

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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CHARGE TO: American Warrior Inc  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 30848

PAGE 1 OF 2

1. SERVICE LOCATIONS: Hays, KS  
 2. Ness City, KS  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_

WELL/PROJECT NO. #1-18 LEASE Trexler COUNTY/PARISH Graham STATE KS CITY \_\_\_\_\_ DATE 01/23/18 OWNER \_\_\_\_\_

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

WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement Long String WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION \_\_\_\_\_

REFERRAL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #113	65		mi		5.00	325	18
578		1			Pump Charge - Long String	1		EA		1250.00	1250	18
221		1			Liquid KCL	2		gal		25.00	50	18
281		1			Mud Flush	500		gal		1.25	625	18
290		1			D-Air	3		gal		42.00	126	18
402		1			Centralizer	7		EA	5 1/2"	60.00	420	18
403		1			Cement Basket	1		EA		250.00	250	18
406		1			Latch Down Plug + Baffle	1		EA		225.00	225	18
407		1			Insert Float Shoe w/ Auto Oil	1		EA		300.00	300	18
419		1			Rotating Head Rental	1		EA		200.00	200	18
404		1			Port Collar	1		EA		2500.00	2500	18

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

X [Signature]  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  A.M.  P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				Page 2	4271.00
WE UNDERSTOOD AND MET YOUR NEEDS?					4366.93
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					10637.93
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Graham TAX 1-15-18	626.46
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	11264.39
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					



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

TICKET CONTINUATION

TICKET No. 30848

CUSTOMER American Warrior Inc

WELL Trexler 1-18

DATE 01/23/18

PAGE 1 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
325		2				Standard Cement	175	SKS			12.25	2143.75
284		2				Calseal	8	SKS	800	lbs	30.00	240.00
283		2				Salt	950	lbs			0.20	190.00
292		2				Halad 322	123	lbs			8.00	984.00
276		2				Floccle	44	lbs			2.25	99.00
581		2				SERVICE CHARGE Cement	175	SKS			1.50	262.50
583		2				MILEAGE CHARGE	TOTAL WEIGHT 18367		LOADED MILES 6.5		0.75	447.68
CONTINUATION TOTAL											4366.93	

## JOB LOG

SWIFT Services, Inc.

DATE 01/23/18

PAGE NO. 1

CUSTOMER

AWI

WELL NO.

1-18

LEASE

Trexler

JOB TYPE

Cmt Long String

CHART NO.

2915

RATE (BPM)

PUMPS

T C

VOLUME (BBL)(GAL)

PRESSURE (PSI)

TUBING

CASING

DESCRIPTION OF OPERATION AND MATERIALS

On location w/Float Equipment

LTD-3982'

RTD-3985'

Total Pipe - 3975' + 8' L.J. - 3983'

Insert - 3965'

Port Collar - 1925' on top of S2

Centralizers - 1, 3, 5, 7, 9, 11, 51

Basket - 51

2130

Start Casing / Float Equipment

2320

Break Circulation on Bottom

2345

Hook up to Swift

2350

Plug Rathole

2355

Plug Mousehole

0001

Pump Mudflush

0005

Pump KCL spacer

0015

Start Cmt

0025

Fin Cmt

Deep Plug, Washout Pump Lines

Start Displacement

0030

Catch Cmt

0045

Fin Displacement Lift 800psi

Land 1300psi

0050

Release back, Dry

Wash up

Back up

Job Complete

0100

Thanks,

Jon, Austin, Kirby



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

TICKET 30982

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Hays, KS  
 2. Ness City, KS  
 3.  
 4.

WELL/PROJECT NO. 1-18 LEASE Trexler COUNTY/PARISH Graham STATE KS CITY DATE 02/05/18 OWNER  
 TICKET TYPE  SERVICE  SALES CONTRACTOR Express Well Service RIG NAME/NO. SHIPPED VIA CT DELIVERED TO Location ORDER NO.  
 WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement Port Collar WELL PERMIT NO. WELL LOCATION  
 REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	80	mi			5.00	400.00
576D		1			Pump Charge - Port Collar	1	EA			1300.00	1300.00
288		1			Sand	2	SKS			22.00	44.00
290		1			D-Air	3	gal			42.00	126.00
104		1			Port Collar Tool Rental	1	EA			200.00	200.00
330		2			Swift Multi-Density Standard	120	SKS			16.25	1950.00
276		2			Flocele	30	lbs			2.50	75.00
581		2			Service Charge Cement	225	SKS	22390	lbs	1.75	393.75
583		2			Drayage	80	mi	895.6	TM	0.85	761.26
											5250.00

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

X  
 DATE SIGNED TIME SIGNED  A.M.  P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

Graham TAX 75/10 179.63

5429.64

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

SWIFT OPERATOR [Signature]

APPROVAL

Thank You!

CUSTOMER  
*AWI*

WELL NO.  
*1-18*

LEASE  
*Tracker*

JOB TYPE  
 *cement port collar*

CHART NO.

TIME

RATE (BPM)

VOLUME (BBL) (GAL)

PUMPS  
T C

PRESSURE (PSI)  
TUBING CASING

DESCRIPTION OF OPERATION AND MATERIALS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE (PSI) TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS
1300						On location, set up trucks. 2 3/8 x 5 1/2 Plug - 30160
						500f sand - 2940
						Port collar - 1925
1330					1000	Test Plug, Held
1335			9			Spot 2 SKS sand Full up to P.C.
1400					1000	Test P.C. & Plug. Open Port Collar Pump to get circulation.
1445						
1510		3	4		400	Start Cent
1515		3	57		500	Cent circulated raise weight
1545		3 1/2	62		600	Fin Coat, 120 SKS
		3 1/2			600	Start Displacement
1550		3 1/2	5 1/2		600	Fin Displacement
1555						Shutting, close Port Collar
1600						Released, Run 3 ITS, wash up truck
1625		2	20		400	Reverse Out, 5 SKS top pit
1640						Run in to plug.
1720		2	65		400	Circulate sand & P Plug.
1805						Back up
1810						Job complete
						Thanks, Tom, Austin, Kirby





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

TICKET 031140

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Aliso City KS</u>	WELL/PROJECT NO. <u>1-18</u>	LEASE <u>Trexler</u>	COUNTY/PARISH <u>Graham</u>	STATE <u>KS</u>	CITY <u>Hill City</u>	DATE <u>16 Jan 18</u>	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Discovery</u>		RIG NAME/NO. <u>2</u>	SHIPPED <u>CT</u>	DELIVERED TO <u>location</u>	ORDER NO.	
3. WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>cement surface pipe</u>		WELL PERMIT NO.		WELL LOCATION <u>18-7-22</u>	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE	76		m		500	350.00
5765		1			Pump Charge shallow surface	1		ea		800.00	800.00
325		1			standard cement	150		sk		12.25	1837.50
279		1			Bentonite Gel	3		sk		25.00	75.00
278		1			Calcium chloride	7		sk		40.00	280.00
290		1			D-Air	2		gal		42.00	84.00
581		1			Service charge	150		hr		1.50	225.00
583		1			Drayage	1472	16		546.25	TM	387.19

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X

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_  A.M.  P.M. 7:25

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

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	4038.69
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?				Graham TAX 7.5%	170.74
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	4209.43
<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: ABM APPROVAL: \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE  
16 Jan 18

PAGE NO.  
1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
American Warriors		1-18		Trexler		Cement surface pipe		31140	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PS)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
								150 sk Standard cement 2% gel 3% CC 8 5/8" x 23" casing 5 joints 217' TD = 220	
	1800							on loc TRK 115	
								start 8 5/8" x 23" casing in well	
	2045							circulate well	
	2110	3	38			0		mix STD 2% 3% 150 <sup>sk</sup> @ 14.7 ppg	
	2140	3	12 1/2			100		Displace w/ H <sub>2</sub> O	
								→ cement to surface & {15 sk top	
	2200							Kickout shot in 8 5/8"	
								Release pressure to truck	
	2205							wash truck	
								Rick up	
	2235							job complete	
								of hands	
								Blaine Street, 1 UNIT	



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior INC  
 P.O. Box 399  
 Garden City, Ks 67846  
 ATTN: Jason Alm

**18-7S.-22W Graham Co.**  
**Trexler #1-18**  
 Job Ticket: 63417 **DST#: 1**  
 Test Start: 2018.01.21 @ 06:02:00

## GENERAL INFORMATION:

Formation: **LKC "C-D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:54:20  
 Time Test Ended: 13:23:30  
 Interval: **3559.00 ft (KB) To 3599.00 ft (KB) (TVD)**  
 Total Depth: 3599.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Martine Salinas  
 Unit No: 82  
 Reference Elevations: 2307.00 ft (KB)  
 2299.00 ft (CF)  
 KB to GR/CF: 8.00 ft

