



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1236439  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1236439

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	EHT-Supes Unit 2
Doc ID	1236439

Tops

Name	Top	Datum
Anhydrite	1445	751
Heebner	3654	-1458
Lansing	3700	-1504
Base Kansas City	4022	-1826
Pawnee	4098	-1902
Ft. Scott	4178	-1982
Cherokee	4197	-2001
Mississippian	4282	-2086
TD	4390	-2194



# **Geological Report**

American Warrior, Inc.  
**EHT-Supes Unit #2**  
750' FSL & 2560' FWL  
Sec. 17 T18s R21w  
Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
EHT-Supes Unit #2  
750' FSL & 2560' FWL  
Sec. 17 T18s R21w  
Ness County, Kansas  
API # 15-135-25791-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm

Spud Date: August 10, 2014

Completion Date: August 18, 2014

Elevation: 2188' Ground Level  
2196' Kelly Bushing

Directions: Bazine KS, East 1 ½ mi. to FF Rd. North 2 mi. to  
150 Rd. West ½ mi. North into location.

Casing: 222' 8 5/8" surface casing  
4389' 5 1/2" production casing

Samples: 10' wet and dry, 3950' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "Chris DeSaire"  
CNL/CDL, DIL

Drillstem Tests: Two, Trilobite Testing, Inc. "Jim Svaty"

Problems: None

Remarks: None

## Formation Tops

	<b>American Warrior, Inc.</b> <b>EHT-Supes Unit #2</b> <b>Sec. 17 T18s R21w</b> <b>750' FSL &amp; 2560' FWL</b>
<b>Formation</b>	
Anhydrite	<b>1445', +751</b>
Base	<b>1479', +717</b>
Heebner	<b>3654', -1458</b>
Lansing	<b>3700', -1504</b>
BKc	<b>4022', -1826</b>
Pawnee	<b>4098', -1902</b>
Fort Scott	<b>4178', -1982</b>
Cherokee	<b>4197', -2001</b>
Mississippian	<b>4282', -2086</b>
Gilmore City	<b>4377', -2181</b>
LTD	<b>4390', -2194</b>
RTD	<b>4390', -2194</b>

## Sample Zone Descriptions

**Cherokee Sand (4199', -2003): Covered in DST #1**  
 Ss – Fine grained, fairly sorted, sub-rounded, poorly cemented with fair inter-granular porosity, light to good oil stain in cluster, fair show of free oil, very light odor, good yellow fluorescents, bright yellow cut fluorescents, 20 units hotwire.

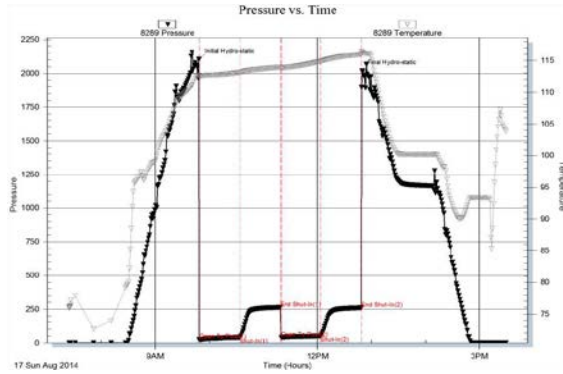
**Mississippian Osage (4282', -2086): Covered in DST #2**  
 Δ – Mostly fresh with scattered fair vuggy porosity, slightly dolomitic, mostly dense with scattered poor inter-crystalline and vuggy porosity, spotted tarry oil stain in porosity, no show of free oil.

**Drill Stem Tests**  
 Trilobite Testing, Inc.  
 "Jim Svaty"

**DST #1 Cherokee Sand**

Interval (4195' – 4220') Anchor Length 25'

IHP	- 2103 #	
IFP	- 45" – Built to 5 in.	23-40 #
ISI	- 45" – Dead	262 #
FFP	- 45" – Built to 5 ¼ in.	39-51 #
FSI	- 45" – W.S.B.	259 #
FHP	- 2019 #	
BHT	- 116°F	

