

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
--	---

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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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	KT 1-25
Doc ID	1381525

Tops

Name	Top	Datum
Anhydrite	1376	813
Heebner	3682	-1493
Lansing	3728	-1539
BKC	4044	-1855
Pawnee	4164	-1975
Ft. Scott	4235	-2046
Cherokee	4260	-2071
Mississippian	4305	-2116
RTD	4336	-2147

Geological Report

KT #1-25

1800' FNL & 1200' FEL

Sec. 25 T20s R22w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
KT #1-25
1800' FNL & 1200' FEL
Sec. 25 T20s R22w
Ness County, Kansas
API # 15-125-25978-0000

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

Geologist: Jason T Alm

Spud Date: November 10, 2017

Completion Date: November 17, 2017

Elevation: 2181' Ground Level
2189' Kelly Bushing

Directions: Bazine KS, South 11 mi. to 20 Rd. West ¼ mi.
South into location.

Casing: 213' 8 5/8" surface casing
4336' 5 1/2" production casing

Samples: 10' wet and dry, 3650' to RTD

Drilling Time: 3650' to RTD

Electric Logs: Pioneer Energy Services "J. Hendrickson"
CNL/CDL, DIL

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

Problems: None

Remarks: There was 3 ft. of fill in the hole during log. LTD
was 3 ft. shallow of RTD.

Formation Tops

	American Warrior, Inc. KT #1-25 Sec. 25 T20s R22w 1800' FNL & 1200' FEL
Formation	
Anhydrite	1376' +813
Base	1409' +780
Heebner	3682' -1493
Lansing	3728' -1539
BKC	4044' -1855
Pawnee	4164' -1975
Fort Scott	4235' -2046
Cherokee	4260' -2071
Mississippian	4305' -2116
Osage	4326' -2137
LTD	4333' -2144
RTD	4336' -2147

Sample Zone Descriptions

- Fort Scott (4235', -2046): Covered in DST #1**
 Ls – Fine crystalline with poor to scattered fair inter-crystalline and vuggy porosity, light to fair oil stain and saturation in porosity, fair show of free oil, fair odor, bright yellow fluorescents, 45 units hotwire.
- Mississippian Osage (4326', -2137): Covered in DST #2**
 Δ – Angular, mostly fresh, few pieces with scattered poor to fair vuggy porosity, light to good oil stain in porosity, fair show of free oil on cup, good odor, scattered bright yellow fluorescents, 55 units hotwire.

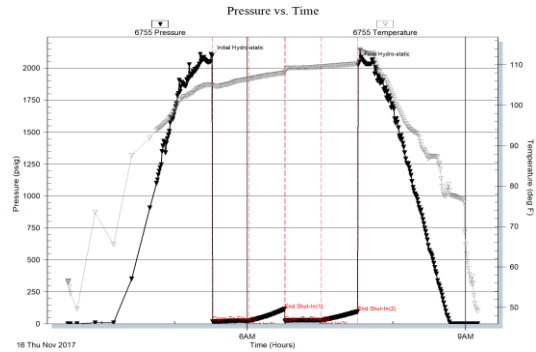
Drill Stem Tests
 Trilobite Testing, Inc.
 “Ken Swinney”

DST #1 Fort Scott

Interval (4210' – 4268') Anchor Length 58'

IHP	– 2097 #	
IFP	– 30” – Built to 1 in.	17-25 #
ISI	– 30” – Dead	115 #
FFP	– 30” – Built to 3 in.	18-29 #
FSI	– 30” – Dead	96 #
FHP	– 2047 #	
BHT	– 113°F	

Recovery: 30' Mud with oil spots

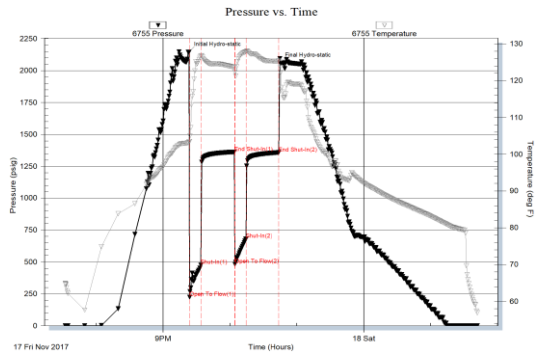


DST #2 Mississippian Osage

Interval (4281' – 4336') Anchor Length 55'

IHP	– 2145 #	
IFP	– 10” – B.O.B. 1 ½ min.	225-476 #
ISI	– 30” – Dead	1363 #
FFP	– 30” – B.O.B. 2 min.	483-681 #
FSI	– 30” – Dead	1359 #
FHP	– 2059 #	
BHT	– 127°F	

Recovery: 124' GIP 85% Oil
 248' GCMO 70% Oil, 10% Water
 868' MWCGO 10% Oil, 75% Water
 186' OCMW 10% Oil, 5% Water
 124' WCOM



Structural Comparison

Formation	American Warrior, Inc. KT #1-25 Sec. 25 T20s R22w 1800' FNL & 1200' FEL	Natural Gas & Oil Cook #1 Sec. 25 T20s R22w C NE NE		Thunderbird DRLG Bondurant D #1 Sec. 30 T20s R21w C SW NW	
Anhydrite	1376' +813	1400' +795	(+18)	1413' +819	(-6)
Base	1409' +780	NA	NA	1446' +786	(-6)
Heebner	3682' -1493	3698' -1503	(+10)	3723' -1491	(-2)
Lansing	3728' -1539	3745' -1550	(+11)	3774' -1542	(-3)
BKC	4044' -1855	4065' -1870	(+15)	4088' -1856	(+1)
Pawnee	4164' -1975	4188' -1993	(+18)	4215' -1983	(+8)
Fort Scott	4235' -2046	4259' -2064	(+18)	4281' -2049	(+3)
Cherokee	4260' -2071	4283' -2088	(+17)	4306' -2074	(+3)
Mississippian	4305' -2116	4326' -2131	(+15)	4358' -2126	(+10)
Osage	4326' -2137	4352' -2157	(+20)	4378' -2146	(+9)

Summary

The location for the KT #1-25 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 Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the KT #1-25 well.

