

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 Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

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

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

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

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

TICKET 27673
 PAGE 1 OF 1

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

WELL/PROJECT NO. 1-19
 LEASE Eller
 COUNTY/PARISH Ellis
 STATE KS
 CITY _____

TICKET TYPE SERVICE SALES
 CONTRACTOR Express Well Service
 RIG NAME NO. _____
 SHIPPED VIA CT
 DELIVERED TO Location

WELL TYPE D-1
 WELL CATEGORY Development
 WELL PERMIT NO. _____

INVOICE INSTRUCTIONS Cement Port Collar
 DATE 10/24/18
 ORDER NO. _____
 WELL LOCATION _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575		1			MILEAGE #113	20	mi				5.00	100.00
576D		1			Pump Charge - Port Collar	1	EA				1300.00	1300.00
104		1			Port Collar Tool Rental	1	EA				200.00	200.00
290		1			D-Air	4	gal				42.00	168.00
330		2			Swift Multi-Density Standard	145	sks				16.25	2356.25
276		2			Fluore	36	lbs				2.50	90.00
581		2			Service Charge Cement	175	sks				1.75	306.25
582		2			Minimum Drayage Charge	1	EA				250.00	250.00
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY , and LIMITED WARRANTY provisions.												
MUST BE SIGNED BY CUSTOMER OR CUSTOMERS AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS												
REMIT PAYMENT TO: SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560 785-798-2300												
SURVEY <input type="checkbox"/> OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? <input type="checkbox"/> WE UNDERSTOOD AND MET YOUR NEEDS? <input type="checkbox"/> OUR SERVICE WAS PERFORMED WITHOUT DELAY? <input type="checkbox"/> WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? <input type="checkbox"/> ARE YOU SATISFIED WITH OUR SERVICE?												
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND												
DATE SIGNED _____ TIME SIGNED _____ AM _____ PM _____												
CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.												
SWIFT OPERATOR: <u>[Signature]</u> APPROVAL: _____												
TOTAL 49167.50												

Thank You!

Handwritten notes at top right.

DATE: 1/18/82

182-160-2300
MESA CITY, KS 67550

P.O. BOX 788
SMITH SERVICES, INC.

REMIT PAYMENT TO:
Minimum Deposit Check
Service Charge Company

285	8
281	8
250	8
250	8
250	1
250	1
250	1
250	1
250	1
250	1

Expense	1	1/18	500	4410	8
Exp. on Highway	1	1/18	500	520	8
Exp. on Highway	1	1/18	500	200	8
Exp. on Highway	1	1/18	500	500	8
Exp. on Highway	1	1/18	500	500	8
Exp. on Highway	1	1/18	500	500	8
Exp. on Highway	1	1/18	500	500	8
Exp. on Highway	1	1/18	500	500	8
Exp. on Highway	1	1/18	500	500	8
Exp. on Highway	1	1/18	500	500	8

1/18	1	1/18	500	4410	8
1/18	1	1/18	500	520	8
1/18	1	1/18	500	200	8
1/18	1	1/18	500	500	8
1/18	1	1/18	500	500	8
1/18	1	1/18	500	500	8
1/18	1	1/18	500	500	8
1/18	1	1/18	500	500	8
1/18	1	1/18	500	500	8
1/18	1	1/18	500	500	8

Miss Clark
1/18

Disposal Center
1/18

1/18

SMITH

Miss Clark

SMITH 51082

JOB LOG

SWIFT Services, Inc.

DATE PAGE NO.

10/24/18 1

CUSTOMER
AWI

WELL NO.
1-19

LEASE
Eller

JOB TYPE
Port Collar

TICKET NO.
27673

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0845							On loc, set up truck 2 3/8 x 5 1/2 Port Collar - 1506'
	0910						1500	Test P.C., Held
	0915	3	5				300	Open P.C., Pump into
	0925							Hook up to tubing.
		3					300	Start Cmt
		3	5				300	Catch Circulation
		3	58				400	Cmt Circulating, Raise Wt 14 1/2 #
		3	68				500	Fin Cmt, Start Displacement
		3	73				550	Fin Displacement, shut Down
								Close in, Close P.C.
							1500	Test P.C. - Held.
								Release Press.
								Run 5 Jts
	1000	2 1/2					2000	Reverse Out
								2 Flags
	1010	2 1/2	17				200	Fin Rev Out
								Wash up
								Back up
	1030							Job Complete
								Thanks Jon, Austin, Isaac
								145 SKS SMD Used Circ 20 SKS to Pit.

10/20/13

SHUFF SYSTEMS, INC.

AWI

51273

Part Collar

ELK

1-19

AWI

Part Collar - 1500
2 3/4 x 2 1/2
On lot, set up tank

0642

Test P.C. Hold
Open P.C. Pump into
Tank up to tubing
Start unit

1500

500

2

3

0710

0715

0722

Unit Counting, raise wt H₂O
Fin Count, Start Displacement
Fin Displacement, Shut Down
Close in, Release P.C.

1500

400

500

250

3

3

3

3

3

3

Test P.C. - Hold

1500

Release Press

Run 5 1/2

Lower Out

200

2 Flaps

Fin Run Out

200

Washing

Back up

Job Complete

1500

1010

1050

Thanks
John, Austin, Isaac

THE 200 2010
Car 2010 to 2011



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

TICKET 27669

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hays, KS WELL/PROJECT NO. 1-19 LEASE Eller COUNTY/PARISH Ellis STATE KS CITY _____ DATE 10/05/18 OWNER _____
 2. Ness City, KS TICKET TYPE CONTRACTOR RIG NAME/NO. #4 SHIPPED VIA CT DELIVERED TO Location WELL PERMIT NO. _____
 3. WELL TYPE D-1 WELL CATEGORY Development JOB PURPOSE Cement Long String WELL LOCATION _____
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					MILEAGE #113	15	mi				5.00	75.00
578					Pump Charge - long string	1	EA				1300.00	1300.00
290					D-Air	3	gal				42.00	126.00
281					Mud Flush	500	gal				1.50	750.00
221					Liquid KCL	2	gal				25.00	50.00
402					Centralizer	7	EA				70.00	490.00
403					Cement Basket	1	EA				275.00	275.00
404					Port Collar	1	EA				2500.00	2500.00
406					Latch Down Plug + Bag	1	EA				250.00	250.00
407					Insert Float shoe w/ Au to fill	1	EA				325.00	325.00
419					Rotating Head Rental	1	EA				200.00	200.00

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

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 DATE SIGNED: _____ 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?				Page 1	6341.00
WE UNDERSTOOD AND MET YOUR NEEDS?				Page 2	4136.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Ellis	10477.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				7180.00	593.95
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	11071.96

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!

