

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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CHARGE TO: American Warrior

TICKET **031753**

ADDRESS  
CITY, STATE, ZIP CODE

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City KS</u>	WELL/PROJECT NO. <u>#13</u>	LEASE <u>Russ</u>	COUNTY/PARISH <u>Hodgeman</u>	STATE <u>KS</u>	CITY <u>Shawnee</u>	DATE <u>8-14-18</u>	OWNER <u>Seume</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke Drilling Co.</u>	RIG NAME/NO. <u>#5</u>	SHPED VIA <u>GT</u>	DELIVERED TO <u>Location</u>	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 8 1/8" Surface Pipe</u>	WELL LOCATION <u>Shawnee - 16, 29, 38, 41 mi</u>				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
<u>575</u>					<u>Tek # 112</u>						<u>5.00</u>	<u>200.00</u>
<u>576.5</u>					<u>Pump Charge - Shallow Surface</u>						<u>875.00</u>	<u>875.00</u>
<u>325</u>					<u>Standard Cement -</u>						<u>13.00</u>	<u>2145.00</u>
<u>279</u>					<u>Bentonite Gel</u>						<u>30.00</u>	<u>900.00</u>
<u>278</u>					<u>Calcium Chloride</u>						<u>40.00</u>	<u>2800.00</u>
<u>290</u>					<u>D-Air</u>						<u>42.00</u>	<u>84.00</u>
<u>581</u>					<u>Service Charge Cement</u>						<u>1.75</u>	<u>288.75</u>
<u>583</u>					<u>Drayage</u>						<u>00.85</u>	<u>224.72</u>

**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**

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

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECODED	DISAGREE	PAGE TOTAL	TOTAL
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					

DATE SIGNED 8-14-18 TIME SIGNED 0400  A.M.  P.M.

SWIFT OPERATOR David Kushn APPROVAL \_\_\_\_\_

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

Thank You!

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JOB LOG

SWIFT Services, Inc.

DATE 8-14-18 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 1-3 LEASE Ruff JOB TYPE Surface TICKET NO. 31753

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0100							on location 8 1/2 24"
								RTD - 285' TP - 284'
	0130							Break Circulation
	0230	4	5		✓		100	Pump 5 bbl water Spacer
	0230	4	40		✓		100	mix 165 sks STD 2% Gcl 3% CC
	0245	4	0		✓		100	Start Displacement
		4	10		✓		100	Circulate Cement to surface * 30 sks *
	0300	4	17 1/4		✓		200	Kicks out Pump / Shut In
								* 30 sks to Pit *
								wash up truck
	0400							Job Complete
								Thanks You Dave Prosen Gideon

2015

SMITH

Smith

Account	Balance	Ref	Part	Notes
1000				Collection
1000				Bank Collection
1000				100 Prop 2 11 water space
1000				100 Prop 2 11 water space

TP-284

RID-282

Bank Collection

100 Prop 2 11 water space

100 Prop 2 11 water space

1000				100 Prop 2 11 water space
1000				100 Prop 2 11 water space
1000				100 Prop 2 11 water space
1000				100 Prop 2 11 water space

± 3000 to 61 \*

wash up truck

The Carriage

Thank for Done Foster Wilson



CHARGE TO: American Lessor

ADDRESS

CITY, STATE, ZIP CODE

TICKET 031758

PAGE 1 OF 2

1. SERVICE LOCATIONS Adair City KS	WELL/PROJECT NO. #1-3	LEASE Ruff	COUNTY/PARISH Hodgeman	STATE KS	CITY Schmora	DATE 8-21-18	OWNER Swine
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Duke Drilling Co.	RIG NAME/NO. #5	SHIPPED VIA CT	DELIVERED TO Location	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE D-1	WELL CATEGORY Development	JOB PURPOSE Cement 5 1/2" Lengthening	WELL LOCATION Schmora - 18, 25, 3E, 41 in				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		U/M	U/M				
575					MILEAGE			40	mi	5.00	200.00
578					Tub #112			1		1300.00	1300.00
402					Pump Change - Lengthening			1	job	70.00	70.00
403					Centralizer			2	ea	325.00	650.00
407					Cement Basket			1	ea	275.00	275.00
406					Insert Float Shoe w/ Auto Fill			1	ea	325.00	325.00
404					Leak Down Plug + Baffle			1	ea	250.00	250.00
					Part Collar			1	ea	2500.00	2500.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S 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

DATE SIGNED: 8-21-18 TIME SIGNED:  A.M.  P.M.

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
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	

PAGE TOTAL #1 5755.00  
 #2 5161.35  
 TOTAL 11585.15

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

SWIFT OPERATOR: David Huehn APPROVA: [Signature]

Thank You!



8/21/18  
 12011182  
 11621182  
 11621182

REMIT PAYMENT TO  
 MESS OLY, KS 62300  
 P O BOX 499  
 SWIFT SERVICES, INC

DATE	DESCRIPTION	AMOUNT	BALANCE
8/21/18	Post Office	3200.00	3200.00
8/21/18	Transfer Debit Card + E-TRF	3200.00	0.00
8/21/18	Transfer Debit Card + E-TRF	352.00	352.00
8/21/18	Transfer Debit Card + E-TRF	352.00	0.00
8/21/18	Transfer Debit Card + E-TRF	285.00	285.00
8/21/18	Transfer Debit Card + E-TRF	285.00	0.00
8/21/18	Transfer Debit Card + E-TRF	1300.00	1300.00
8/21/18	Transfer Debit Card + E-TRF	2100.00	2100.00

AMERICAN SAVINGS BANK  
 20111828

AMERICAN SAVINGS BANK  
 20111828

DATE	DESCRIPTION	AMOUNT	BALANCE
8/21/18	Post Office	3200.00	3200.00
8/21/18	Transfer Debit Card + E-TRF	3200.00	0.00
8/21/18	Transfer Debit Card + E-TRF	352.00	352.00
8/21/18	Transfer Debit Card + E-TRF	352.00	0.00
8/21/18	Transfer Debit Card + E-TRF	285.00	285.00
8/21/18	Transfer Debit Card + E-TRF	285.00	0.00
8/21/18	Transfer Debit Card + E-TRF	1300.00	1300.00
8/21/18	Transfer Debit Card + E-TRF	2100.00	2100.00

AMERICAN SAVINGS BANK  
 20111828

AMERICAN SAVINGS BANK  
 20111828



Seawater, Inc.