Recommended Perforations

Primary:

Mississippian Osage (4328' – 4332') DST #2

Before Abandonment:

Fort Scott (4247' – 4252') DST #1

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



Geologic Report

Drilling Time and Sample Log

Operator **American Warrior, Inc.**

Lease **KT** No. **1-25**

API # **15-135-25978-0000**

Field **Wildcat**

Location **1800' FNL & 1200' FEL**

Sec. **25** Twp. **20s** Rge. **22w**

County **Ness** State **Kansas**

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite Base	1376' +813	1376' +813	+18
Heebner	3682' -1493	3684' -1495	+10
Lansing	3728' -1539	3732' -1543	+11
BKC	4044' -1855	4050' -1861	+15
Pawnee	4164' -1975	4169' -1980	+18
Fort Scott	4235' -2046	4237' -2048	+18
Cherokee	4260' -2071	4263' -2074	+17
Mississippian	4305' -2116	4307' -2118	+15
Osage	4326' -2137	4325' -2136	+20
Total Depth	4333' -2144	4336' -2147	

Reference Well For Structural Comparison **Natural Gas & Oil Co. Cook #1**
C NE Sec. 25 T20s R22w Ness County, Kansas

Drilling Contractor	Discovery Drilling Co., Inc.	Rig #4
Commenced	11-10-2017	Completed 11-17-2017
Samples Saved From	3650'	To RTD
Drilling Time Kept From	3650'	To RTD
Samples Examined From	3650'	To RTD
Geological Supervision From	3650'	To RTD

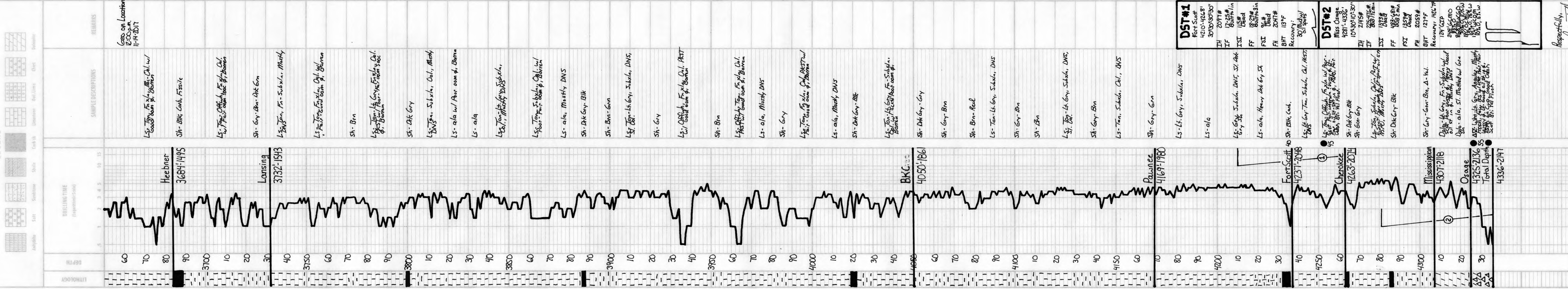
Displacement 3500' Mud Type Chemical

Summary and Recommendations

The location for the KT #1-25 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 Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the KT #1-25 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.





TICKET 001056

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

PAGE 1 OF 2

SERVICE LOCATIONS: 1. Address Co., KS
 WELL/PROJECT NO. #1-25
 LEASE RT
 COUNTY/PARISH Ness
 STATE KS
 CITY Bazine
 DATE 11-17-17
 OWNER S...
 ORDER NO.
 TICKET TYPE SERVICE SALES
 CONTRACTOR Dist...
 RIG NAME/NO. #4
 SHIPPED VIA CT
 DELIVERED TO Location
 WELL PERMIT NO.
 WELL TYPE O1
 WELL CATEGORY Development
 JOB PURPOSE General SW' Leasing
 WELL LOCATION Bazine, 11.5 Mi. N. of S...
 REFERRAL LOCATION INVOICE INSTRUCTIONS

WELL REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		UM	UM	UM		
575					MILEAGE			25	1.00	25.00
578					Trk # 112			1	1250.00	1250.00
402					Pump Change - Leasing			5	60.00	300.00
403					Centralizer			2	250.00	500.00
404					General Backstop			1	2500.00	2500.00
406					Port Collar			1	225.00	225.00
407					Leak Down Plug + Backstop			1	300.00	300.00
					Insert Steel Shoe w/ Aids G11			1	300.00	300.00

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 11-17-17
 TIME SIGNED 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? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND YES NO

PAGE TOTAL #1 5200.00
 #2 5147.25
 TAX
 TOTAL

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



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

TICKET CONTINUATION

TICKET No. 8 31056

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	WELL		DATE	UNIT PRICE	AMOUNT
							QTY	U/M			
375						Standard Cement (EA-3)	1		11-17-17	12.25	2143.75
284						Celcon	5	%		30.00	240.00
283						Self	110	%		60.20	180.00
292						Hand - 322	34	%		8.00	1200.00
276						Flood	1/4	lb		2.25	112.50
270						D-Ac	2	gal		42.00	84.00
221						Legend KCL	2	gal		25.00	50.00
281						Mud Flush	500	gal		1.25	625.00
582						Minimum Daycare Charge				250.00	250.00
581						Service Charge				1.00	262.50
						MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	CUBIC FEET	TON MILES	

CONTINUATION TOTAL 5147.25

JOB LOG

SWIFT Services, Inc.

DATE 11-17-17 PAGE NO. 1
TICKET NO. # 31056

CUSTOMER American Warrior WELL NO. # 1-25 LEASE KT JOB TYPE S/S Longstring

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							on location 5 1/2" x 15.5"
								RTD - 4336' LTD - 4333' TP - 4339' SJ - #1 42.44 P.C. - #70 136' out #103 #104 Cant - #1 #2 #3 #4 #69 Basket - #5 #70
	1400							Rig running 5 1/2" 15.5" casing
	1540							Drop Ball circulate
	1620	6 1/2	12			300		Pump 500 gal Mud Flush
		6 1/2	20			300		Pump 20 Hbl KCL Flush
			7.5					Plug RH - MH (30-20)
	1635	4 1/2	30			200		mix 125 sks EA-2 @ 15.5 ppg
								wash out Pump + Lines Release Latch Down Plug
	1645		∅		✓	∅		Start Displacement
			83		✓	300		Lift Pressure
			101		✓	800		Max Lift Pressure
	1700		102.2		✓	1500	800	Land Latch Down Plug
								Release Pressure Hold
								wash up trucks
	1730							Job Complete

Thank You
Dave Preston Kirby



TICKET 30601

CHARGE TO: Amesbury Woodstock for
 ADDRESS:
 CITY, STATE, ZIP CODE:

PAGE 1 OF 1

SERVICE LOCATIONS:
 1. Ness, Kan, Ks
 2. 1-25 WELL/PROJECT NO. K.T. LEASE
 3. H.N. CONTRACTOR Ness RIG NAME/NO. Ness STATE Ks CITY Lawrence DATE 12-1-17 OWNER CSMS
 4. On WELL TYPE Production WELL CATEGORY Production JOB PURPOSE Consist Port Collar SHIPPED VIA Truck DELIVERED TO Lawrence ORDER NO.
 INVOICE INSTRUCTIONS

LINE	QUANTITY	UNIT	PRICE	AMOUNT	DESCRIPTION	ACCOUNTING		
						LOC	ACCT	DF
575	1	MILEAGE	\$114					
576b	1	PORT COLLAR	1250.00	1250.00	PORT COLLAR			
105	1	PORT COLLAR TOOL	275.00	275.00	PORT COLLAR TOOL			
330	1	SIGHT MOUNT	15.75	2756.25	SIGHT MOUNT - BRASSY STAINLESS			
27b	1	FLOCS	2.75	112.50	FLOCS			
29D	1	A-ARR	42.00	84.00	A-ARR			
581	1	SPURGE COLLAR	1.50	262.50	SPURGE COLLAR CONCRETE			
582	1	MEDIUM NUTS	250.00	250.00	MEDIUM NUTS COLLAR			

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 DATE SIGNED: 12-1-17 TIME SIGNED: 0900
 X SW A.M. P.M.

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 5115.25
 TAX: 65.10
 TOTAL: 5305.05

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

JOB LOG

SWIFT Services, Inc.

DATE 12-1-17	PAGE NO. 1
TICKET NO. 30801	

CUSTOMER American Warrick Co	WELL NO. 1-25	LEASE K.T.	JOB TYPE CEMENT PORT COLLAR
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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 PORT COLLAR = 1363'
	0915				✓		1000	PSI TEST CASING - HELD
	0920	3	3	✓		300		OPEN PORT COLLAR - INT RATE
	0925	3 1/2	97	✓		300		MIX CEMENT - 175 SWS SMD = 11.2 PPG
	1000	3 1/2	4 1/2	✓		450		DISPLACE CEMENT
	1010				✓		1000	CLOSE PORT COLLAR - PSI TEST - HELD CIRCULATE 15 SWS CEMENT TO PT
	1025	4	20		✓		400	RUN SWS - CIRCULATE CLEAN WASH TRUCK
	1100							JOB COMPLETE
								THANK YOU WAYNE, FLINT, KERRY SHANE



CHARGE TO: American Water
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

INVOICE 001028
 PAGE 1 OF 1

SWIFT OPERATIONS: Leas City, KS
 WELL/PROJECT NO: 1-25 LEASE: K T COUNTY/PARISH: Neos STATE: KS CITY: Bazine DATE: 12 NOV 17 OWNER: _____
 TICKET TYPE: SERVICE SALES CONTRACTOR: _____ RIG NAME/NO.: 4 SHIPPED: YES DELIVERED TO: Location ORDER NO.: _____
 WELL TYPE: 0.1 WELL CATEGORY: Development JOB PURPOSE: cement surface pipes WELL PERMIT NO.: _____ WELL LOCATION: 75-20-22
 REFERRAL LOCATION: _____ INVOICE INSTRUCTIONS: _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT OF	DESCRIPTION	QTY			UNIT PRICE			AMOUNT
					QTY	UM		QTY	UM		
675				MILEAGE TRK 110	20	M		5.00		100.00	
5765				Pump Charge - shallow surface	1	hr		800.00		800.00	
325				Standard cement	182	sk		12.25		1837.50	
279				Benomite gel	3	sk		2.00		75.00	
276				Celestium chloride	7	sk		49.00		280.00	
290				D-rain	2	gal		42.00		84.00	
581				Service charge	150	hr		1.50		225.00	
582				Drayage (hr x)	100	hr		2.50		250.00	

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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: _____

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

SWIFT OPERATOR: _____ APPROVAL: _____

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

SURVEY: ONE EQUIPMENT REPERFORATED W/REPAIR BRICKWORK YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY YES NO
 ARE YOU SATISFIED WITH OUR SERVICES YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 3659.00
 TOTAL: 3709.47

Thank You!

SWIFT Services, Inc.

JOB LOG

DATE
10 NOV 17

CUSTOMER

American NATTIDE

WELL NO.

1-25

LEASE

KT

JOB TYPE

cement surface pipe

TICKET NO.

31028

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								150 SK STANDARD cement 2% gel 3% CC
								8" x 24" casing 5 joint 213'
	1945							on loc TRK 110
	2015							start 8" casing in well
	2055							circulate well
	2107	4	38			100		MIX STD 2% 3% 150' @ 147 BPM
		4	122					Displace w/ H ₂ O
								→ cement to surface ←
	2130							Shot in 8" {40% for p. 7}
	2135							wash truck
								Rack up
	2200							job complete
								Thanks
								Blaise, Flint & 1200 AC



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

KT #1-25

25-20S-22W Ness,KS

Start Date: 2017.11.16 @ 03:32:00

End Date: 2017.11.16 @ 09:10:02

Job Ticket #: 62084 DST #: 1

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

Printed: 2017.11.20 @ 09:58:53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

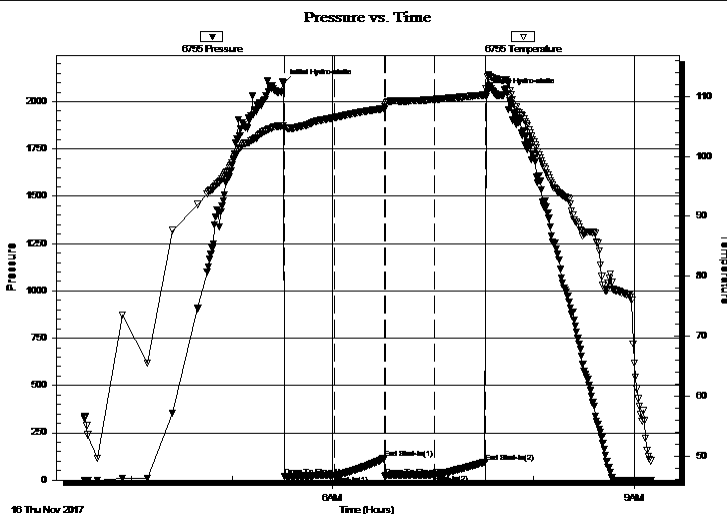
25-20S-22W Ness,KS
KT #1-25
Job Ticket: 62084 **DST#: 1**
Test Start: 2017.11.16 @ 03:32:00

GENERAL INFORMATION:

Formation: **Ft Scott**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 05:31:17 Tester: Ken Swinney
Time Test Ended: 09:10:02 Unit No: 72
Interval: **4210.00 ft (KB) To 4268.00 ft (KB) (TVD)** Reference Elevations: 2189.00 ft (KB)
Total Depth: 4268.00 ft (KB) (TVD) 2181.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6755 Inside
Press@RunDepth: 28.98 psig @ 4263.73 ft (KB) Capacity: psig
Start Date: 2017.11.16 End Date: 2017.11.16 Last Calib.: 2017.11.16
Start Time: 03:32:01 End Time: 09:10:02 Time On Btm: 2017.11.16 @ 05:30:47
Time Off Btm: 2017.11.16 @ 07:32:17

TEST COMMENT: IF 30 Minutes Blow built to 1"
IS 30 Minutes No blow back
FF 30 Minutes Blow built to 3"
FS 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.62	105.12	Initial Hydro-static
1	17.91	104.81	Open To Flow (1)
31	24.86	106.47	Shut-In(1)
61	114.98	108.02	End Shut-In(1)
61	18.08	108.22	Open To Flow (2)
90	28.98	109.50	Shut-In(2)
121	96.43	110.28	End Shut-In(2)
122	2047.31	113.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud with show of oil/ Mud 100%	0.15

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

25-20S-22W Ness,KS
KT #1-25
 Job Ticket: 62084 **DST#: 1**
 Test Start: 2017.11.16 @ 03:32:00

GENERAL INFORMATION:

Formation: **Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:31:17
 Time Test Ended: 09:10:02
 Interval: **4210.00 ft (KB) To 4268.00 ft (KB) (TVD)**
 Total Depth: 4268.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2189.00 ft (KB)
 2181.00 ft (CF)
 KB to GR/CF: 8.00 ft

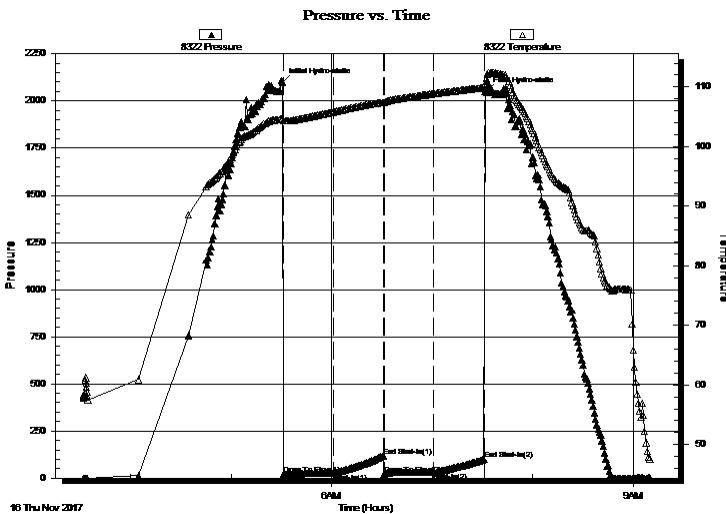
Serial #: 8322

Outside

Press@RunDepth: 100.12 psig @ 4264.73 ft (KB) Capacity: psig
 Start Date: 2017.11.16 End Date: 2017.11.16 Last Calib.: 2017.11.16
 Start Time: 03:32:01 End Time: 09:10:02 Time On Btm: 2017.11.16 @ 05:30:47
 Time Off Btm: 2017.11.16 @ 07:32:17

TEST COMMENT: IF 30 Minutes Blow built to 1"
 IS 30 Minutes No blow back
 FF 30 Minutes Blow built to 3"
 FS 30 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.59	104.64	Initial Hydro-static
1	19.83	104.30	Open To Flow (1)
31	27.66	105.81	Shut-In(1)
60	118.58	107.43	End Shut-In(1)
61	20.09	107.43	Open To Flow (2)
90	32.08	108.86	Shut-In(2)
121	100.12	109.88	End Shut-In(2)
122	2047.21	111.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w ith show of oil/ Mud 100%	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

25-20S-22W Ness,KS

PO Box 399
Garden City, KS 67846

KT #1-25

Job Ticket: 62084

DST#: 1

ATTN: Jason Alm

Test Start: 2017.11.16 @ 03:32:00

Tool Information

Drill Pipe:	Length: 4183.00 ft	Diameter: 3.80 inches	Volume: 58.68 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 58.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4210.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.73 ft			
Tool Length:	85.73 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4187.00	
Hydraulic tool	5.00			4192.00	
Jars	6.00			4198.00	
Safety Joint	2.00			4200.00	
Top Packer	5.00			4205.00	
Packer	5.00			4210.00	28.00 Bottom Of Top Packer
Anchor	19.00			4229.00	
Change Over Sub	1.00			4230.00	
Drill Pipe	31.73			4261.73	
Change Over Sub	1.00			4262.73	
Recorder	1.00	6755	Inside	4263.73	
Recorder	1.00	8322	Outside	4264.73	
Bullnose	3.00			4267.73	57.73 Anchor Tool

Total Tool Length: 85.73



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

25-20S-22W Ness,KS

PO Box 399
Garden City, KS 67846

KT #1-25

Job Ticket: 62084

DST#: 1

ATTN: Jason Alm

Test Start: 2017.11.16 @ 03:32:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud with show of oil/ Mud 100%	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