Handwritten notes at top right of page.

UNITED WATERFRONT CORP.
 1000 ...
 ...

LEGAL ...
 ...

410	1
402	1
400	1
401	1
403	1
405	1
381	1
330	1
238	1
232	1

...
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21001
 ...

182-128-2300
 NESS CITY, KS 67200
 P.O. BOX 480
 SWIFT SERVICES, INC.
 REMIT PAYMENT TO:

Reporting Agency
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51922



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

TICKET CONTINUATION

CUSTOMER
American Warrior Inc

WELL
Eller 1-19

DATE
10/05/18

TICKET No. 27669
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M		
325		2				Standard Cement	175	SKS	13.00	2275.00
284		2				Cal Seal	8	SKS	35.00	280.00
283		2				SalF	950	lbs	0.20	190.00
292		2				Halal 322	83	lbs	8.00	664.00
276		2				Flocele	44	lbs	2.50	110.00
581		2				Cement	175	SKS	1.75	306.25
583		2				MILEAGE CHARGE	18327	TOTAL WEIGHT	0.85	311.56
						LOADED MILES	40			
						CLASSIC FEE	366.54	TON MILES		
CONTINUATION TOTAL										4136.81

JOB LOG

SWIFT Services, Inc.

DATE

10/05/19

PAGE NO.

1

CUSTOMER
AWI

WELL NO.
1-19

LEASE
Eller

JOB TYPE
Long String

TICKET NO.
27669

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0940							On loc w/ Float Equipment Rig LDDP.
								RTD-3960' LTD-3958' Pipe set @ - 3955.96' Insert - 3915.34' 5 1/2" x 15 1/2" # Centralizers- 1, 3, 5, 7, 9, 11, 56 Basket - #57 Port Collar - #57 @ 1514.04
	1125							Start Running Casing w/ Float Equip.
	1300							On Bottom, Break Circ
	1330	2	8					Plug Rathole w/ 30 SKS
		2	4					Plug Mousehole w/ 15 SKS
	1340	5 1/2	12			400		Pump Mud Flush
		5 1/2	20			300		Pump KCL Spacer
	1345	4 1/2				300		Start EA-2 Cmt
		4 1/2	32			Vac		Fin Cmt
	1405							Drop Plug, Wash out Pumpst Lines
	1410	7 1/2				Vac		Start Displacement
		7 1/4	72			350		Catch Cmt
		6 1/4	90			750		Lift Psi
	1425	6	93 1/4			1400		Land Psi
	1430							Release Truck, Dry
	1435							Washup Rack up
	1445							Job Complete

Thanks
Jon, Austin, Isaac

Geological Report

Eller #1-19

1278' FSL & 727' FWL

Sec. 19 T13s R19w

Ellis County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Eller #1-19
1278' FSL & 727' FWL
Sec. 19 T13s R19w
Ellis County, Kansas
API # 15-051-26921-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #4

Geologist: Jason T Alm

Spud Date: September 28, 2018

Completion Date: October 5, 20

Elevation: 2178' Ground Level
2186' Kelly Bushing

Directions: Yocemento KS, West 3.5 mi. on Hwy 40 to 160th
Ave. South 1.5 mi to Vineyard Rd. From the
intersection head Northeast thru gate to location.

Casing: 221' 8 5/8" surface casing
3957' 5 1/2" production casing

Samples: 10' wet and dry, 3200' to RTD

Drilling Time: 3100' to RTD

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

Drillstem Tests: Three, Trilobite Testing, Inc. "Matt Smith"

Problems: None

Remarks: None

Formation Tops

Formation	American Warrior, Inc. Eller #1-19 Sec. 19 T13s R19w 1278' FSL & 727' FWL
Anhydrite	1520' +666
Base	1568' +618
Topeka	3244' -1058
Heebner	3479' -1293
Toronto	3502' -1316
Lansing	3522' -1336
BKC	3768' -1582
Marmaton	3817' -1631
Arbuckle	3894' -1708
LTD	3958' -1772
RTD	3960' -1774

Sample Zone Descriptions

- Toronto (3502' -1316): Covered in DST #2**
 Ls – Fine crystalline, oolitic with poor to fair oolitic and inter-crystalline porosity, light to fair oil stain in porosity, fair show of free oil, light odor, dull yellow fluorescents.
- LKC C zone (3552' -1366): Covered in DST #2**
 Ls – Fine crystalline, oolitic in part with poor to fair oolitic and vuggy porosity, light to fair oil stain and saturation, fair show of free oil when broken, light odor, dull to fair yellow fluorescents.
- LKC J zone (3700' -1514): Covered in DST #3**
 Ls – Fine crystalline, oolitic with fair oomoldic and inter-crystalline porosity, light to fair oil stain and saturation in porosity, fair show of free oil, light odor, fair yellow fluorescents.
- Marmaton (3817' -1631): Not Tested**
 Ls – Δ – Fine crystalline with poor vuggy and scattered poor inter-crystalline porosity, very heavy orange and white chert with scattered pinpoint vuggy porosity, light to fair oil stain in porosity, slight show of free oil on cup, light odor.

Drill Stem Tests
 Trilobite Testing, Inc.
 "Matt Smith"

DST #1 Toronto thru LKC C zone

Interval (3480' – 3565') Anchor Length 85'
 Mis-run, tool hit bridge 30 ft off bottom

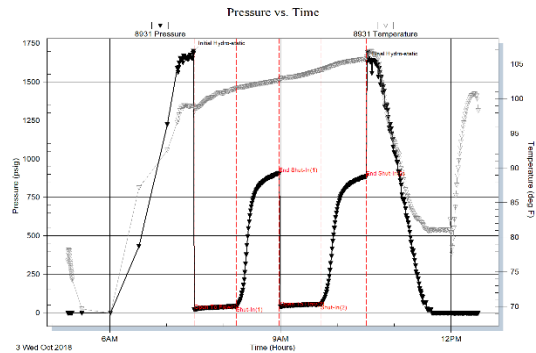
Recovery: 20' Mud

DST #2 Toronto thru LKC C zone

Interval (3480' – 3570') Anchor Length 90'

IHP	- 1697 #	
IFP	- 45" – Built to 5 ¾ in.	18-42 #
ISI	- 45" – Dead	907 #
FFP	- 45" – Built to 9 in.	37-55 #
FSI	- 45" – Dead	887 #
FHP	- 1629 #	
BHT	- 105°F	

