

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) (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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CHARGE TO: American Warriors
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 031862
 PAGE 1 OF 1

SERVICE LOCATIONS: Wood City KS
 WELL/PROJECT NO. 11-17 LEASE G-AND COUNTY/PARISH Kentucky STATE KS CITY Larkin DATE 21 Nov 18 OWNER
 CONTRACTOR
 RIG NAME/NO. 5 SHIPPED VIA CT DELIVERED TO Location ORDER NO.
 TICKET TYPE: SERVICE SALES
 WELL TYPE: 0.1 WELL CATEGORY Development JOB PURPOSE Cement Casing- Pipe WELL PERMIT NO.
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY. U/M			UNIT PRICE	AMOUNT
						QTY.	U/M	QTY.		
575		1			MILEAGE TRK 114	120	mi		5.80	600.00
576.5		1			Pump Charge shallow surface	1	ea		875.00	875.00
325		1			Standard cement	250	sk		13.00	3250.00
279		1			Bestonite gel	500	lb		30.00	1500.00
278		1			Calcium Chloride	500	lb		11.5k	4000.00
290		1			D-ARK	1	gal		42.00	42.00
581		1			Service charge	250	lb		1.75	437.50
583		1			Drayage	2450	lb		1473.00	1252.05

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.

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

OPERATOR Paul APPROVAL _____

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? CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 7046.55
 TAX 6.50
 TOTAL 7098.88

Thank You!

DATE: 1/11/01

TO: DIRECTOR, FEDERAL RESERVE BOARD

FROM: [Redacted]

RE: [Redacted]

ATTN: [Redacted]

1. [Redacted]

MAIL PAYMENT TO:
 SWIFT SERVICES, INC.
 PO BOX 400
 JPS-JOB 2000

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 1/11/01
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 from cardholder
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JOB LOG

SWIFT Services, Inc.

DATE 21 NOV 18 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 11-17 LEASE G and JOB TYPE cement conductor pipe TICKET NO. 31862

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								250 sk Standard cement 2% gel 3% CC 13 3/8" casing 6 joints 17 1/2 hole 242' pipe TD=264' 6 joints pipe to 230' - no landing joint
	0800							on loc TRK 114 - Running 13 3/8 - - 5 joints in circ hole -
	1125							- 6 joints in circ hole
	1145	4 1/4	62			200		MIX STD 2% 3% cement 250 sk @ 14.7 gpm - constant circulation -
		6	31			250		Displace w/ H ₂ O - cement in cellar - shot in 13 3/8 - wash truck Rack up job complete
	1250							Thanks Plaine, Flint & squatch



STREET ADDRESS, INC.

1 21 MAY 18

31888

CONTRACT NUMBER 170

6-20

11-17

DATE

11-17

CUSTOMER

8200 2nd Street
137-10 1st Street
137-10 2nd Street
137-10 3rd Street

in the area of
- 137-10 1st St
- 137-10 2nd St

open

137-10 1st St

11-17

137-10 2nd St
- 137-10 2nd St

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137-10 3rd St
- 137-10 3rd St

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11-17

137-10 4th St

137-10 5th St

137-10 6th St

137-10 7th St

137-10 8th St
137-10 9th St

11-17



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

TICKET 031863
 PAGE 1 OF 2

SERVICE LOCATIONS
 1. Apco City 15
 2.
 3.
 4.

WELL/PROJECT NO. 11-17 LEASE Grub COUNTY/PARISH Levee STATE LA CITY WVLA DATE 12/12/18 OWNER
 CONTRACTOR
 RIG NAME/NO. 5 SHIPPED VIA WT DELIVERED TO Location ORDER NO.
 WELL TYPE DWS WELL CATEGORY Development JOB PURPOSE Install deep surface WELL PERMIT NO.
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY. U/M			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.		
575					724 114	120	mi			5.00	600.00
576D					Pump Change deep surface	1	ea			1300.00	1300.00
330					SMD cement	700	sk			16.25	11375.00
276					Abobe	175	lb			2.50	4375.00
281					mid flush	500	gal			1.50	750.00
281					KEL Liquid	2	gal			25.00	50.00
410					TOP RICE	8	in	1	ea	130.00	130.00
194					Plg concrete head	8	in	1	ea	200.00	200.00
401					Insert float w/ guard air	8	in	1	ea	250.00	250.00
406					Grub shoe	8	in	1	ea	350.00	350.00
409					TRUCKER	8	in	3	ea	105.00	315.00

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

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

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

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 16757.50
 4777.51
 20535.01
 TOTAL 21485.05

Thank You!

DATE

03/11/11

BY

John

DATE

03/11/11

BY

John

DATE

03/11/11

STATE OF MISSISSIPPI DEPARTMENT OF REVENUE

SALES TAX RECEIPT

THIS RECEIPT IS VALID FOR SALES TAX PURPOSES ONLY IF IT IS FILED WITH THE TAX RETURNS FOR THE YEAR IN WHICH IT IS ISSUED.

DATE OF SALE: 03/11/11

SALES TAX RATE: 7.75%

NET SALES: 16,521.00

SALES TAX: 1,280.00

TOTAL SALES: 17,801.00

SALES TAX REFUND: 0.00

TOTAL SALES TAX: 1,280.00

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SWIFT SERVICES, INC.
610.800.4888

PERMIT PAYMENT TO:

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

TICKET CONTINUATION

TICKET No.

31803

CUSTOMER

Amesbury District

WELL

Grand 11-17

DATE

24 NOV 18

PAGE

21 OF 22

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
581											1.75	1225.00
583											0.85	3552.51
SERVICE CHARGE												
MILEAGE CHARGE												
TOTAL WEIGHT						4178.42						
LOADED MILES						120						
CUBIC FEET						700						
TON MILES												
CONTINUATION TOTAL												4777.51

JOB LOG

SWIFT Services, Inc.

DATE 24 Nov 18 PAGE NO. 1

CUSTOMER *Harcom/Mor* WELL NO. 11-17 LEASE *GRAND* JOB TYPE *Cement deep surface* TICKET NO. 31863

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								700 sks SMD cement w/ 7# floccle
								8 5/8" 23# casing 41 joints TD=1750 shoe pt 42.21'
								Centralizers 1, 5, 21' set - 1945
	1000							on loc. TRX 114
	1045							start 8 5/8" 23# casing in well
	1245							Drop ball - circulate
	1330	4 1/2	12			150		Pump 500 gal mud flush
		4 1/2	20			150		Pump 20 bbl KCL flush
	1342	5 3/4				150		mix SMD cement 200sk @ 11.5 gpg
								mix SMD cement 300sk @ 12.5 gpg
								mix SMD cement 75sk @ 13.5 gpg
		4 1/2				200		mix SMD cement 75sk @ 14.5 gpg
			273					200sk total
								Release plug
	1450	6 1/2				200		Displace plug
								→ cement to surface ←
		5	98			500		50 sk to pit
	1515	5	109			1000		
						300		Land plug shot in 8 5/8"
	1525							wash truck
								back up
	1600							job complete
								Thanks
								Blaine, flat # 15412

SWIFT Services, Inc.



31863

01-11-15

Contract surface

Team

11-11

11-11

DESCRIPTION OF WORK	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE	DATE	STATUS
1/2" concrete on 1/2" furring	Sq. Yd.	150	1.50	225.00	11-11	Completed
2" concrete on 2" furring	Sq. Yd.	150	2.00	300.00	11-11	Completed
3" concrete on 3" furring	Sq. Yd.	150	2.50	375.00	11-11	Completed
4" concrete on 4" furring	Sq. Yd.	150	3.00	450.00	11-11	Completed
5" concrete on 5" furring	Sq. Yd.	150	3.50	525.00	11-11	Completed
6" concrete on 6" furring	Sq. Yd.	150	4.00	600.00	11-11	Completed
7" concrete on 7" furring	Sq. Yd.	150	4.50	675.00	11-11	Completed
8" concrete on 8" furring	Sq. Yd.	150	5.00	750.00	11-11	Completed
9" concrete on 9" furring	Sq. Yd.	150	5.50	825.00	11-11	Completed
10" concrete on 10" furring	Sq. Yd.	150	6.00	900.00	11-11	Completed
11" concrete on 11" furring	Sq. Yd.	150	6.50	975.00	11-11	Completed
12" concrete on 12" furring	Sq. Yd.	150	7.00	1050.00	11-11	Completed
13" concrete on 13" furring	Sq. Yd.	150	7.50	1125.00	11-11	Completed
14" concrete on 14" furring	Sq. Yd.	150	8.00	1200.00	11-11	Completed
15" concrete on 15" furring	Sq. Yd.	150	8.50	1275.00	11-11	Completed
16" concrete on 16" furring	Sq. Yd.	150	9.00	1350.00	11-11	Completed
17" concrete on 17" furring	Sq. Yd.	150	9.50	1425.00	11-11	Completed
18" concrete on 18" furring	Sq. Yd.	150	10.00	1500.00	11-11	Completed
19" concrete on 19" furring	Sq. Yd.	150	10.50	1575.00	11-11	Completed
20" concrete on 20" furring	Sq. Yd.	150	11.00	1650.00	11-11	Completed
21" concrete on 21" furring	Sq. Yd.	150	11.50	1725.00	11-11	Completed
22" concrete on 22" furring	Sq. Yd.	150	12.00	1800.00	11-11	Completed
23" concrete on 23" furring	Sq. Yd.	150	12.50	1875.00	11-11	Completed
24" concrete on 24" furring	Sq. Yd.	150	13.00	1950.00	11-11	Completed
25" concrete on 25" furring	Sq. Yd.	150	13.50	2025.00	11-11	Completed
26" concrete on 26" furring	Sq. Yd.	150	14.00	2100.00	11-11	Completed
27" concrete on 27" furring	Sq. Yd.	150	14.50	2175.00	11-11	Completed
28" concrete on 28" furring	Sq. Yd.	150	15.00	2250.00	11-11	Completed
29" concrete on 29" furring	Sq. Yd.	150	15.50	2325.00	11-11	Completed
30" concrete on 30" furring	Sq. Yd.	150	16.00	2400.00	11-11	Completed
31" concrete on 31" furring	Sq. Yd.	150	16.50	2475.00	11-11	Completed
32" concrete on 32" furring	Sq. Yd.	150	17.00	2550.00	11-11	Completed
33" concrete on 33" furring	Sq. Yd.	150	17.50	2625.00	11-11	Completed
34" concrete on 34" furring	Sq. Yd.	150	18.00	2700.00	11-11	Completed
35" concrete on 35" furring	Sq. Yd.	150	18.50	2775.00	11-11	Completed
36" concrete on 36" furring	Sq. Yd.	150	19.00	2850.00	11-11	Completed
37" concrete on 37" furring	Sq. Yd.	150	19.50	2925.00	11-11	Completed
38" concrete on 38" furring	Sq. Yd.	150	20.00	3000.00	11-11	Completed
39" concrete on 39" furring	Sq. Yd.	150	20.50	3075.00	11-11	Completed
40" concrete on 40" furring	Sq. Yd.	150	21.00	3150.00	11-11	Completed
41" concrete on 41" furring	Sq. Yd.	150	21.50	3225.00	11-11	Completed
42" concrete on 42" furring	Sq. Yd.	150	22.00	3300.00	11-11	Completed
43" concrete on 43" furring	Sq. Yd.	150	22.50	3375.00	11-11	Completed
44" concrete on 44" furring	Sq. Yd.	150	23.00	3450.00	11-11	Completed
45" concrete on 45" furring	Sq. Yd.	150	23.50	3525.00	11-11	Completed
46" concrete on 46" furring	Sq. Yd.	150	24.00	3600.00	11-11	Completed
47" concrete on 47" furring	Sq. Yd.	150	24.50	3675.00	11-11	Completed
48" concrete on 48" furring	Sq. Yd.	150	25.00	3750.00	11-11	Completed
49" concrete on 49" furring	Sq. Yd.	150	25.50	3825.00	11-11	Completed
50" concrete on 50" furring	Sq. Yd.	150	26.00	3900.00	11-11	Completed
51" concrete on 51" furring	Sq. Yd.	150	26.50	3975.00	11-11	Completed
52" concrete on 52" furring	Sq. Yd.	150	27.00	4050.00	11-11	Completed
53" concrete on 53" furring	Sq. Yd.	150	27.50	4125.00	11-11	Completed
54" concrete on 54" furring	Sq. Yd.	150	28.00	4200.00	11-11	Completed
55" concrete on 55" furring	Sq. Yd.	150	28.50	4275.00	11-11	Completed
56" concrete on 56" furring	Sq. Yd.	150	29.00	4350.00	11-11	Completed
57" concrete on 57" furring	Sq. Yd.	150	29.50	4425.00	11-11	Completed
58" concrete on 58" furring	Sq. Yd.	150	30.00	4500.00	11-11	Completed
59" concrete on 59" furring	Sq. Yd.	150	30.50	4575.00	11-11	Completed
60" concrete on 60" furring	Sq. Yd.	150	31.00	4650.00	11-11	Completed
61" concrete on 61" furring	Sq. Yd.	150	31.50	4725.00	11-11	Completed
62" concrete on 62" furring	Sq. Yd.	150	32.00	4800.00	11-11	Completed
63" concrete on 63" furring	Sq. Yd.	150	32.50	4875.00	11-11	Completed
64" concrete on 64" furring	Sq. Yd.	150	33.00	4950.00	11-11	Completed
65" concrete on 65" furring	Sq. Yd.	150	33.50	5025.00	11-11	Completed
66" concrete on 66" furring	Sq. Yd.	150	34.00	5100.00	11-11	Completed
67" concrete on 67" furring	Sq. Yd.	150	34.50	5175.00	11-11	Completed
68" concrete on 68" furring	Sq. Yd.	150	35.00	5250.00	11-11	Completed
69" concrete on 69" furring	Sq. Yd.	150	35.50	5325.00	11-11	Completed
70" concrete on 70" furring	Sq. Yd.	150	36.00	5400.00	11-11	Completed
71" concrete on 71" furring	Sq. Yd.	150	36.50	5475.00	11-11	Completed
72" concrete on 72" furring	Sq. Yd.	150	37.00	5550.00	11-11	Completed
73" concrete on 73" furring	Sq. Yd.	150	37.50	5625.00	11-11	Completed
74" concrete on 74" furring	Sq. Yd.	150	38.00	5700.00	11-11	Completed
75" concrete on 75" furring	Sq. Yd.	150	38.50	5775.00	11-11	Completed
76" concrete on 76" furring	Sq. Yd.	150	39.00	5850.00	11-11	Completed
77" concrete on 77" furring	Sq. Yd.	150	39.50	5925.00	11-11	Completed
78" concrete on 78" furring	Sq. Yd.	150	40.00	6000.00	11-11	Completed
79" concrete on 79" furring	Sq. Yd.	150	40.50	6075.00	11-11	Completed
80" concrete on 80" furring	Sq. Yd.	150	41.00	6150.00	11-11	Completed
81" concrete on 81" furring	Sq. Yd.	150	41.50	6225.00	11-11	Completed
82" concrete on 82" furring	Sq. Yd.	150	42.00	6300.00	11-11	Completed
83" concrete on 83" furring	Sq. Yd.	150	42.50	6375.00	11-11	Completed
84" concrete on 84" furring	Sq. Yd.	150	43.00	6450.00	11-11	Completed
85" concrete on 85" furring	Sq. Yd.	150	43.50	6525.00	11-11	Completed
86" concrete on 86" furring	Sq. Yd.	150	44.00	6600.00	11-11	Completed
87" concrete on 87" furring	Sq. Yd.	150	44.50	6675.00	11-11	Completed
88" concrete on 88" furring	Sq. Yd.	150	45.00	6750.00	11-11	Completed
89" concrete on 89" furring	Sq. Yd.	150	45.50	6825.00	11-11	Completed
90" concrete on 90" furring	Sq. Yd.	150	46.00	6900.00	11-11	Completed
91" concrete on 91" furring	Sq. Yd.	150	46.50	6975.00	11-11	Completed
92" concrete on 92" furring	Sq. Yd.	150	47.00	7050.00	11-11	Completed
93" concrete on 93" furring	Sq. Yd.	150	47.50	7125.00	11-11	Completed
94" concrete on 94" furring	Sq. Yd.	150	48.00	7200.00	11-11	Completed
95" concrete on 95" furring	Sq. Yd.	150	48.50	7275.00	11-11	Completed
96" concrete on 96" furring	Sq. Yd.	150	49.00	7350.00	11-11	Completed
97" concrete on 97" furring	Sq. Yd.	150	49.50	7425.00	11-11	Completed
98" concrete on 98" furring	Sq. Yd.	150	50.00	7500.00	11-11	Completed
99" concrete on 99" furring	Sq. Yd.	150	50.50	7575.00	11-11	Completed
100" concrete on 100" furring	Sq. Yd.	150	51.00	7650.00	11-11	Completed

Swift Services, Inc.



Services, Inc.

#1083410

CHARGE TO: **American Warrior Inc.**

ADDRESS

CITY, STATE, ZIP CODE

PAGE 1 OF 2

1. SERVICE LOCATIONS
Ness City, KS

WELL/PROJECT NO.
11-17

LEASE
Crane

COUNTY/PARISH
Hearny

STATE
KS

CITY
Lakin

DATE
12/5/2018

OWNER

2. TICKET TYPE
 SERVICE
 SALES

CONTRACTOR
Duke

RIG NAME/NO.
5

SHIPPED VIA
CT

DELIVERED TO
Location

WELL PERMIT NO.

ORDER NO.

3. WELL TYPE
Oil

WELL CATEGORY
Development

JOB PURPOSE
Longstring 5 1/2"

WELL LOCATION
Lakin, 3 1/2-S, 3 1/4-W

WELL PERMIT NO.

WELL PERMIT NO.

WELL LOCATION
1-S, 1 1/4-W, 1/2-S into

4. REFERRAL LOCATION

INVOICE INSTRUCTIONS

WELL PERMIT NO.

WELL PERMIT NO.

WELL PERMIT NO.

WELL PERMIT NO.

WELL PERMIT NO.

WELL PERMIT NO.

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	1		130	mi	5.00	650.00
578					Longstring Pump Charge	1		1	job	1300.00	1300.00
402					Centralizers	9		9	ea	70.00	630.00
403					Cement Baskets	1		1	ea	275.00	275.00
406					Latch down Plug + Baffle	1		1	ea	250.00	250.00
407					Insert Flat shoe w/ Aub Cell	1		1	ea	325.00	325.00
281					Mud Flush	1		500	gal	1.50	750.00
221					Liquid RCL	1		2	gal	25.00	50.00

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 **Richard A. ...**

DATE SIGNED **12/5/2018** TIME SIGNED **12:30**

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?