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

TICKET CONTINUATION

TICKET No. # 31758

CUSTOMER American Lumber

WELL Ruff # 1-3

DATE 8-21-18

PAGE 2 of 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT		
		LOC	ACCT	DF			QTY.	UM	QTY.	UM				
325						Standard Cement (EA-2)					175	slks	13.00	2275.00
284						Calseal	5	%	8	slks			35.00	280.00
283						Salt	10	1%	900	lbs			20.00	180.00
<del>292</del>						Halad 322	3/4	%	100	lbs			8.00	800.00
276						Flare	1/4	lb	50	lbs			2.50	125.00
290						D-Air			2	gal			42.00	84.00
281						Mud Flush			500	gal			1.50	750.00
221						Liquid KCL			2	gal			25.00	50.00
581						SERVICE CHARGE							1.75	306.25
583						MILEAGE CHARGE							1.85	311.10
						TOTAL WEIGHT			18300					
						LOADED MILES			40					
						CUBIC FEET			175					
						TON MILES			366					

CONTINUATION TOTAL \$161.35

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JOB LOG

SWIFT Services, Inc.

DATE 8-21-18 PAGE NO. 1

CUSTOMER American Warrior WELL NO. #1-3 LEASE Ruff JOB TYPE Longstring TICKET NO. #31758

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							on location 5 1/2" 15.5"
								RTD - 4650' LTD' - w/A
								TP - 4648 SJ - #2 42.39
								P.C. - #77 1428' out - #1" 111
								Centralizers - #1" 3" 5" 7" 9" 11" 13" 15" 76
								Basket - #6 #77
	1100							Start 5 1/2 15.5" casing in well
	1320							Drop Ball Circulate
	1405	6 1/2	12		✓	350		Pump 500 gal Mud Flush
		6 1/2	20		✓	350		Pump 20 bbl KCL Flush
			7.5					Plug RH - MH (30-20)
	1420	4 1/2	30		✓	200		mix 125 sks EA-2 @ 15.5 pps
								Wash out Pump + Lines
								Release Latch Down Plug
	1435	6 1/2	0		✓	100		Start Displacement
		6 1/2	91		✓	300		Lift Pressure
		6 1/2	108		✓	800		Max Lift Pressure
	1455	6 1/2	109 1/2		✓	1800		Land Latch Down Plug
								Release Pressure *Plug Hold*
								wash up truck
	1530							Job Complete

Thank You  
Dave Preston Gideon Kirby

1100

RTD - H2O  
TP - H2O  
PL - 27  
Confidence - 1.3 \* 2.7 \* 11 \* 13.12 \* 25  
Budget - 26 \* 77

1100

1320

Drop Ball Circulate  
350 Pump 200 gal 1000 gal  
350 Pump 200 gal 1000 gal

72

Pump RH - MAH (3.50)

1420

800 min test at EAD @ 12.2 hrs

Water out Pump + Line  
Pressure falls Down Plug

1432

100 Start Displacement  
300 L.A. Pressure

1452

1800 Start test down Plug

Pressure Pressure \* Plug Hobb\*

1520

Wind up track  
Job Complete

Due Problem when wind  
Track the



TICKET 031767

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

PAGE 1 OF 1

1. SERVICE LOCATIONS Ness City KS	WELL/PROJECT NO. A-13	LEASE Ruff	COUNTY/PARISH Hodgeman	STATE KS	CITY Selmore	DATE 8-31-18	OWNER Same
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Co Tools	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO Location	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE Oil	WELL CATEGORY Development	JOB PURPOSE Cement 5 1/2" Port Collar	WELL LOCATION Selmore-16, 29, 28a, 28b				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY. U/M		QTY. U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE			40	mi	5.00	200.00
576 D					Pump Charge - Port Collar			1	job	1300.00	1300.00
330					SMB Cement			125	shk	16.25	2031.25
276					Flocle			1/4	lb	2.50	62.50
290					D-Air			1	job	42.00	42.00
105					Port Collar Tool Rank 1			5 1/2	in	275.00	275.00
581					Service Charge Cement			175	shk	1.75	306.25
583					Drayage			17350	lbs	347.70	294.95

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**X**

DATE SIGNED 8-31-18 TIME SIGNED 1030  
 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?		AGREE	UNDECIDED	DISAGREE
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				

ARE YOU SATISFIED WITH OUR SERVICE?  
 YES  NO

PAGE TOTAL 4511.95  
 TOTAL 4496.39

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

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2255  
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2295  
2300

199-368-5800

NEEDS CITY KE 03800

P.O. BOX 408

SWIFT SERVICES, INC

REMIT PAYMENT TO:

Dr. [unclear]  
Private [unclear] Company

For Collin Terrell  
D. [unclear]  
Private [unclear] Company  
Private [unclear] Company  
15K n 113

2205  
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Assessing [unclear]

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184 119

1211 42

13300  
2415 122 241 152 308 52

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1991031003

JOB LOG

SWIFT Services, Inc.