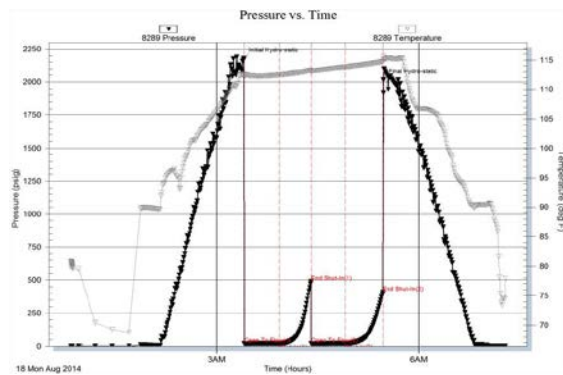


Recovery: 155' GIP  
 35' GCO 38° Gravity  
 57' WOCM 20% Oil, 10% Water

**DST #2 Mississippian Osage**

Interval (4291' – 4297') Anchor Length 6'

IHP	- 2177 #	
IFP	- 30" – W.S.B.	20-22 #
ISI	- 30" – Dead	490 #
FFP	- 30" – Dead	21-21 #
FSI	- 30" – Dead	410 #
FHP	- 2016 #	
BHT	- 115°F	



Recovery: 1' OSM



## Structural Comparison

	American Warrior, Inc. EHT-Supes Unit #2 Sec. 17 T18s R21w 750' FSL & 2560' FWL	Leben Drilling Co. Gaede #1 Sec. 17 T18s R21w SE SE SW		American Warrior, Inc. EHT #1-17 Sec. 17 T18s R21w 2560' FNL & 2210' FWL	
<b>Formation</b>					
Anhydrite	<b>1445', +751</b>	1449', +745	<b>(+6)</b>	1459', +744	<b>(+7)</b>
Base	<b>1479', +717</b>	NA	<b>NA</b>	1494', +709	<b>(+8)</b>
Heebner	<b>3654', -1458</b>	3657', -1463	<b>(+5)</b>	3666', -1463	<b>(+5)</b>
Lansing	<b>3700', -1504</b>	3704', -1510	<b>(+6)</b>	3710', -1507	<b>(+3)</b>
BKc	<b>4022', -1826</b>	NA	<b>NA</b>	4035', -1832	<b>(+6)</b>
Pawnee	<b>4098', -1902</b>	NA	<b>NA</b>	4108', -1905	<b>(+3)</b>
Fort Scott	<b>4178', -1982</b>	NA	<b>NA</b>	4187', -1984	<b>(+2)</b>
Cherokee	<b>4197', -2001</b>	NA	<b>NA</b>	4206', -2003	<b>(+2)</b>
Mississippian	<b>4282', -2086</b>	4292', -2098	<b>(+12)</b>	4287', -2084	<b>(+2)</b>
Gilmore City	<b>4377', -2181</b>	NR	<b>NR</b>	NR	<b>NR</b>

## Summary

The location for the EHT-Supes Unit #2 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 Cherokee Sand Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the EHT-Supes Unit #2 well.

## Recommended Perforations

**Cherokee "A" Sand                      (4199' – 4204')                      DST #1**

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc  
 3118 Cummings Rd Box 399  
 Garden City KS 67846  
 ATTN: Jason T Alm

**17 18s 21w Ness**  
**EHT - Suppes Unit 2**  
 Job Ticket: 56133 **DST#: 1**  
 Test Start: 2014.08.17 @ 07:24:00

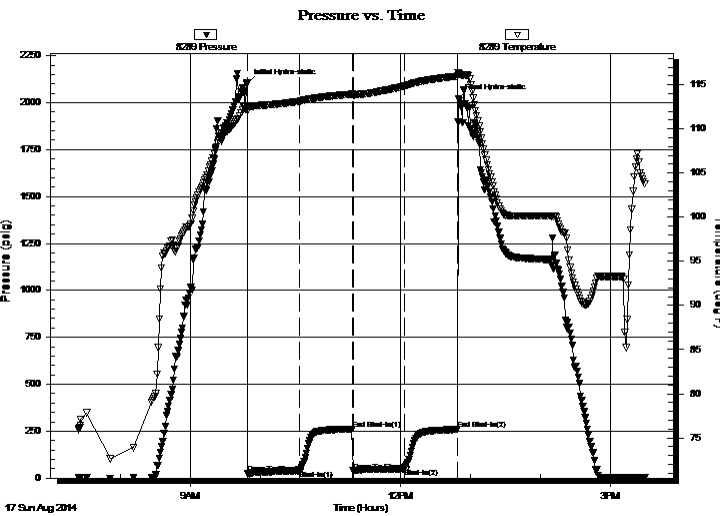
## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:48:45  
 Time Test Ended: 15:30:00  
 Interval: **4195.00 ft (KB) To 4220.00 ft (KB) (TVD)**  
 Total Depth: 4220.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 76  
 Reference Elevations: 2196.00 ft (KB)  
 2188.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8289 Outside