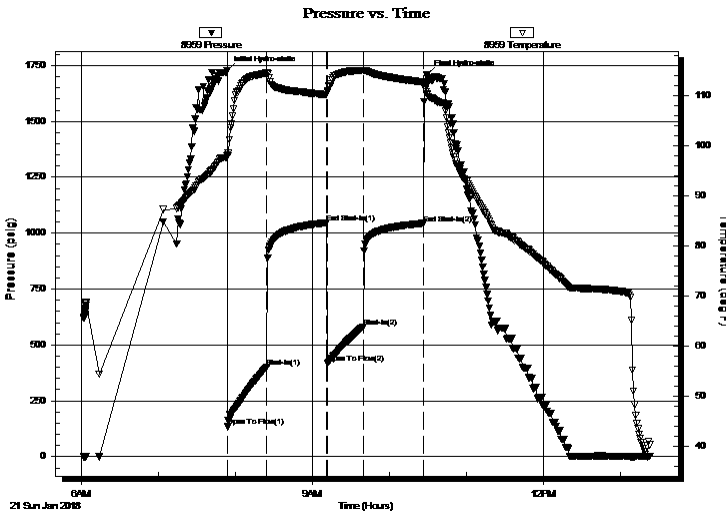
## Serial #: 8959

Inside

Press@RunDepth: 580.24 psig @ 3560.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.01.21 End Date: 2018.01.21 Last Calib.: 2018.01.21  
 Start Time: 06:02:01 End Time: 13:23:30 Time On Btm: 2018.01.21 @ 07:54:00  
 Time Off Btm: 2018.01.21 @ 10:29:30

TEST COMMENT: 30-IF-S.blow built to B.O.B.(12 inches) @ 5 1/2mins  
 45-ISI-S.blow back @ 15 mins dead @ 30 mins  
 30-FF-S.blow built to B.O. B. (12 inches) @ 5 mins  
 45-FSI-S.blow back built to 3/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1727.81	98.19	Initial Hydro-static
1	134.62	97.95	Open To Flow (1)
31	401.61	114.47	Shut-In(1)
78	1046.59	110.14	End Shut-In(1)
78	419.07	110.70	Open To Flow (2)
106	580.24	114.93	Shut-In(2)
153	1042.89	112.66	End Shut-In(2)
156	1706.95	110.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
500.00	CW 100%W	4.93
435.00	SO/SMCW 6%O, 7%M, 87%W	6.10
297.00	GO/MCW 11%G, 15%O, 16%M, 58%W	4.17

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior INC  
P.O. Box 399  
Garden City, Ks 67846  
ATTN: Jason Alm

**18-7S.-22W**      **Graham Co.**  
**Trexler #1-18**  
Job Ticket: 63417      **DST#: 1**  
Test Start: 2018.01.21 @ 06:02:00

### 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	CW 100%W	4.929
435.00	SO/SMCW 6%O, 7%M, 87%W	6.102
297.00	GO/MCW 11%G, 15%O, 16%M, 58%W	4.166

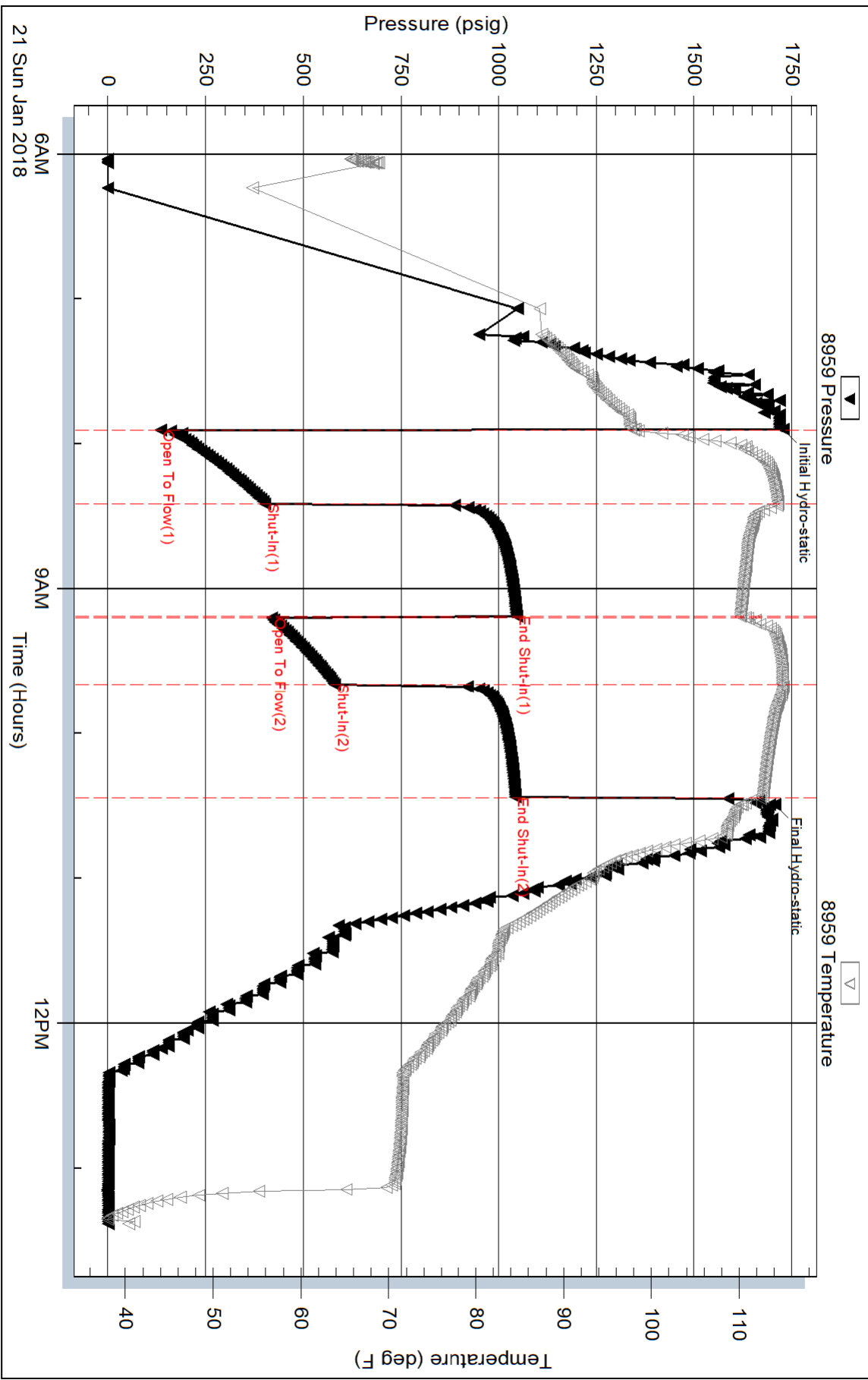
Total Length: 1232.00 ft      Total Volume: 15.197 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW=.144 @ 33.7 degs= 145,000 PPM