DATE 8-31-18 PAGE NO. 1  
TICKET NO. # 31767

CUSTOMER American Whopper

WELL NO. #1-3

LEASE Ruff

JOB TYPE Port Collar

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							on location 2 3/8" x 5 1/2"
								P.C. - 1428
	0925	∅	∅		✓	1000		Pressure Test
	0930	∅	∅		✓	∅		Open P.C.
	0935	3	4		✓	350		Injection Rate
	0940	4	70		✓	250		mix 125 sks SMD 1/4" Flo @ 11.2 ppq circulate Cement to surface *20 sks*
	1000	4	5		✓	500		Displace Cement
		∅	∅		✓	1000		Close P.C. Test *Hold*
								Run 4 Jts
	1010	3 1/2	25		✓	300		Reverse Clean
								wash up truck
								*125 sks SMD 1/4" Flo total* *20 sks to Pit*
	1045							Job Complete

Thank You  
Dave Prosten Gideon



# SWIFT Services Inc.

8-31-18

31717

Post Office

B. 17

1-8

Account Number

0900

on location

31717

PC - H28

ICD Program Test

PC

0900

max 125 etc 2100 H. A. 11.2 11.2 11.2  
circulate count to surface + 30000

Display Count

Class P.C. Test \*Hold \*

Run H 210

300 Review Screen

Work up truck

\*125 etc 2100 H. A. 11.2 11.2 11.2

Dot Graphs

Due Protein Screen  
Thank You



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc  
 P.O. Box 399  
 3118 Cummings Rd  
 Garden City KS. 67846  
 ATTN: Kevin Timson

**3-23s-23w Hodgeman Co**

**Ruff 1-3**

Job Ticket: 57895

**DST#: 1**

Test Start: 2018.08.20 @ 03:17:36

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:24:36

Time Test Ended: 11:02:51

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

**Interval: 4485.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Total Depth: 4565.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2283.00 ft (KB)

2272.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8931**

**Inside**

Press@RunDepth: 53.86 psig @ 4486.00 ft (KB)

Start Date: 2018.08.20

End Date:

2018.08.20

Start Time: 03:17:41

End Time:

11:02:50

Capacity: 8000.00 psig

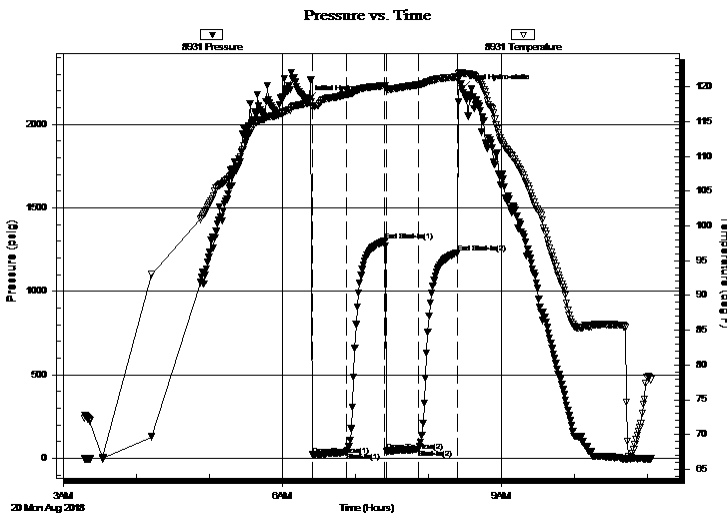
Last Calib.: 2018.08.20

Time On Btm: 2018.08.20 @ 06:21:36

Time Off Btm: 2018.08.20 @ 08:27:36

**TEST COMMENT:** IF: Weak Blow . Built to 2 1/2".  
 IS: No Blow .  
 FF: Weak Blow . Built to 2 3/4".  
 FS: No Blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.98	117.68	Initial Hydro-static
3	21.62	117.09	Open To Flow (1)
32	36.28	118.87	Shut-In(1)
63	1300.74	120.18	End Shut-In(1)
64	43.82	119.70	Open To Flow (2)
90	53.86	120.25	Shut-In(2)
123	1232.27	121.40	End Shut-In(2)
126	2212.87	122.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCGO 10% m 10% g 80%o	0.30
30.00	MCGO 25% m 35% o 40% g	0.15
0.00	90 Ft G.I.P.	0.00

## 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: Kevin Timson

**3-23s-23w Hodgeman Co**

**Ruff 1-3**

Job Ticket: 57895 **DST#: 1**

Test Start: 2018.08.20 @ 03:17:36

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:24:36

Time Test Ended: 11:02:51

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

**Interval: 4485.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Reference Elevations: 2283.00 ft (KB)

Total Depth: 4565.00 ft (KB) (TVD)

2272.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

## Serial #: 8792

Press@RunDepth:                      psig @                      ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.20 End Date: 2018.08.20

Last Calib.: 2018.08.20

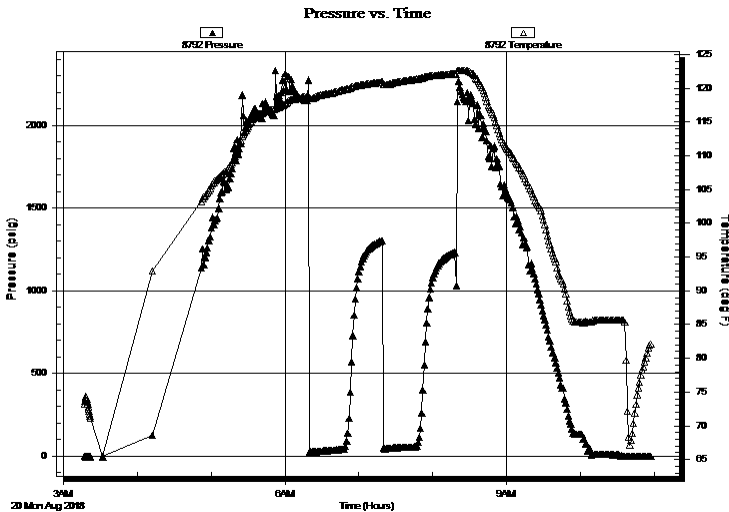
Start Time: 03:17:07 End Time: 10:57:46

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Weak Blow . Built to 2 1/2".  
 IS: No Blow .  
 FF: Weak Blow . Built to 2 3/4".  
 FS: No Blow .