Recovery: 120' GIP
 66' GOCM 32% Oil
 31' GOCM 25% Oil

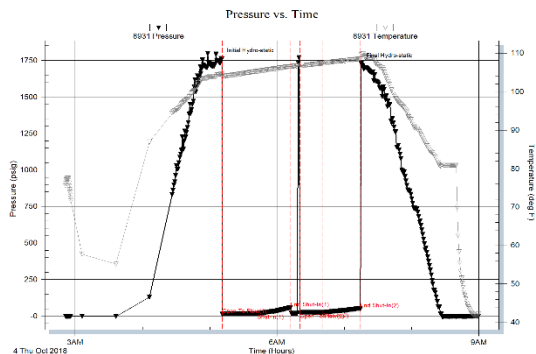


DST #3 LKC H thru LKC J zone

Interval (3630' – 3728') Anchor Length 98'

IHP	- 1761 #	
IFP	- 30" – Built to 1 in.	13-17 #
ISI	- 30" – Dead	58 #
FFP	- 30" – Built to ½ in.	23-25 #
FSI	- 30" – Dead	53 #
FHP	- 1729 #	
BHT	- 109°F	

Recovery: 15' OCM 10% Oil



Structural Comparison

Formation	American Warrior, Inc. Eller #1-19 Sec. 19 T13s R19w 1278' FSL & 727' FWL	King Oil Operations King #1 Sec. 24 T13s R20w 2220' FNL & 685' FEL	TOKCO Orth #1 Sec. 19 T13s R19w 3630' FSL & 2970' FEL
Anhydrite	1520' +666	1502' +660	NA
Base	1568' +618	NA	NA
Topeka	3244' -1058	3212' -1050	3204' -1028
Heebner	3479' -1293	3446' -1284	3450' -1274
Toronto	3502' -1316	3472' -1310	3469' -1293
Lansing	3522' -1336	3489' -1327	3490' -1314
BKC	3768' -1582	3732' -1570	3745' -1569
Marmaton	3817' -1631	3784' -1622	3782' -1606
Arbuckle	3894' -1708	3846' -1684	3860' -1684

Summary

The location for the Eller #1-19 was found via 3-D seismic survey. The new well ran structurally lower than expected via the survey. Three Drill Stem Tests were conducted one of which recovered commercial amounts of oil from the Lansing-Kansas City Formations. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Eller #1-19 well.

Recommended Perforations

Primary:

Marmaton	3818' – 3828'	Not Tested
LKC C	3553' – 3560'	DST #2

Secondary:

Toronto	3503' – 3507'	DST #2
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Before Abandonment:

LKC J	3706' – 3708'	DST #3
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Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc

19-13s-19w Ellis Co. Ks.

P.O. Box 399
3118 Cummings Rd
Garden City, Ks. 67846
ATTN: Jason Alm

Eller # 1-19

Job Ticket: 64714

DST#: 1

Test Start: 2018.10.02 @ 19:13:32

GENERAL INFORMATION:

Formation: **Toronto-LKC "C" zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:24:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: **3480.00 ft (KB) To 3565.00 ft (KB) (TVD)**

Reference Elevations: 2186.00 ft (KB)

Total Depth: 3565.00 ft (KB) (TVD)

2178.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8931

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.10.02

End Date: 2018.10.03

Last Calib.: 2018.10.03

Start Time: 19:13:37

End Time: 00:24:31

Time On Btm:

Time Off Btm:

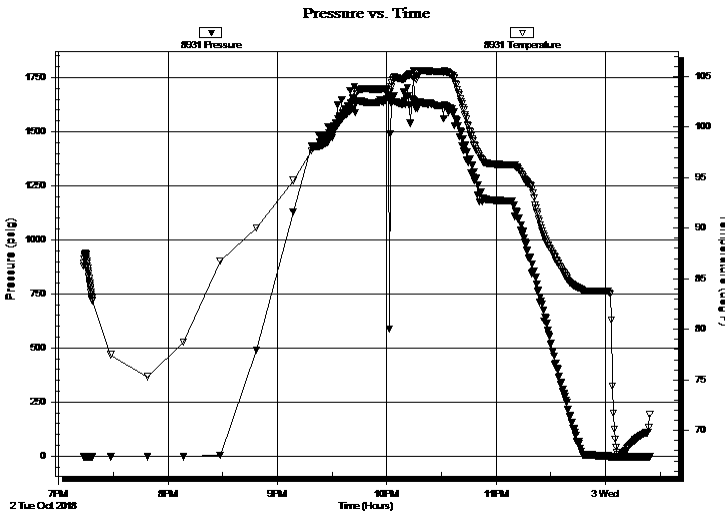
TEST COMMENT: IF: 18 ft of fill

IS:

FF:

FS:

PRESSURE SUMMARY



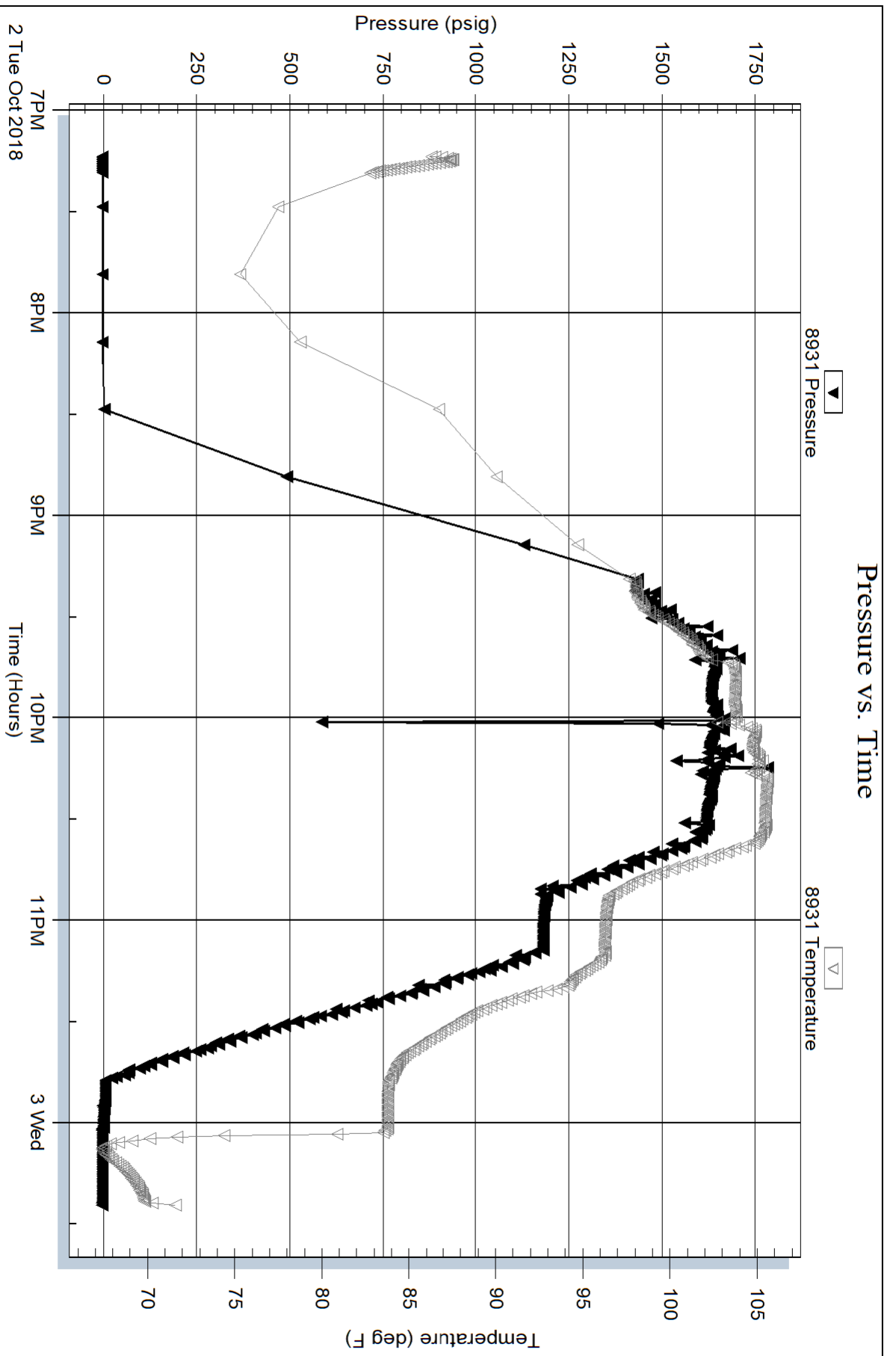
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig Mud 100% m	0.10

Gas Rates

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





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc
P.O. Box 399
3118 Cummings Rd
Garden City, Ks. 67846
ATTN: Jason Alm

19-13s-19w Ellis Co. Ks.

Eller # 1-19

Job Ticket: 64715

DST#: 2

Test Start: 2018.10.03 @ 05:15:27

GENERAL INFORMATION:

Formation: **Toronto - LKC "C" zo**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:28:42

Time Test Ended: 12:28:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3480.00 ft (KB) To 3570.00 ft (KB) (TVD)

Reference Elevations: 2186.00 ft (KB)

Total Depth: 3570.00 ft (KB) (TVD)

2178.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8931

Inside

Press@RunDepth: 55.19 psig @ 3481.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.10.03

End Date:

2018.10.03

Last Calib.: 2018.10.03

Start Time: 05:15:32

End Time:

12:28:11

Time On Btm: 2018.10.03 @ 07:27:57

Time Off Btm: 2018.10.03 @ 10:31:12

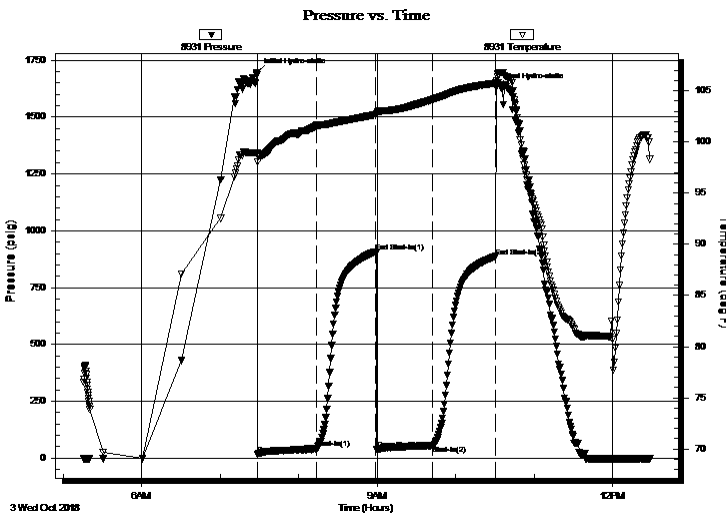
TEST COMMENT: IF: Weak - Fair blow . Built to 5 3/4".

IS: No blow .

FF: Fair blow . Built to 9".

FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.54	98.96	Initial Hydro-static
1	18.12	98.09	Open To Flow (1)
46	41.85	101.59	Shut-In(1)
91	907.48	102.67	End Shut-In(1)
92	37.73	102.87	Open To Flow (2)
135	55.19	104.16	Shut-In(2)
183	886.54	105.75	End Shut-In(2)
184	1629.28	105.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	MCOG 70% m 25% o 5% g	0.15
66.00	MCOG 66% m 32% o 2% g	0.93
0.00	120' G.I.P. 100% g	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
P.O. Box 399
3118 Cummings Rd
Garden City, Ks. 67846
ATTN: Jason Alm

19-13s-19w Ellis Co. Ks.

Eller # 1-19

Job Ticket: 64715

DST#: 2

Test Start: 2018.10.03 @ 05:15:27

GENERAL INFORMATION:

Formation: **Toronto - LKC "C" zo**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:28:42

Time Test Ended: 12:28:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: **3480.00 ft (KB) To 3570.00 ft (KB) (TVD)**

Total Depth: 3570.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2186.00 ft (KB)

2178.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8792** Outside

Press@RunDepth: psig @ 3481.00 ft (KB)

Start Date: 2018.10.03

End Date: 2018.10.03

Capacity: 8000.00 psig

Last Calib.: 2018.10.03

Start Time: 05:15:45

End Time: 12:28:24

Time On Btm:

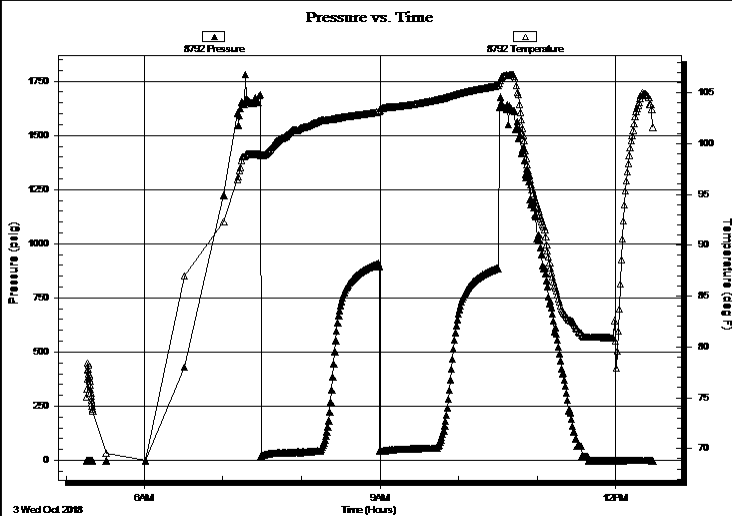
Time Off Btm:

TEST COMMENT: IF: Weak - Fair blow . Built to 5 3/4".