Press @ Run Depth: 50.61 psig @ 4197.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.08.17 End Date: 2014.08.17 Last Calib.: 2014.08.17  
 Start Time: 07:24:02 End Time: 15:30:00 Time On Btm: 2014.08.17 @ 09:48:30  
 Time Off Btm: 2014.08.17 @ 12:49:45

TEST COMMENT: 45-IFP- Surface Blow Building to 5in. in 43min.  
 45-ISIP- No Blow  
 45-FFP- Surface Blow Building to 5 1/4in.  
 45-FSIP- Surface Blow in 3min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.39	112.67	Initial Hydro-static
1	23.79	112.02	Open To Flow (1)
45	39.71	113.13	Shut-In(1)
90	261.66	113.93	End Shut-In(1)
91	39.04	113.76	Open To Flow (2)
135	50.61	114.85	Shut-In(2)
181	258.84	115.96	End Shut-In(2)
182	2019.11	116.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
57.00	WOCM 5%w 20%o 75%m	0.52
35.00	CO 100%	0.49
0.00	155 GIP	0.00

## Gas Rates

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





**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
3118 Cummings Rd Box 399  
Garden City KS 67846  
ATTN: Jason T Alm

**17 18s 21w Ness**  
**EHT - Suppes Unit 2**  
Job Ticket: 56133      **DST#: 1**  
Test Start: 2014.08.17 @ 07:24:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.96 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3700.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
57.00	WOCM 5%w 20%o 75%m	0.517
35.00	CO 100%	0.491
0.00	155 GIP	0.000

Total Length: 92.00 ft      Total Volume: 1.008 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
3118 Cummings Rd Box 399  
Garden City KS 67846  
ATTN: Jason T Alm

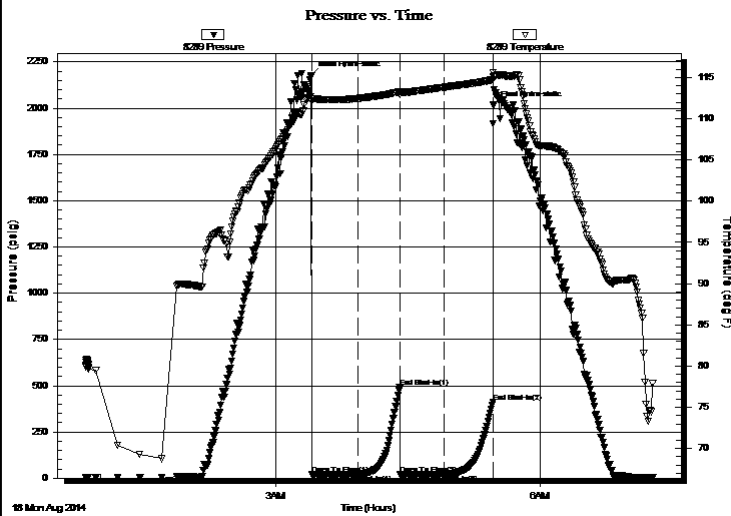
**17 18s 21w Ness**  
**EHT - Suppes Unit 2**  
Job Ticket: 56134 **DST#: 2**  
Test Start: 2014.08.18 @ 00:50:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:24:15  
Time Test Ended: 07:17:00  
Interval: **4291.00 ft (KB) To 4297.00 ft (KB) (TVD)**  
Total Depth: 4297.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jim Svaty  
Unit No: 76  
Reference Elevations: 2196.00 ft (KB)  
2188.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**  
Press@RunDepth: 21.19 psig @ 4293.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.08.18 End Date: 2014.08.18 Last Calib.: 2014.08.18  
Start Time: 00:50:02 End Time: 07:17:00 Time On Btm: 2014.08.18 @ 03:24:00  
Time Off Btm: 2014.08.18 @ 05:28:30

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 20min.  
30-ISIP- No Blow  
30-FFP- No Blow  
30-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2177.49	112.66	Initial Hydro-static
1	20.00	112.10	Open To Flow (1)
32	21.71	112.46	Shut-In(1)
61	489.61	113.27	End Shut-In(1)
61	21.11	112.94	Open To Flow (2)
91	21.19	113.81	Shut-In(2)
124	410.42	114.73	End Shut-In(2)
125	2016.18	115.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	OSM 100%	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior Inc

