

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1186179

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

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: _____

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

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>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ 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
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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 (Amount and Kind of Material Used)	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	Bbbs.	Gas	Mcf	Water	Bbbs.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> ☐ Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Fredericks 1-24
Doc ID	1186179

Tops

Name	Top	Datum
Anhydrite	1442	733
Heebner	3638	-1463
Lansing	3683	-1508
Base Kansas City	3998	-1823
Pawnee	4084	-1909
Fort Scott	4160	-1985
Cherokee	4181	-2006
Mississippian	4256	-2081
RTD	4275	-2100



Geologic Report

Drilling Time and Sample Log

Operator **American Warrior, Inc.**

KB
DF
GL

Elevation
2175'
2169'

Lease **Fredericks**

No. **1-24**

API # **15-135-25677-0000**

Field **Wildcat**

Location **2215' FNL & 1320' FWL**

Sec. **24** Twp. **18s** Rge. **22w**

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

Formation Log Tops Sample Tops Struct Comp

Anhydrite
Base

1442' +733
1479' +696

-11

Heebner
Lansing

3638' -1463
3683' -1508

-1
-2

BKc
Pawnee

3998' -1823
4084' -1909

-1
+2

Fort Scott
Cherokee

4160' -1985
4181' -2006

+1
+1

Mississippian

4256' -2081

-2

Total Depth

4275' -2100

Reference Well For Structural Comparison **Marmik Oil Co. Filbert #13-24**
1980' FSL & 660 FWL Sec. 24 T18s R22w Ness Co. Kansas

Summary and Recommendations

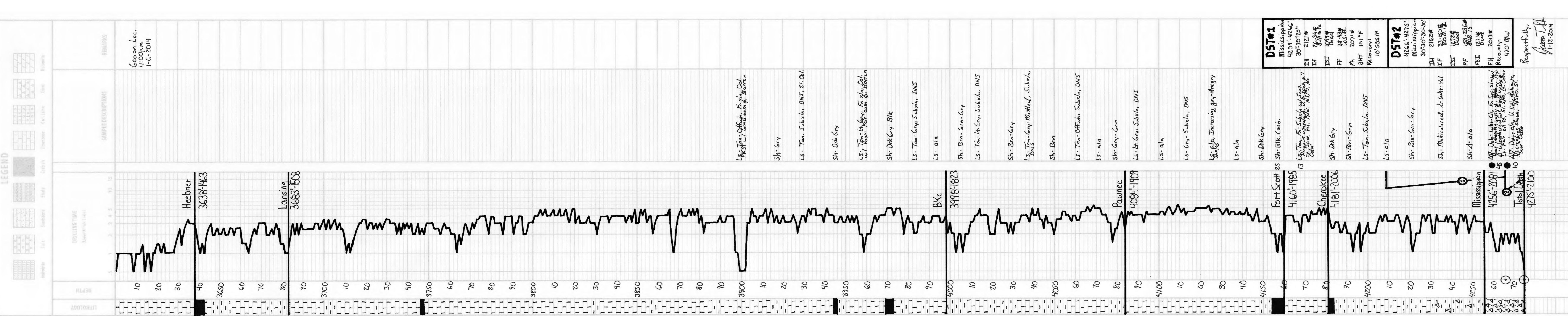
The location for the Fredericks #1-24 was found via 3-D seismic survey. The new well ran slightly lower than expected via the survey. Two drill stem tests were conducted both of which were negative. After all gathered data had been examined the decision was made to plug and abandon the Fredericks #1-24 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.

Drilling Contractor **Petromark Drilling, LLC. Rig #1**
Commenced **1-2-2014** Completed **1-10-2014**
Samples Saved From **3900'** To **RTD**
Drilling Time Kept From **3600'** To **RTD**
Samples Examined From **3900'** To **RTD**
Geological Supervision From **3900'** To **RTD**

Displacement **3500'** Mud Type **Chemical**



Geological Report

American Warrior, Inc.