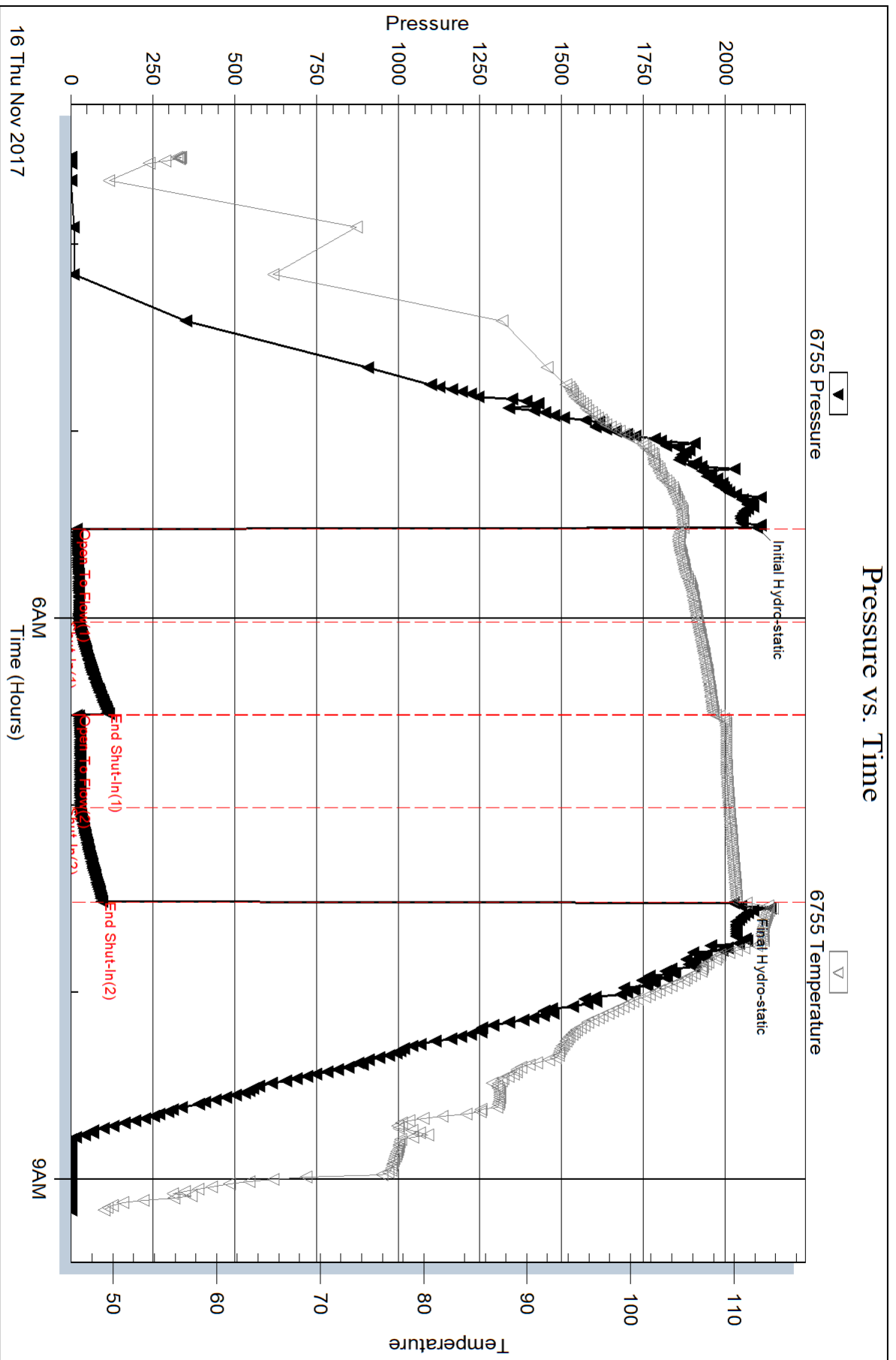
Serial #:

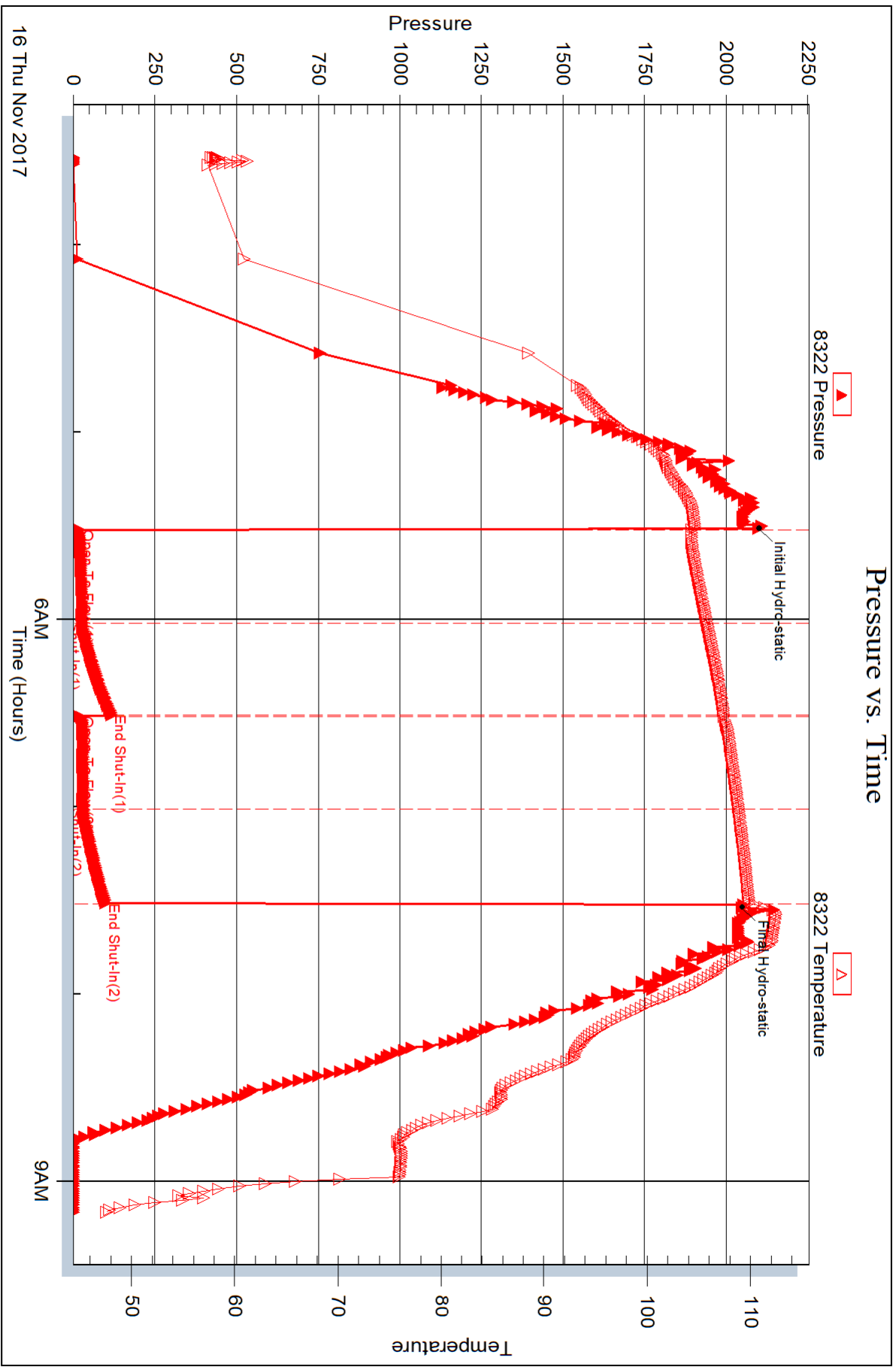
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