# Pressure vs. Time

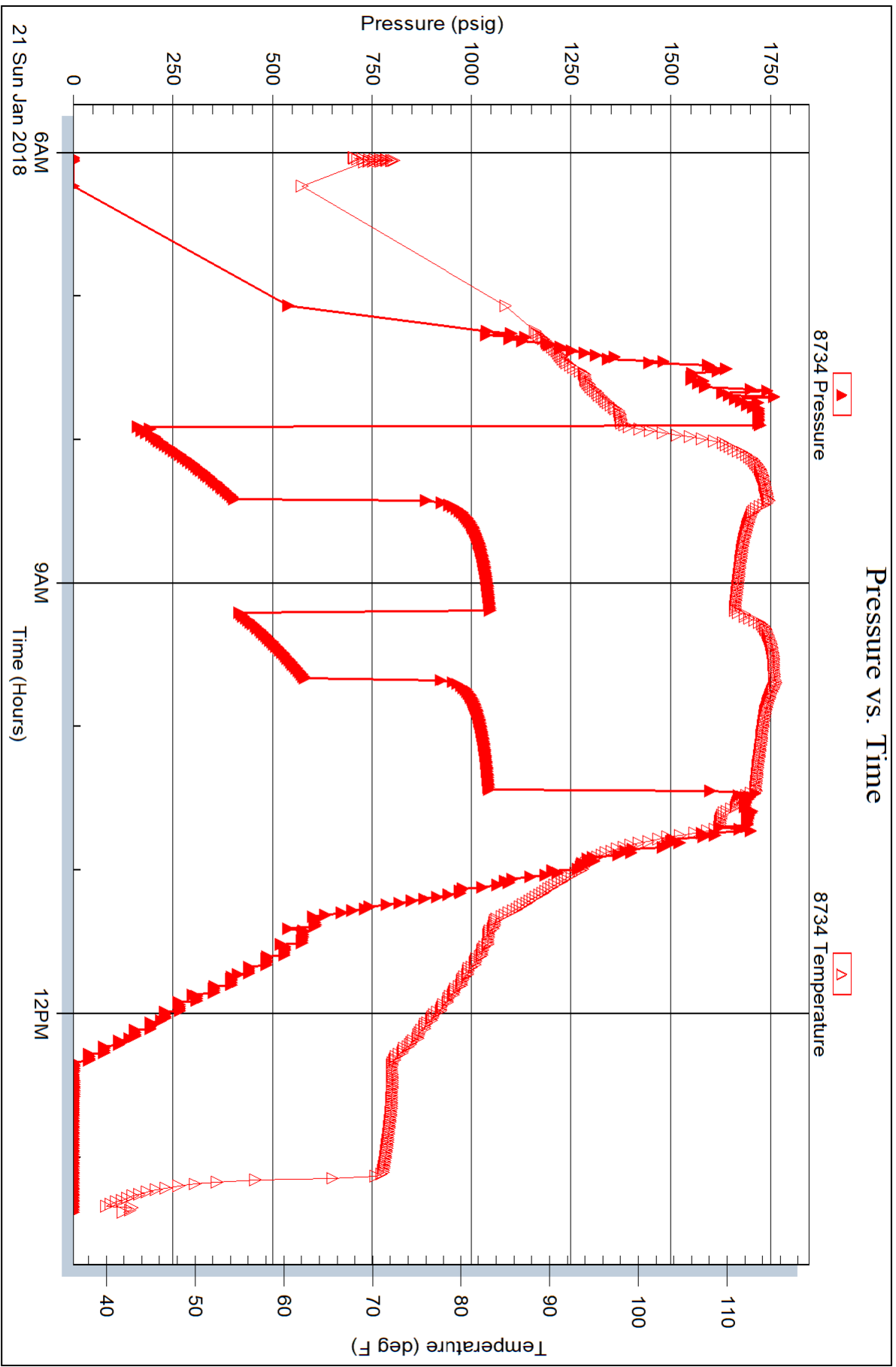


Serial #: 8734

Outside American Warrior INC

Trexler #1-18

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm

### **Trexler #1-18**

### **18-7S.-22W Graham,KS**

Start Date: 2018.01.21 @ 06:02:00

End Date: 2018.01.21 @ 13:23:30

Job Ticket #: 63417                      DST #: 1

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

Printed: 2018.01.23 @ 11:04:26

American Warrior Inc  
18-7S.-22W Graham,KS  
Trexler #1-18  
DST # 1  
LKC "C-D"  
2018.01.21





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**18-7S.-22W Graham,KS**  
**Trexler #1-18**  
 Job Ticket: 63417      **DST#: 1**  
 Test Start: 2018.01.21 @ 06:02:00

## GENERAL INFORMATION:

Formation: **LKC "C-D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:54:20  
 Time Test Ended: 13:23:30  
 Interval: **3559.00 ft (KB) To 3599.00 ft (KB) (TVD)**  
 Total Depth: 3599.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Martine Salinas  
 Unit No: 82  
 Reference Elevations: 2307.00 ft (KB)  
 2299.00 ft (CF)  
 KB to GR/CF: 8.00 ft

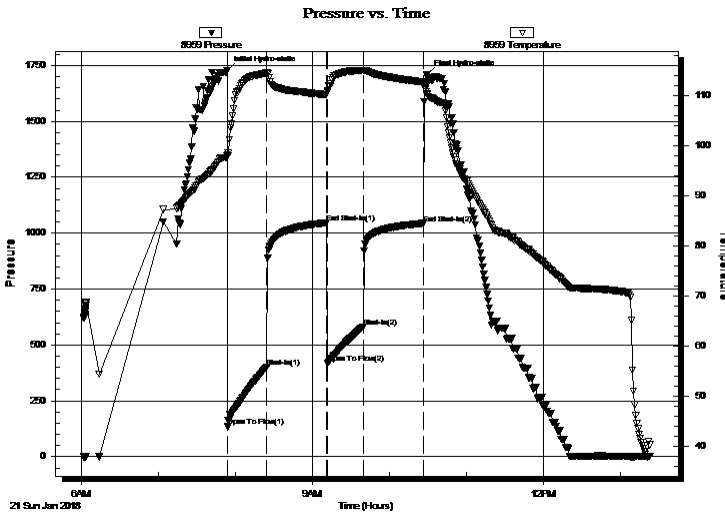
## Serial #: 8959

Inside

Press@RunDepth: 580.24 psig @ 3560.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2018.01.21      End Date: 2018.01.21      Last Calib.: 2018.01.21  
 Start Time: 06:02:01      End Time: 13:23:30      Time On Btm: 2018.01.21 @ 07:54:00  
 Time Off Btm: 2018.01.21 @ 10:29:30

TEST COMMENT: 30-IF-BOB (12 inches) @ 5 1/2 mins  
 45-ISI-Surface blow back @ 15 mins dead @ 30 mins  
 30-FF-BOB(12 inches) @ 5 mins  
 45-FSI-Surface blow back built to 3/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1727.81	98.19	Initial Hydro-static
1	134.62	97.95	Open To Flow (1)
31	401.61	114.47	Shut-In(1)
78	1046.59	110.14	End Shut-In(1)
78	419.07	110.70	Open To Flow (2)
106	580.24	114.93	Shut-In(2)
153	1042.89	112.66	End Shut-In(2)
156	1706.95	110.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
500.00	CW 100%W	4.93
435.00	SO/SMCW 6%O, 7%M, 87%W	6.10
297.00	GO/MCW 11%G, 15%O, 16%M, 58%W	4.17

## 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

**18-7S.-22W Graham,KS**  
**Trexler #1-18**  
Job Ticket: 63417      **DST#: 1**  
Test Start: 2018.01.21 @ 06:02:00

**Tool Information**

Drill Pipe:	Length: 3250.00 ft	Diameter: 3.80 inches	Volume: 45.59 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.75 inches	Volume: 2.29 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 47.88 bbl</u>	Tool Chased	7.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	3559.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Opened tool and slid to bottom 7', bled off floor manifold for 2 mins

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3544.00	
Hydraulic tool	5.00			3549.00	
Packer	5.00			3554.00	20.00      Bottom Of Top Packer
Packer	5.00			3559.00	
Stubb	1.00			3560.00	
Recorder	0.00	8959	Inside	3560.00	
Recorder	0.00	8734	Outside	3560.00	
Perforations	34.00			3594.00	
Bullnose	5.00			3599.00	40.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**18-7S.-22W Graham,KS**  
**Trexler #1-18**  
Job Ticket: 63417      **DST#: 1**  
Test Start: 2018.01.21 @ 06:02:00

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	CW 100%W	4.929
435.00	SO/SMCW 6%O, 7%M, 87%W	6.102
297.00	GO/MCW 11%G, 15%O, 16%M, 58%W	4.166

