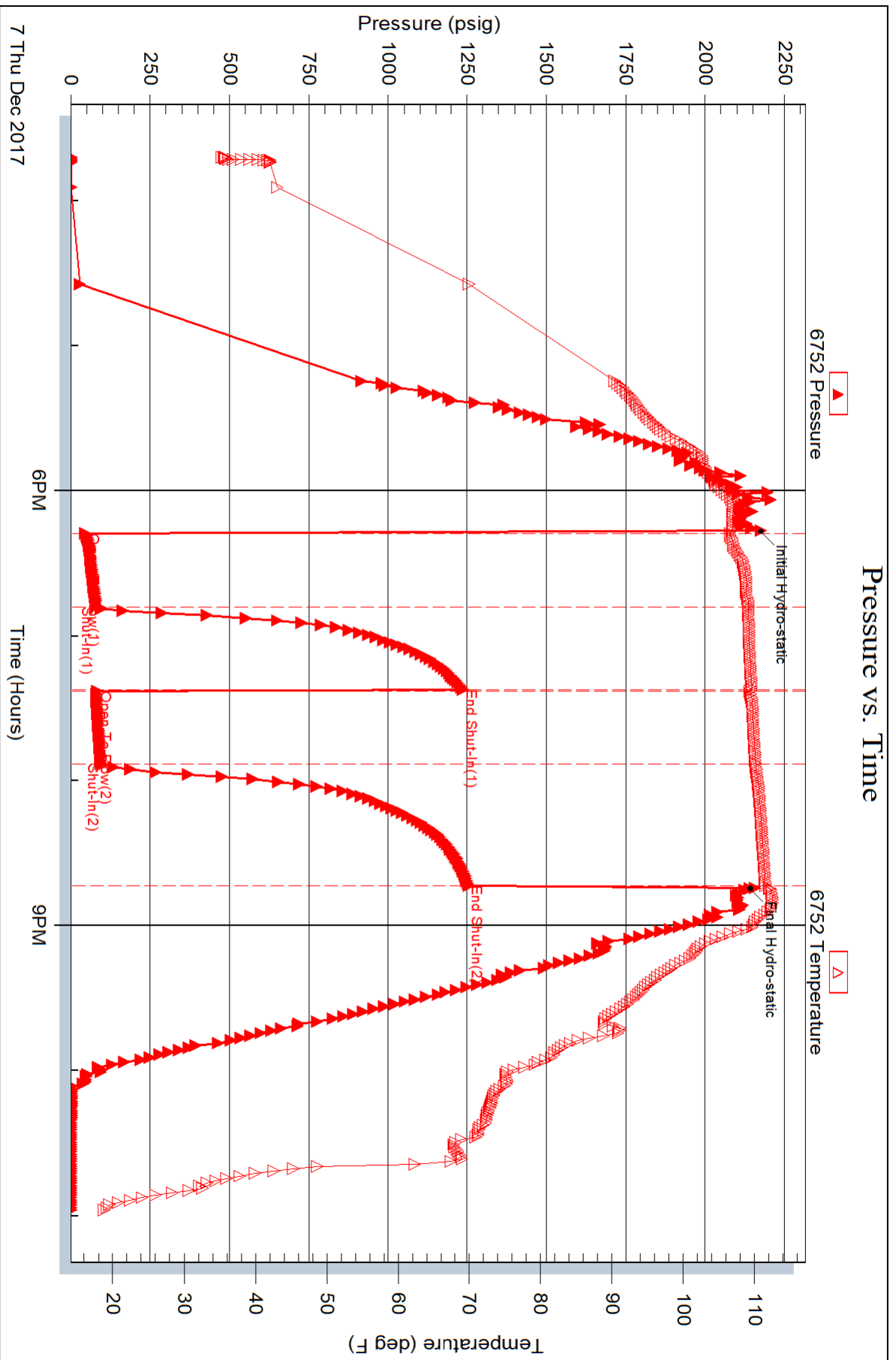
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