**17 18s 21w Ness**

3118 Cummings Rd Box 399  
Garden City KS 67846

**EHT - Suppes Unit 2**

Job Ticket: 56134

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2014.08.18 @ 00:50:00

### 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	OSM 100%	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

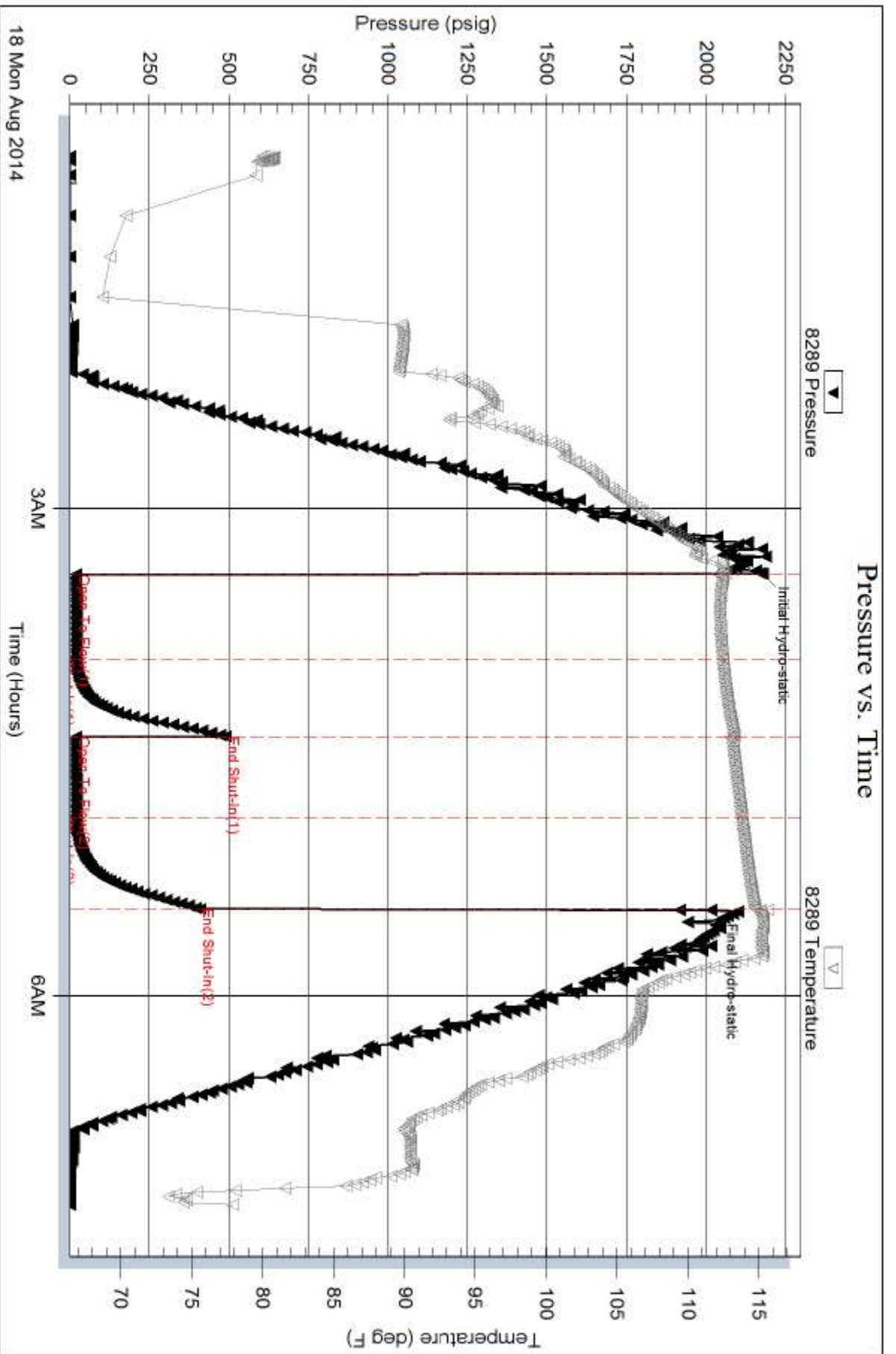
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# ALLIED OIL & GAS SERVICES, LLC 063680