IS: No blow .

FF: Fair blow . Built to 9".

FS: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
31.00	MCOG 70% m 25% o 5% g	0.15
66.00	MCOG 66% m 32% o 2% g	0.93
0.00	120' G.I.P. 100% g	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

19-13s-19w Ellis Co. Ks.

P.O. Box 399
3118 Cummings Rd
Garden City, Ks. 67846
ATTN: Jason Alm

Eller # 1-19

Job Ticket: 64715

DST#: 2

Test Start: 2018.10.03 @ 05:15:27

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 6.40 in³
Resistivity: 2200.00 ohm.m
Salinity: ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 2200 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	MCOG 70%m 25%o 5%g	0.152
66.00	MCOG 66%m 32%o 2%g	0.926
0.00	120' G.I.P. 100%g	0.000

Total Length: 97.00 ft Total Volume: 1.078 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

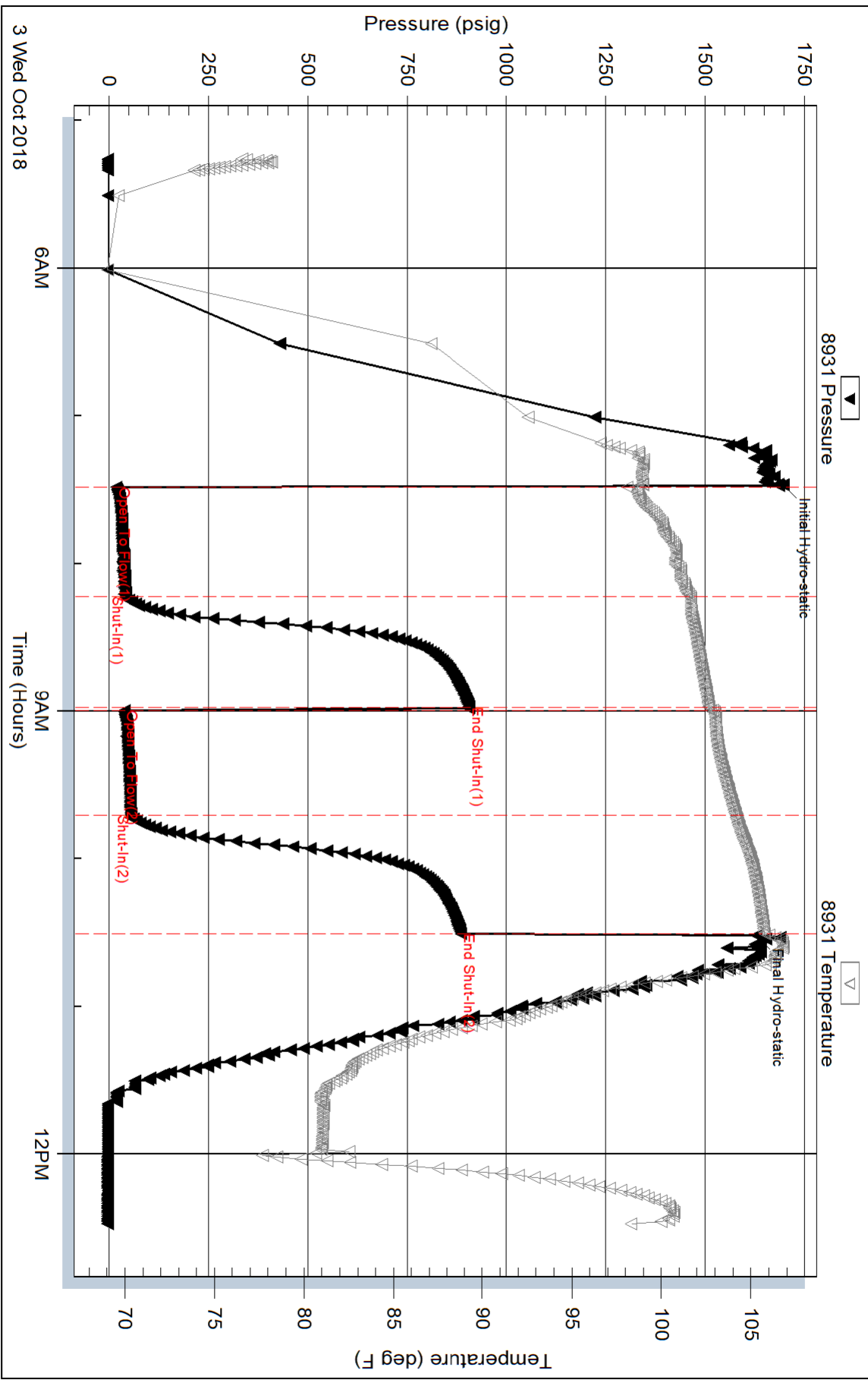
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: 120 ft Gas in Pipe.