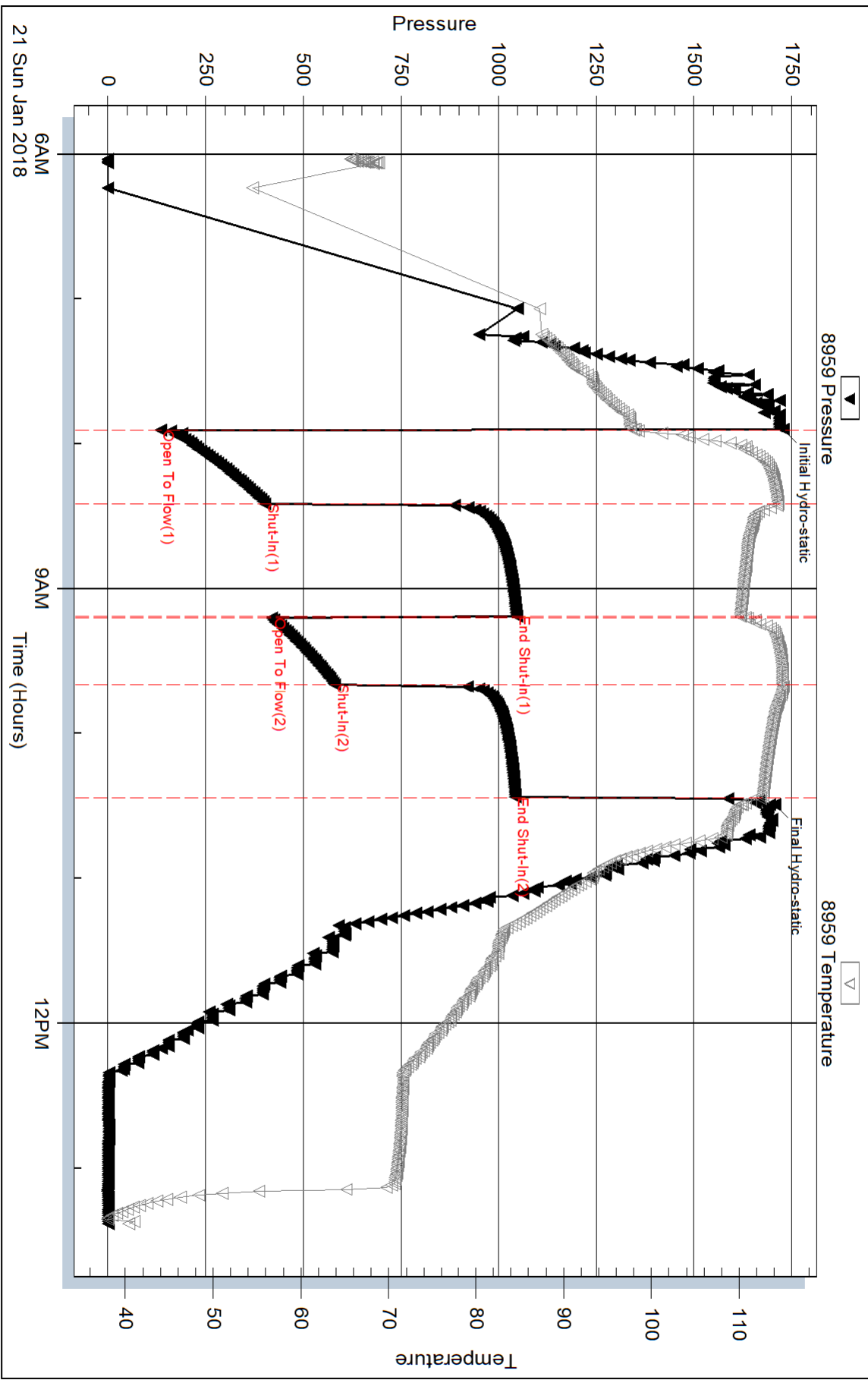
Total Length: 1232.00 ft      Total Volume: 15.197 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW=.144 @ 33.7 degs= 145,000 PPM

# Pressure vs. Time

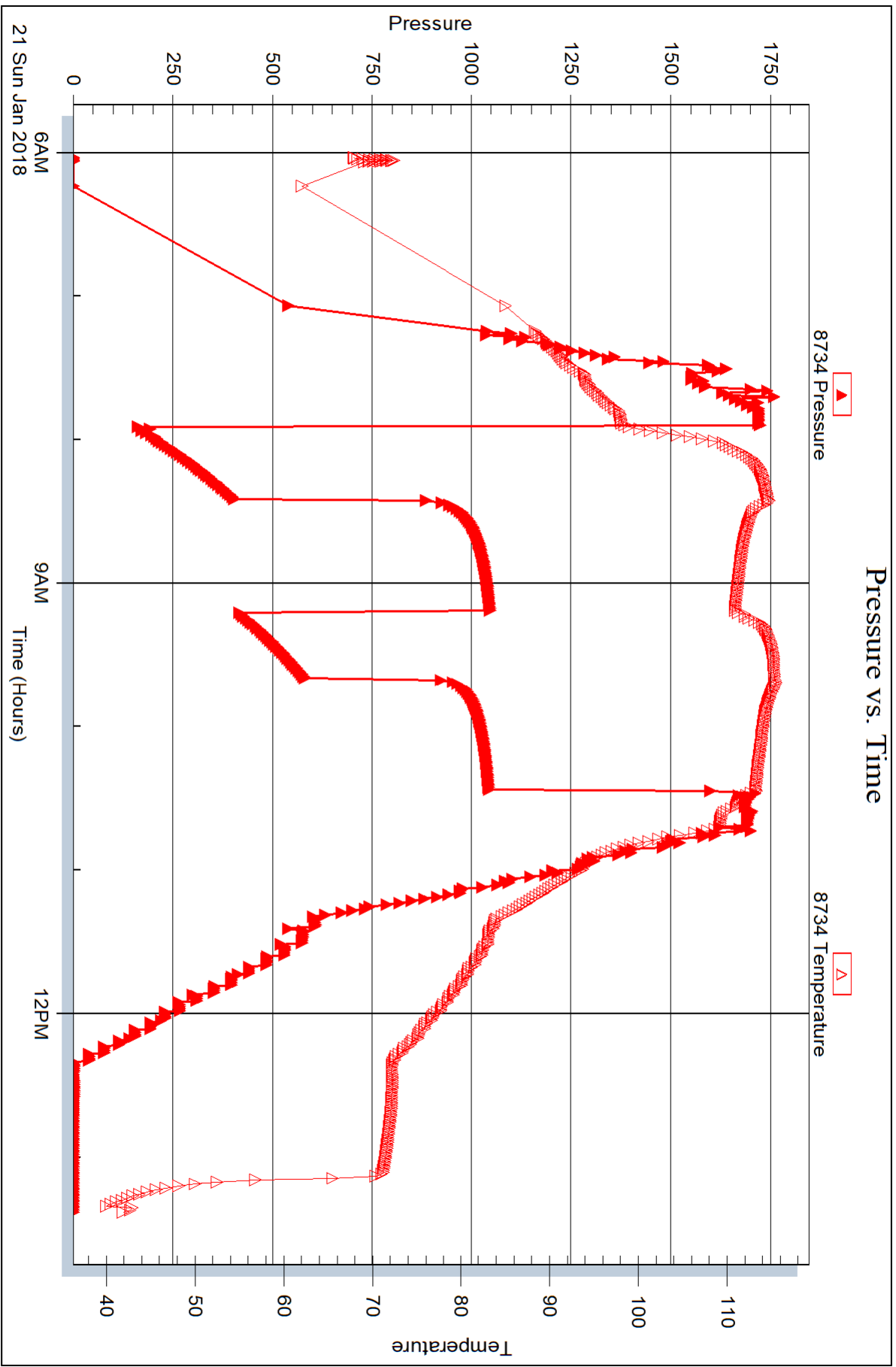


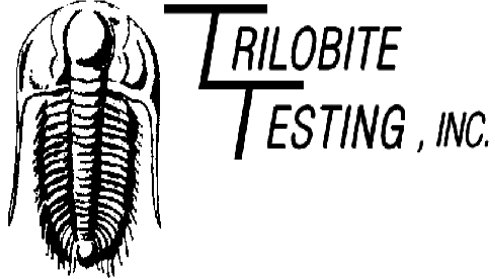
Serial #: 8734

Outside American Warrior Inc

Trexler #1-18

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm

### **Trexler #1-18**

#### **18-7S.-22W Graham,KS**

Start Date: 2018.01.22 @ 03:05:00

End Date: 2018.01.22 @ 10:34:39

Job Ticket #: 63418                      DST #: 2

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

Printed: 2018.01.23 @ 11:03:24

American Warrior Inc  
18-7S.-22W Graham,KS  
Trexler #1-18  
DST # 2  
LKC "H-J"  
2018.01.22



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**18-7S.-22W Graham,KS**  
**Trexler #1-18**  
Job Ticket: 63418      **DST#: 2**  
Test Start: 2018.01.22 @ 03:05:00

## GENERAL INFORMATION:

Formation: **LKC "H-J"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 04:49:00  
Time Test Ended: 10:34:39  
Interval: **3640.00 ft (KB) To 3710.00 ft (KB) (TVD)**  
Total Depth: 3710.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Martine Salinas  
Unit No: 82  
Reference Elevations: 2307.00 ft (KB)  
2299.00 ft (CF)  
KB to GR/CF: 8.00 ft

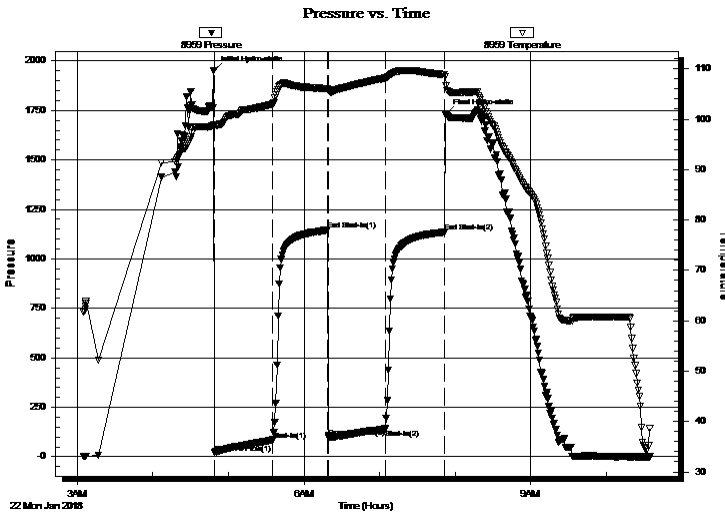
## Serial #: 8959

Inside

Press@RunDepth: 138.04 psig @ 3641.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2018.01.22 End Date: 2018.01.22 Last Calib.: 2018.01.22  
Start Time: 03:05:01 End Time: 10:34:40 Time On Btm: 2018.01.22 @ 04:48:30  
Time Off Btm: 2018.01.22 @ 07:52:39