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MGO 10% m 10% g 80%o	0.30
30.00	MGO 25% m 35% o 40% g	0.15
0.00	90 Ft G.I.P.	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**3-23s-23w Hodgeman Co**

P.O. Box 399  
3118 Cummings Rd  
Garden City KS. 67846  
ATTN: Kevin Timson

**Ruff 1-3**

Job Ticket: 57895

**DST#: 1**

Test Start: 2018.08.20 @ 03:17:36

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 10.39 in<sup>3</sup>

Resistivity: 3.00 ohm.m

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 5500 ppm

deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MGO 10% m 10% g 80%o	0.295
30.00	MGO 25% m 35% o 40% g	0.148
0.00	90 Ft G.I.P.	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

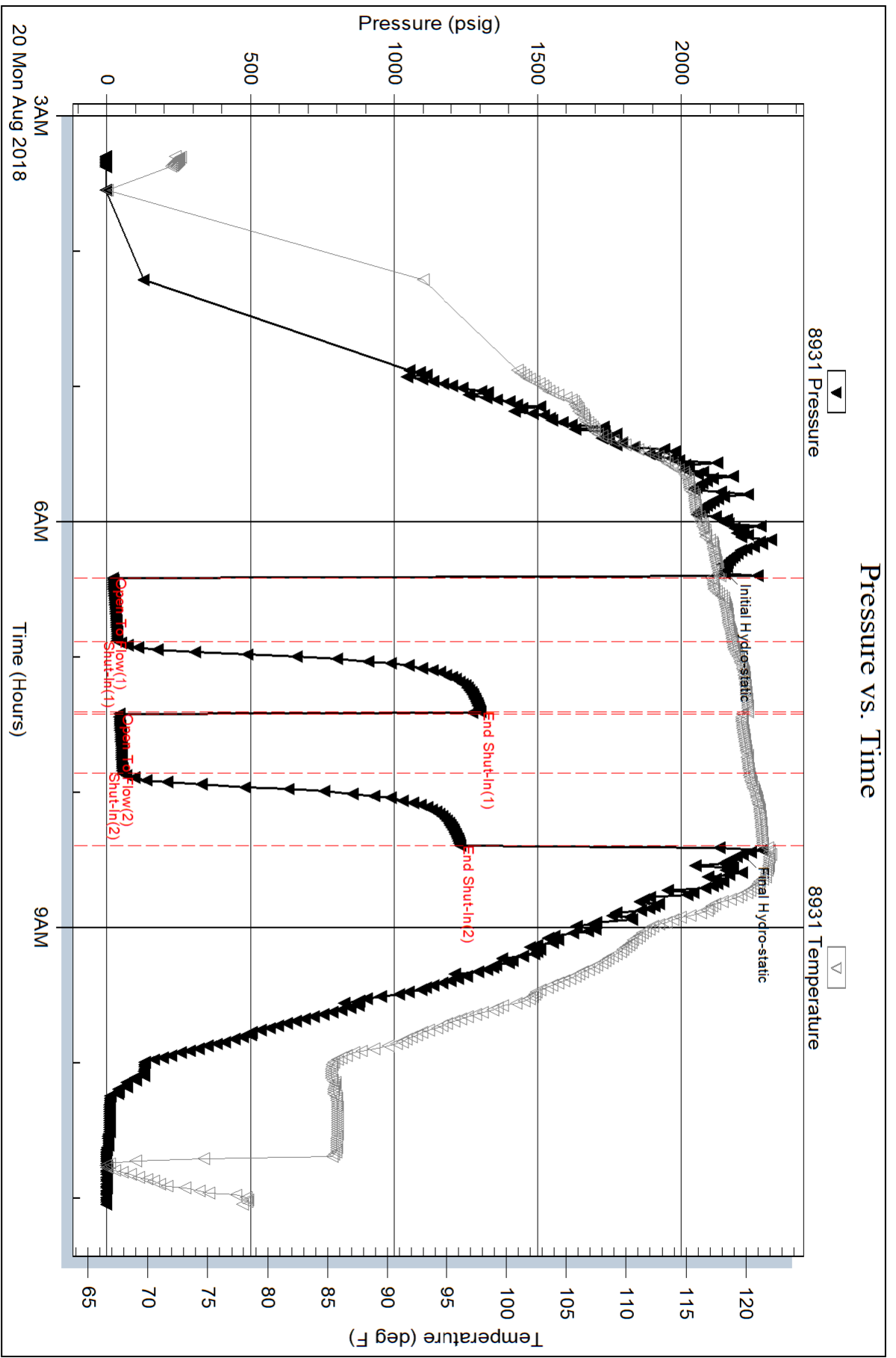
Num Gas Bombs: 0

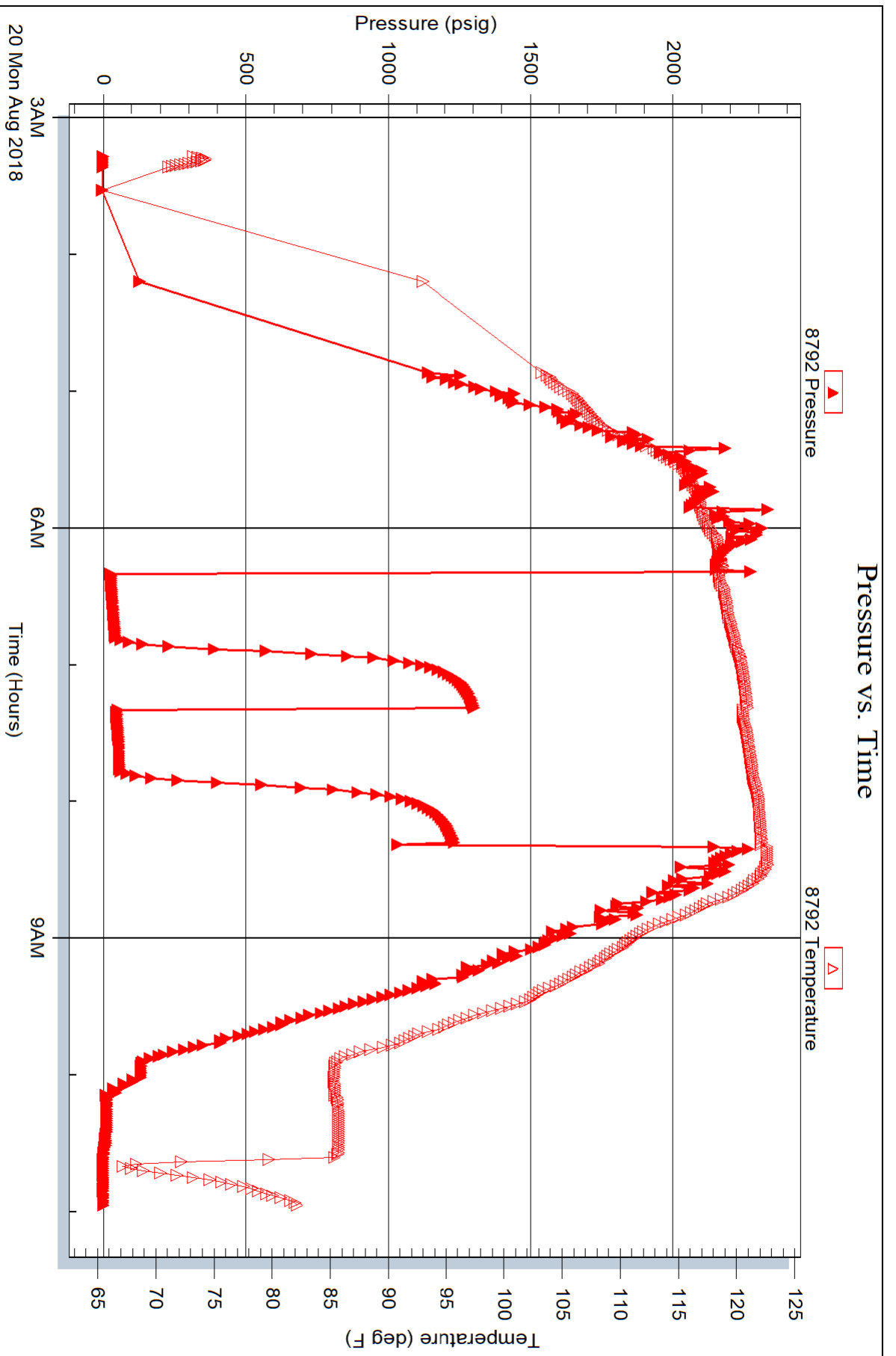
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Kevin Timson

### **Ruff #1-3**

#### **3-23s-23w Hodgeman,KS**

Start Date: 2018.08.20 @ 03:17:36

End Date: 2018.08.20 @ 11:02:51

Job Ticket #: 57895                      DST #: 1

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

Printed: 2018.08.21 @ 14:18:01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Kevin Timson

**3-23s-23w Hodgeman, KS**  
**Ruff #1-3**  
 Job Ticket: 57895      **DST#: 1**  
 Test Start: 2018.08.20 @ 03:17:36

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No    Whipstock:                      ft (KB)  
 Time Tool Opened: 06:24:36  
 Time Test Ended: 11:02:51  
 Interval: **4485.00 ft (KB) To 4565.00 ft (KB) (TVD)**  
 Total Depth: 4565.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches    Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 2283.00 ft (KB)  