Pressure vs. Time

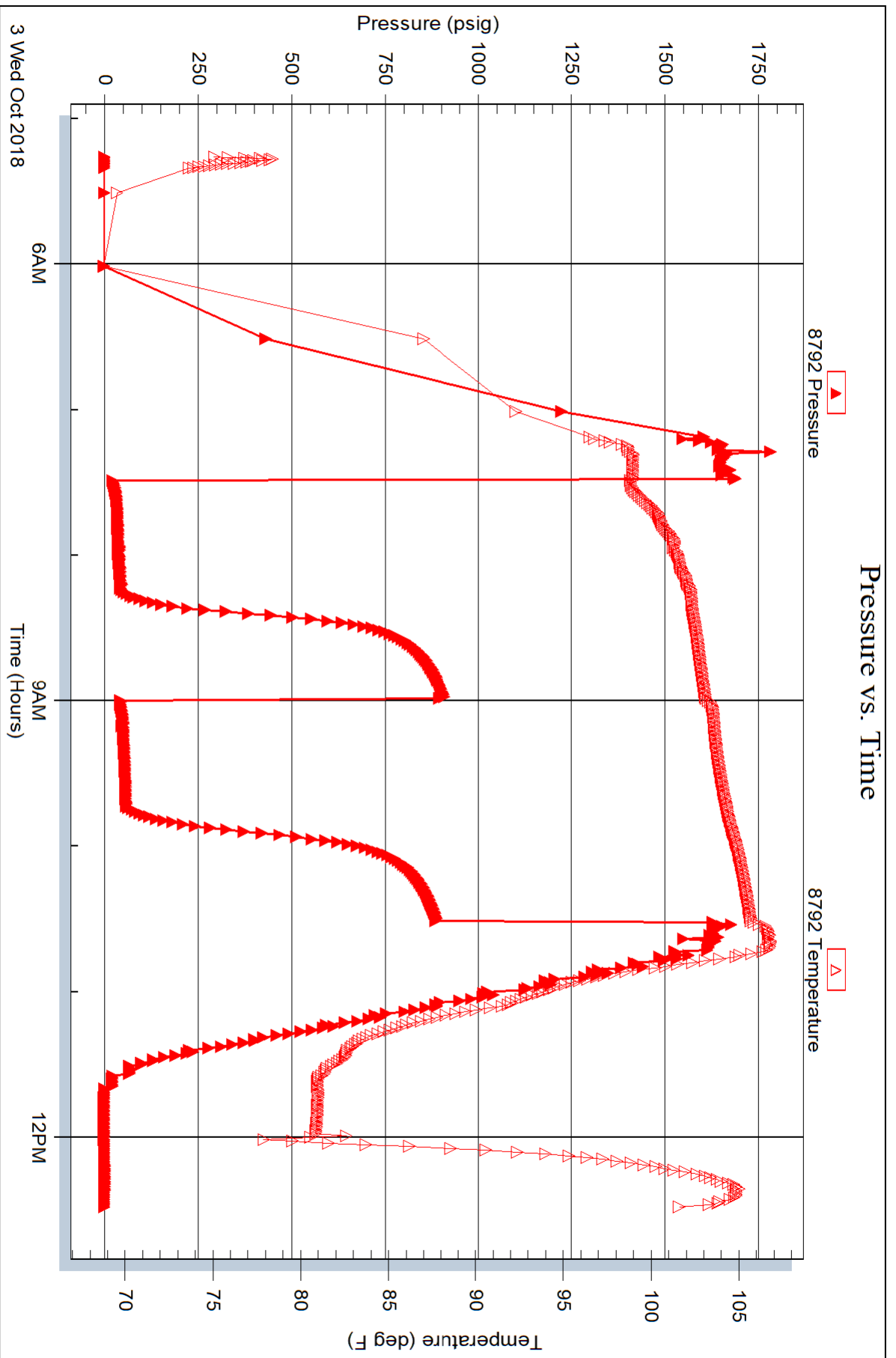


Serial #: 8792

Outside American Warrior Inc

Elser # 1-19

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64715

Printed: 2018.10.03 @ 13:56:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
P.O. Box 399
3118 Cummings Rd
Garden City, Ks. 67846
ATTN: Jason Alm

19-13s-19w Ellis Co. Ks.

Eller # 1-19

Job Ticket: 64716

DST#: 3

Test Start: 2018.10.04 @ 02:51:06

GENERAL INFORMATION:

Formation: **LKC "H- J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:10:51

Time Test Ended: 08:59:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3630.00 ft (KB) To 3728.00 ft (KB) (TVD)

Reference Elevations: 2186.00 ft (KB)

Total Depth: 33728.00 ft (KB) (TVD)

2178.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8931

Inside

Press@RunDepth: 24.50 psig @ 3631.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.10.04

End Date: 2018.10.04

Last Calib.: 2018.10.04

Start Time: 02:51:11

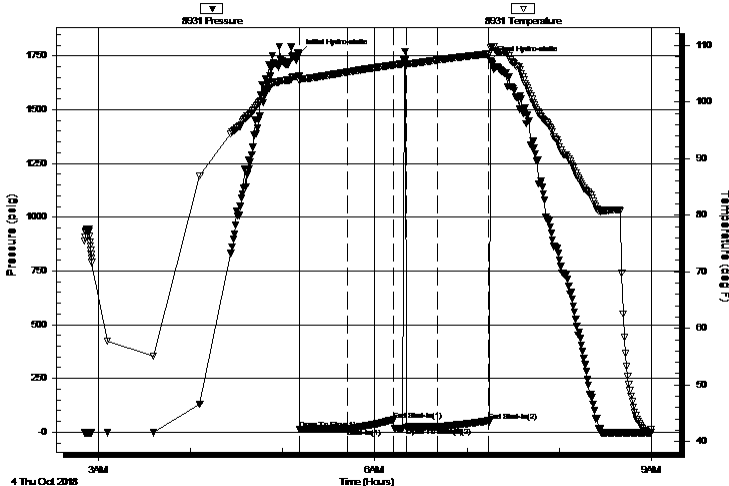
End Time: 08:59:50

Time On Btm: 2018.10.04 @ 05:10:36

Time Off Btm: 2018.10.04 @ 07:15:06

TEST COMMENT: IF: Weak blow . Built to 1".
IS: No blow .
FF: No blow . Flushed tool. Built to 1/2"., back to 1/4".
FS: No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.63	104.55	Initial Hydro-static
1	13.31	103.69	Open To Flow (1)
32	16.71	105.30	Shut-In(1)
62	57.63	106.53	End Shut-In(1)
70	23.43	106.79	Open To Flow (2)
90	24.50	107.40	Shut-In(2)
124	52.63	108.49	End Shut-In(2)
125	1728.58	109.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MCO 90% m 10% o	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc
P.O. Box 399
3118 Cummings Rd
Garden City, Ks. 67846
ATTN: Jason Alm