TEST COMMENT: 45-IF-BOB (12 inches) @ 26 mins  
45-ISI-Surface blow back @ 3 mins built to 3/4" & died back to 1/4"  
45-FF-BOB (12 inches) @ 25 mins  
45-FSI-Surface blow back built to 2 1/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.22	98.89	Initial Hydro-static
1	20.36	98.50	Open To Flow (1)
47	85.31	102.97	Shut-In(1)
91	1146.11	106.08	End Shut-In(1)
91	100.03	105.78	Open To Flow (2)
136	138.04	108.14	Shut-In(2)
183	1134.79	108.88	End Shut-In(2)
185	1731.26	106.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
192.00	GHMCO 13%G, 32%M, 55%O	1.41
130.00	CGO 9%G, 91%O	1.02
0.00	116' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**18-7S.-22W Graham,KS**  
**Trexler #1-18**  
Job Ticket: 63418      **DST#: 2**  
Test Start: 2018.01.22 @ 03:05:00

**Tool Information**

Drill Pipe:	Length: 3344.00 ft	Diameter: 3.80 inches	Volume: 46.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.75 inches	Volume: 2.29 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 49.20 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	36.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3640.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Slid to bottom 7', tool opened on bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3625.00	
Hydraulic tool	5.00			3630.00	
Packer	5.00			3635.00	20.00      Bottom Of Top Packer
Packer	5.00			3640.00	
Stubb	1.00			3641.00	
Recorder	0.00	8959	Inside	3641.00	
Recorder	0.00	8734	Outside	3641.00	
Perforations	30.00			3671.00	
Change Over Sub	1.00			3672.00	
Drill Pipe	32.00			3704.00	
Change Over Sub	1.00			3705.00	
Bullnose	5.00			3710.00	70.00      Bottom Packers & Anchor

**Total Tool Length: 90.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**18-7S.-22W Graham,KS**  
**Trexler #1-18**  
Job Ticket: 63418      **DST#: 2**  
Test Start: 2018.01.22 @ 03:05:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1900.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

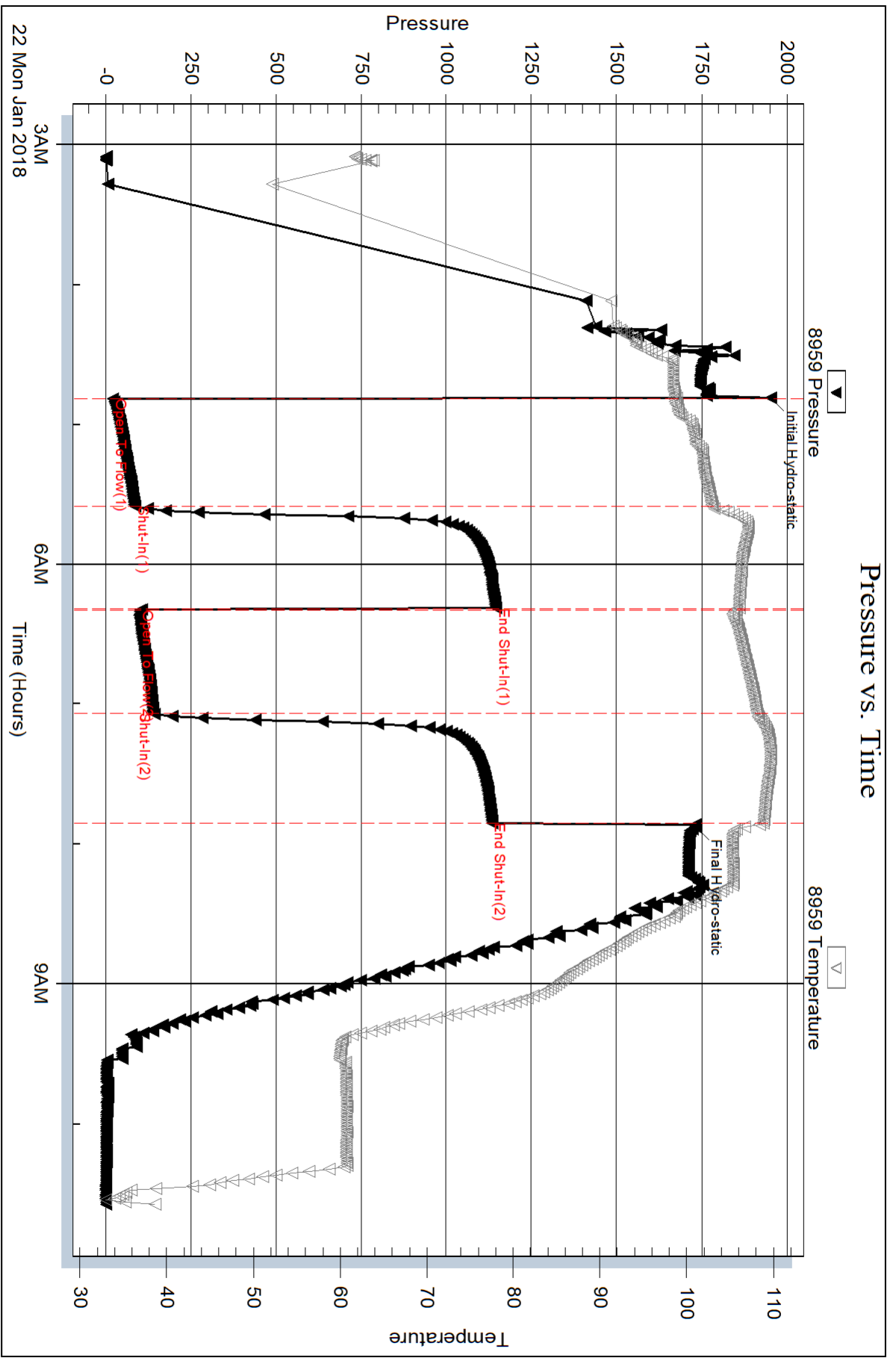
Length ft	Description	Volume bbl
192.00	GHMCO 13%G, 32%M, 55%O	1.411
130.00	CGO 9%G, 91%O	1.022
0.00	116' GIP	0.000

Total Length: 322.00 ft      Total Volume: 2.433 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Gravity of oil = 26.4 @ 38 degs  
Gravity corrected to 28.6 @ 60 degs