KT #1-25

25-20S-22W Ness,KS

Start Date: 2017.11.16 @ 19:32:00

End Date: 2017.11.17 @ 01:42:02

Job Ticket #: 62085 DST #: 2

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

Printed: 2017.11.20 @ 09:58:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

25-20S-22W Ness, KS
KT #1-25
 Job Ticket: 62085 **DST#: 2**
 Test Start: 2017.11.16 @ 19:32:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:23:32
 Time Test Ended: 01:42:02
 Interval: **4281.00 ft (KB) To 4336.00 ft (KB) (TVD)**
 Total Depth: 4336.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2189.00 ft (KB)
 2181.00 ft (CF)
 KB to GR/CF: 8.00 ft

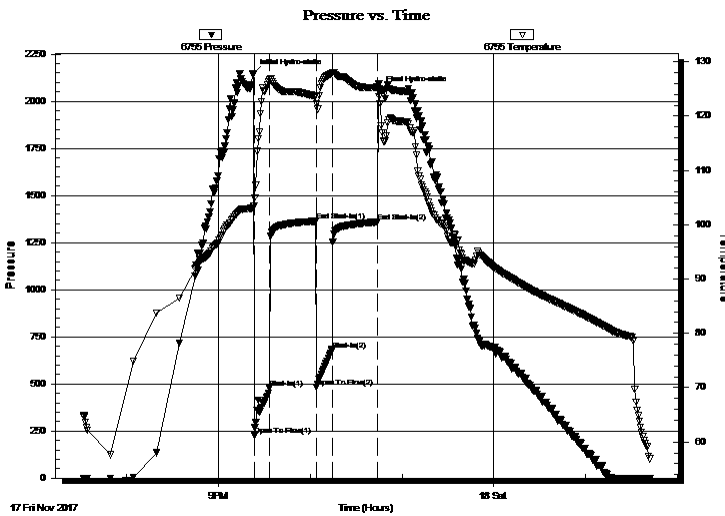
Serial #: 6755

Inside

Press@RunDepth: 681.36 psig @ 4332.71 ft (KB) Capacity: psig
 Start Date: 2017.11.17 End Date: 2017.11.18 Last Calib.: 2017.11.17
 Start Time: 19:32:01 End Time: 01:42:02 Time On Btm: 2017.11.17 @ 21:23:02
 Time Off Btm: 2017.11.17 @ 22:45:02

TEST COMMENT: IF 10 Minutes Blow built to BOB in 1 1/2 minutes
 IS 30 Minutes No blow back
 FF 10 Minutes Blow built to BOB in 2 minutes
 FS 30 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.93	103.51	Initial Hydro-static
1	225.12	103.50	Open To Flow (1)
11	476.36	126.68	Shut-In(1)
41	1362.94	123.59	End Shut-In(1)
42	483.17	122.34	Open To Flow (2)
52	681.36	127.83	Shut-In(2)
81	1359.04	125.32	End Shut-In(2)
82	2058.86	123.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	GMCO Gas 5% Mud 10% Oil 85%	3.21
868.00	GMWCO Mud 5% Water 10% Gas 15%	12.18
186.00	OCMW Oil 10% Mud 15% Water 75%	2.61
124.00	WOCM Water 5% Oil 10% Mud 85%	1.74
0.00	124' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc.

25-20S-22W Ness,KS

PO Box 399
Garden City, KS 67846

KT #1-25

Job Ticket: 62085

DST#: 2

ATTN: Jason Alm

Test Start: 2017.11.16 @ 19:32:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:32

Time Test Ended: 01:42:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 4281.00 ft (KB) To 4336.00 ft (KB) (TVD)

Reference Elevations: 2189.00 ft (KB)

Total Depth: 4336.00 ft (KB) (TVD)

2181.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8322 Outside

Press@RunDepth: 1361.57 psig @ 4333.71 ft (KB)

Capacity: psig

Start Date: 2017.11.17

End Date:

2017.11.18

Last Calib.:

2017.11.17

Start Time: 19:32:01

End Time:

01:42:02

Time On Btm:

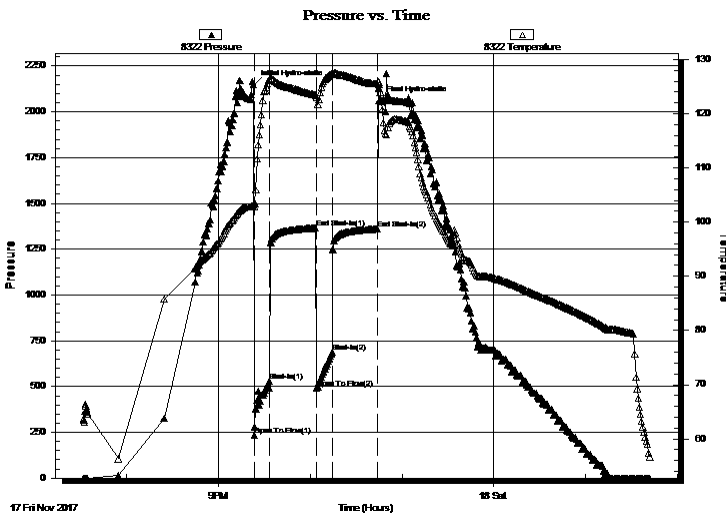
2017.11.17 @ 21:23:17

Time Off Btm:

2017.11.17 @ 22:45:02

TEST COMMENT: IF 10 Minutes Blow built to BOB in 1 1/2 minutes
IS 30 Minutes No blow back
FF 10 Minutes Blow built to BOB in 2 minutes
FS 30 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.12	103.30	Initial Hydro-static
1	234.51	102.92	Open To Flow (1)
10	530.09	126.30	Shut-In(1)
41	1365.46	123.36	End Shut-In(1)
41	490.37	123.00	Open To Flow (2)
52	687.47	127.36	Shut-In(2)
81	1361.57	125.60	End Shut-In(2)
82	2061.09	125.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	GMCO Gas 5% Mud 10% Oil 85%	3.21
868.00	GMWCO Mud 5% Water 10% Gas 15%	12.18,
186.00	OCMW Oil 10% Mud 15% Water 75%	2.61
124.00	WOCM Water 5% Oil 10% Mud 85%	1.74
0.00	124' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