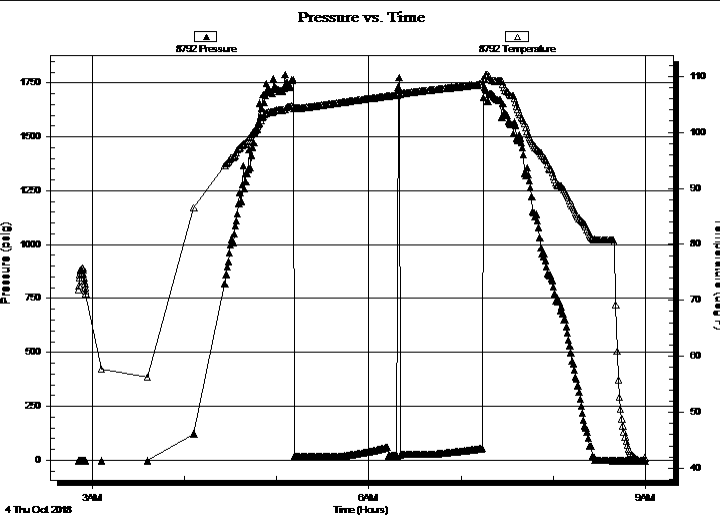
19-13s-19w Ellis Co. Ks.
Eller # 1-19
Job Ticket: 64716 **DST#: 3**
Test Start: 2018.10.04 @ 02:51:06

GENERAL INFORMATION:

Formation: **LKC "H- J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:10:51 Tester: Matt Smith
 Time Test Ended: 08:59:51 Unit No: 68
 Interval: **3630.00 ft (KB) To 3728.00 ft (KB) (TVD)**
 Reference Elevations: 2186.00 ft (KB)
 Total Depth: 33728.00 ft (KB) (TVD) 2178.00 ft (CF)
 Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8792 Outside
 Press@RunDepth: psig @ 3631.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.10.04 End Date: 2018.10.04 Last Calib.: 2018.10.04
 Start Time: 02:51:12 End Time: 08:59:51 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak blow . Built to 1".
 IS: No blow .
 FF: No blow . Flushed tool. Built to 1/2"., back to 1/4".
 FS: No blow .



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

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	MCO 90% m 10% o	0.07

* 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

19-13s-19w Ellis Co. Ks.

P.O. Box 399
3118 Cummings Rd
Garden City, Ks. 67846
ATTN: Jason Alm

Eller # 1-19

Job Ticket: 64716

DST#: 3

Test Start: 2018.10.04 @ 02:51:06

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:

3000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 3000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	MCO 90% _m 10% _o	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

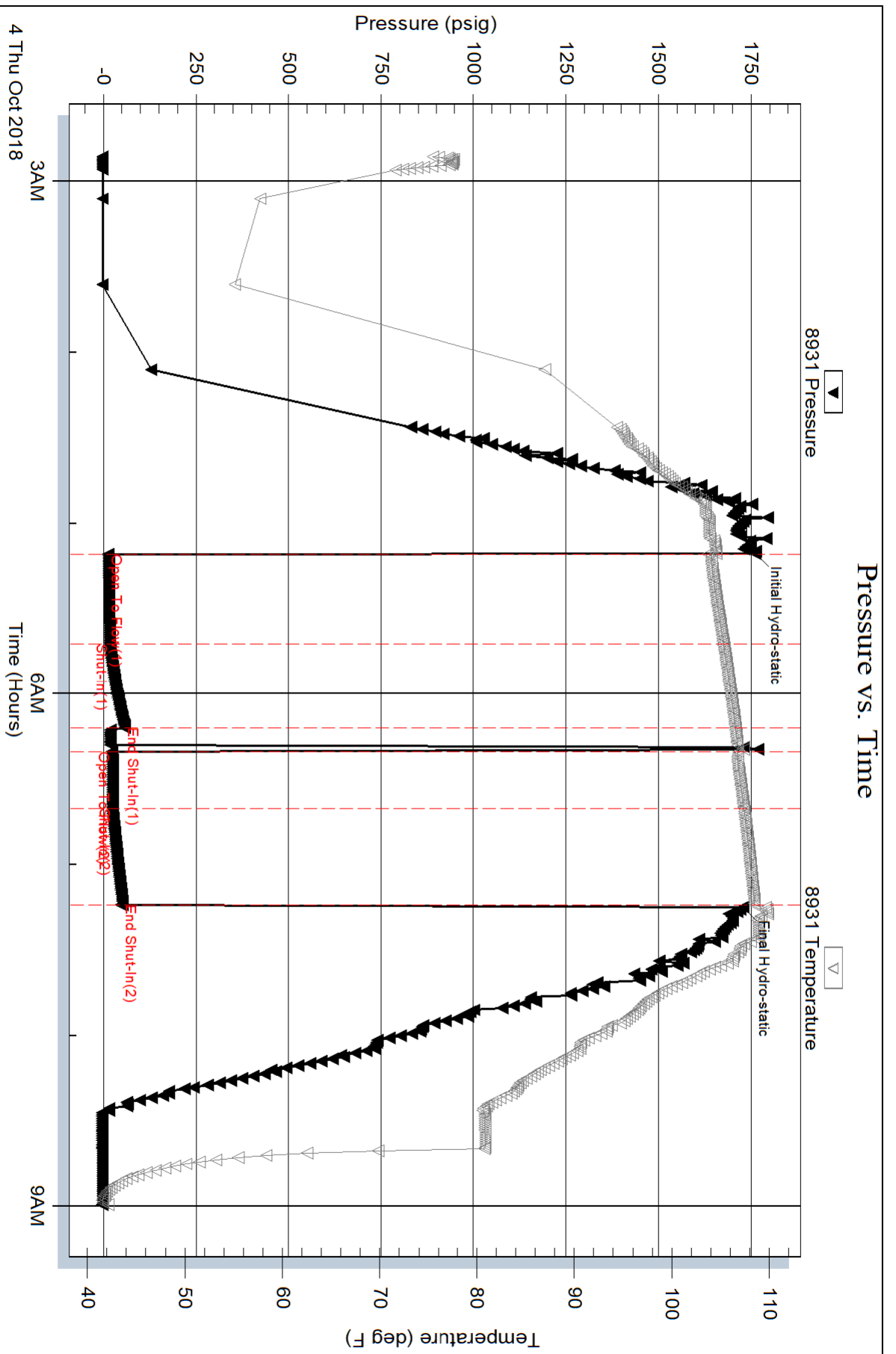
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