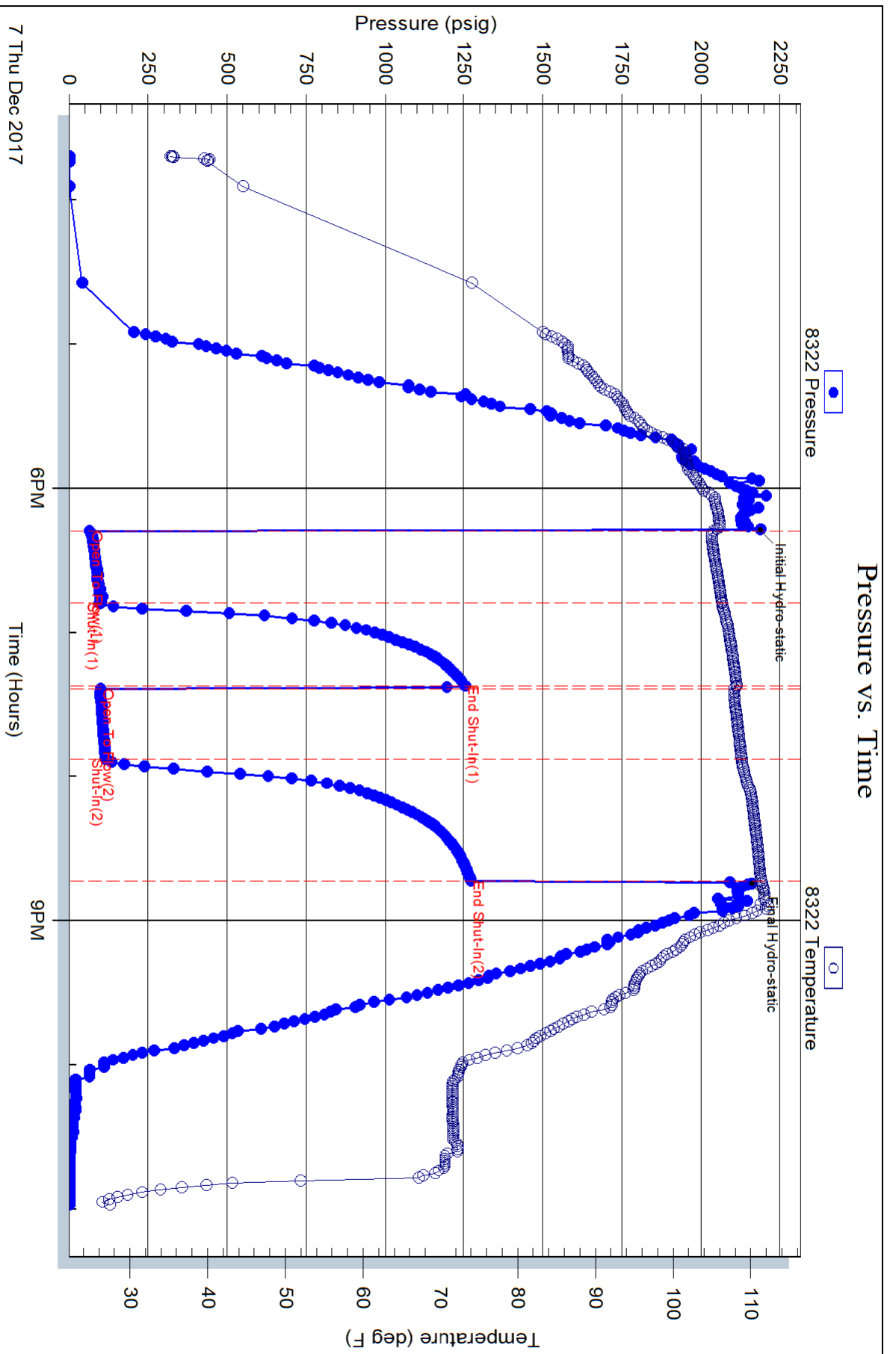
Laboratory Name: Laboratory Location:

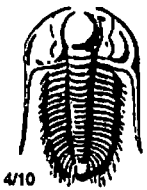
Recovery Comments: bottom packer did not hold



Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62097

Well Name & No. Van #1-28 Test No. 1 Date 7 DEC 17
 Company American Warrior Inc Elevation 2186 KB 2178 GL
 Address PO Box 399 Garden City Kansas 67846
 Co. Rep / Geo. Jasen Alm Rig Discovery Rig 4
 Location: Sec. 28 Twp. 20S Rge. 22W Co. Ness State _____

Interval Tested 4230-4275 Zone Tested Ft. Scott
 Anchor Length 45 Drill Pipe Run 4195 Mud Wt. 9.6
 Top Packer Depth 4225 Drill Collars Run 30 Vis 50
 Bottom Packer Depth 4230 Wt. Pipe Run - WL 8.8
 Total Depth 4275 Chlorides 6200 ppm System LCM 1#

Blow Description I.F. Surface blow died in 2 minutes
I.S.T. No blow sack
E.F. Surface blow died in 2 minutes
E.S.I. No blow sack

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Mud w/show of oil</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 120 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2171 Test 950 T-On Location 1:58 pm
 (B) First Initial Flow 44 Jars 250 T-Started 3:42 pm
 (C) First Final Flow 76 Safety Joint 75 T-Open 6:17 pm
 (D) Initial Shut-In 1236 Circ Sub _____ T-Pulled 8:37 pm
 (E) Second Initial Flow 81 Hourly Standby _____ T-Out 10:58 pm
 (F) Second Final Flow 94 Mileage 136 ¹⁰² Comments _____
 (G) Final Shut-In 1253 Sampler _____
 (H) Final Hydrostatic 2141 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1977
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1977

Approved By _____ Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personal 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.