Fredericks #1-24

2215' FNL & 1320' FWL

Sec. 24 T18s R22w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Fredericks #1-24 2215' FNL & 1320' FWL Sec. 24 T18s R22w Ness County, Kansas API # 15-135-25677-0000
Drilling Contractor:	Petromark Drilling, LLC. Rig #1
Geologist:	Jason T Alm
Spud Date:	January 2, 2014
Completion Date:	January 10, 2014
Elevation:	2169' Ground Level 2175' Kelly Bushing
Directions:	Bazine KS, at the intersection of Hwy 96 and Austin St. North 1 mi. to 140 Rd. 1 mi. West to CC Rd. North ½ mi. East into location.
Casing:	223' 8 5/8" surface casing
Samples:	10' wet and dry, 3900' to RTD
Drilling Time:	3600' to RTD
Electric Logs:	None
Drillstem Tests:	Two, Trilobite Testing, Inc. "Andy Carreira"
Problems:	None
Remarks:	None

Formation Tops

Formation

Anhydrite
Base
Heebner
Lansing
BKc
Pawnee
Fort Scott
Cherokee
Mississippian
RTD

American Warrior, Inc.

Fredericks #1-24

Sec. 24 T18s R22w

2215' FNL & 1320' FWL

1442', +733

1479', +696

3638', -1463

3683', -1508

3998', -1823

4084', -1909

4160', -1985

4181', -2006

4256', -2081

4275', -2100

Sample Zone Descriptions

Mississippian Osage (4256', -2085): **Covered in DST #1,2**

Dolo – Δ – Fine sucrosic crystalline with poor inter-crystalline and vuggy porosity, heavy triptolic chert, weathered with good vuggy porosity, light to fair oil stain in porosity, slight show of free oil, light odor, fair yellow cut fluorescents, 45-10 units hotwire.

Drill Stem Tests
Trilobite Testing, Inc.
“Andy Carreira”

DST #1

Mississippian Osage

Interval (4209' – 4266') Anchor Length 67'

IHP	– 2121 #	
IFP	– 30" – Built to ½ in.	26-34 #
ISI	– 30" – Dead	1099 #
FFP	– 20" – W.S.B.	38-43 #
FHP	– 2071 #	
BHT	– 101°F	

Recovery: 10' SOSM

DST #2

Mississippian Osage

Interval (4266' – 4275') Anchor Length 9'

IHP	– 2162 #	
IFP	– 30" – B.O.B. 12 min.	33-150 #
ISI	– 30" – Dead	1298 #
FFP	– 30" – B.O.B. 15 min.	153-236 #
FSI	– 30" – Dead	1271 #
FHP	– 2013 #	
BHT	– 122°F	

Recovery: 470' MW

Structural Comparison

	American Warrior, Inc. Fredericks #1-24 Sec. 24 T18s R22w 2215' FNL & 1320' FWL	American Warrior, Inc. Filbert #1-24 Sec. 24 T18s R22w 1430' FSL & 750' FWL		Marmik Oil Co. Filbert #13-24 Sec. 24 T18s R22w 1980' FSL & 660' FWL	
Formation					
Anhydrite	1442', +733	1436', +739	(-6)	NA	NA
Base	1479', +696	1474', +701	(-5)	NA	NA
Heebner	3638', -1463	3634', -1459	(-4)	3636', -1462	(-1)
Lansing	3683', -1508	3680', -1505	(-3)	3680', -1506	(-2)
BKc	3998', -1823	3996', -1821	(-2)	NA	NA
Pawnee	4084', -1909	4080', -1905	(-4)	4085', -1911	(+2)
Fort Scott	4160', -1985	4158', -1983	(-2)	4160', -1986	(+1)
Cherokee	4181', -2006	4177', -2002	(-4)	4181', -2007	(+1)
Mississippian	4256', -2081	4248', -2073	(-8)	4253', -2079	(-2)

Summary

The location for the Fredericks #1-24 was found via 3-D seismic survey. The new well ran slightly lower structurally than expected via the survey. Two drill stem tests were conducted, both were negative. After all gathered data had been examined the decision was made to plug and abandon the Fredericks #1-24 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.