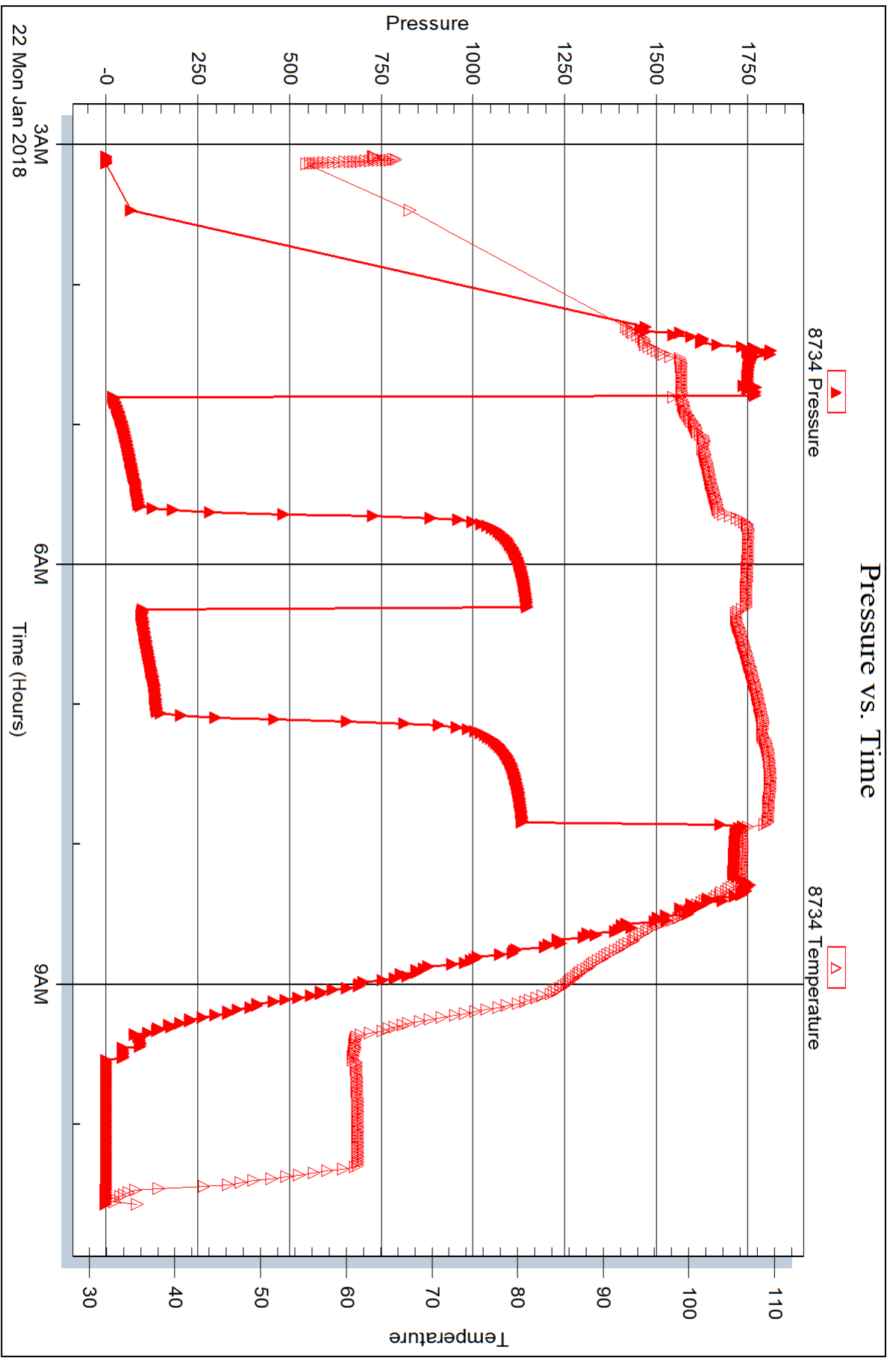


Serial #: 8734

Outside American Warrior Inc

Trexler #1-18

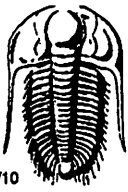
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63418

Printed: 2018.01.23 @ 11:03:25



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63417

Well Name & No. ~~Amesbury~~ Fac. Trexler #1-18 Test No. 1 Date 1-21-18  
 Company American Warrior Inc Elevation 2307 KB 2299 GL  
 Address P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery #2  
 Location: Sec. 18 Twp. 7S Rge. 22W Co. Graham State KS

Interval Tested 3559-3599 Zone Tested CKC "C-D"  
 Anchor Length 40' Drill Pipe Run 3250 Mud Wt. 8.9  
 Top Packer Depth 3554 Drill Collars Run — Vis SS  
 Bottom Packer Depth 3559 Wt. Pipe Run 312 WL 6.4  
 Total Depth 3599 Chlorides 1600 ppm System LCM 2#

Blow Description IF · S. blow built to B.O.B (12 inches) @ 5 1/2 mins.  
ISE · S. blowback @ 15 mins dead @ 30 mins  
FF · S. blow built to B.O.B (12 inches) @ 5 mins  
FSE · S. blow back @ 10 mins built to 3/4" ~

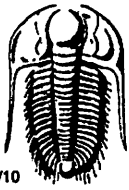
Rec	Feet of	%gas	%oil	%water	%mud
<u>500</u>	<u>CW</u>		<u>100</u>		
<u>435</u>	<u>SO/SMCW</u>	<u>6</u>	<u>87</u>	<u>7</u>	
<u>297</u>	<u>GO/MCW</u>	<u>11</u>	<u>58</u>	<u>16</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1232 BHT 110 Gravity — API RW 144 @ 33.7 °F Chlorides 145,000 ppm

(A) Initial Hydrostatic 1728  Test On Bank @ 600<sup>1050</sup> T-On Location 05:10  
 (B) First Initial Flow 135  Jars — T-Started 06:02  
 (C) First Final Flow 402  Safety Joint — T-Open 07:54  
 (D) Initial Shut-In 1047  Circ Sub — T-Pulled 10:24  
 (E) Second Initial Flow 419  Hourly Standby — T-Out 13:24  
 (F) Second Final Flow 580  Mileage 128 RT<sup>96</sup> Comments Opened tool & slid 7'  
 (G) Final Shut-In 1043  Sampler — to bottom on I.F.  
 (H) Final Hydrostatic 1707  Straddle —  
 Ruined Shale Packer —  
 Ruined Packer —  
 Extra Copies —  
 Initial Open 30  Extra Recorder — Sub Total 0  
 Initial Shut-In 45  Day Standby — Total 1146.00  
 Final Flow 30  Accessibility — MP/DST Disc't —  
 Final Shut-In 45  Sub Total 1146

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63418

Well Name & No: Trexler #1-18 Test No. 2 Date 01-22-18  
 Company American Warrior Inc. Elevation 2307 KB 2299 GL  
 Address P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery #2  
 Location: Sec. 18 Twp. 7S. Rge. 22 W. Co. Graham State KS

Interval Tested 3640 - 3710 Zone Tested LKC "H-J"  
 Anchor Length 70 Drill Pipe Run 3344 Mud Wt. 9.1  
 Top Packer Depth 3635 Drill Collars Run — Vis 53  
 Bottom Packer Depth 3640 Wt. Pipe Run 312 WL 6.8  
 Total Depth 3710 Chlorides 1900 ppm System LCM 2H

Blow Description IF · S. blow built to B.O.B (12 inches) @ 26 mins  
ISI · S. blow back @ 3 mins. built to 3/4" & died back to 1/4"  
FF · S. blow built to B.O.B (12 inches) @ 25 mins.  
FSI · S. blow back built to 2 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>192</u>	<u>GHMCO</u>	<u>13</u>	<u>55</u>	<u>32</u>	
<u>130</u>	<u>CGO</u>	<u>9</u>	<u>91</u>		
<u>0</u>	<u>116' GIP</u>				
<u>322'</u>					

Rec Total 322' BHT 107 Gravity 28.6 API RW @ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1952  Test ON Bank @ 02:30 <sup>1050</sup> T-On Location 02:38  
 (B) First Initial Flow 20  Jars \_\_\_\_\_ T-Started 03:05  
 (C) First Final Flow 85  Safety Joint \_\_\_\_\_ T-Open 04:49  
 (D) Initial Shut-In 1146  Circ Sub \_\_\_\_\_ T-Pulled 07:49  
 (E) Second Initial Flow 105  Hourly Standby \_\_\_\_\_ T-Out 10:35  
 (F) Second Final Flow 138  Mileage 128 RT <sup>96</sup> Comments (In Diesel), Slid to  
 (G) Final Shut-In 1135  Sampler \_\_\_\_\_ bottom 7', tool opened on bottom  
 (H) Final Hydrostatic 1731  Straddle \_\_\_\_\_ Tools loaded @ 11:50 1-22-18  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1146.00  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1146

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior INC  
 P.O. Box 399  
 Garden City, KS 67846  
 ATTN: Jason Alm

**18-7S.-22W Graham,KS**  
**Trexler #1-18**  
 Job Ticket: 63418      **DST#: 2**  
 Test Start: 2018.01.22 @ 03:05:00

## GENERAL INFORMATION:

Formation: **LKC "H-J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:49:00  
 Time Test Ended: 10:34:39  
 Interval: **3640.00 ft (KB) To 3710.00 ft (KB) (TVD)**  
 Total Depth: 3710.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Martine Salinas  
 Unit No: 82  
 Reference Elevations: 2307.00 ft (KB)  
 2299.00 ft (CF)  
 KB to GR/CF: 8.00 ft

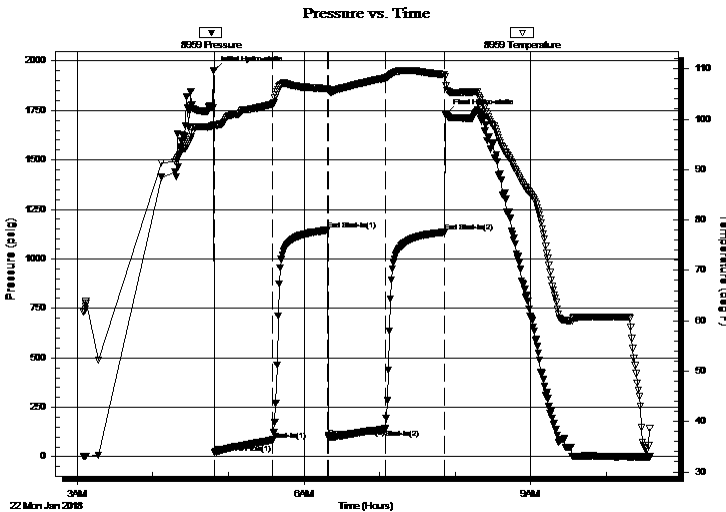
## Serial #: 8959

Inside

Press@RunDepth: 138.04 psig @ 3641.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2018.01.22      End Date: 2018.01.22      Last Calib.: 2018.01.22  
 Start Time: 03:05:01      End Time: 10:34:40      Time On Btm: 2018.01.22 @ 04:48:30  
 Time Off Btm: 2018.01.22 @ 07:52:39