 2272.00 ft (CF)  
 KB to GR/CF: 11.00 ft

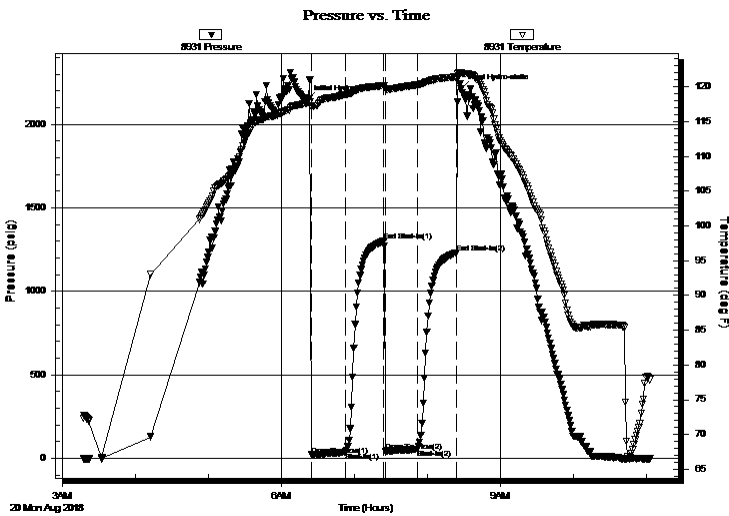
## Serial #: 8931

Inside

Press@RunDepth: 53.86 psig @ 4486.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2018.08.20      End Date: 2018.08.20      Last Calib.: 2018.08.20  
 Start Time: 03:17:41      End Time: 11:02:50      Time On Btm: 2018.08.20 @ 06:21:36  
 Time Off Btm: 2018.08.20 @ 08:27:36

TEST COMMENT: IF: Weak Blow . Built to 2 1/2"  
 IS: No Blow .  
 FF: Weak Blow . Built to 2 3/4"  
 FS: No Blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.98	117.68	Initial Hydro-static
3	21.62	117.09	Open To Flow (1)
32	36.28	118.87	Shut-In(1)
63	1300.74	120.18	End Shut-In(1)
64	43.82	119.70	Open To Flow (2)
90	53.86	120.25	Shut-In(2)
123	1232.27	121.40	End Shut-In(2)
126	2212.87	122.06	Final Hydro-static

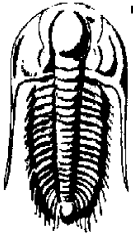
## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCGO 10% m 10% g 80%o	0.30
30.00	MCGO 25% m 35% o 40% g	0.15
0.00	90 Ft G.I.P.	0.00

## 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: Kevin Timson

**3-23s-23w Hodgeman,KS****Ruff #1-3**

Job Ticket: 57895

**DST#: 1**

Test Start: 2018.08.20 @ 03:17:36

**GENERAL INFORMATION:**Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:24:36

Time Test Ended: 11:02:51

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

**Interval: 4485.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Reference Elevations: 2283.00 ft (KB)

Total Depth: 4565.00 ft (KB) (TVD)

2272.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8792 Outside**

Press@RunDepth: psig @ 4486.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.20 End Date: 2018.08.20