CUSTOMER DID NOT WISH TO RESPOND

YES NO

PAGE TOTAL

2

4180.00

5954.00

10134.50

444.54

10579.04

TOTAL

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

SWIFT OPERATOR

Richard A. ...

APPROVAL

Thank You!

TICKET 031920

DATE: 11/13/13

AMOUNT: \$1180.00

11/13/13

NAME: [Handwritten Name]

MESS OILY KE 82180
P.O. BOX 466

11/13/13

ACCOUNT NO: 1381

SMITH SERVICES, INC

11/13/13

401
402
403
408
P58
P52

Friday KKK
Monday KKK
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday

8 01
8 01
1 05

11-13

12/13/13

1300

Oil

12/13/13

1300

11-13

12/13/13

1300

SMITH

Amesbury, MA

02180



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

TICKET CONTINUATION

TICKET No. 031920

CUSTOMER
American Warrior Inc

WELL
Crane 11-17

DATE
12/6/2018

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT		AMOUNT	
		LOC	ACCT	DE			QTY	U/M	QTY	U/M		PRICE
325						Standard Cement			200	sk	13.00	2600.00
279						Bentonite Gel			4	sk	30.00	120.00
283						Salt			1100	lbs	0.20	220.00
292						Haked - 322			150	lbs	8.00	1200.00
276						Flocele			50	lbs	2.50	125.00
290						D-Air			78	gal	4.20	294.00
581						SERVICE CHARGE			1		25.00	25.00
583						MILEAGE CHARGE			20500	TON MILES	0.85	17425.00
						LOADED MILES			130			
						CUBIC FEET			200			
						CONTINUATION TOTAL						5954.00

JOB LOG

SWIFT Services, Inc.

DATE 12/5/2008 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
American Warrior Inc		11-17		Gano		Longstring		031920	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0330								On Location 5 1/2" 3 15.5# RTD: 4998 SJ: 21.55 TP: 4995 Cent: 1, 3, 5, 7, 9, 11, 13, 42, 48 Basket: 78
	0730								Start 5 1/2" 15.5# Casing in well
	1015								Drop ball - Circulate
	1110	6	12		✓		0		Pump 500 gal Mudflush
		6	20		✓		0		Pump 20 bbl KCL flush
	1120		7-5		✓		0		Plug RH MH [30, 20]
	1130	4 1/2	38		✓		100		Mix Remaining 150 sks of STD 2% gel 10% salt Cement @ 14.9 ppv
	1145								Wash out Pump + Lines Release Latch down Plug
		6	0		✓		100		Start Displacement
		6	80		✓		250		lift Pressure
		6			✓		750		Max lift Pressure
	1210	6			✓		1800		Land Latch down Plug
									Release Pressure * Plug Hold *
	1215								Wash-up Truck
	1230								Job Complete
									Thank You
									Gideon, Preston, Kirby

SWIFT 2000000

1/2/2000

Time	Activity	Quantity	Unit	Notes
12:30	Job Complete			
12:15	Wash-up Truck			
	Release Pressure			* Plug Hold *
	Start Displacement	100	gal	
	2nd Lift Pressure	70	psi	
	Max Lift Pressure	70	psi	
	1st Lift Pressure	70	psi	
11:45	Wash out Pump + lines			
	Release later down Plug			
11:30	Mix Remnant	100	gal	100 soft Cement @ 1400psi
11:30	Plug RH			MH [30, 200]
11:10	Pump 500 gal Mudflush	0		
	Pump 3000 psi Kill fluid	0		
10:15	Start 15.5" casing in well			
09:30	On Location			
	RTD 4998			
	TP 4998			
	Card: 1, 2, 5, 7, 9, 11, 13, 14, 18			
	Block: 78			

Thank You

1/2/2000

1/2/2000

1/2/2000



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17/25S/36W Kearny KS

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64054

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.11.28 @ 08:46:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: 3033.00 ft (KB)

Time Tool Opened: 11:14:45

Time Test Ended: 17:04:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 3633.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 376.58 psig @ 3635.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.28

End Date: 2018.11.28

Last Calib.: 1899.12.30

Start Time: 08:46:02

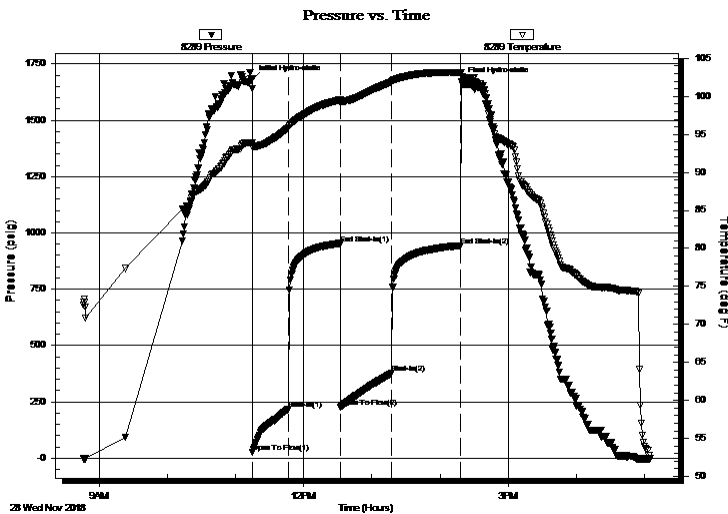
End Time: 17:04:45

Time On Btm: 2018.11.28 @ 11:14:15

Time Off Btm: 2018.11.28 @ 14:18:45

TEST COMMENT: IF: BOB 8 min., strong building blow, 37.8 inches in 30 min.
IS: No blow back
FF: BOB 12 min., strong building blow, 45 inches in 45 min.
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.04	93.86	Initial Hydro-static
1	26.62	93.35	Open To Flow (1)
33	218.72	95.87	Shut-In(1)
78	953.41	99.52	End Shut-In(1)
78	225.80	99.13	Open To Flow (2)
124	376.58	101.88	Shut-In(2)
184	943.44	103.13	End Shut-In(2)
185	1669.56	103.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
945.00	95%W,5%M muddy water	11.10

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17/25S/36W Kearny KS

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64054

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.11.28 @ 08:46:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: 3033.00 ft (KB)

Time Tool Opened: 11:14:45

Time Test Ended: 17:04:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 3633.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 3635.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.28

End Date: 2018.11.28

Last Calib.: 1899.12.30

Start Time: 08:46:02

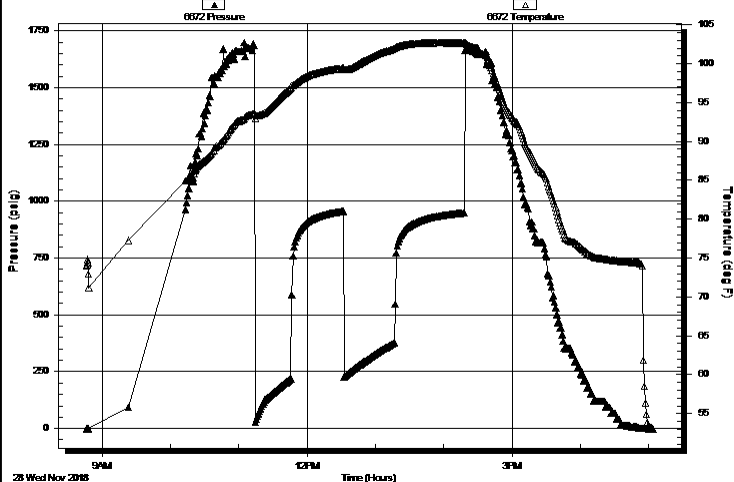
End Time: 17:04:35

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB 8 min., strong building blow , 37.8 inches in 30 min.
IS: No blow back
FF: BOB 12 min., strong building blow , 45 inches in 45 min.
FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
945.00	95%W,5%M muddy water	11.10

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

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64054

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.11.28 @ 08:46:00

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:

37000 ppm

Viscosity: 31.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 19000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
945.00	95%W,5%M muddy w ater	11.097

Total Length: 945.00 ft Total Volume: 11.097 bbl

Num Fluid Samples: 0

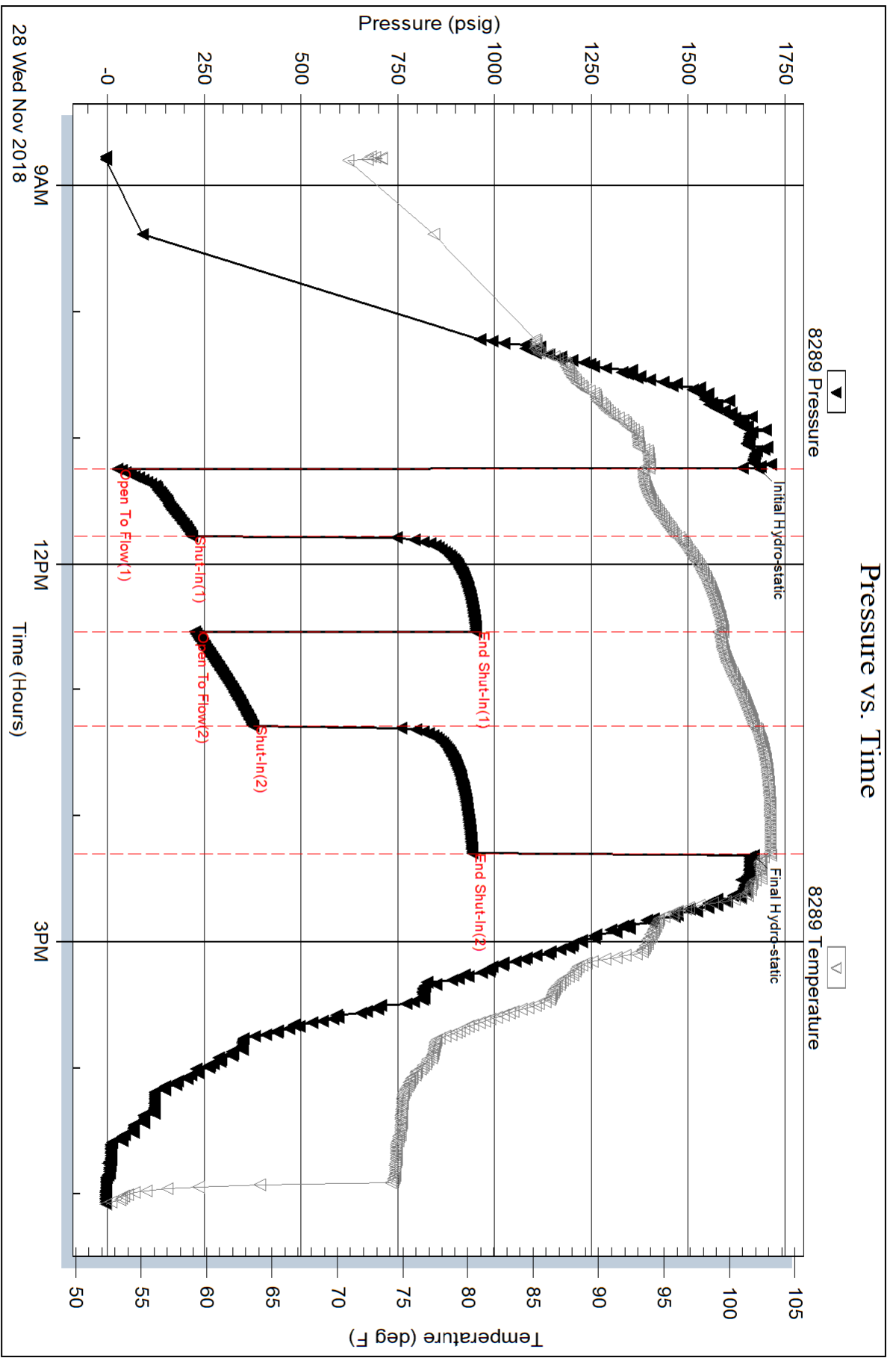
Num Gas Bombs: 0

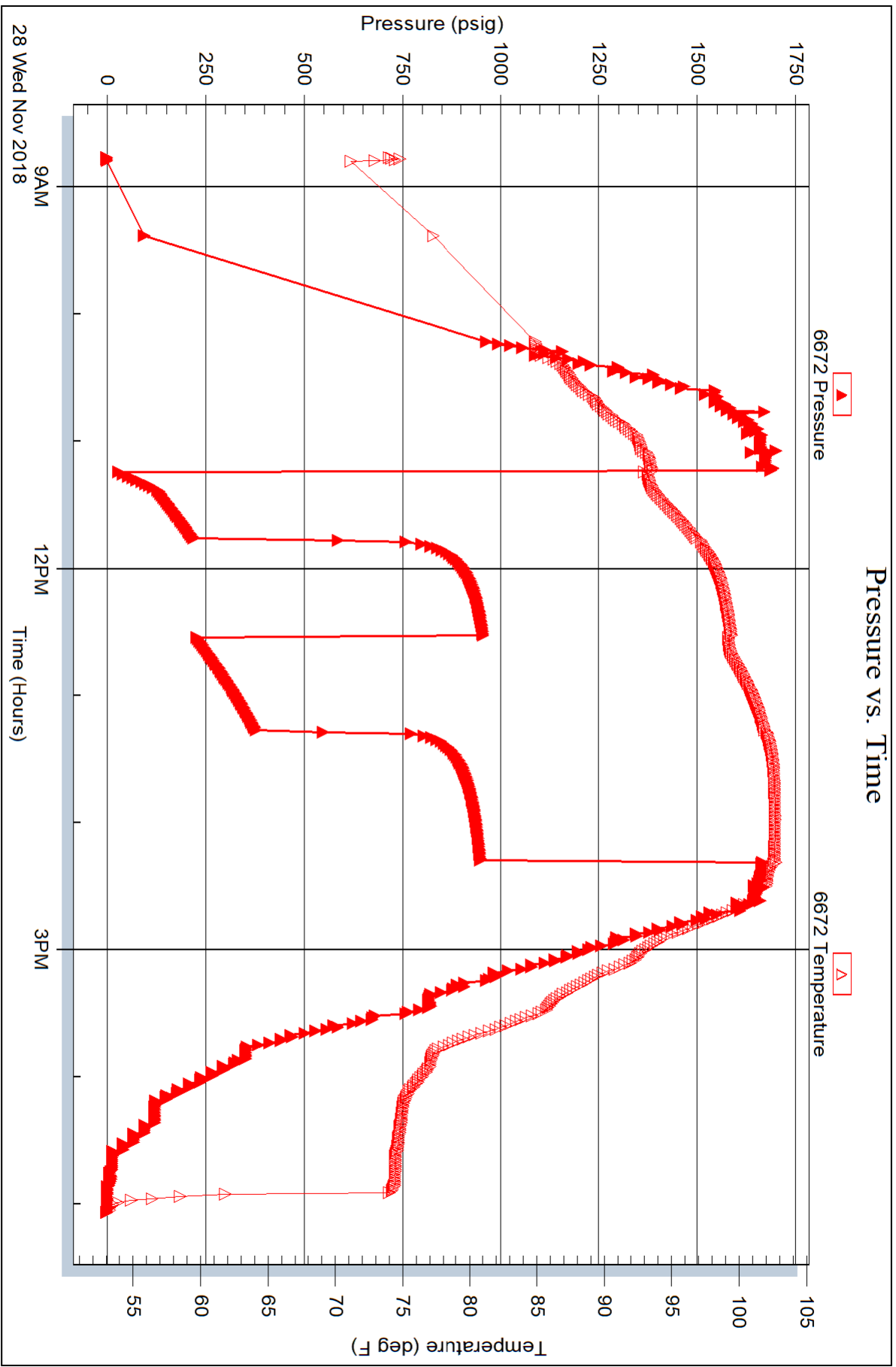
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.192@71F=37000 ppm







DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Gano #11-17

17-25S-36W Kearny,KS

Start Date: 2018.11.28 @ 08:46:00

End Date: 2018.11.28 @ 17:04:45

Job Ticket #: 64054 DST #: 1

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

Printed: 2018.12.06 @ 11:53:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25S-36W Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64054

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.11.28 @ 08:46:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:14:45

Time Test Ended: 17:04:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 3633.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 376.58 psig @ 3635.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.28

End Date: 2018.11.28

Last Calib.: 1899.12.30

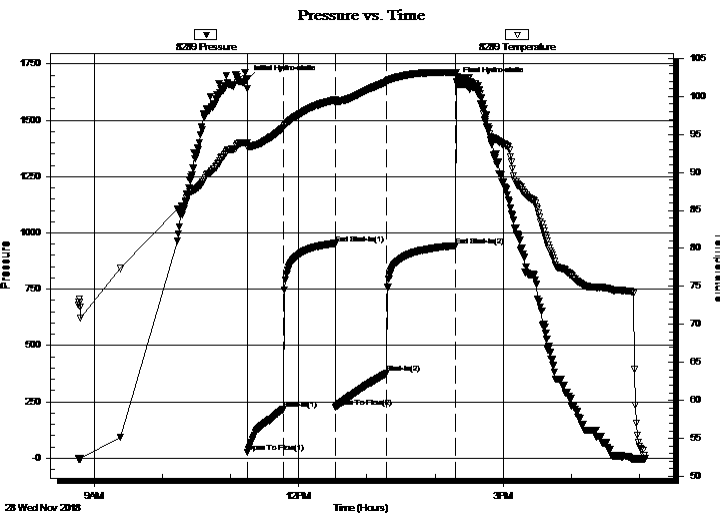
Start Time: 08:46:02

End Time: 17:04:45

Time On Btm: 2018.11.28 @ 11:14:15

Time Off Btm: 2018.11.28 @ 14:18:45

TEST COMMENT: IF: BOB 8 min., strong building blow , 37.8 inches in 30 min.
IS: No blow back
FF: BOB 12 min., strong building blow , 45 inches in 45 min.
FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.04	93.86	Initial Hydro-static
1	26.62	93.35	Open To Flow (1)
33	218.72	95.87	Shut-In(1)
78	953.41	99.52	End Shut-In(1)
78	225.80	99.13	Open To Flow (2)
124	376.58	101.88	Shut-In(2)
184	943.44	103.13	End Shut-In(2)
185	1669.56	103.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
945.00	95%W,5%M muddy water	11.10

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25S-36W Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64054

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.11.28 @ 08:46:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:14:45

Time Test Ended: 17:04:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 3633.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 3635.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.28

End Date: 2018.11.28

Last Calib.: 1899.12.30

Start Time: 08:46:02

End Time: 17:04:34

Time On Btm:

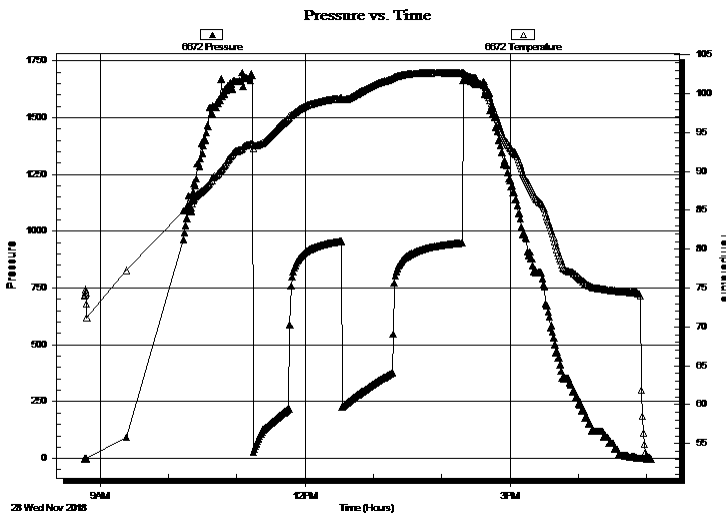
Time Off Btm:

TEST COMMENT: IF: BOB 8 min., strong building blow , 37.8 inches in 30 min.