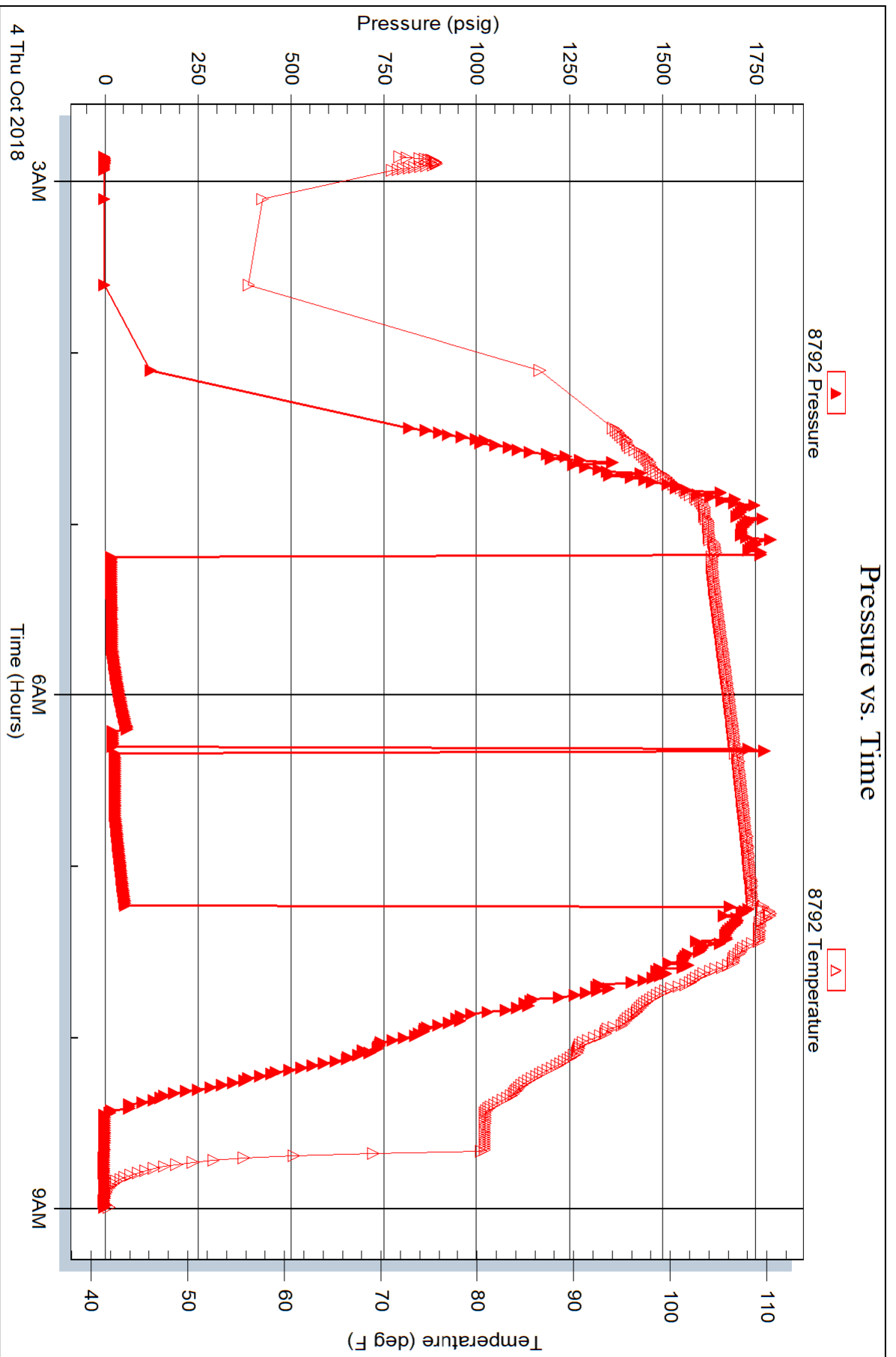


Serial #: 8792

Outside American Warrior Inc

Eler # 1-19

DST Test Number: 3





Services, Inc.

CHARGE TO:

American Warrior Tree

ADDRESS

CITY, STATE, ZIP CODE

TICKET

2766

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Ness City, KS	1-19	Ellis	Ellis	KS		09/28/18	
2. Ness City, KS	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
		Discovery Drilling Inc	#4	CT	Location		
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION	
			Development				
4.	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT		
		LOC	ACCT	DF		QTY.	UM	QTY.			UM	
575					MILEAGE #113	15	mi	EA	5.00	75.00		
5765					Pump Charge - Shallow Surface	1			875.00	875.00		
325					Standard Cement	150	sk		13.00	1950.00		
279					Bentonite Gel	3	bd		30.00	90.00		
278					Calcium Chloride	7	sk		40.00	280.00		
290					D-Air	2	gal		42.00	84.00		
581					Service Charge Cement	150	sk		1.75	262.50		
583					Drillage	40	hr		6.25	250.00		
REMIT PAYMENT TO:					SURVEY		UN-DECIDED		DIS-AGREE		PAGE TOTAL	
SWIFT SERVICES, INC.					OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?						Ellis	
P.O. BOX 466					WE UNDERSTOOD AND MET YOUR NEEDS?						TAX	
NESS CITY, KS 67560					OUR SERVICE WAS PERFORMED WITHOUT DELAY?						70.00	
785-798-2300					WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?						TOTAL	
					ARE YOU SATISFIED WITH OUR SERVICE?		YES		NO		4025.50	

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

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

X *[Signature]*

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 *[Signature]* APPROVAL *[Signature]*

Thank You

JOB LOG

SWIFT Services, Inc.

DATE 09/28/18 PAGE 1

CUSTOMER *AWI* WELL NO. *1-19* LEASE *Eller* JOB TYPE *Stallow Surface* TICKET NO. *27665*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>2215</i>							<i>On location, Rig Drilling</i>
								<i>222' of 8 5/8" x 23#</i>
	<i>2230</i>							<i>Rig Running Casing</i>
								<i>On Bottom, Break Circulation</i>
	<i>2330</i>							<i>Hook up to Swift</i>
	<i>2335</i>	<i>3</i>	<i>5</i>			<i>200</i>		<i>Start Water ahead</i>
	<i>2340</i>	<i>4</i>				<i>200</i>		<i>Start Cmt</i>
		<i>4 1/2</i>	<i>36</i>					<i>Fin Cmt, Start Displacement</i>
	<i>2359</i>	<i>4 1/2</i>	<i>13</i>			<i>200</i>		<i>Fin Disp, Cmt Circ to Surface</i>
	<i>0001</i>							<i>Shut in</i>
								<i>Release Truck</i>
	<i>0005</i>							<i>Wash up</i>
								<i>Back up</i>
	<i>0015</i>							<i>Job Complete</i>
								<i>Thanks</i>
								<i>Jon, Austin, Russe II</i>