Federal Tax I.D. # 56-6681476

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: \_\_\_\_\_

DATE <u>8-12-14</u>	SEC. <u>17</u>	TWP. <u>18S</u>	RANGE <u>21</u>	CALLED OUT _____	ON LOCATION _____	JOB START _____	JOB FINISH _____
LEASE <u>EHT- Sycamore</u>	WELL # <u>2</u>		LOCATION <u>Road 2 East Twp 17</u>	COUNTY <u>Wade</u>	STATE <u>TX</u>		
OLD OR NEW (Circle one)			RD 2 North Forest Area				

CONTRACTOR Oiscony 3 OWNER American Well

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. 222

CASING SIZE 8 1/2 DEPTH 222

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 15

CEMENT LEFT IN CSG. 15

PERFS. \_\_\_\_\_

DISPLACEMENT 13 BBLS

**EQUIPMENT**

PUMP TRUCK CEMENTER Wayne Davis

# 597 HELPER Kevin F

BULK TRUCK DRIVER Dan Casper

BULK TRUCK DRIVER \_\_\_\_\_

CEMENT AMOUNT ORDERED 15000 LBS

+ 3% CC + 2% GC

COMMON

POZMIX

GEL

CHLORIDE

ASC

\_\_\_\_\_

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**REMARKS:**

Pipe on Bottom Break

Circulation with Righead

Run 5 BBLS water Ahead

mix 15000 LBS Class A + 3% CC + 2%

gel

Displace 13 BBLS fresh water

shut in

Cement did circulate

CHARGE TO: American Well

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME GALEY GASCHER

SIGNATURE John Gascher

TOTAL \_\_\_\_\_

**SERVICE**

DEPTH OF JOB 222

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE

MILEAGE

MANIFOLD

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TOTAL \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

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SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

TOTAL \_\_\_\_\_





# CEMENTING LOG

STAGE NO.

Date 7-12-14 District 23rd Bar Ticket No. EHT  
 Company American Energy Services Rig 23rd Bar  
 Lease EHT-Samples Well No. 4412  
 County Wm State Ks  
 Location Region FF Rd 2N Field

CEMENT DATA:  
 Specifier Type 5 BBI H2O  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type Class 1 31-cc  
21-gal Excess \_\_\_\_\_  
 Amt. 150 Sks Yield 1.34 ft<sup>3</sup>/sk Density 15.2 PPG

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 8 1/2 Type \_\_\_\_\_ Weight 20 Collar \_\_\_\_\_

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls

Casing Depth: Top \_\_\_\_\_ Bottom \_\_\_\_\_

Pump Trucks Used \_\_\_\_\_  
 Bulk Equip. 23rd Bar

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Floater Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm \_\_\_\_\_

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 0.0637 Lin. ft./Bbl. \_\_\_\_\_  
 Open Hole: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. 1.12 15-10  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type H2O Amt. \_\_\_\_\_ Bbls Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER \_\_\_\_\_

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						on Roxar rig up 5.30
						Rig Bar 8 1/2 cas
						Backhoe case 2 1/2 rig mud
			5		3	pump 5 BBI H2O
			25.79		4	mix 150 sk
						displace 13 BBI H2O
						cement done



Services, Inc.

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

TICKET 26418

PAGE 1 OF 2

SERVICE LOCATIONS <u>Am City, KS</u>	WELL/PROJECT NO. <u>#2</u>	LEASE <u>EAT - SURVES UNIT</u>	COUNTY/PARISH <u>Lebo</u>	STATE <u>KS</u>	CITY <u>Bazine</u>	DATE <u>10 AVE 14</u>	OWNER
	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME NO.	SHIPPED <u>WT</u>	DELIVERED TO <u>location</u>	ORDER NO.	
	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>cement lng string</u>		WELL PERMIT NO.	WELL LOCATION <u>17-R-21</u>	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE CURRENCY	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<del>575</del>	<del>578</del>				MILEAGE	20	mi			6.00	120.00
<del>575</del>	<del>578</del>				Pump Charge	1	ea			1500.00	1500.00
					Control Rizer	1	in			300.00	300.00
					Cement Bucket	2	in			290.00	580.00
					Port Collar	1	in			275.00	275.00
					Latch down Plog 3 bottle	1	ea			375.00	375.00
					Insert flat shoe w/ luro pic	1	ea			375.00	375.00
					<del>Rotating head Part #11</del>	<del>1</del>	<del>ea</del>			<del>200.00</del>	<del>200.00</del>

**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

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

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_

AM  
 P.M.

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
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	

CUSTOMER DID NOT WISH TO RESPOND

TOTAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

SWIFT OPERATOR: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

Thank You!