IS: No blow back

FF: BOB 12 min., strong building blow , 45 inches in 45 min.

FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
945.00	95%W,5%M muddy w ater	11.10

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 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64054

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.11.28 @ 08:46:00

Tool Information

Drill Pipe:	Length: 3400.00 ft	Diameter: 3.80 inches	Volume: 47.69 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: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 48.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	3633.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3611.00	
Hydraulic tool	5.00			3616.00	
Jars	5.00			3621.00	
Safety Joint	3.00			3624.00	
Packer	5.00			3629.00	27.00 Bottom Of Top Packer
Packer	4.00			3633.00	
Stubb	1.00			3634.00	
Perforations	1.00			3635.00	
Recorder	0.00	8289	Inside	3635.00	
Recorder	0.00	6672	Outside	3635.00	
Perforations	32.00			3667.00	
Bullnose	3.00			3670.00	37.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25S-36W Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64054

DST#: 1

ATTN: Luke Thompson

Test Start: 2018.11.28 @ 08:46:00

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:

37000 ppm

Viscosity: 31.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 19000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
945.00	95%W,5%M muddy w ater	11.097

Total Length: 945.00 ft Total Volume: 11.097 bbl

Num Fluid Samples: 0

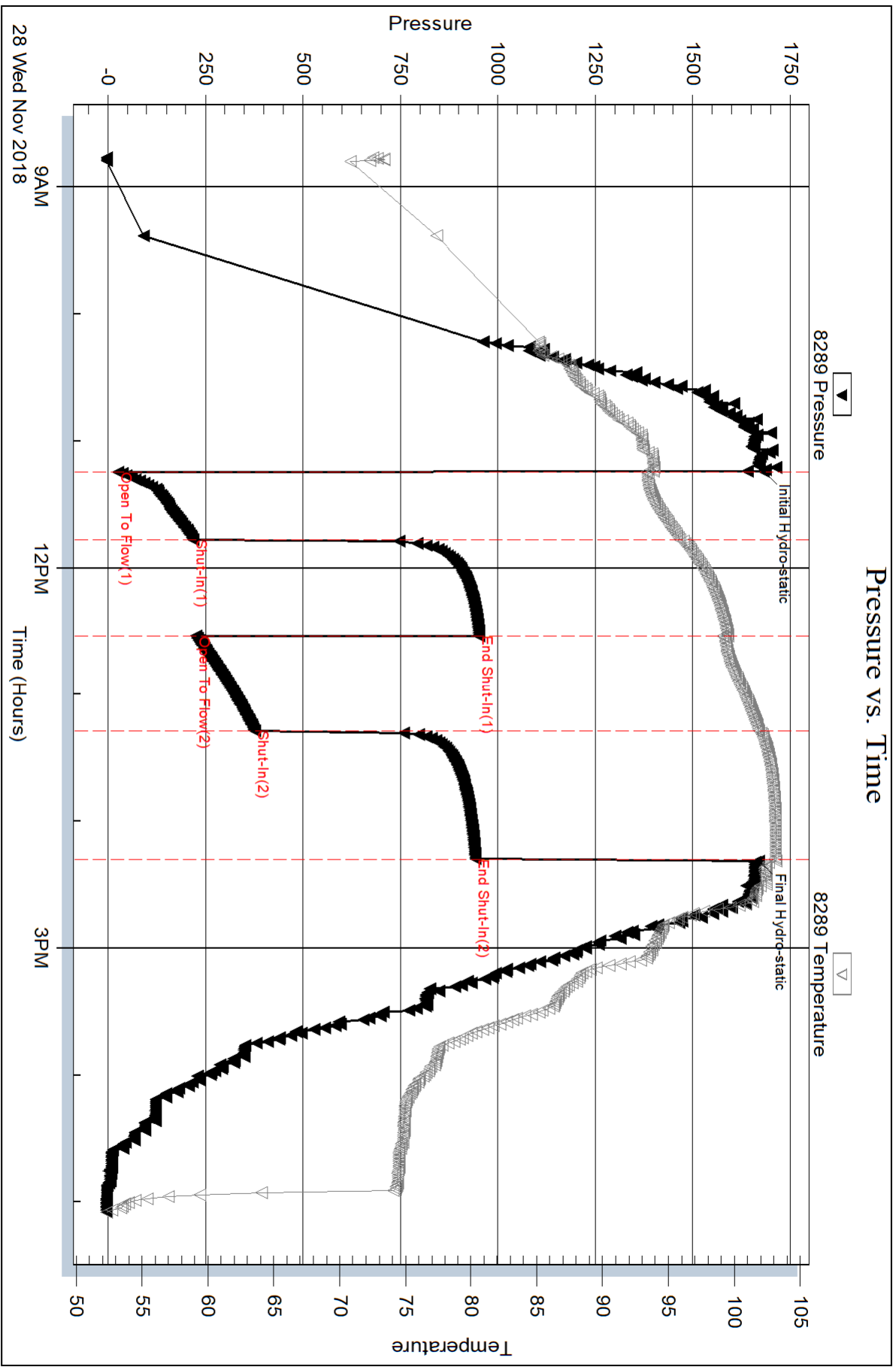
Num Gas Bombs: 0

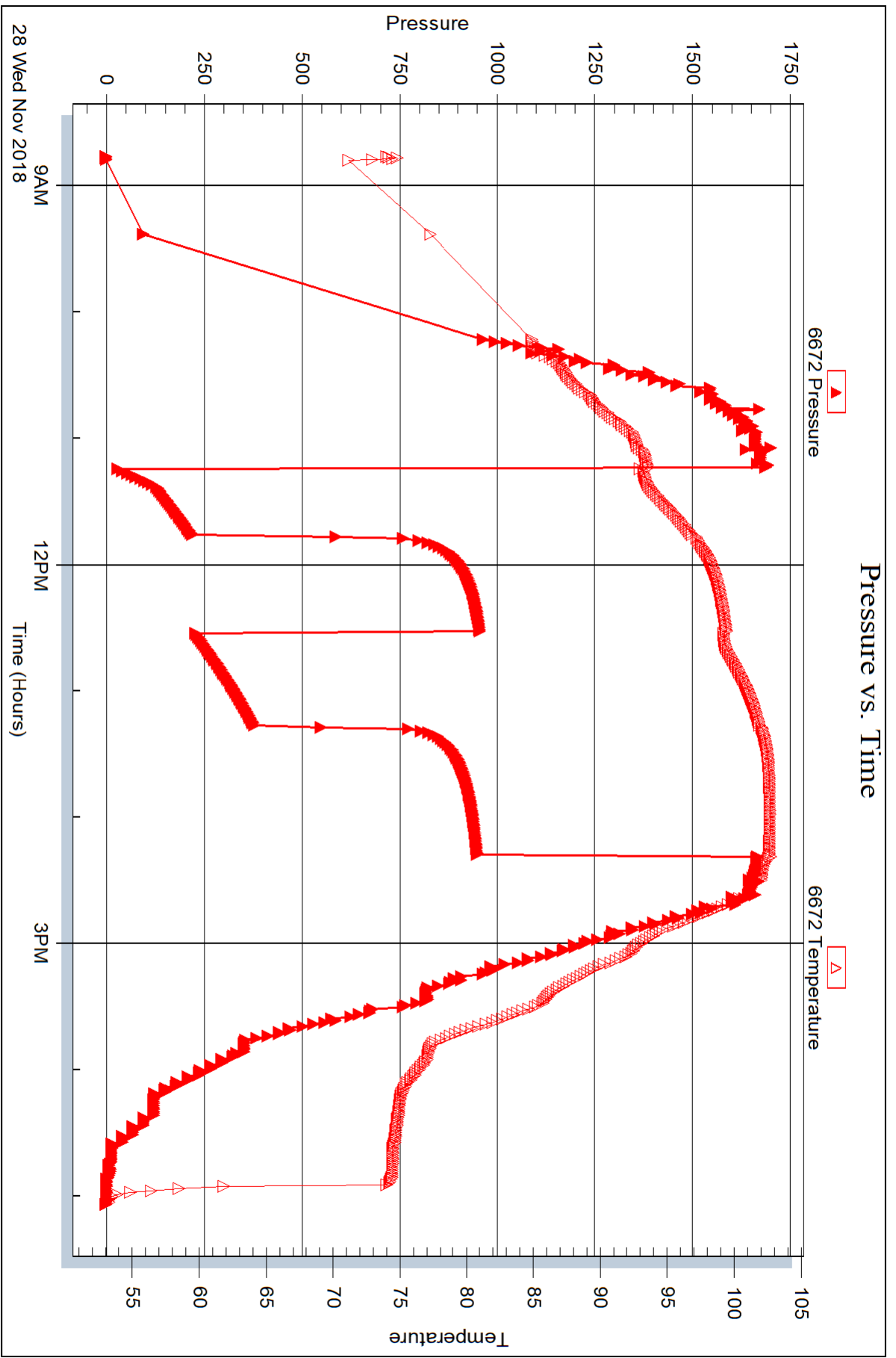
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.192@71F=37000 ppm







DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Gano #11-17

17-25S-36W Kearny,KS

Start Date: 2018.11.30 @ 11:45:00

End Date: 2018.11.30 @ 18:23:54

Job Ticket #: 64055 DST #: 2

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

Printed: 2018.12.06 @ 11:52:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25S-36W Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #11-17

ATTN: Luke Thompson

Job Ticket: 64055

DST#: 2

Test Start: 2018.11.30 @ 11:45:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:27:10

Time Test Ended: 18:23:54

Interval: 4255.00 ft (KB) To 4278.00 ft (KB) (TVD)

Total Depth: 4278.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Reference Elevations: 3033.00 ft (KB)

3022.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8289 Inside

Press@RunDepth: 23.07 psig @ 4257.00 ft (KB)

Start Date: 2018.11.30

End Date: 2018.11.30

Start Time: 11:45:02

End Time: 18:23:55

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2018.11.30 @ 14:26:55

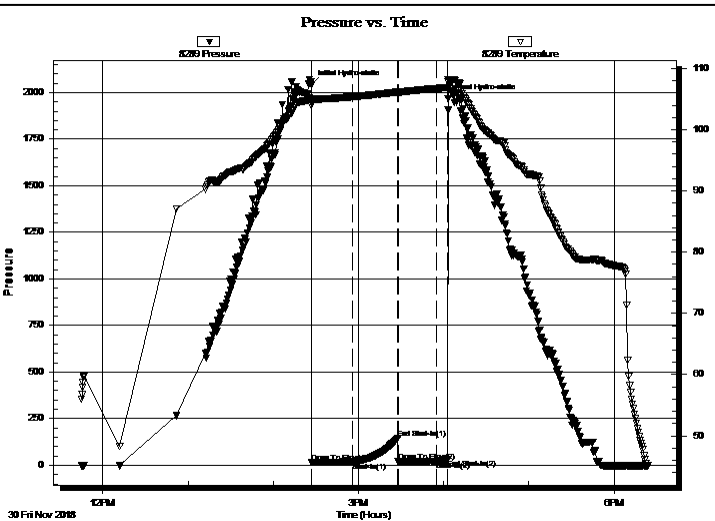
Time Off Btm: 2018.11.30 @ 16:03:09

TEST COMMENT: IF: Weak surface blow, .8 inches in 30 min

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.20	105.02	Initial Hydro-static
1	15.00	104.45	Open To Flow (1)
29	17.89	105.35	Shut-In(1)
61	144.63	106.13	End Shut-In(1)
61	18.94	106.06	Open To Flow (2)
88	23.07	106.73	Shut-In(2)
96	30.82	106.90	End Shut-In(2)
97	1968.40	107.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	oil spotted mud	0.05

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: Luke Thompson

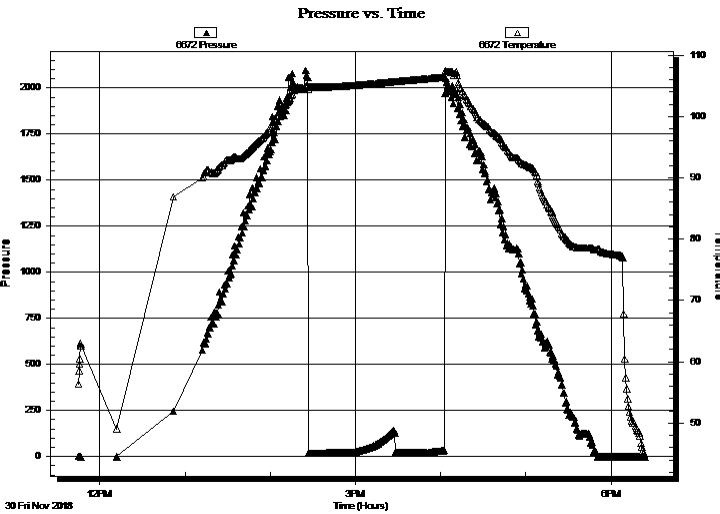
17-25S-36W Kearny,KS
Gano #11-17
 Job Ticket: 64055 **DST#: 2**
 Test Start: 2018.11.30 @ 11:45:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:27:10
 Time Test Ended: 18:23:54
Interval: 4255.00 ft (KB) To 4278.00 ft (KB) (TVD)
 Total Depth: 4278.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 3033.00 ft (KB)
 3022.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6672 Outside
 Press@RunDepth: psig @ 4257.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.30 End Date: 2018.11.30 Last Calib.: 1899.12.30
 Start Time: 11:45:02 End Time: 18:23:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak surface blow, .8 inches in 30 min
 IS: No blow back
 FF: No blow
 FS: No blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	oil spotted mud	0.05

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 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64055

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.11.30 @ 11:45:00

Tool Information

Drill Pipe:	Length: 3997.00 ft	Diameter: 3.80 inches	Volume: 56.07 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: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4255.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	50.00 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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Shut In Tool	5.00			4233.00	
Hydraulic tool	5.00			4238.00	
Jars	5.00			4243.00	
Safety Joint	3.00			4246.00	
Packer	5.00			4251.00	27.00 Bottom Of Top Packer
Packer	4.00			4255.00	
Stubb	1.00			4256.00	
Perforations	1.00			4257.00	
Recorder	0.00	8289	Inside	4257.00	
Recorder	0.00	6672	Outside	4257.00	
Perforations	18.00			4275.00	
Bullnose	3.00			4278.00	23.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25S-36W Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64055

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.11.30 @ 11:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	oil spotted mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

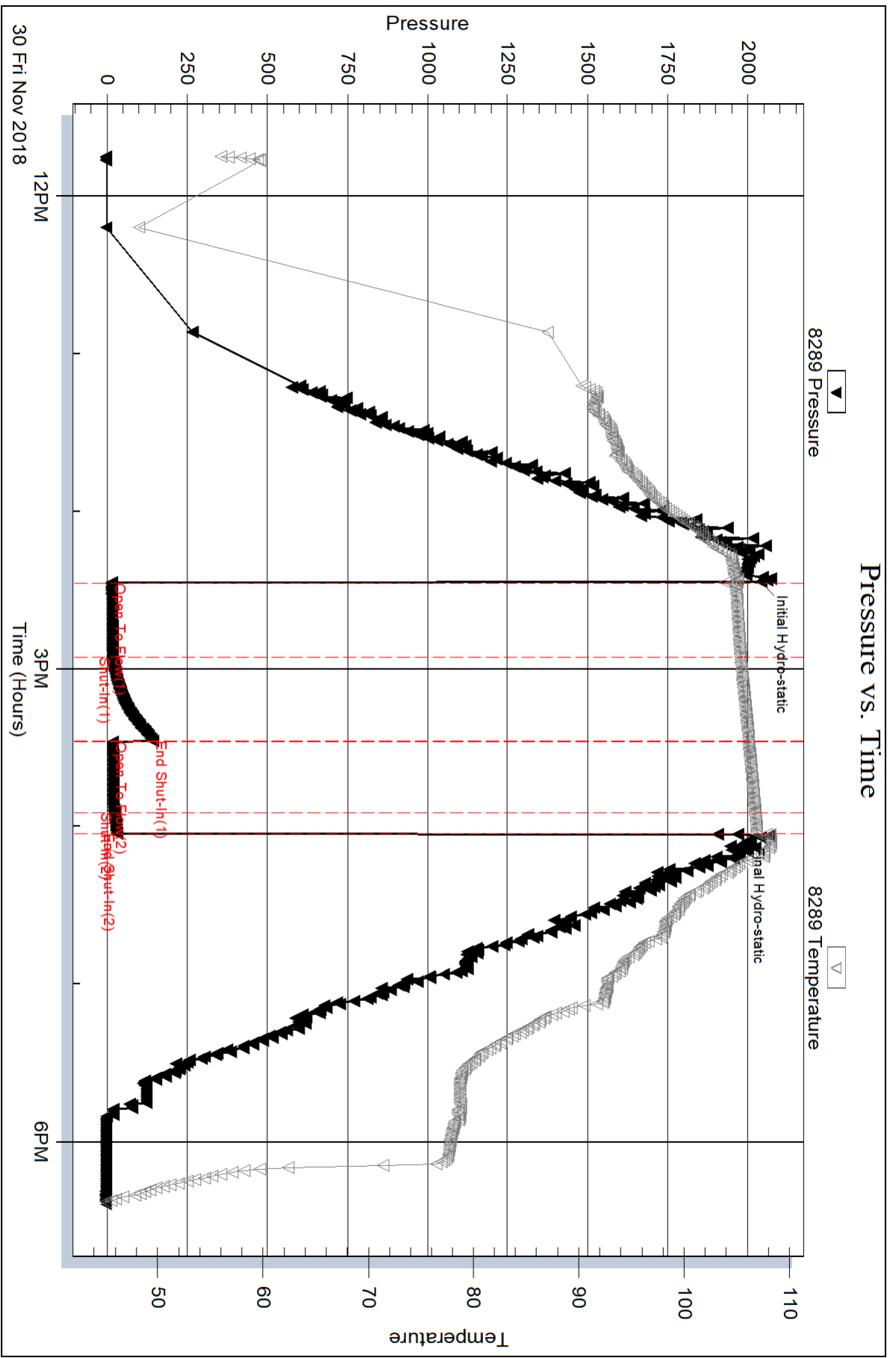
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