Geological Report

American Warrior, Inc.

Van #1-28

1560' FSL & 1960' FWL

Sec. 28 T20s R22w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Van #1-28
1560' FSL & 1960' FWL
Sec. 28 T20s R22w
Ness County, Kansas
API # 15-135-25984-0000

Drilling Contractor: Discovery Drilling Rig #4

Geologist: Jason T Alm

Spud Date: December 1, 2017

Completion Date: December 8, 2017

Elevation: 2178' Ground Level
2186' Kelly Bushing

Directions: Bazine KS, South 11 mi. to 20 rd. West 4 mi. to Z rd. South 1 mi. to 10 rd. East ½ mi. North into location.

Casing: 213' 8 5/8" surface casing

Samples: 10' wet and dry, 3950' to RTD

Drilling Time: 3650' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Ken Swinney"

Problems: Cedar Hills flowed water shortly after being drilled. Rig had to weight up their mud throughout the well. Bottom Packer Failed on DST #1.

Remarks: None

Formation Tops

	American Warrior, Inc. Van #1-28 Sec. 28 T20s R22w 1560' FSL & 1960' FWL
Formation	
Anhydrite	1404' +782
Base	1439' +747
Heebner	3683' -1497
Lansing	3732' -1546
BKC	4058' -1872
Pawnee	4180' -1994
Fort Scott	4253' -2067
Cherokee	4277' -2091
Mississippian	4244' -2158
Osage	4363' -2177
RTD	4370' -2184

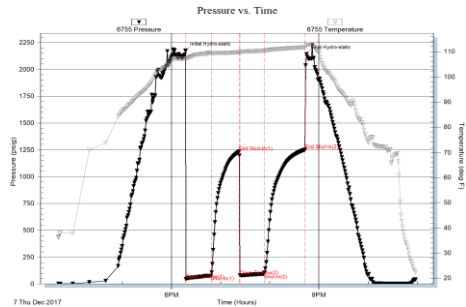
Sample Zone Descriptions

- Fort Scott (4180' -1994):** **Covered in DST #1**
 Ls – Fine crystalline with fair to scattered good inter-crystalline and scattered pinpoint vuggy porosity, light to fair oil stain with light saturation, slight show of free oil, good odor, bright yellow fluorescents, 121 units hotwire.
- Mississippian Osage (4363' -2177):** **Not Tested**
 Δ – White to clear, angular, mostly fresh with visual pinpoint vuggy porosity, barren, slightly dolomitic, light “sour” odor, no fluorescents.

Drill Stem Tests
Trilobite Testing, Inc.
"Ken Swinney"

DST #1 Fort Scott

Interval (4230' – 4275') Anchor Length 45'
 IHP – 2171 #
 IFP – 30" – W.S.B. 44-77 #
 ISI – 30" – Dead 1237 #
 FFP – 30" – W.S.B. 81-94 #
 FSI – 45" – Dead 1253 #
 FHP – 2141 #
 BHT – 112°F



Recovery: 120' Mud w/ a show of oil

Structural Comparison

	American Warrior, Inc. Van #1-28 Sec. 28 T20s R22w 1560' FSL & 1960' FWL	Theodore Leben Mcfadden #1 Sec. 28 T20s R22w C NE SW		Montgomery Drilling Mcfadden #1 Sec. 28 T20s R22w C SE SW	
Formation					
Anhydrite	1404' +782	1400' +785	(-3)	1398' +787	(-5)
Base	1439' +747	NA	NA	NA	NA
Heebner	3683' -1497	3679' -1494	(-3)	3682' -1497	FL
Lansing	3732' -1546	3728' -1543	(-3)	3732' -1547	(+1)
BKC	4058' -1872	NA	NA	4060' -1875	(+3)
Pawnee	4180' -1994	NA	NA	NA	NA
Fort Scott	4253' -2067	4250' -2065	(-2)	4254' -2069	(+2)
Cherokee	4277' -2091	4273' -2088	(-3)	4278' -2093	(+2)
Mississippian	4244' -2158	4336' -2151	(-7)	4326' -2141	(-17)
Osage	4363' -2177	4347' -2162	(-15)	4372' -2187	(+10)

Summary

The location for the Van #1-28 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted which was negative. After all gathered data had been examined the decision was made to plug and abandon the Van #1-28 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.