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

TICKET CONTINUATION

TICKET No. 26418

CUSTOMER American Horse

WELL EHT-Supplies Ltd

DATE 19 Aug 14

PAGE 21 of 2

Item	Quantity	Unit	Description	Weight	Volume	Value
325	1		STANDARD COUNT (For 51.2)	175.56		14.50
284	1		Calceal	800 lb		35.00
283	1		SALT	900 lb		0.80
292	1		Hyd-322	125 lb		8.60
276	1		Fluclo	50 lb		2.80
281	1		Mud Flush	500 lb		1.85
281	1		KCL Liquid	200 lb		25.00
290	1		D-air	200 lb		42.00
582	1		Service Charge			250.00
581	1		TOTAL WEIGHT	175		200
			LOADED MILES			350.00
			CUBIC FEET			
			TON MILES			

JOB LOG

SWIFT Services, Inc.

DATE 79 AUG 14 PAGE NO.

CUSTOMER American Warrior

WELL NO. 42

LEASE ENT-SUPERS UNIT

JOB TYPE Cement buy string

TICKET NO. 26418

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2 cement w/ 4" floccle 5 1/2" x 15.5 casing 115 joints + D = 9390' TOTAL PIPE 4385' shoe at 3982 Cementations 1, 2, 3, 4, 5, 6, 78 Batch 7, 79 Foot follow "79 1411"
	0300							on loc TRK 112
	0405							start 5 1/2" x 15.5" casing in well
	0600							Drop ball - circulate - <del>START</del>
	0630	4 1/2	12				200	Pump 500 gal mud flush
		4 1/2	20				200	Pump 20 bbl KCL flush
			10					Plug RH - MH 30sk - 20sk
	0645	4 1/2	32				200	Mix EA-2 cement 125sk @ 16.3ppg
								Drop latch drum plug wash out pump & lines
	0700	6					200	Displace plug
		6	98				850	
	0715	6	104				1500	Land plug
								Release pressure to truck - dried up
	0719							wash truck
								Rack up
	0750							job complete
								Thanks
								Dave, Blaine, & Aaron



Services, Inc.

CHARGE TO: AMERICAN WARIDR  
ADDRESS  
CITY, STATE, ZIP CODE

TICKET 27930

PAGE 1 OF

1. SERVICE LOCATION: NESS GEN. KS  
WELL/PROJECT NO.: B 2  
LEASE: EHT-5499S  
COUNTY: NESS  
STATE: KS  
CITY: BAZINE, KS  
DATE: 11SEP14  
OWNER:

2. TICKET TYPE: SALES  
CONTRACTOR: HD DUFFIELD SERV  
RIG NAME/NO.:  
SHIPPED VIA:  
ORDER NO.:

3. WELL TYPE: DIL  
WELL CATEGORY: DEVELOPMENT  
JOB PURPOSE: Cement Port Bular  
WELL PERMIT NO.:

4. REFERRAL LOCATION: INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE B115	20	MI			7.00	140.00
576D					PUMP CHARGE	1	CHG			1500.00	1500.00
276					FLUCELL	35	FL			2.50	87.50
29D					D-AIR	1	PR			42.00	42.00
33D					SMID CEMENT	125	SX			18.50	2312.50
581					CEMENT SERVICE CHARGE	175	SX			2.00	350.00
582					MINIMUM DRAVAGE	17400	LB			14.00	243600.00

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

DATE SIGNED: 11 Sep 14  
TIME SIGNED: 1:45 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: 4662.00  
TAX: 150.18  
TOTAL: 4812.18

SWIFT OPERATOR: [Signature]  
APPROVAL: [Signature]

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11 SEP 14 PAGE NO.

CUSTOMER AMERICAN WARRIOR

WELL NO. B 2

LEASE EHT-SYPRES

JOB TYPE CEMENT PORT COLLAR

TICKET NO. 27930

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1545							ON LOCATION
								PORT COLLAR @ 1411
	1645				✓		1000	TEST - HELD
	1647							OPEN PORT COLLAR
	1650	4	70	✓		500		MIX 125SX SMO
		3	5	✓		300		DISPLACE CEMENT
								CIRCULATE 2D SX TO PIT
	1711				✓		1000	CLOSE PORT COLLAR - TEST - HELD
								RUN 4 JTS.
	1721	4	18		✓		300	REVERSE CLEAN
	1730							WASH TRUCK
	1745							JOB COMPLETE
								THANKS #115
								JASON DAVE CRAIG