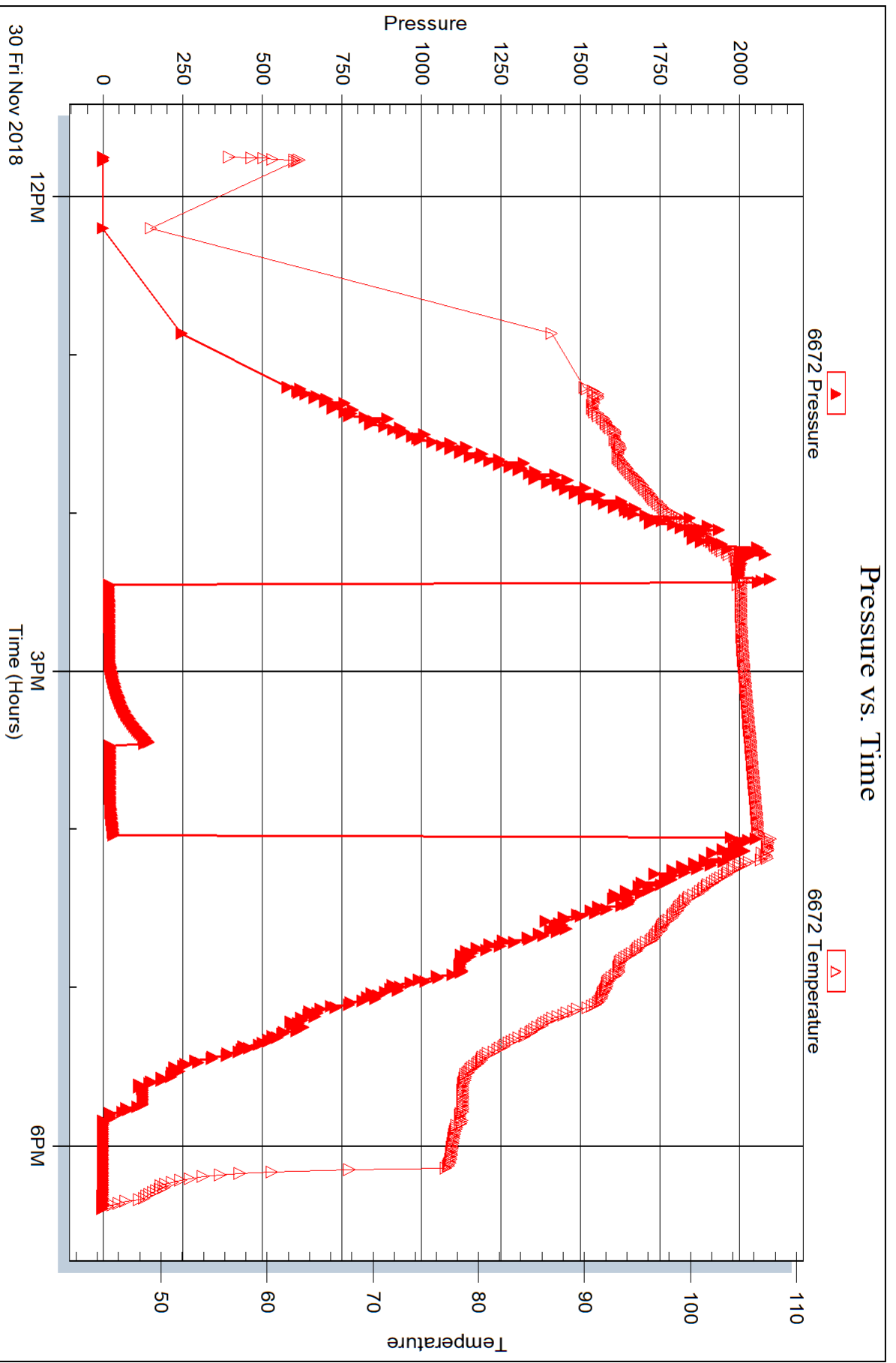


Serial #: 6672

Outside American Warrior, Inc.

Gano #11-17

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64055

Printed: 2018.12.06 @ 11:52:38



DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Gano #11-17

17-25S-36W Kearny,KS

Start Date: 2018.12.02 @ 18:20:00

End Date: 2018.12.03 @ 02:16:09

Job Ticket #: 64056 DST #: 3

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

Printed: 2018.12.06 @ 11:52:11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25S-36W Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64056

DST#: 3

ATTN: Luke Thompson

Test Start: 2018.12.02 @ 18:20:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:27:50

Time Test Ended: 02:16:09

Test Type: Conventional Straddle (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4715.00 ft (KB) To 4800.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4875.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 38.74 psig @ 4718.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.12.02

End Date:

2018.12.03

Last Calib.: 1899.12.30

Start Time: 18:20:02

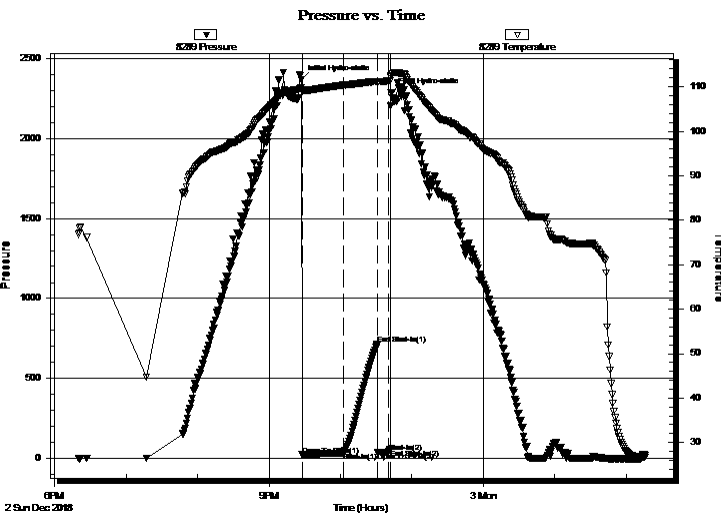
End Time:

02:16:10

Time On Btm: 2018.12.02 @ 21:27:20

Time Off Btm: 2018.12.02 @ 22:42:35

TEST COMMENT: IF: Weak surface blow, .9 inches is 30 min
IS: No blow back
FF: No blow
FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2368.54	109.84	Initial Hydro-static
1	21.83	109.05	Open To Flow (1)
36	39.03	110.37	Shut-In(1)
64	711.48	111.21	End Shut-In(1)
64	34.57	110.78	Open To Flow (2)
74	38.74	111.36	Shut-In(2)
75	54.98	111.43	End Shut-In(2)
76	2285.69	112.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

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 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64056

DST#: 3

ATTN: Luke Thompson

Test Start: 2018.12.02 @ 18:20:00

Tool Information

Drill Pipe:	Length: 4471.00 ft	Diameter: 3.80 inches	Volume: 62.72 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: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 63.89 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft	String Weight: Initial 83000.00 lb		
Depth to Top Packer:	4715.00 ft	Final 83000.00 lb		
Depth to Bottom Packer:	4875.00 ft			
Interval between Packers:	160.00 ft			
Tool Length:	187.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Graphs did not match, good straddle

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4693.00	
Hydraulic tool	5.00			4698.00	
Jars	5.00			4703.00	
Safety Joint	3.00			4706.00	
Packer	5.00			4711.00	27.00 Bottom Of Top Packer
Packer	4.00			4715.00	
Stubb	1.00			4716.00	
Perforations	2.00			4718.00	
Recorder	0.00	8289	Inside	4718.00	
Recorder	0.00	6672	Outside	4718.00	
Change Over Sub	1.00			4719.00	
Drill Pipe	63.00			4782.00	
Change Over Sub	1.00			4783.00	
Perforations	12.00			4795.00	
Blank Off Sub	1.00			4796.00	
Packer - Shale	4.00			4800.00	
Stubb	1.00			4801.00	
Perforations	6.00			4807.00	
Recorder	0.00	6663	Below	4807.00	
Change Over Sub	1.00			4808.00	
Drill Pipe	63.00			4871.00	
Change Over Sub	1.00			4872.00	
Bullnose	3.00			4875.00	160.00 Bottom Packers & Anchor
Total Tool Length:	187.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25S-36W Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64056

DST#: 3

ATTN: Luke Thompson

Test Start: 2018.12.02 @ 18:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

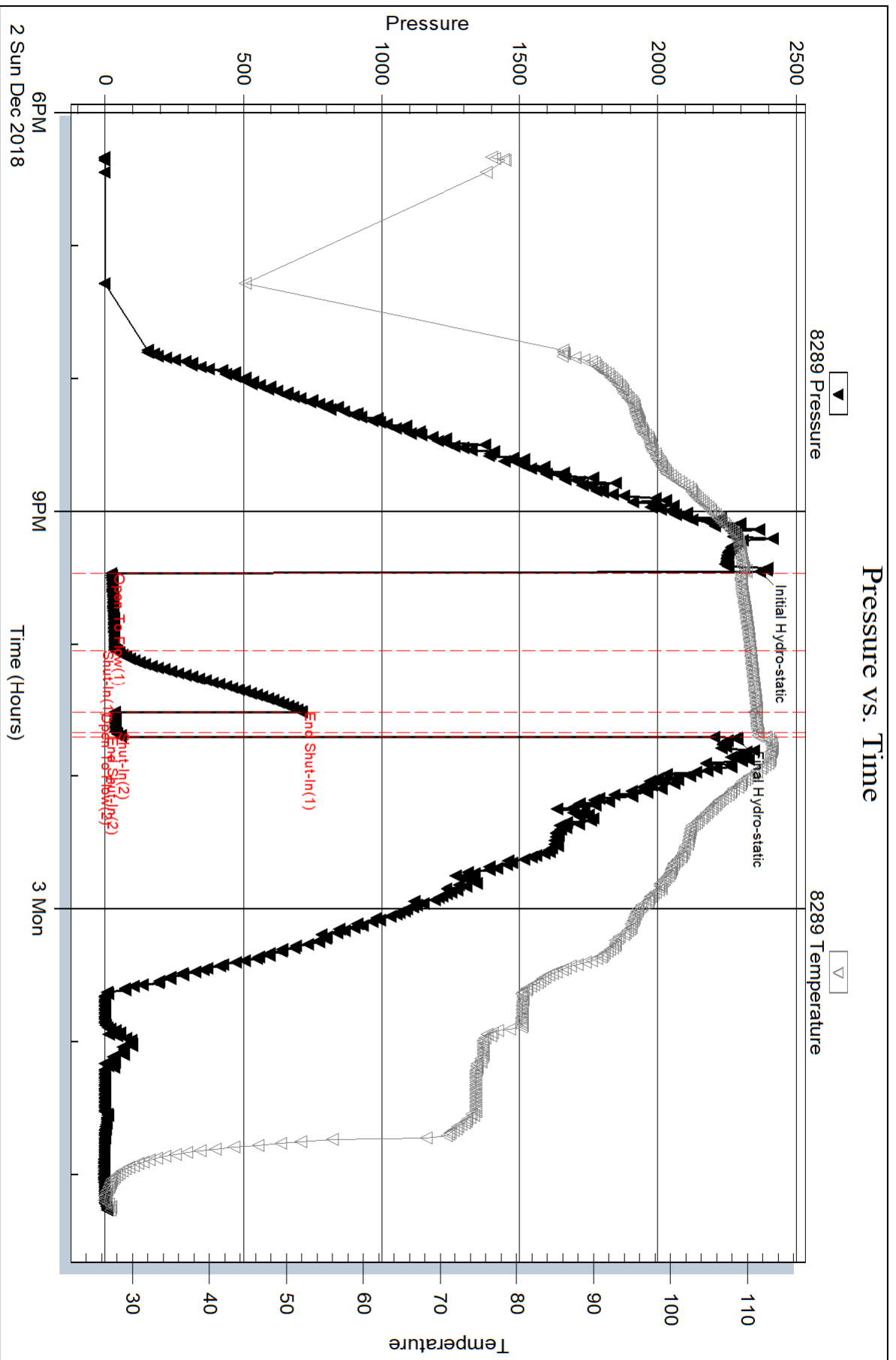
Num Gas Bombs: 0

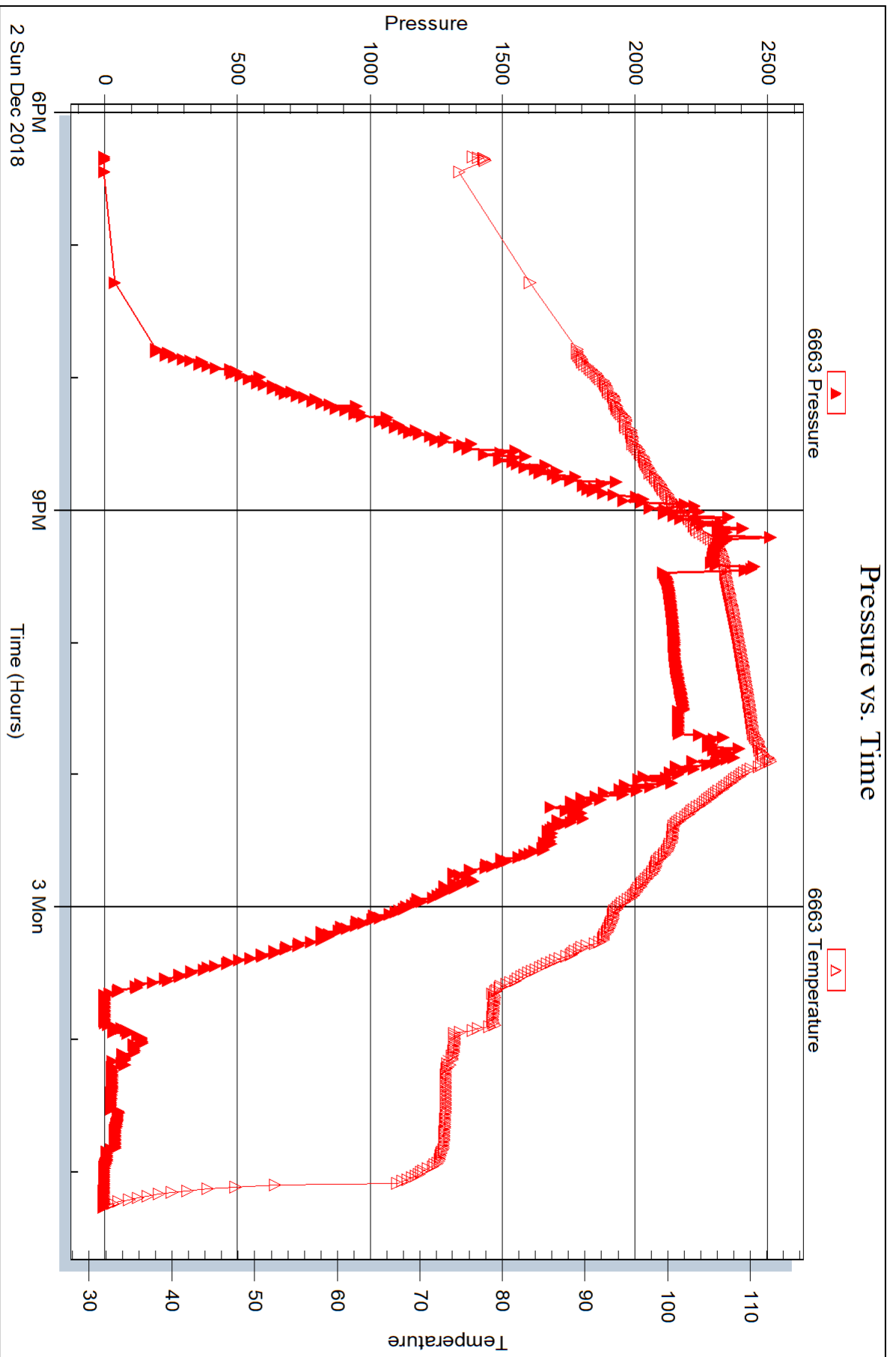
Serial #:

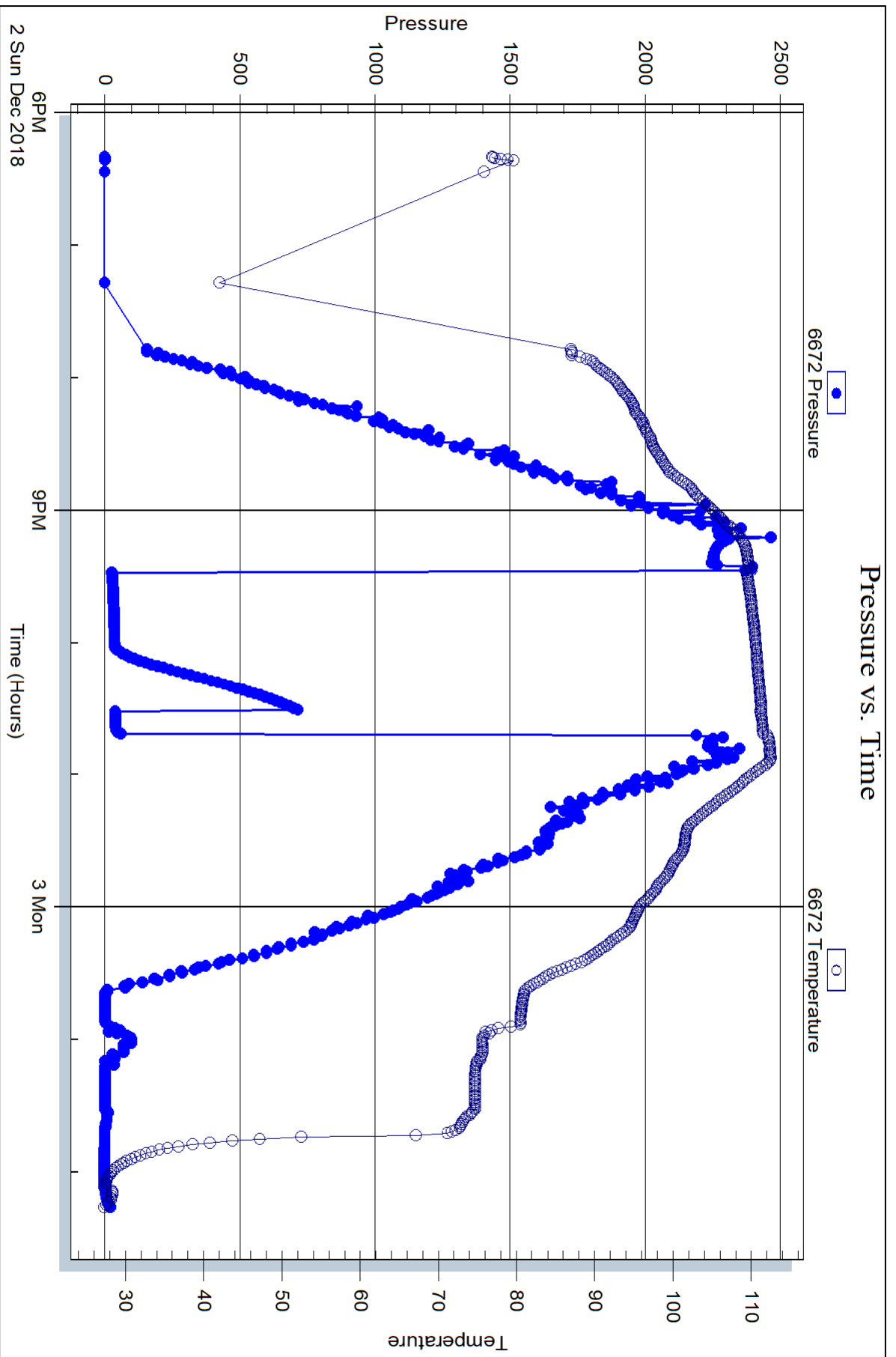
Laboratory Name:

Laboratory Location:

Recovery Comments:









DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Gano #11-17

17-25S-36W Kearny,KS

Start Date: 2018.12.03 @ 16:47:00

End Date: 2018.12.03 @ 23:17:15

Job Ticket #: 64057 DST #: 4

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

Printed: 2018.12.06 @ 11:51:45



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25S-36W Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64057

DST#: 4

ATTN: Luke Thompson

Test Start: 2018.12.03 @ 16:47:00

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:21:50

Time Test Ended: 23:17:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4810.00 ft (KB) To 4955.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4955.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 36.40 psig @ 4812.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.12.03

End Date:

2018.12.03

Last Calib.: 1899.12.30

Start Time: 16:47:02

End Time:

23:17:15

Time On Btm: 2018.12.03 @ 19:21:20

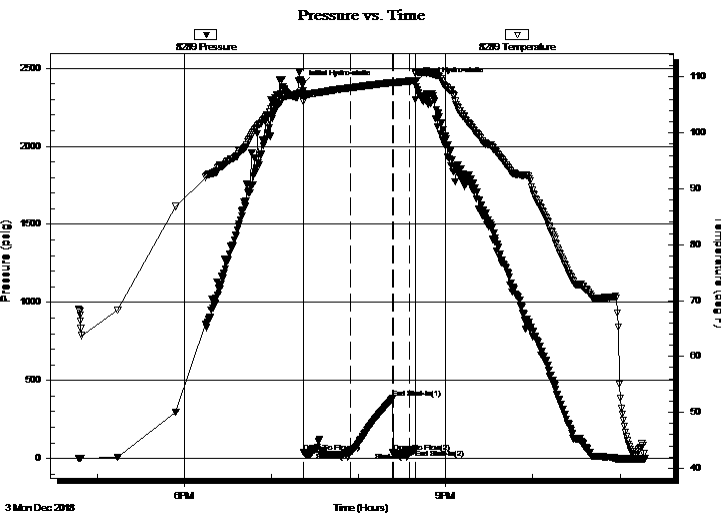
Time Off Btm: 2018.12.03 @ 20:39:20

TEST COMMENT: IF: Weak surface blow, 1 inches in 30 min.

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2392.66	106.78	Initial Hydro-static
1	39.61	105.60	Open To Flow (1)
33	39.77	108.07	Shut-In(1)
62	383.03	109.02	End Shut-In(1)
63	41.13	108.81	Open To Flow (2)
74	36.40	109.27	Shut-In(2)
78	55.78	109.38	End Shut-In(2)
78	2413.91	110.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25S-36W Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64057

DST#: 4

ATTN: Luke Thompson

Test Start: 2018.12.03 @ 16:47:00

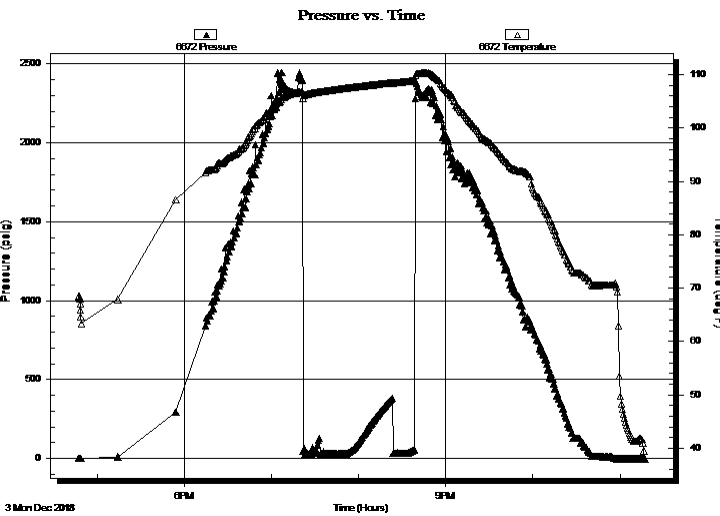
GENERAL INFORMATION:

Formation: **St. Louis**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:21:50
 Tester: Chris Hagman
 Time Test Ended: 23:17:15
 Unit No: 75
 Interval: **4810.00 ft (KB) To 4955.00 ft (KB) (TVD)**
 Reference Elevations: 3033.00 ft (KB)
 Total Depth: 4955.00 ft (KB) (TVD)
 3022.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 4812.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.12.03 End Date: 2018.12.03 Last Calib.: 1899.12.30
 Start Time: 16:47:02 End Time: 23:17:10 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak surface blow , 1 inches in 30 min.
 IS: No blow back
 FF: No blow
 FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

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 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64057

DST#: 4

ATTN: Luke Thompson

Test Start: 2018.12.03 @ 16:47:00

Tool Information

Drill Pipe:	Length: 4566.00 ft	Diameter: 3.80 inches	Volume: 64.05 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: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 83000.00 lb
			<u>Total Volume: 65.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4810.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	145.00 ft			
Tool Length:	172.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4788.00	
Hydraulic tool	5.00			4793.00	
Jars	5.00			4798.00	
Safety Joint	3.00			4801.00	
Packer	5.00			4806.00	27.00 Bottom Of Top Packer
Packer	4.00			4810.00	
Stubb	1.00			4811.00	
Perforations	1.00			4812.00	
Recorder	0.00	8289	Inside	4812.00	
Recorder	0.00	6672	Outside	4812.00	
Perforations	12.00			4824.00	
Change Over Sub	1.00			4825.00	
Drill Pipe	126.00			4951.00	
Change Over Sub	1.00			4952.00	
Bullnose	3.00			4955.00	145.00 Bottom Packers & Anchor

Total Tool Length: 172.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25S-36W Kearny,KS

PO Box 399
Garden City, KS 67846

Gano #11-17

Job Ticket: 64057

DST#: 4

ATTN: Luke Thompson

Test Start: 2018.12.03 @ 16:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 48.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

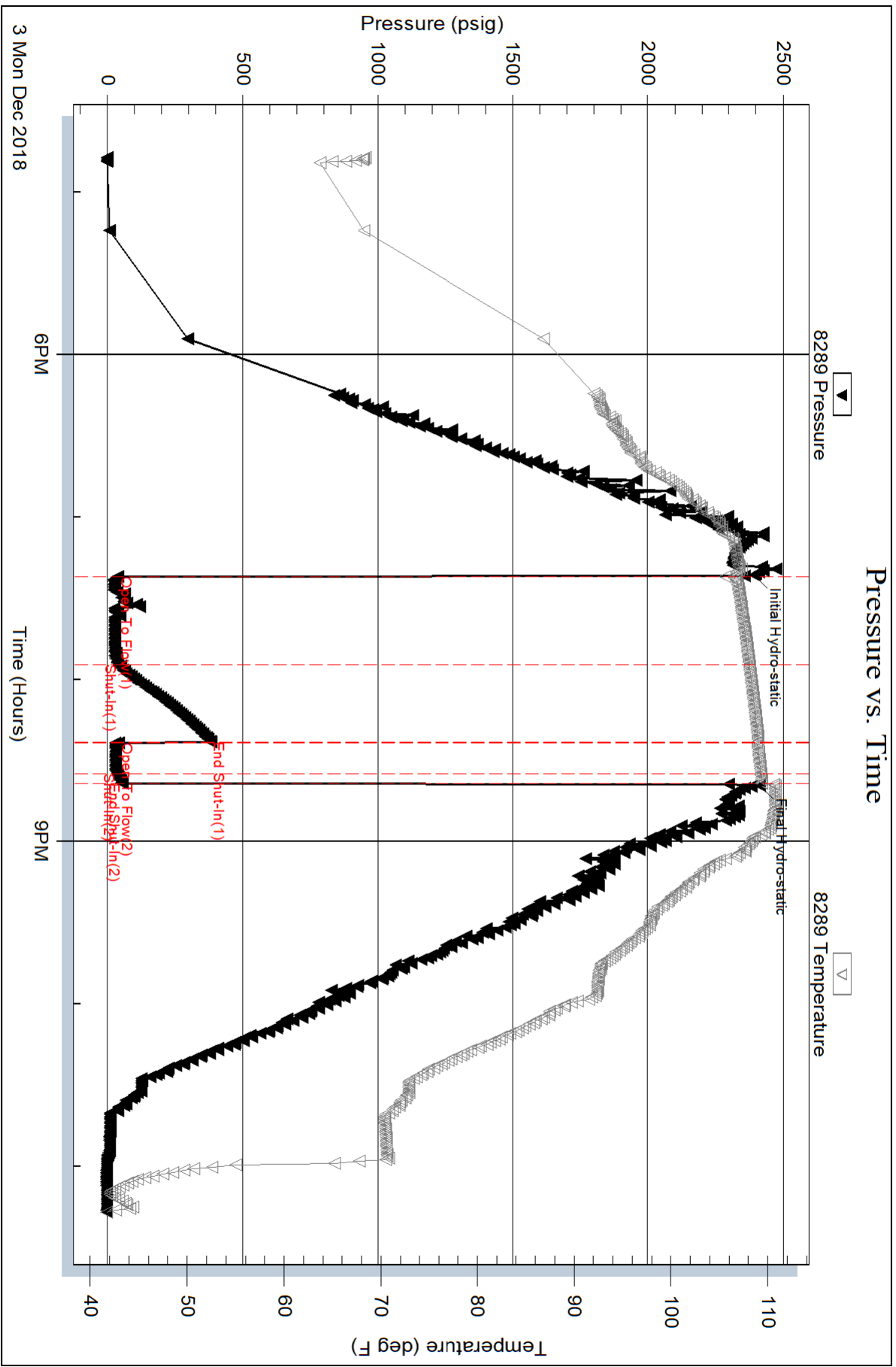
Num Gas Bombs: 0

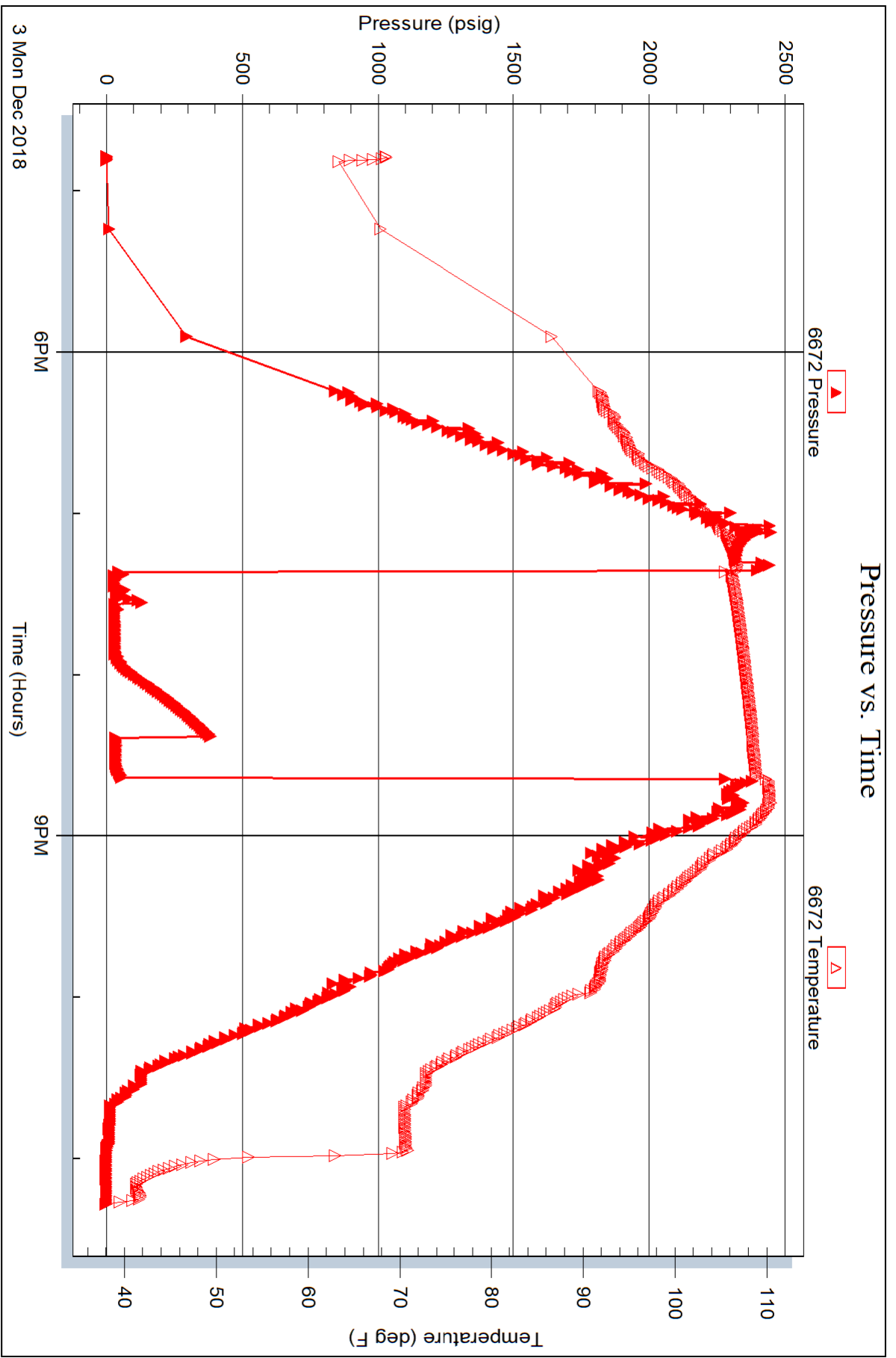
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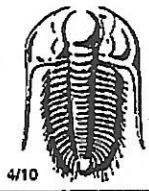
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64054

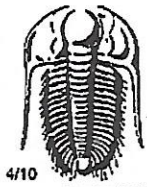
Well Name & No. Gano 11-17 Test No. 1 Date 11-28-18
 Company American Warrior, Inc. Elevation 3033 KB 3022 GL
 Address P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 17 Twp 25S Rge. 36 W Co. Kearny State KS

Interval Tested 3633-3670 Zone Tested Toronto
 Anchor Length 37' Drill Pipe Run 3400 Mud Wt. 9.6
 Top Packer Depth 3665 Drill Collars Run 2317 Vis 31
 Bottom Packer Depth 3670 Wt. Pipe Run N.A. WL NB
 Total Depth 3670 Chlorides 19,000 ppm System LCM 1#
 Blow Description IF: BOB 8 min., strong building blow, 37.8 inches in 30 min
ISB: No blow back
FF: BOB 12 min., strong building blow, 45 inches in 45 min
FSB: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>945</u>	<u>muddy water</u>			<u>95</u>	<u>5</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 945 BHT 103 Gravity _____ API RW 192 @ 71 °F Chlorides 37000 ppm
 (A) Initial Hydrostatic 1680 Test CONU 1050 T-On Location 0745
 (B) First Initial Flow 27 Jars 250 T-Started 0845
 (C) First Final Flow 219 Safety Joint 75 T-Open 1115
 (D) Initial Shut-In 953 Circ Sub _____ T-Pulled 1415
 (E) Second Initial Flow 226 Hourly Standby _____ T-Out 1700
 (F) Second Final Flow 377 Mileage NO 110 Comments lets on @ 0846
 (G) Final Shut-In 943 Sampler _____
 (H) Final Hydrostatic 1670 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1485
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1485

Approved By _____ Our Representative Chris Hagan 785-656-3947
 Tritobite 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. 64055

Well Name & No. Gard 1117 Test No. 2 Date 11-30-18
 Company American Warrior, Inc. Elevation 3033 KB 3022 GL
 Address P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 17 Twp 25S Rge. 36W Co. Kearny State KS

Interval Tested 4255-4278 Zone Tested Marmaton
 Anchor Length 23' Drill Pipe Run 3997 Mud Wt. 9.0
 Top Packer Depth ~~4253~~ 4250 Drill Collars Run 237 Vis 56
 Bottom Packer Depth ~~4258~~ 4255 Wt. Pipe Run N.A. WL 7.2
 Total Depth 4278 Chlorides 3800 ppm System LCM 3#
 Blow Description IE: weak surface blow, built to .8 inches
IS: No blow back
FP: No blow
FSB: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>oil spotted mud</u>	<u>Spot</u>			<u>99</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

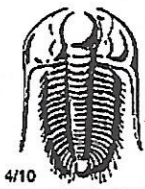
Rec Total 10 BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2040 Test CONN. 1150 T-On Location 1145
 (B) First Initial Flow 15 Jars 250 T-Started 1200
 (C) First Final Flow 18 Safety Joint 75 T-Open ~~1425~~
 (D) Initial Shut-In 145 Circ Sub _____ T-Pulled 1600
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 1815
 (F) Second Final Flow 23 Mileage 110 110 Comments bat on @ 1145
 (G) Final Shut-In 31 Sampler _____
 (H) Final Hydrostatic 1968 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1585
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1585

Approved By _____

Our Representative Chris Hegrad

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 note 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. 64056

Well Name & No. Gano 11-17 Test No. 3 Date 12-2-18
 Company AWI Elevation 3033 KB 3022 GL
 Address P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 17 Twp 25S Rge. 36W Co. Keosauqua State KS