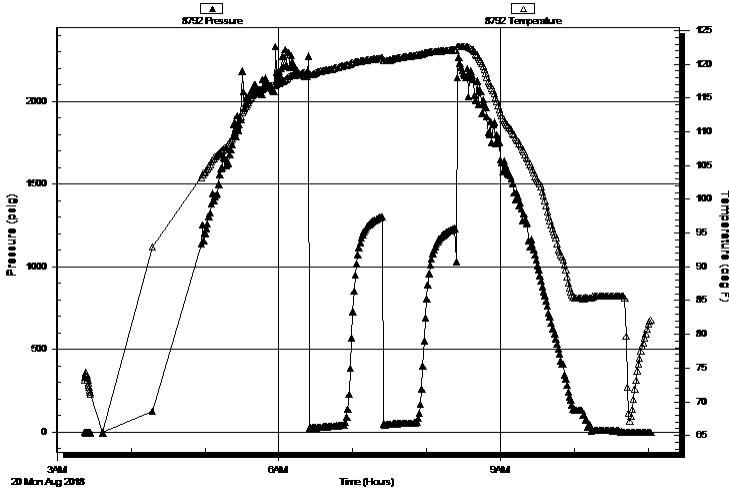
Last Calib.: 2018.08.20

Start Time: 03:22:11 End Time: 11:02:50

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Weak Blow . Built to 2 1/2"  
 IS: No Blow .  
 FF: Weak Blow . Built to 2 3/4"  
 FS: No Blow .

**Pressure vs. Time****PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	MGO 10% m 10% g 80%o	0.30
30.00	MGO 25% m 35% o 40% g	0.15
0.00	90 Ft G.I.P.	0.00

**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: Kevin Timson

**3-23s-23w Hodgeman,KS**  
**Ruff #1-3**  
 Job Ticket: 57895      **DST#: 1**  
 Test Start: 2018.08.20 @ 03:17:36

**Tool Information**

Drill Pipe:	Length: 4247.00 ft	Diameter: 3.80 inches	Volume: 59.57 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4485.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	2	Diameter: inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4458.00	
Shut In Tool	5.00			4463.00	
Hydraulic tool	5.00			4468.00	
Jars	5.00			4473.00	
Safety Joint	3.00			4476.00	
Packer	4.00			4480.00	28.00      Bottom Of Top Packer
Packer	5.00			4485.00	
Stubb	1.00			4486.00	
Recorder	0.00	8931	Inside	4486.00	
Recorder	0.00	8792	Outside	4486.00	
Perforations	2.00			4488.00	
Change Over Sub	1.00			4489.00	
Blank Spacing	63.00			4552.00	
Change Over Sub	1.00			4553.00	
Perforations	9.00			4562.00	
Bullnose	3.00			4565.00	80.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>108.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
ATTN: Kevin Timson

**3-23s-23w Hodgeman,KS**  
**Ruff #1-3**  
Job Ticket: 57895      **DST#: 1**  
Test Start: 2018.08.20 @ 03:17:36

## 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:	5500 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 3.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: 0.20 inches			

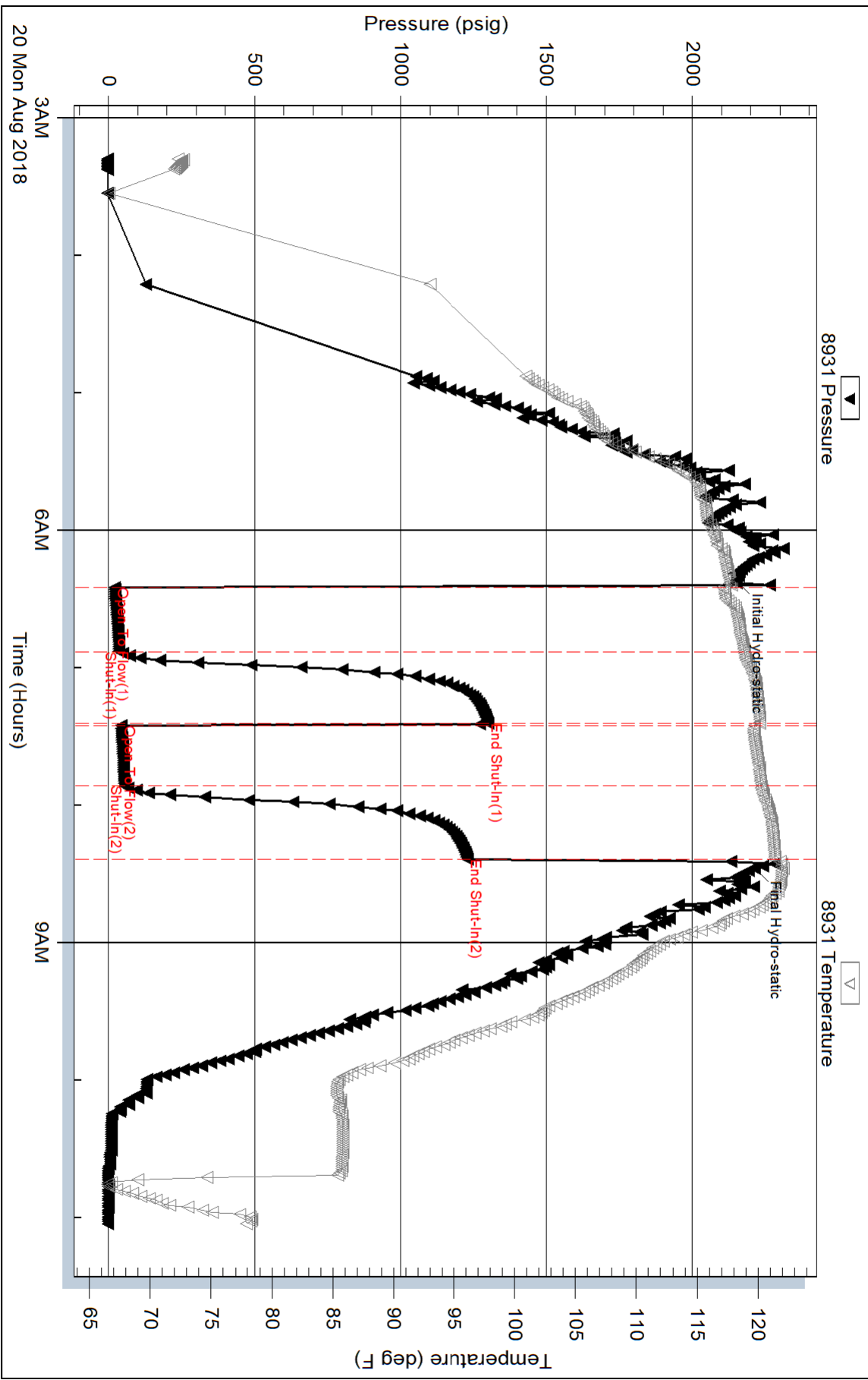
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MGO 10% m 10% g 80%o	0.295
30.00	MGO 25% m 35% o 40% g	0.148
0.00	90 Ft G.I.P.	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time