**TEST COMMENT:** 45-IF-S.blow built to B.O.B (12 inches) @ 26 mins  
 45-ISI-S.blow back @ 3 mins built to 3/4" & died back to 1/4"  
 45-FF-S. blow built to B.O.B (12 inches) @ 25 mins  
 45-FSI-S.blow back built to 2 1/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.22	98.89	Initial Hydro-static
1	20.36	98.50	Open To Flow (1)
47	85.31	102.97	Shut-In(1)
91	1146.11	106.08	End Shut-In(1)
91	100.03	105.78	Open To Flow (2)
136	138.04	108.14	Shut-In(2)
183	1134.79	108.88	End Shut-In(2)
185	1731.26	106.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
192.00	GHMCO 13%G, 32%M, 55%O	1.41
130.00	CGO 9%G, 91%O	1.02
0.00	116' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior INC  
P.O. Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

**18-7S.-22W Graham,KS**  
**Trexler #1-18**  
Job Ticket: 63418      **DST#: 2**  
Test Start: 2018.01.22 @ 03:05:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1900.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

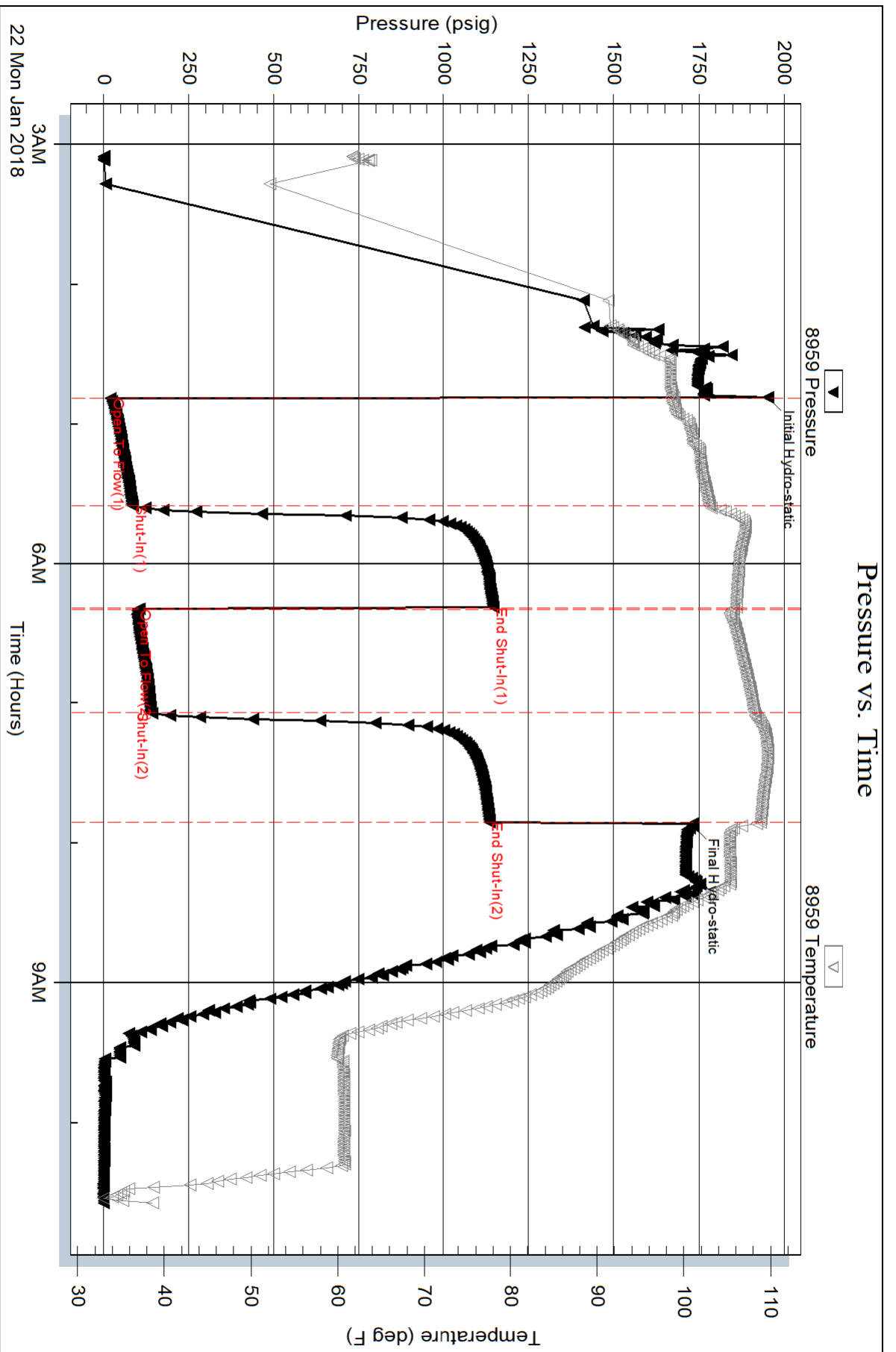
Length ft	Description	Volume bbl
192.00	GHMCO 13%G, 32%M, 55%O	1.411
130.00	CGO 9%G, 91%O	1.022
0.00	116' GIP	0.000

Total Length: 322.00 ft      Total Volume: 2.433 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Gravity of oil = 26.4 @ 38 degs  
Gravity corrected to 28.6 @ 60 degs