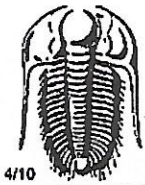
Interval Tested 4715 - 4800 Zone Tested Morrow
 Anchor Length 85' Drill Pipe Run 4471 Mud Wt. 9.3
 Top Packer Depth 4710 Drill Collars Run 237 Vis 50
 Bottom Packer Depth 4715 Wt. Pipe Run N.A. WL 8.0
 Total Depth 4875 Chlorides 4000 ppm System LCM 4[#]
 Blow Description IF: Weak surface blow, .9 inches in 30 min. graphs did not match, good straddle.
IS: No blow back
FF: No blow
FSI: No blow back

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

Rec Total 5 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2369 Test straddle 1150 T-On Location 1700
 (B) First Initial Flow 22 Jars 250 T-Started 1900
 (C) First Final Flow 39 Safety Joint 75 T-Open 2130
 (D) Initial Shut-In 711 Circ Sub _____ T-Pulled 2245
 (E) Second Initial Flow 35 Hourly Standby _____ T-Out 0200
 (F) Second Final Flow 39 Mileage 110 110 Comments bats on @ 1820
 (G) Final Shut-In 55 Sampler _____
 (H) Final Hydrostatic 2286 Straddle 600 Ruined Shale Packer _____
 Shale Packer x1.0 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2435
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2435

Approved By _____ Our Representative Chris Hagren
 Tribolite 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. 64057

Well Name & No. Gano 11-17 Test No. 4 Date 12-3-18
 Company AWI Elevation 3033 KB 3022 GL
 Address P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 17 Twp 25S Rge. 36W Co. Kearny State KS

Interval Tested 4810-4955 Zone Tested ST. Louis
 Anchor Length 145 Drill Pipe Run 4566 Mud Wt. 9.3
 Top Packer Depth 4805 Drill Collars Run 237 Vis 48
 Bottom Packer Depth 4810 Wt. Pipe Run N.A. WL 8.0
 Total Depth 4955 Chlorides 4500 ppm System LCM 4#

Blow Description IF! Weak surface blow, 1 inch in 30 min.
ISB! No blow back
FF! No blow
FSB! No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>S</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 S BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2393 Test CONV. 1150 T-On Location 1600
 (B) First Initial Flow 40 Jars 250 T-Started ~~1645~~ 1645
 (C) First Final Flow 40 Safety Joint 75 T-Open 1920
 (D) Initial Shut-In 383 Circ Sub _____ T-Pulled 2035
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 36 Mileage 110 110 Comments bats on @ 1646
 (G) Final Shut-In ~~383~~ 56 Sampler _____
 (H) Final Hydrostatic 2414 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 10 Day Standby _____
 Final Shut-In S Accessibility _____
 Sub Total 1585 Sub Total _____
 Total 1585 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative Chris Hagner

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

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64055 **DST#: 2**

ATTN: Luke Thompson

Test Start: 2018.11.30 @ 11:45:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 3033.00 ft (KB)

Time Tool Opened: 14:27:10

Time Test Ended: 18:23:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4255.00 ft (KB) To 4278.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4278.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 23.07 psig @ 4257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.30

End Date:

2018.11.30

Last Calib.: 1899.12.30

Start Time: 11:45:02

End Time:

18:23:55

Time On Btm: 2018.11.30 @ 14:26:55

Time Off Btm: 2018.11.30 @ 16:03:09

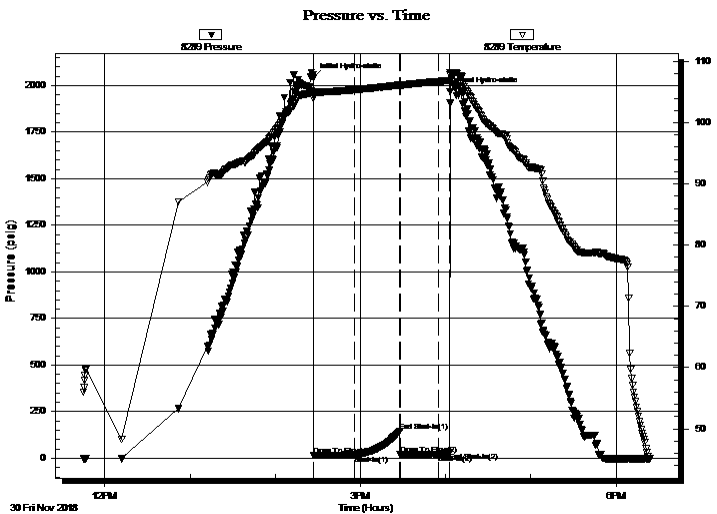
TEST COMMENT: IF: Weak surface blow, .8 inches in 30 min

IS: No blow back

FF: No blow

FS: No blow back

PRESSURE SUMMARY



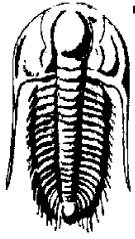
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.20	105.02	Initial Hydro-static
1	15.00	104.45	Open To Flow (1)
29	17.89	105.35	Shut-In(1)
61	144.63	106.13	End Shut-In(1)
61	18.94	106.06	Open To Flow (2)
88	23.07	106.73	Shut-In(2)
96	30.82	106.90	End Shut-In(2)
97	1968.40	107.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	oil spotted mud	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17/25S/36W Kearny KS

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64055

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.11.30 @ 11:45:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 3033.00 ft (KB)

Time Tool Opened: 14:27:10

Time Test Ended: 18:23:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4255.00 ft (KB) To 4278.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4278.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 4257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.30

End Date:

2018.11.30

Last Calib.:

1899.12.30

Start Time: 11:45:02

End Time:

18:23:45

Time On Btm:

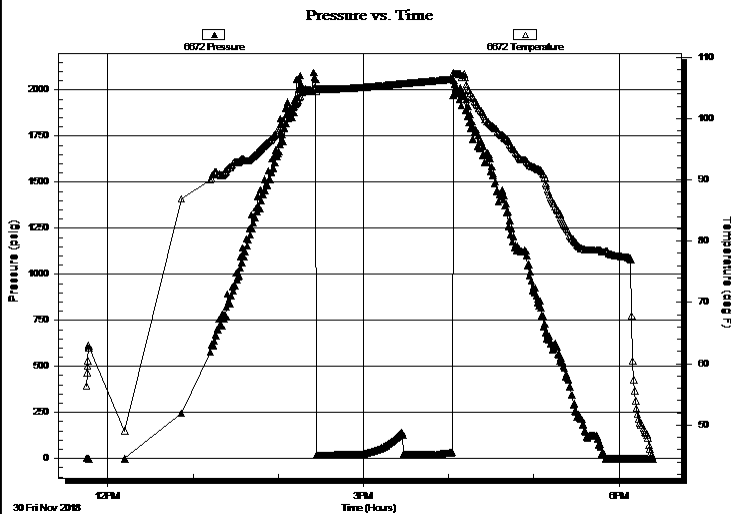
Time Off Btm:

TEST COMMENT: IF: Weak surface blow, .8 inches in 30 min

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	oil spotted mud	0.05

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

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64055

DST#: 2

ATTN: Luke Thompson

Test Start: 2018.11.30 @ 11:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	oil spotted mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

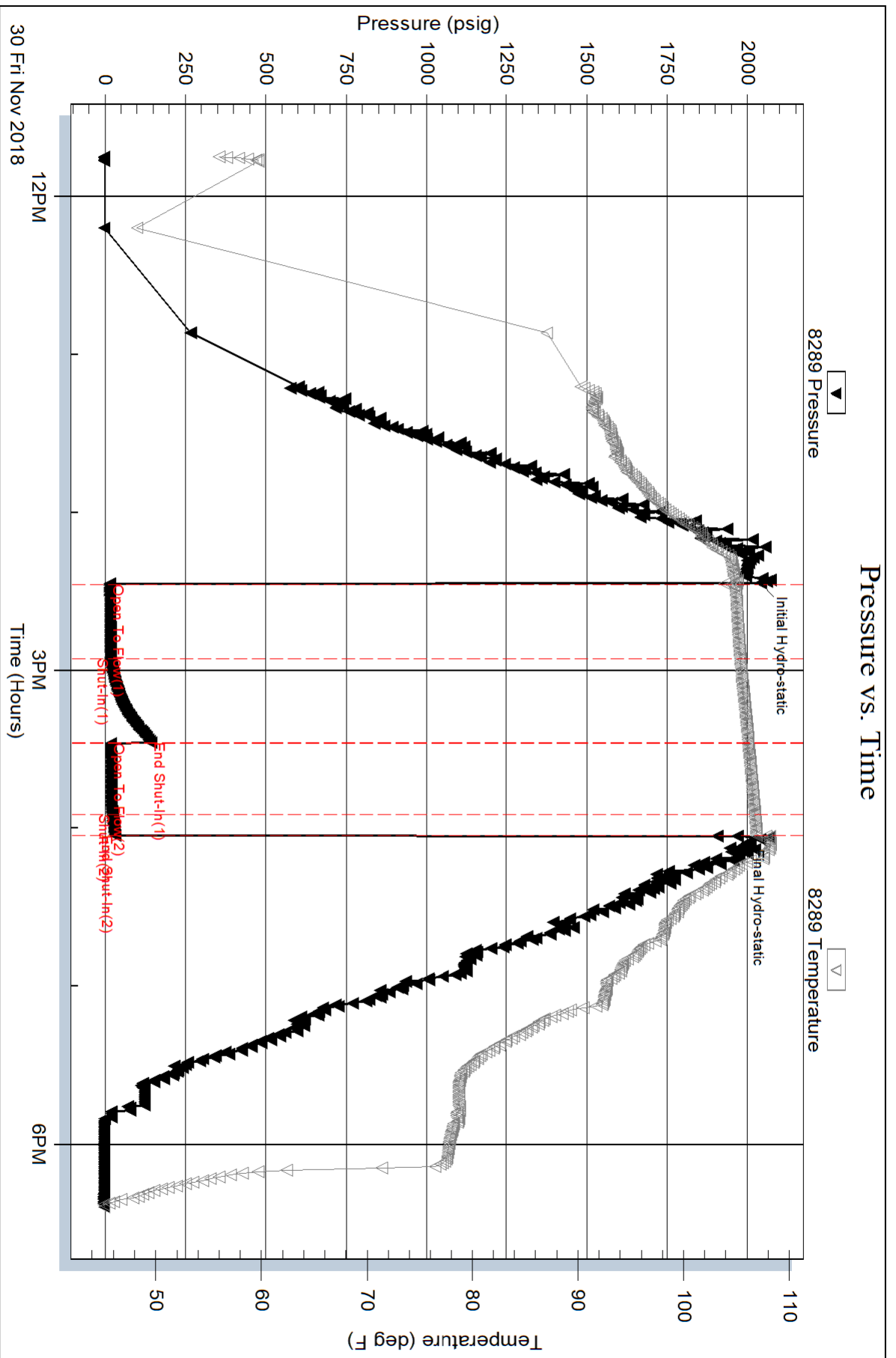
Num Gas Bombs: 0

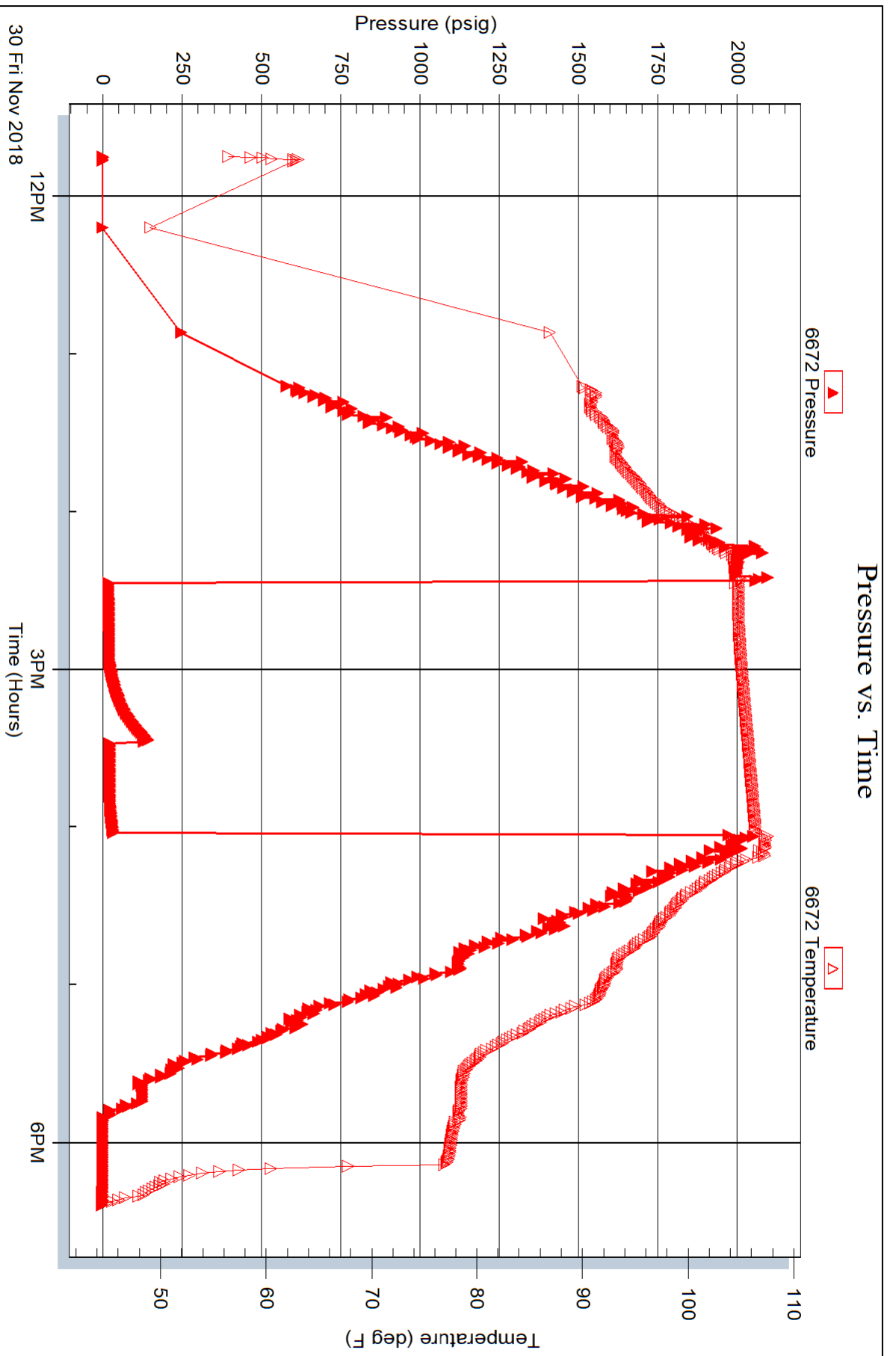
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

17/25S/36W Kearny KS

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64056

DST#: 3

ATTN: Luke Thompson

Test Start: 2018.12.02 @ 18:20:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 3033.00 ft (KB)

Time Tool Opened: 21:27:50

Time Test Ended: 02:16:09

Test Type: Conventional Straddle (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: **4715.00 ft (KB) To 4800.00 ft (KB) (TVD)**

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4875.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 38.74 psig @ 4718.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.12.02

End Date:

2018.12.03

Last Calib.: 1899.12.30

Start Time: 18:20:02

End Time:

02:16:10

Time On Btm: 2018.12.02 @ 21:27:20

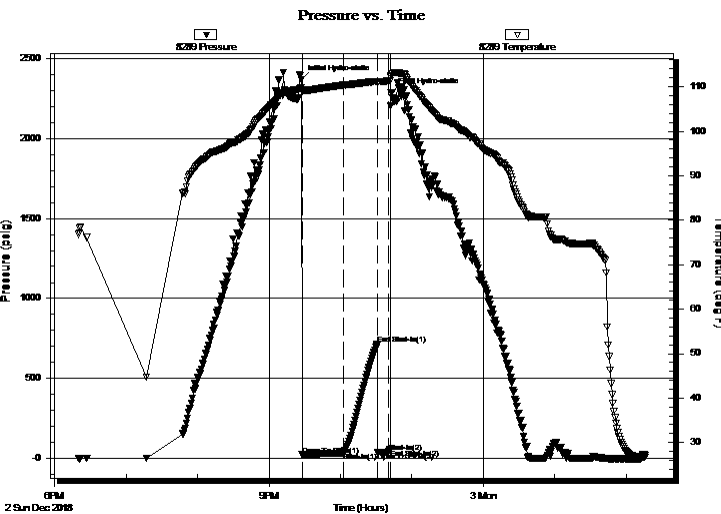
Time Off Btm: 2018.12.02 @ 22:42:35

TEST COMMENT: IF: Weak surface blow, .9 inches is 30 min

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2368.54	109.84	Initial Hydro-static
1	21.83	109.05	Open To Flow (1)
36	39.03	110.37	Shut-In(1)
64	711.48	111.21	End Shut-In(1)
64	34.57	110.78	Open To Flow (2)
74	38.74	111.36	Shut-In(2)
75	54.98	111.43	End Shut-In(2)
76	2285.69	112.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

17/25S/36W Kearny KS

Gano 11-17

Job Ticket: 64056

DST#: 3

Test Start: 2018.12.02 @ 18:20:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 3033.00 ft (KB)

Time Tool Opened: 21:27:50

Time Test Ended: 02:16:09

Test Type: Conventional Straddle (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4715.00 ft (KB) To 4800.00 ft (KB) (TVD)

Total Depth: 4875.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3033.00 ft (KB)

3022.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6672

Outside

Press@RunDepth: psig @ 4718.00 ft (KB)

Start Date: 2018.12.02

End Date: 2018.12.03

Start Time: 18:20:02

End Time: 02:16:20

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

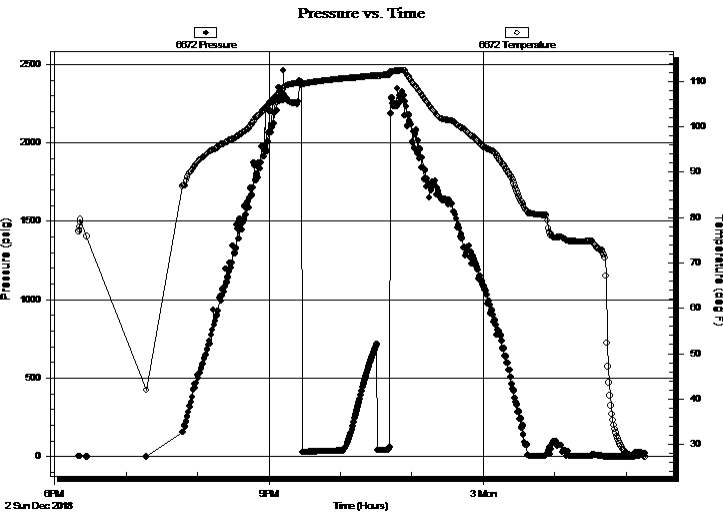
Time Off Btm:

TEST COMMENT: IF: Weak surface blow, .9 inches is 30 min

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

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

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64056

DST#: 3

ATTN: Luke Thompson

Test Start: 2018.12.02 @ 18:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

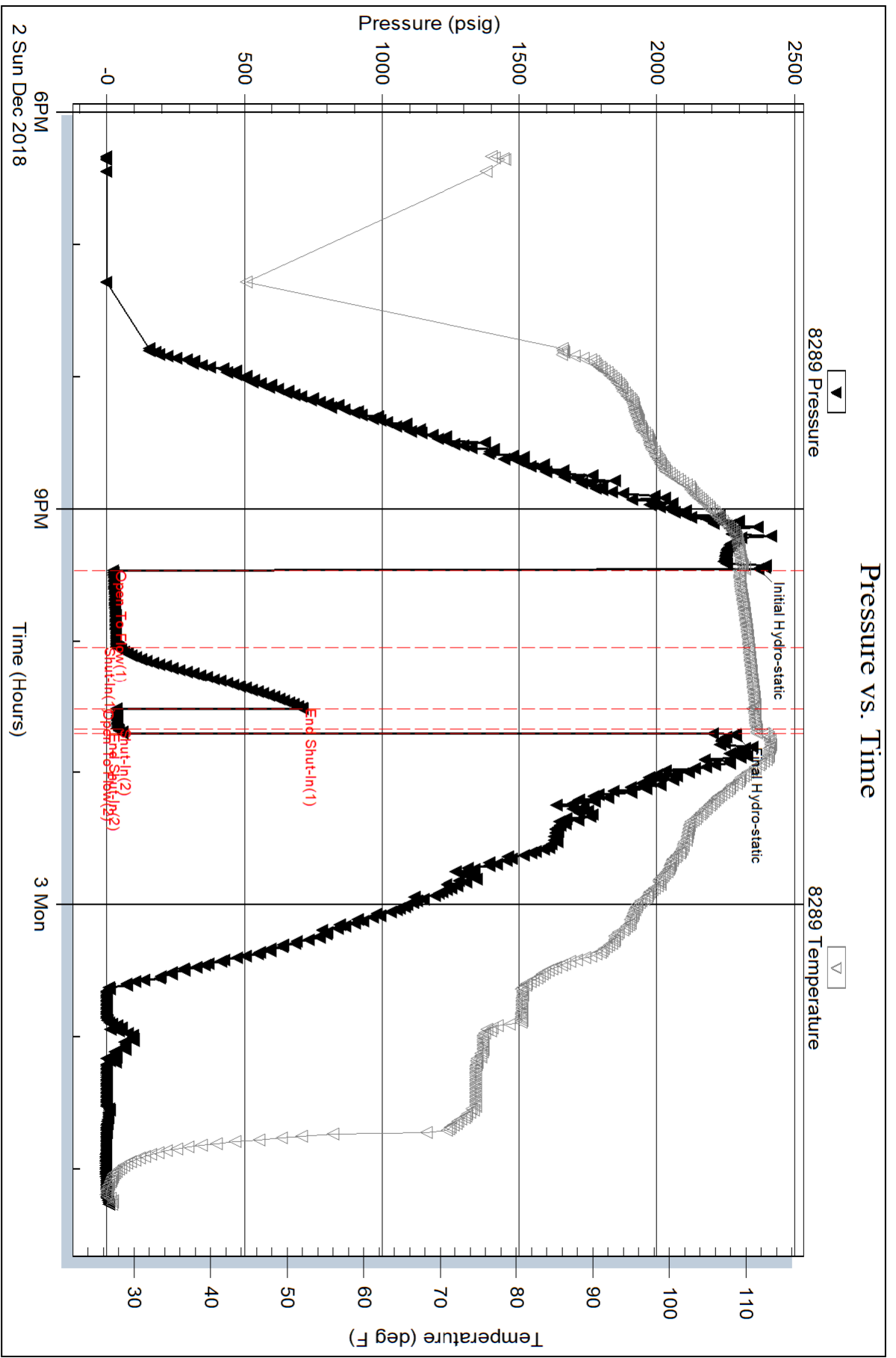
Num Gas Bombs: 0

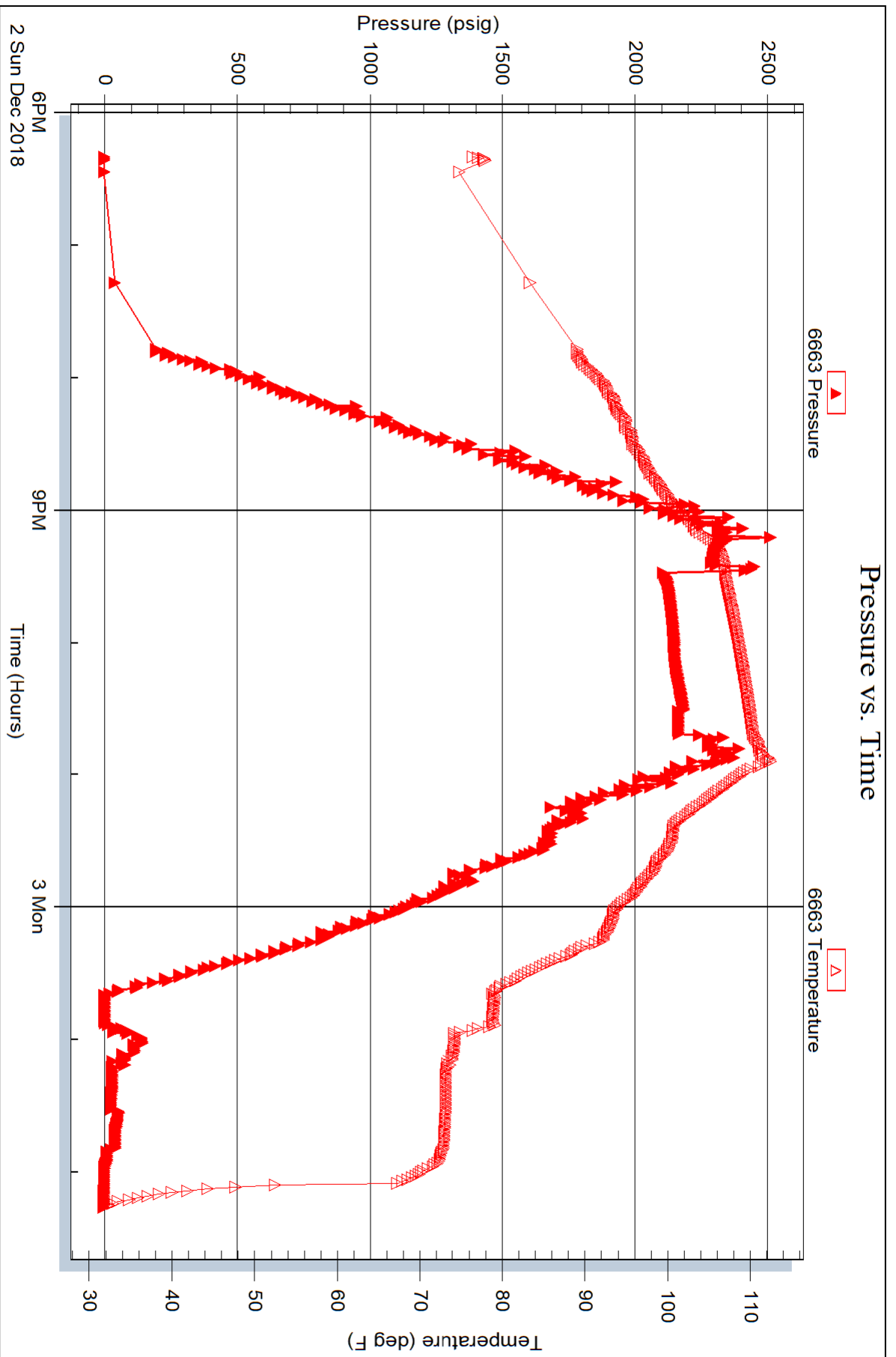
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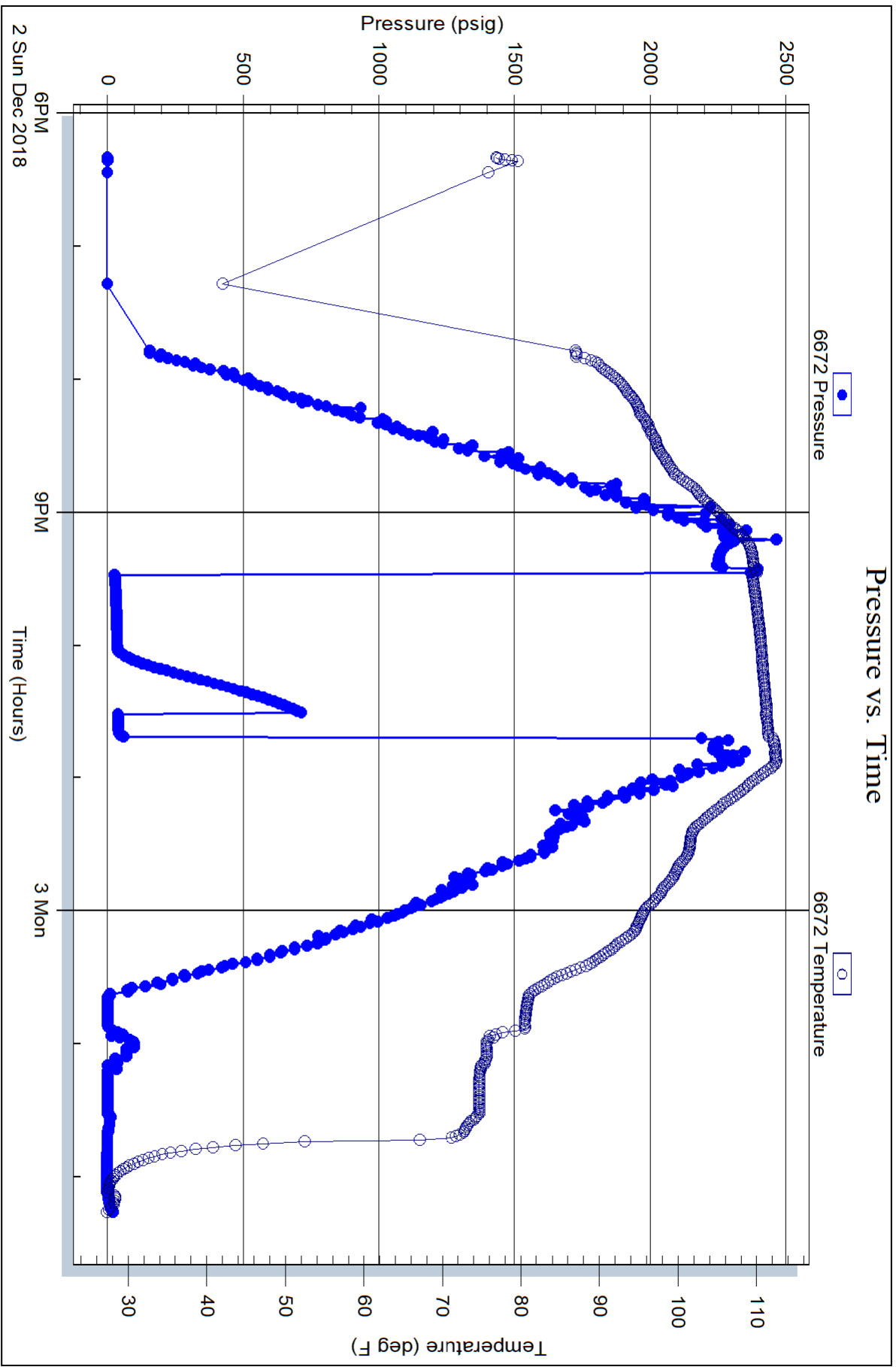
Laboratory Name:

Laboratory Location:

Recovery Comments:









TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17/25S/36W Kearny KS

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64057

DST#: 4

ATTN: Luke Thompson

Test Start: 2018.12.03 @ 16:47:00

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: 3033.00 ft (KB)

Time Tool Opened: 19:21:50

Time Test Ended: 23:17:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4810.00 ft (KB) To 4955.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4955.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 36.40 psig @ 4812.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.12.03

End Date:

2018.12.03

Last Calib.: 1899.12.30

Start Time: 16:47:02

End Time:

23:17:15

Time On Btm: 2018.12.03 @ 19:21:20

Time Off Btm: 2018.12.03 @ 20:39:20

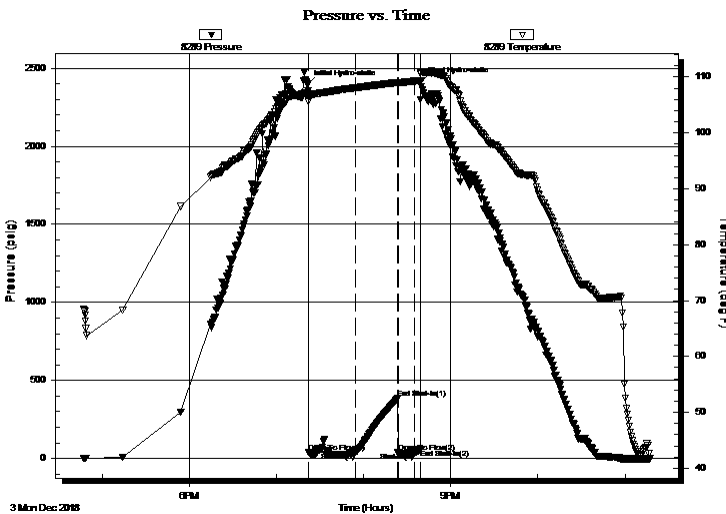
TEST COMMENT: IF: Weak surface blow, 1 inches in 30 min.

IS: No blow back

FF: No blow

FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2392.66	106.78	Initial Hydro-static
1	39.61	105.60	Open To Flow (1)
33	39.77	108.07	Shut-In(1)
62	383.03	109.02	End Shut-In(1)
63	41.13	108.81	Open To Flow (2)
74	36.40	109.27	Shut-In(2)
78	55.78	109.38	End Shut-In(2)
78	2413.91	110.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17/25S/36W Kearny KS

P.O. Box 399
Garden City, KS 67846

Gano 11-17

Job Ticket: 64057

DST#: 4

ATTN: Luke Thompson

Test Start: 2018.12.03 @ 16:47:00

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: 3033.00 ft (KB)

Time Tool Opened: 19:21:50

Time Test Ended: 23:17:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4810.00 ft (KB) To 4955.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4955.00 ft (KB) (TVD)

3022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 4812.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.12.03

End Date:

2018.12.03

Last Calib.:

1899.12.30

Start Time: 16:47:02

End Time:

23:17:10

Time On Btm:

Time Off Btm:

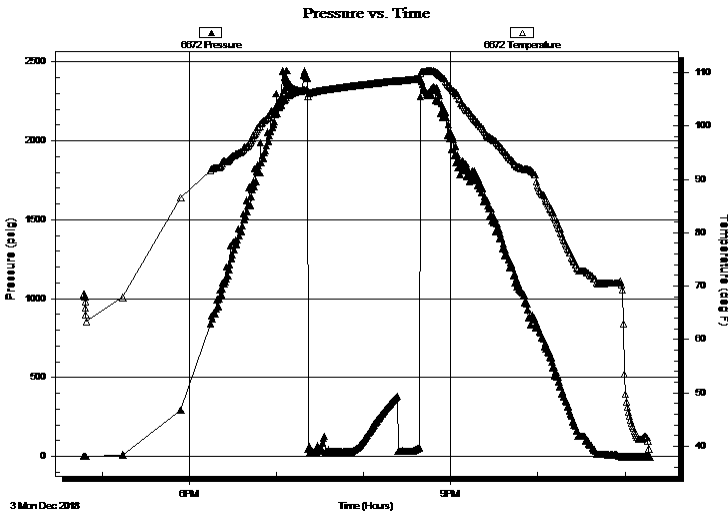
TEST COMMENT: IF: Weak surface blow, 1 inches in 30 min.