25-20S-22W Ness,KS

PO Box 399
Garden City, KS 67846

KT #1-25

Job Ticket: 62085

DST#: 2

ATTN: Jason Alm

Test Start: 2017.11.16 @ 19:32:00

Tool Information

Drill Pipe:	Length: 4245.00 ft	Diameter: 3.80 inches	Volume: 59.55 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 59.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4281.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.71 ft			
Tool Length:	83.71 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4258.00	
Hydraulic tool	5.00			4263.00	
Jars	6.00			4269.00	
Safety Joint	2.00			4271.00	
Top Packer	5.00			4276.00	
Packer	5.00			4281.00	28.00 Bottom Of Top Packer
Anchor	17.00			4298.00	
Change Over Sub	1.00			4299.00	
Drill Pipe	31.71			4330.71	
Change Over Sub	1.00			4331.71	
Recorder	1.00	6755	Inside	4332.71	
Recorder	1.00	8322	Outside	4333.71	
Bullnose	3.00			4336.71	55.71 Anchor Tool

Total Tool Length: 83.71



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

25-20S-22W Ness,KS

PO Box 399
Garden City, KS 67846

KT #1-25

Job Ticket: 62085

DST#: 2

ATTN: Jason Alm

Test Start: 2017.11.16 @ 19:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	GMCO Gas 5% Mud 10% Oil 85%	3.206
868.00	GMWCO Mud 5% Water 10% Gas 15% Oil 70	12.176
186.00	OCMW Oil 10% Mud 15% Water 75%	2.609
124.00	WOCM Water 5% Oil 10% Mud 85%	1.739
0.00	124' GIP	0.000

Total Length: 1426.00 ft Total Volume: 19.730 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

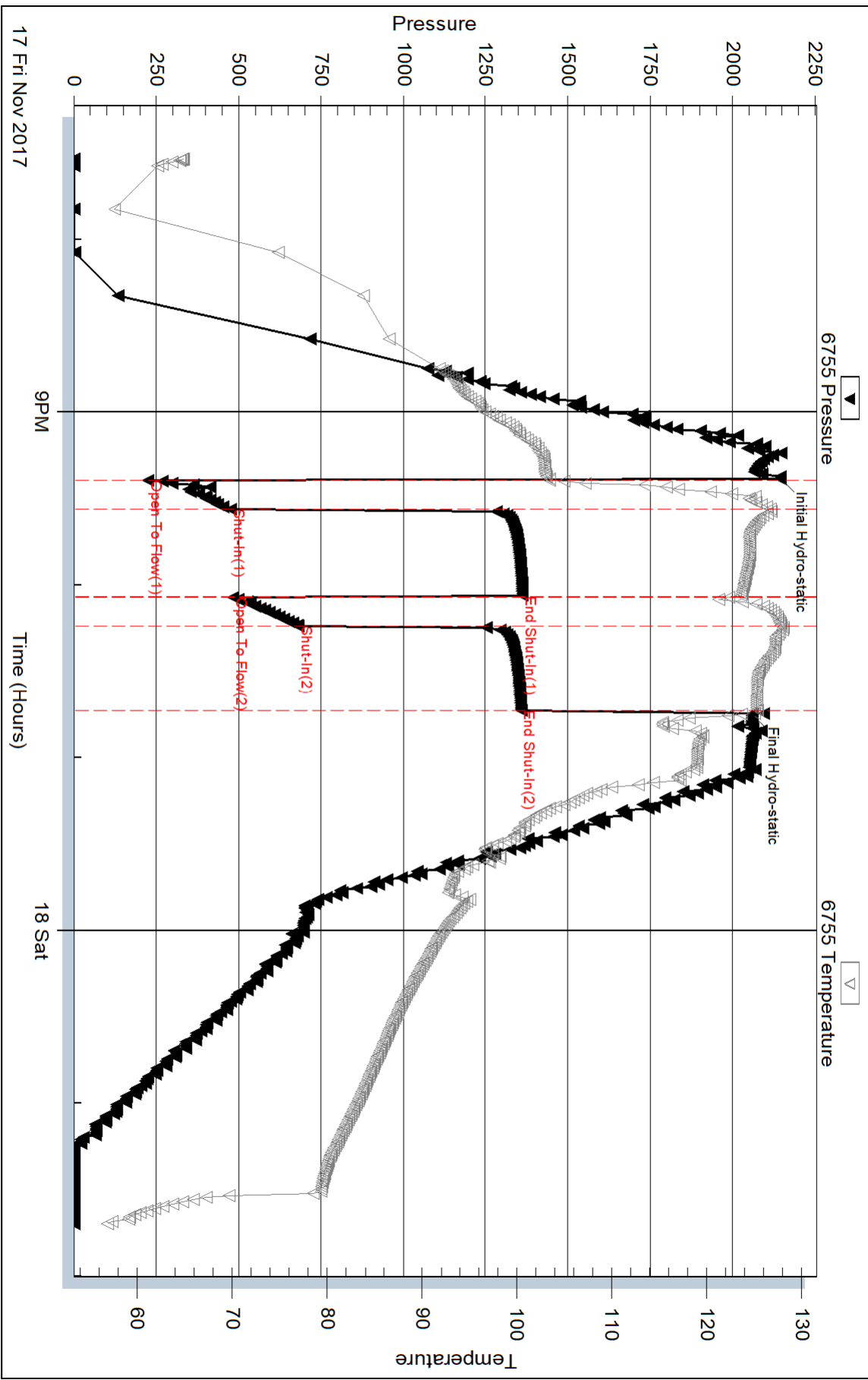
Serial #:

Laboratory Name:

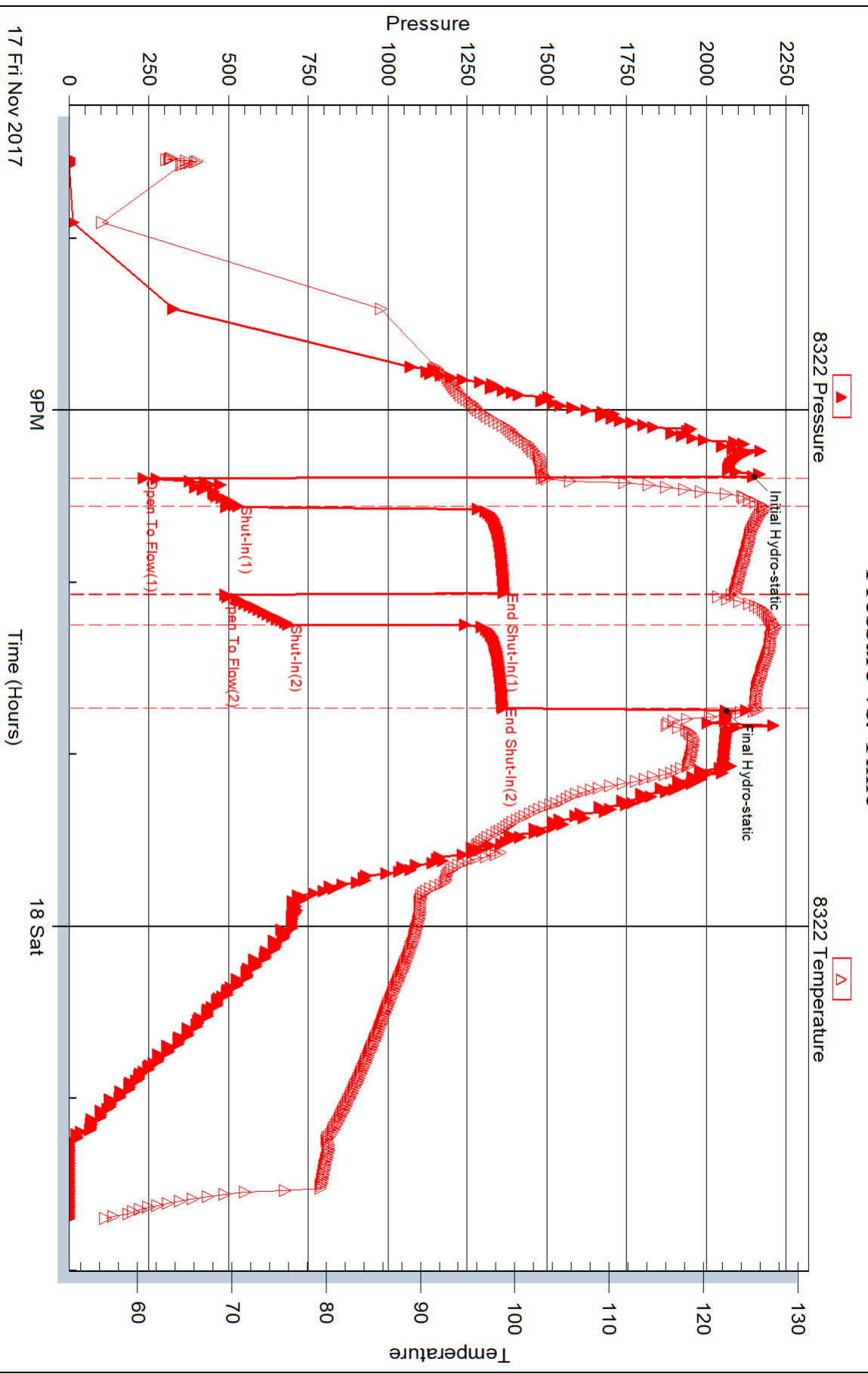
Laboratory Location:

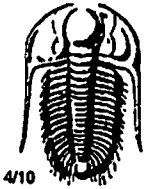
Recovery Comments: Recovery Resistivity .381 ohms @ 52 deg.

Pressure vs. Time



Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62084

Well Name & No. KT#1-25 Test No. 1 Date 16 NOV 17
 Company American Warrior Inc Elevation 2189 KB 2181 GL
 Address 3118 Lummings Rd PO Box 399 Garden City Kansas 67846
 Co. Rep / Geo. Jason Alm Rig Discovery Rig 4
 Location: Sec. 25 Twp. 20S Rge. 22W Co. Ness State KS

Interval Tested 4210-4268 Zone Tested Fort Scott
 Anchor Length 58 Drill Pipe Run 4193 Mud Wt. 9.25
 Top Packer Depth 4205 Drill Collars Run 30 Vis 61
 Bottom Packer Depth 4210 Wt. Pipe Run — WL 8.0
 Total Depth 4268 Chlorides 7500 ppm System LCM 1#

Blow Description I.F. Blow built to 1 inch
I.S.I. No blow back
F.F. Blow built to 3 inches
F.S.I. No blow back

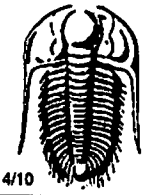
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud with show of oil</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 110 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2097</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1:59 am</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:32 am</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:31 am</u>
(D) Initial Shut-In <u>114</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:31 am</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:12 am</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>128</u> 96	Comments _____
(G) Final Shut-In <u>96</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2047</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1571</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1571</u>	

Approved By [Signature] 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. 62085

Well Name & No. KT #1-25 Test No. 2 Date 16 NOV 17
 Company American Warrior Inc Elevation 2189 KB 2181 GL
 Address 3118 Cummings Rd PO Box 399 Garden City KS 67846
 Co. Rep / Geo. Jason Alm Rig Discovery Rig 4
 Location: Sec. 25 Twp. 20S Rge. 22W Co. Ness State KS

Interval Tested 4281-4336 Zone Tested Mississippi
 Anchor Length 55 Drill Pipe Run 4245 Mud Wt. 9.4
 Top Packer Depth 4276 Drill Collars Run 30 Vis 56
 Bottom Packer Depth 4281 Wt. Pipe Run - WL 7.6
 Total Depth 4336 Chlorides 8000 ppm System LCM 1#

Blow Description I.F. Blow built to BOB in 1 1/2 minutes

I.S.I. No blow back

F.F. Blow built to BOB in 2 minutes

F.S.I. No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>GFP</u>	<u>100</u>			
<u>248</u>	<u>Gas cut Muddy Oil</u>	<u>5</u>	<u>85</u>		<u>10</u>
<u>186</u>	<u>Oil cut Muddy Water</u>		<u>10</u>	<u>75</u>	<u>15</u>
<u>868</u>	<u>Mud+Water cut Gassy Oil</u>	<u>15</u>	<u>70</u>	<u>10</u>	<u>5</u>
<u>124</u>	<u>Water cut Oily Mud</u>		<u>10</u>	<u>5</u>	<u>85</u>

Rec Total _____ BHT 125 Gravity 36 API RW .381 @ 52 °F Chlorides 24,000 ppm

(A) Initial Hydrostatic 2144
 (B) First Initial Flow 225
 (C) First Final Flow 476
 (D) Initial Shut-In 1362
 (E) Second Initial Flow 483
 (F) Second Final Flow 681
 (G) Final Shut-In 1359
 (H) Final Hydrostatic 2059

Test 1150
 Jars 250
 Safety Joint 75
 Circ Sub _____
 Hourly Standby _____
 Mileage 128 96
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1571

T-On Location 6:36 pm
 T-Started 7:32 pm
 T-Open 9:23 pm
 T-Pulled 10:43 pm
 T-Out 1:42 am

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1571
 MP/DST Disc't _____

Initial Open 10
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In 30

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.