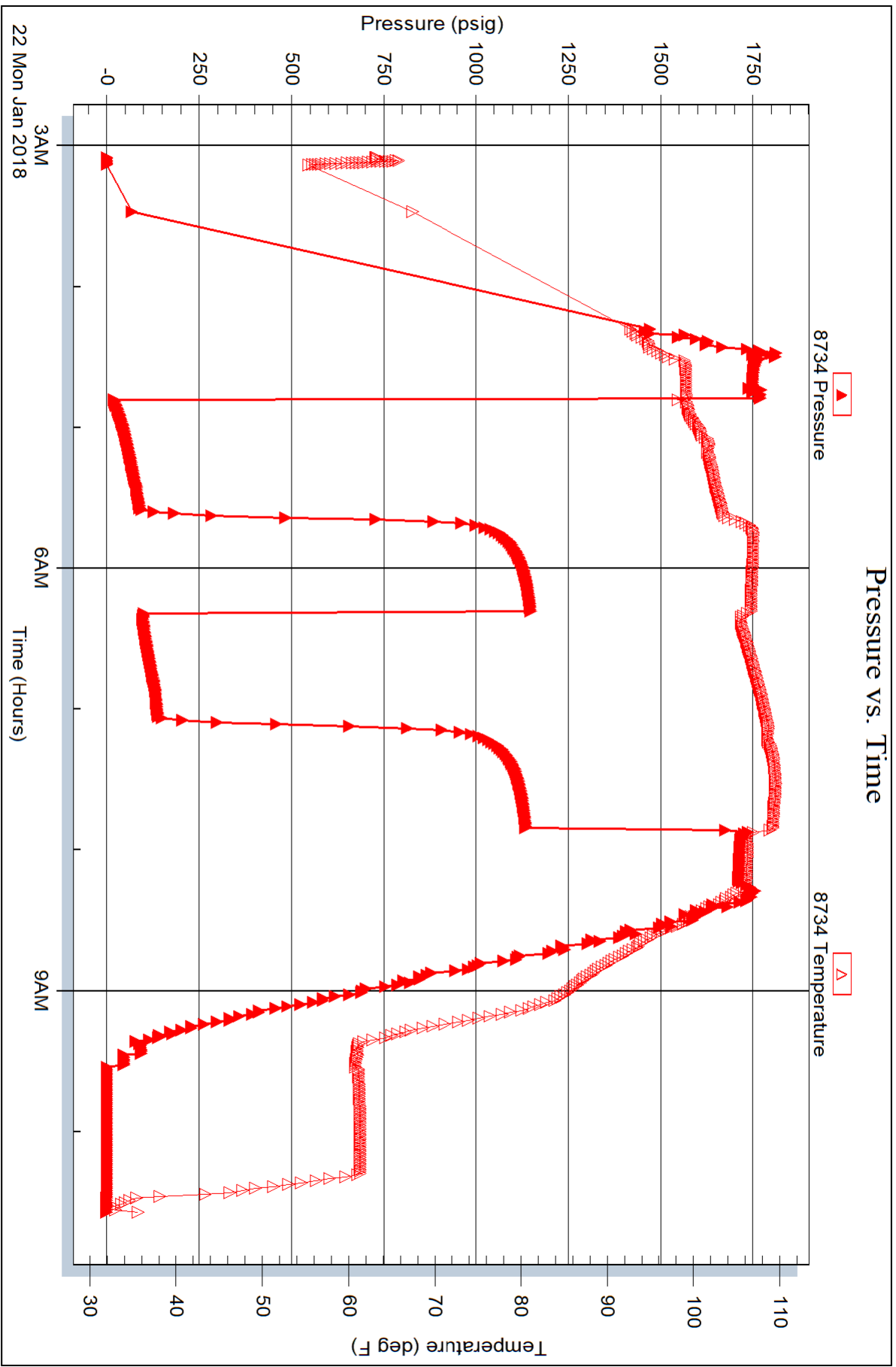


Serial #: 8734

Outside American Warrior INC

Trexler #1-18

DST Test Number: 2





# **Geological Report**

## **Trexler #1-18**

2494' FNL & 1483' FWL

Sec. 18 T7s R22w

Graham County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Trexler #1-18  
2494' FNL & 1483' FWL  
Sec. 18 T7s R22w  
Graham County, Kansas  
API # 15-065-24142-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #2

Geologist: Jason T Alm

Spud Date: January 16, 2018

Completion Date: January 23, 2018

Elevation: 2299' Ground Level  
2307' Kelly Bushing

Directions: Hill City KS, North 5 mi. to V Rd. East 1 ¼ mi.  
North into location.

Casing: 217' 8 5/8" surface casing  
3975' 5 1/2" production casing

Samples: 10' wet and dry, 3250' to RTD

Drilling Time: 3150' to RTD

Electric Logs: Pioneer Energy Services "Dan Schmidt"  
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: Two, Trilobite Testing, Inc. "Martine Salinas"

Problems: None

Remarks: None

## Formation Tops

	<b>American Warrior, Inc.</b> <b>Trexler #1-18</b> <b>Sec. 18 T7s R22w</b> <b>2494' FNL &amp; 1483' FWL</b>
<b>Formation</b>	
Anhydrite	<b>1929' +378</b>
Base	<b>1962' +345</b>
Topeka	<b>3305' -998</b>
Heebner	<b>3503' -1196</b>
Toronto	<b>3526' -1219</b>
Lansing	<b>3544' -1231</b>
BKC	<b>3739' -1432</b>
Marmaton	<b>3814' -1507</b>
Arbuckle	<b>3899' -1592</b>
LTD	<b>3982' -1675</b>
RTD	<b>3985' -1678</b>

## Sample Zone Descriptions

- Plattsmouth (3456' -1149): Not Tested**  
 Ls – Fine crystalline, oolitic in part with poor to fair oolitic and vuggy porosity, fair tarry oil stain, slight show of free tarry oil, no odor, very dull scattered fluorescents
- LKC “C” zone (3573' -1266): Covered in DST #1**  
 Ls – Fine to medium crystalline, oolitic in part with fair inter-crystalline and oomoldic porosity, light to good oil stain with scattered good stain, good show of free oil, good odor, fair spotted yellow fluorescents.
- LKC “D” zone (3589' -1282): Covered in DST #1**  
 Ls – Fine crystalline, oolitic packstone in part with fair to good oolitic porosity, light to fair oil stain with light scattered saturation, good show of free oil, strong slightly sour odor, light scattered fluorescents.
- LKC “F” zone (3605' -1298): Not Tested**  
 Ls – Fine crystalline, oolitic with poor scattered oomoldic porosity, light oil stain in porosity, no show of free oil, “sour” odor, no fluorescents, chalky.



**LKC “J” zone**

**(3696’ -1389): Covered in DST #2**

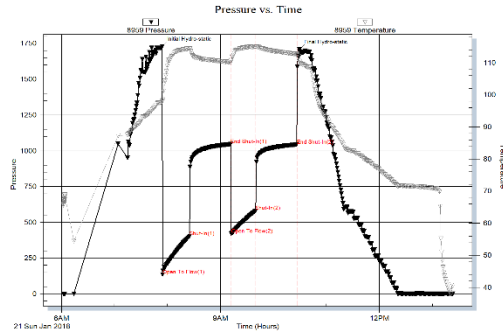
Ls – Fine crystalline, oolitic in part with fair oolitic and inter-crystalline porosity, light to good oil stain and saturation, fair show of free oil when broken, good odor, good cut fluorescents.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
“Martine Salinas”

**DST #1 LKC C thru D**

Interval (3559’ – 3599’) Anchor Length 40’

- IHP – 1728 #
- IFP – 30” – B.O.B. 5 ½ min. 134-402 #
- ISI – 45” – W.S.B. 1047 #
- FFP – 30” – B.O.B. 5 min. 419-580 #
- FSI – 45” – Built to ¾ in. 1043 #
- FHP – 1707 #
- BHT – 114°F

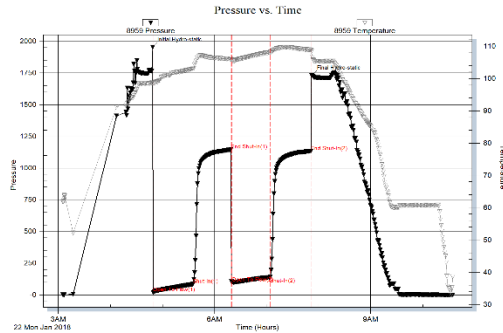


Recovery: 297’ GO&MCW 15% Oil, 58% Water  
 435’ SO&MCW 6% Oil, 87% Water  
 500’ Salt Water Chl 145k ppm

**DST #1 LKC H thru J**

Interval (3640’ – 3710’) Anchor Length 70’

- IHP – 1952 #
- IFP – 45” – B.O.B. 26 min. 20-85 #
- ISI – 45” – Built to ¾ in. 1146 #
- FFP – 45” – B.O.B. 25 min. 100-138 #
- FSI – 45” – Built to 2 ¼ in. 1135 #
- FHP – 1731 #
- BHT – 109°F



Recovery: 116’ GIP  
 130’ GCO 91% Oil  
 192’ GHMCO 55% Oil

## Structural Comparison

	American Warrior, Inc. Trexler #1-18 Sec. 18 T7s R22w 2494' FNL & 1483' FWL	PETX Petroleum Corp Trexler ETAL #1 Sec. 18 T7s R22w SW SE SW		Godsey-Earloughr Inc. Ninemire #1 Sec. 18 T7s R22w C SW NE	
<b>Formation</b>					
Anhydrite	<b>1929' +378</b>	1895' +392	<b>(-14)</b>	1914' +395	<b>(-17)</b>
Base	<b>1962' +345</b>	NA	<b>NA</b>	NA	<b>NA</b>
Topeka	<b>3305' -998</b>	3288' -1004	<b>(+6)</b>	3306' -997	<b>(-1)</b>
Heebner	<b>3503' -1196</b>	3490' -1206	<b>(+10)</b>	3507' -1198	<b>(+2)</b>
Toronto	<b>3526' -1219</b>	3512' -1229	<b>(+10)</b>	3532' -1223	<b>(+4)</b>
Lansing	<b>3544' -1231</b>	3527' -1243	<b>(+12)</b>	3548' -1239	<b>(+8)</b>
BKC	<b>3739' -1432</b>	3727' -1443	<b>(+11)</b>	3744' -1435	<b>(+3)</b>
Marmaton	<b>3814' -1507</b>	3811' -1527	<b>(+20)</b>	3834' -1525	<b>(+18)</b>
Arbuckle	<b>3899' -1592</b>	3900' -1616	<b>(+24)</b>	3920' -1611	<b>(+19)</b>

## Summary

The location for the Trexler #1-18 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Lansing-Kansas City “J” zone. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Trexler #1-18 well.

## Recommended Perforations

**Primary:**

**LKC J zone                      3697’ – 3702’                      DST #2**

**Before Abandonment:**

<b>LKC K zone</b>	<b>3721’ – 3726’</b>	<b>Not Tested. Likely Tight</b>
<b>LKC F zone</b>	<b>3606’ – 3610’</b>	<b>Not Tested, Likely Water</b>
<b>LKC D zone</b>	<b>3588’ – 3592’</b>	<b>DST #1, Likely Water</b>
<b>LKC C zone</b>	<b>3574’ – 3578’</b>	<b>DST #1, Likely Water</b>
<b>Plattsmouth</b>	<b>3460’ – 3466’</b>	<b>Not Tested, Likely Water</b>

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.