IS: No blow back

FF: No blow

FS: No blow back

PRESSURE SUMMARY



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

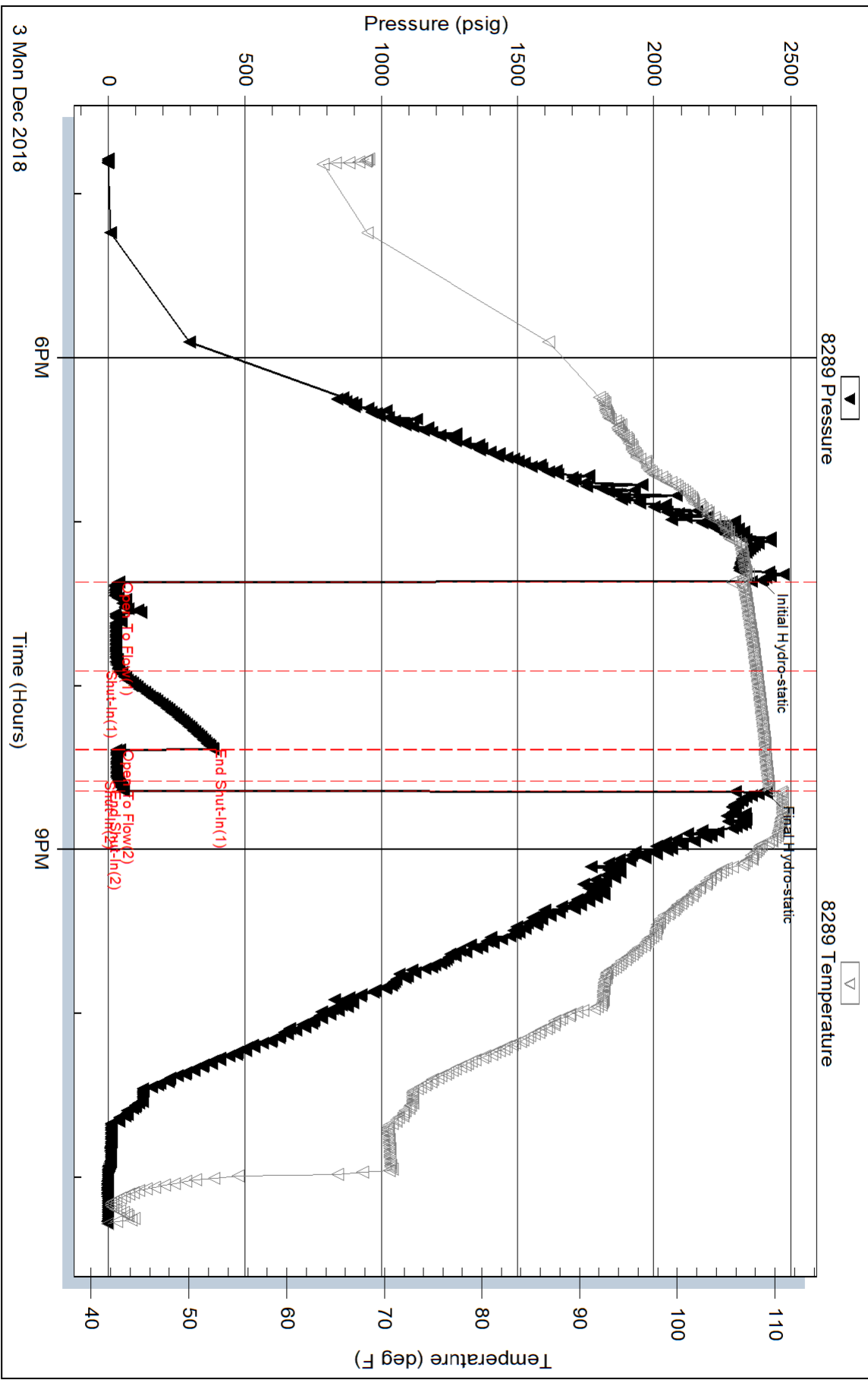
Recovery

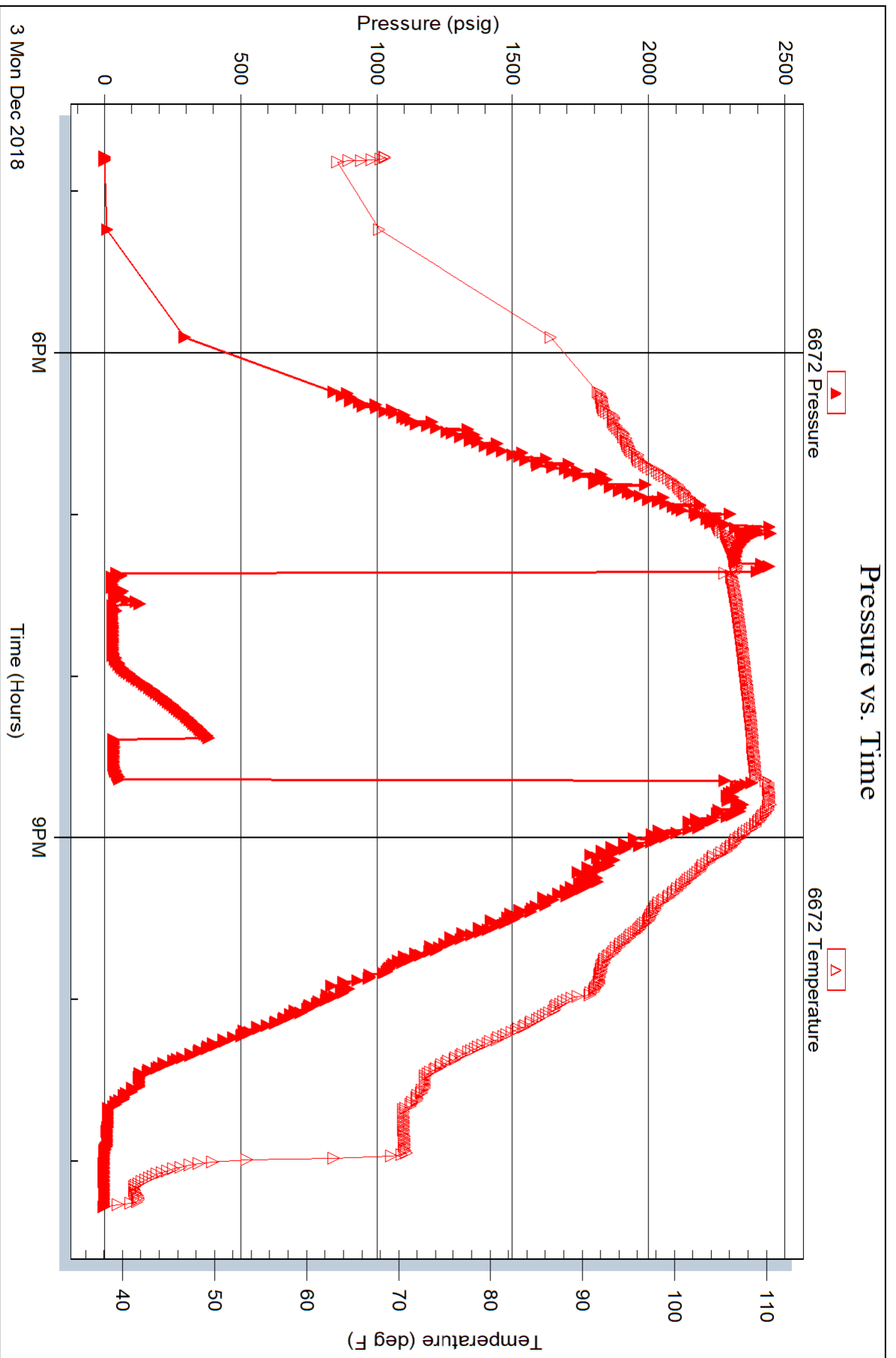
Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

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

Pressure vs. Time





Geological Report

American Warrior, Inc.

Gano #11-17

2395' FSL & 2475' FEL

Sec 17, T25s, R36w

Kearny County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Gano #11-17
2395' FSL & 2475' FEL
Sec. 17, T25s, R36w
Kearny County, Kansas
API # 15-093-22509-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: November 21, 2018

Completion Date: December 5, 2018

Elevation 3022' G.L.
3033' K.B.

Directions: From center of Lakin, KS at the intersection of Hwy 50 & Hwy 25 – Now go 3.3 miles South on Hwy 25 – Now go 0.7 mile West on Rd.120 – Now go 1 mile South on Rd. S – Now go 1.5 mile West on Rd. 110 to the lease road – South into by steel grain bins approx. 0.5 miles, then east into location.

Casing: 230' 13 38" 48# Conductor Casing
1745' 8 5/8" 23# Surface Casing
4982' 5 1/2" 15.5# Production Casing

Samples: 3600' to RTD 10' Wet & Dry

Drilling Time: 3500' to RTD

Electric Logs: Haliburton "R. Whitlock"
Stack Micro

Drillstem Tests: Four – Trilobite "Chris Hagman"

Problems: Logging tool stuck on bottom for 10 min

Formation Tops

Gano #11-17

Sec. 17, T25s, R36w

2395' FSL & 2475' FEL

Heebner	3634	-601
Toronto	3648	-615
Lansing	3680	-647
Stark	4024	-991
Hush	4092	-1059
BKC	4187	-1154
Marmaton	4209	-1176
Alt B	4259	-1226
Pawnee	4308	-1275
Fort Scott	4339	-1306
Cherokee	4350	-1317
Morrow	4647	-1614
Morrow SD	4768	-1735
St Gen	4792	-1759
St Louis	4827	-1794
St Louis C	4922	-1889
RTD	5000	-1967
LTD	4998	-1965

Sample Zone Descriptions

Toronto (3655' -622): Covered in DST #1

Limestone, cream/tan, fine to sub crystalline, oolitic wacke to packstone, chalky, scattered Chert, white, occasional poor oolitic and pinpoint vuggy porosity, good odor, fair stain, good saturation, fair show of free oil, no fluor, good stream cut. No gas increase.

Marmaton (4258' -1225): Covered in DST #2

Limestone, tan, oolitic packstone, slightly chalky, scattered fair to poor oolitic porosity and pinpoint vuggy porosity, good odor, good stain, fair to good saturation, scattered gold fluorescence, good show of free oil, fair to good stream cut. Gas 250 units hotwire.

Morrow Sand (4769' -1736): Covered in DST #3

Sandstone, grey/clear/white/green, fine grain, sub-round, fair sorting, fair to poor cement, glauconitic, fair inter-crystalline porosity, fair to good odor (diesel?), poor stain, fair sat, fair to good show of free oil when broke, scattered poor gold fluorescence, fair stream cut, very good flush cut when broke. Gas 65 units hotwire.

St. Louis (4921' -1888): Covered in DST #4

Limestone, tan, oolitic packstone, chalky, tight to poor oolitic porosity, poor development, no show of free oil. No gas increase.

Drill Stem Tests

Trilobite Testing

“Chris Hagman”

DST #1

Toronto

Interval (3633' – 3670') Anchor Length 37'

IHP - 1680 #

IFP - 30" – BOB 8 min

ISI - 45" – No Return

FFP - 45" – BOB 12 min

FSIP - 60" – No Return

FHP - 1670 #

BHT - 103° F

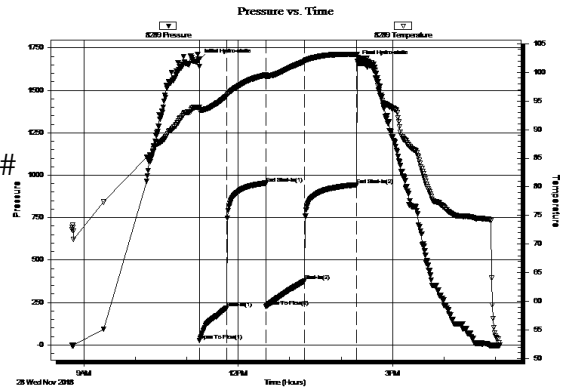
Recovery: 945' MW

27-219#

953#

226-377#

943#



DST #2

Marmaton

Interval (4225' – 4278') Anchor Length 53'

IHP - 2040 #

IFP - 30" – WSB 0.8" in 30 min

ISI - 30" – No Return

FFP - 10" – No Return

FSIP - Pulled test

FHP - 1968 #

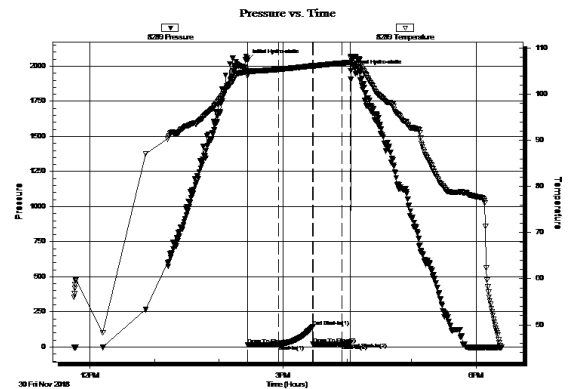
BHT - 108° F

Recovery: 10' OSM

15-18#

145#

19-23#



DST #3

Morrow Sand (straddle test)

Interval (4715' – 4800') Anchor Length 85'; Tail Pipe 75'

IHP - 2369 #

IFP - 30" – WSB 0.9" 30 min

ISI - 30" – No Return

FFP - 10" – No Blow

FSIP - Pulled Test

FHP - 2286 #

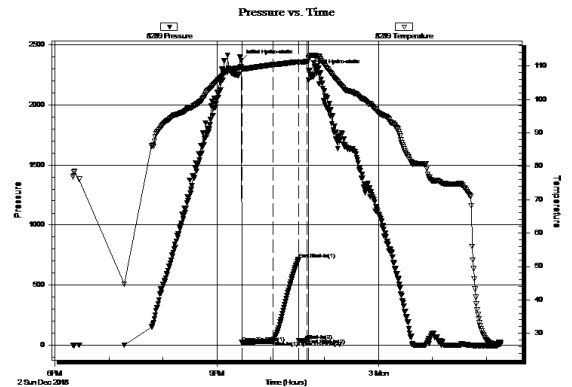
BHT - 112° F

Recovery: 5' M

22-39#

711#

35-39#



DST #4

St. Louis

Interval (4810' – 4955') Anchor Length 45'

IHP - 2393 #

IFP - 30" – WSB 1" in 30 min

ISI - 30" – No Return

FFP - 10" – No Blow

FSIP - Pulled Test

FHP - 2414 #

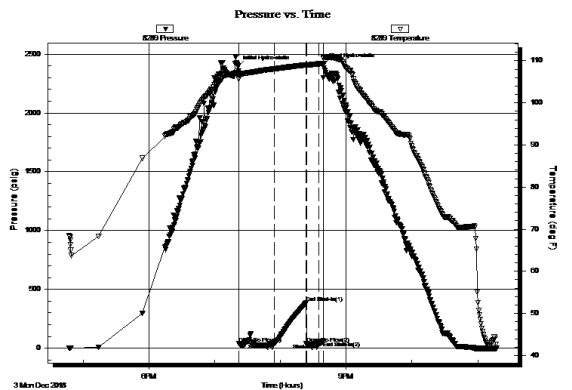
BHT - 111° F

Recovery: 5' M

39-40#

383#

41-36#



Structural Comparison

	American Warrior, Inc. Gano #11-17 Sec. 17, T25s, R36w 2395' FSL & 2475' FEL			American Warrior, Inc. Gano #3-17 Sec. 17, T25s, R36w 1512' FSL & 2603' FEL			American Warrior, Inc. Gano #4-17 twin Sec. 17, T25s, R36w 2273' FSL & 1806' FWL	
<u>Formation</u>								
Heebner	3634	-601	-10	3627	-591	-15	3622	-586
Lansing	3680	-647	-9	3674	-638	-15	3668	-632
Stark	4024	-991	-9	4018	-982	-16	4011	-975
BKC	4187	-1154	-8	4182	-1146	-11	4179	-1143
Marmaton	4209	-1176	-6	4206	-1170	-14	4198	-1162
Pawnee	4308	-1275	-4	4307	-1271	-10	4301	-1265
Fort Scott	4339	-1306	-2	4340	-1304	-6	4336	-1300
Cherokee	4350	-1317	-2	4351	-1315	-7	4346	-1310
Morrow	4647	-1614	-7	4643	-1607	-7	4643	-1607
St. Gen	4792	-1759	-7	4788	-1752	-7	4788	-1752
St. Louis	4827	-1794	-10	4820	-1784	-12	4818	-1782

Summary

The location for the Gano #11-17 well was found via 3-D seismic survey. The new well ran structurally as expected. Four drill stem test were conducted, none of which recovered commercial quantities of oil or gas. After all the gathered data had been examined, the decision was made to run 5 ½" casing to further evaluate the Gano #11-17 well.

Perforations

Block/Squeeze	1st	Morrow (perf block/squeeze)	(4886' – 4888')
Primary:	2nd	Morrow Sand (Production)	(4768' – 4776')
		**May need to frac.	
Secondary:	3rd	Marmaton	(4260' – 4266')
Before Abandonment:		Marmaton	(4237' – 4252')
		Lansing G'	(3914' – 3919')
		Lansing A	(3679' – 3685')
		Cherokee	(4385' – 4390')
Water Injection:		Marmaton	(4266' – 4272')
		**If needed to take more fluid	

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) 275-2963 office

WELL: **Gano #11-17** API #: **15-093-22509-00-00** LOCATION: **Keamy County, KS 2395' FSL & 2475' FEL 17-25s-36w** Elevation: **KB: 3033' GL: 3022'**

Lithology Key

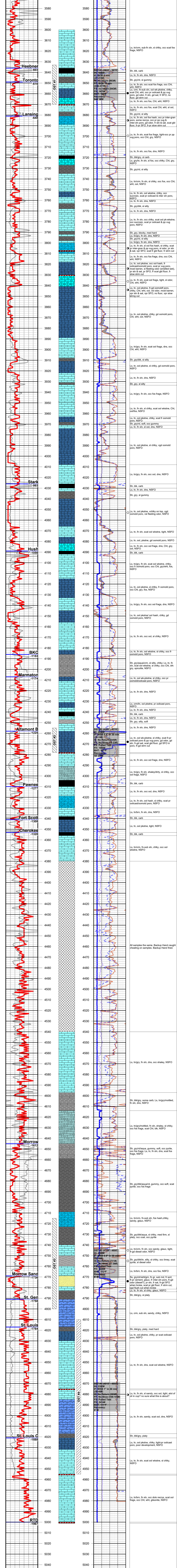
	Limestone		Cherty Shale
	Sandy Limestone		Shale
	Shaley Limestone		Silty Shale
	Fossil Limestone		Shaley Sandstone
	Cherty Limestone		Sandstone
	Oolitic Limestone		Cherty Dolomite
	Silty Limestone		Oolitic Dolomite
	Shale Interbed		Bad Samples
	Limestone Interbed		CFS
	Black Shale		

Curve Data:

Geologist: Luke Thompson (American Warrior, Inc.)
 Start/Finish Date: 11/21/18 - 12/05/18
 Drilling Contractor: Duke Rig #5
 Drilling time from: 3500' - RTD
 Samples from: 3600' - RTD
 Geological Supervision from: 3600' - RTD
 Correlating Log: Gano #3-17 (AWI 17-25s-36w)
 Conductor Casing: 230' 13 3/8" 2 3/8"
 Surface Casing: 1745' 8 5/8" 2 1/2"
 Production Casing: 4982' 5 1/2" 1 5/8"
 RTD: 5000'
 LTD: 4998'

Formation	Top	Log	Datum	Top	Datum	Correlating Well	Status: OIL
Heebner	3634	-601	3636	-603	-10		
Toronto	3648	-615	3649	-616	-9		
Lansing	3680	-647	3681	-648	-9		
Stark	4024	-991	4026	-993	-9		
Hush	4082	-1059	4089	-1056	-14		
BKC	4187	-1154	4186	-1153	-8		
Marmaton	4209	-1176	4207	-1174	-6		
Alt B	4259	-1226	4258	-1225	-15		
Pawnee	4308	-1275	4310	-1277	-4		
Fort Scott	4339	-1306	4341	-1308	-2		
Cherokee	4350	-1317	4353	-1320	-2		
Morrow	4647	-1614	4645	-1612	-7		
Morrow SD	4768	-1735	4769	-1736	-1		
St Gen	4792	-1759	4791	-1758	-7		
St Louis	4827	-1794	4817	-1784	-10		
St Louis C	4922	-1889	4921	-1888	-9		
TD	4998	-1965	5000	-1967			

Conclusion: The location for the Gano #11-17 was found via 3-D seismic survey. The well ran low to the Gano #3-17 as expected. Four DSTs were conducted, none of which recovered commercial quantities of gas and oil. The decision was made to run 5 1/2" casing to further evaluate the Gano #11-17.





Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Phone: 316-337-6200
Fax: 346-337-6211
<http://kcc.ks.gov/>

Dwight D. Keen, Chair
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Laura Kelly, Governor

April 09, 2019

Jose Reyes
American Warrior, Inc.
PO BOX 399
GARDEN CITY, KS 67846-0399

Re: ACO-1
API 15-093-22509-00-00
GANO 11-17
SE/4 Sec.17-25S-36W
Kearny County, Kansas

Dear Jose Reyes:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 11/21/2018 and the ACO-1 was received on April 09, 2019 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department