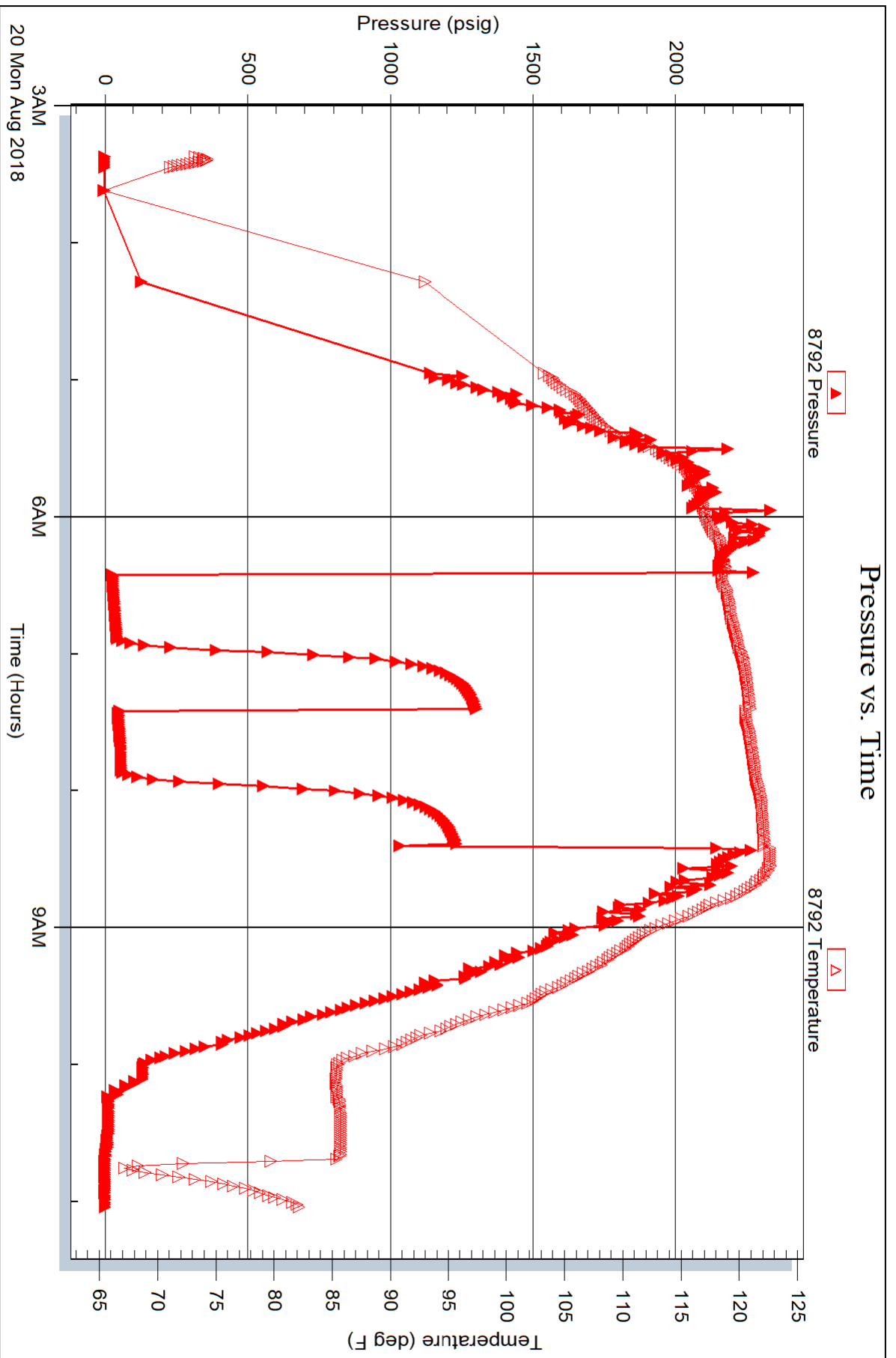


Serial #: 8792

Outside American Warrior Inc

Ruff #1-3

DST Test Number: 1





Well Name & No. Pass # 1-3 Test No. 1 Date 8-20-18  
 Company American Wapora Elevation 2283 KB 2272 GL  
 Address P.O. Box 399, 3118 Cummings RD Garden City, Ks. 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke Rig # 5  
 Location: Sec. 3 Twp. 23S Rge. 23W Co. Hodgeman State KS.

Interval Tested 4485 - 4565 Zone Tested Mississippi  
 Anchor Length 80 Drill Pipe Run 4247 Mud Wt. 9.45  
 Top Packer Depth 4480 Drill Collars Run 240 Vis 55  
 Bottom Packer Depth 4485 Wt. Pipe Run 0 WL 10.4  
 Total Depth 4565 Chlorides 5,500 ppm System LCM 3#

Blow Description IF: Weak blow. Built to 2 1/2".

~~DST~~: No blow.

FF: Weak blow. Built to 2 3/4".

FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
90	G.I.P.	100			
30	MGC Oil	40	35		25
60	MGC Oil	10	80		10

Rec Total 90' BHT 117° Gravity N/A API RW N/A @ N/A °F Chlorides 5,500 ppm

- (A) Initial Hydrostatic 2150
- (B) First Initial Flow 22
- (C) First Final Flow 36
- (D) Initial Shut-In 1301
- (E) Second Initial Flow 44
- (F) Second Final Flow 54
- (G) Final Shut-In 1232
- (H) Final Hydrostatic 2213

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 164 130rt
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

- T-On Location 0232
- T-Started 0317
- T-Open 0624
- T-Pulled 0823
- T-Out 1057

- Comments \_\_\_\_\_
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1605
- MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Initial Flow 30  
 Initial Shut-In 30

Sub Total 1605

Moved By \_\_\_\_\_

Our Representative [Signature]

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 the test, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# **Geological Report**

**American Warrior, Inc.**

**Ruff #1-3**

**504' FSL & 2280' FEL**

**Sec. 3, T23s, R23w**

**Hodgeman County, Kansas**



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Ruff #1-3  
504' FSL & 2280' FEL  
Sec. 3, T23s, R23w  
Hodgeman County, Kansas  
API # 15-083-21956-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: August 13, 2018

Completion Date: August 21, 2018

Elevation 2272' G.L.  
2283' K.B.

Directions: From the south side of Jetmore, KS. Go East .7 miles on L Rd. Go 1 miles South on 219 Rd. Go 2.5 miles East on K Rd. North into.

Casing: 284' 8 5/8" #24 Surface Casing  
4648' 5 1/2" #15.5 Production Casing

Samples: 4300' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "J. Henrickson"  
Stack-Micro

Drillstem Tests: One-Trilobite Testing "Matt Smith"

Problems: None



**Formation Tops**  
**Ruff #1-3**  
**Sec. 3, T23s, R23w**  
**504' FSL & 2280' FEL**

<b>Anhydrite</b>	<b>1454' +829</b>
<b>Base</b>	<b>1492' +791</b>
<b>Heebner</b>	<b>3841' -1558</b>
<b>Lansing</b>	<b>3904' -1621</b>
<b>Stark</b>	<b>4210' -1927</b>
<b>Bkc</b>	<b>4276' -1993</b>
<b>Marmaton</b>	<b>4300' -2017</b>
<b>Pawnee</b>	<b>4390' -2107</b>
<b>Fort Scott</b>	<b>4441' -2158</b>
<b>Cherokee</b>	<b>4466' -2183</b>
<b>Basal Penn Cong</b>	<b>4510' -2227</b>
<b>Miss Warsaw</b>	<b>4533' -2250</b>
<b>RTD</b>	<b>4651' -2368</b>
<b>LTD</b>	<b>4650' -2367</b>

**Sample Zone Descriptions**

**Miss Warsaw (4570',-2241): Covered in DST #1**

Dolomite Gray. Sub crystalline. Fair vuggy porosity. Fair to good stain. Fair saturation. Fair to good show of free oil. Poor to Fair odor. 15 unit gas kick.

**Drill Stem Tests**  
**Trilobite Testing**  
 “Matt Smith”

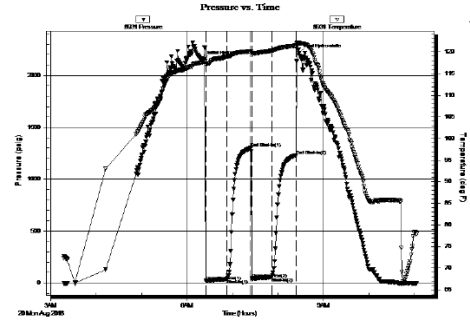
**DST #1**

**Miss Warsaw**

Interval (4485’ – 4565’) Anchor 80’

- IHP - 2150 #
- IFP - 30” – 2 1/2" blow                      22-36 #
- ISI - 30” – No return                          1301 #
- FFP - 30” – 2 3/4" blow                      44-54 #
- FSIP - 30" - No return                        1232 #
- FHP - 2213 #
- BHT - 117° F

- Recovery:    90' GIP  
                   30' MCGO    (40% G, 35% O, 25% M)  
                   60' MCGO    (10% G, 80% O, 10% M)



**Structural Comparison**

Formation	American Warrior, Inc Ruff #1-3 Sec 3, T23s, R23w 504' FSL & 2280' FEL		American Warrior Inc Hubin #1-10 Sec 10, T23s, R23w 1394' FSL & 2240' FWL		Solar Petroleum Shirley Wasko #1 Sec 3, T23s, R23w 1650' FSL & 2310' FEL
Heebner	3841' -1558	-25	3888' -1533	+12	3818' -1570
Lansing	3904' -1621	-24	3952' -1597	+11	3880' -1632
Stark	4210' -1927	-24	4260' -1903	+11	4186' -1938
BKc	4276' -1993	-16	4332' -1977	+9	4250' -2002
Marmaton	4300' -2017	-15	4357' -2002	+8	4273' -2025
Pawnee	4390' -2107	-19	4443' -2088	+14	4369' -2121
Fort Scott	4441' -2158	-20	4493' -2138	+15	4421' -2173
Cherokee	4466' -2183	-21	4517' -2162	+14	4445' -2197
BPC	4510' -2227	-27	4555' -2200	+15	4490' -2242
Miss War.	4533' -2250	-28	4577' -2222	+20	4518' -2270

## Summary

The location for the Ruff #1-3 well was found via 3-D seismic survey. The new well ran structurally as expected. One drill stem test was conducted, which recovered commercial amounts of oil from the Miss Warsaw formation. After all the gathered data had been examined, the decision was made to run 5 1/2" casing to further evaluate the Ruff #1-3 well.

### Recommended Perforations

**Primary**                      **Warsaw**                      **(4564' to 4568')**

**Secondary:**                      **Warsaw**                      **(4539' to 4549')**

**Before Abandonment**                      **Warsaw**                      **(4574' to 4578')**

Respectfully Submitted,

Kevin Timson  
American Warrior, Inc.