STAGE NO.

Date 1-2-14 District Great Bend Ticket No. 610911
Company American Warrior Rig Petroleum
Lease East of Great Bend Well No. #1-201
County Mass State KS
Location Franklin N-1W-1/2 Field 251022

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☒ Intermediate ☐ Production ☐ Liner ☐
Size 6 5/8 Type W Weight 24# Collar 8rd

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 5 1/2 Weight 16 # Collars 13
Open Hole: Size _____ T.D. _____ ft. P.B. to 15 ft.

CAPACITY FACTORS:

Casing:	Bbls/Lin. ft. <u>0.0637</u>	Lin. ft./Bbl. <u>15.54</u>
Open Holes:	Bbls/Lin. ft. _____	Lin. ft./Bbl. _____
Drill Pipe:	Bbls/Lin. ft. _____	Lin. ft./Bbl. _____
Annulus:	Bbls/Lin. ft. _____	Lin. ft./Bbl. <u>15.54</u>
	Bbls/Lin. ft. _____	Lin. ft./Bbl. <u>15.54</u>

Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENT DATA:

Spacer Type: Freshwater
 Amt. 5 bbl SKs Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time Thicken Time hrs. Type Class A 3% alc
2% alc Excess _____

Armt. 150 Sks Yield 1134 ft³/sk Density 1512 PPG

TAIL: Pump Time _____ hrs. Type _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls

Pump Trucks Used 395 - Army Forks

Bulk Equip. 6/10-1/2 - Tommy T

Floaf Equip. Manufacturer: _____

Shoe: Type _____ Depth 0.75

Float Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type Freshwater Amt. _____ Bbls. Weight _____ PPG _____

Mud Type Nat. Ore Weight PPG

CEMENTER Josh Doe

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						On location - Rig up
						had safety meeting
						Run 858 casing
						Broke circulation - w/ rig moved
	100			5	5	pump 5 bbl fresh water
	100		40.79	35.79	5	mix 150 SKI CLASS A 3 ^{1/2} gal
	150		54.05	13.26	5	Displace 13.26 bbl fresh water
						Shut in
1:15 Am						cement did recirculate
						Rig down

ALLIED OIL & GAS SERVICES, LLC 061091

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Great Bend

DATE <u>1-2-14</u>	SEC. <u>24</u>	TWP. <u>13</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION	JOB START <u>1 AM</u>	JOB FINISH <u>1:30 AM</u>
LEASE <u>Fredauk</u>	WELL # <u>124</u>	LOCATION <u>DD Rd 1N-1W-1/2 N-E 1/4</u>			COUNTY <u>Ness</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Petromark
TYPE OF JOB Surface
HOLE SIZE 12 1/2 T.D.
CASING SIZE 8 5/8 DEPTH 223.23
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15 FT
PERFS.
DISPLACEMENT 13.26 Bbl fresh water

EQUIPMENT

PUMP TRUCK CEMENTER Josh Lucas
398 HELPER Andy Finkel
BULK TRUCK
10-112 DRIVER Tommy T
BULK TRUCK
DRIVER

REMARKS:

On location - Rig up - had safety meeting
Ran 8 5/8 casing - break circulation - pull rig mud
pump & add fresh water ahead
Mix 150 sks class A 3% cc 2% gel
Displace 13.26 bbl fresh water
Shut in 1:15 am
Cement did circulate
Rig down

CHARGE TO: American runner
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 X Sh. L. R. Co. L

SIGNATURE X [Signature]

Thank you!!

OWNER

CEMENT
AMOUNT ORDERED 150 sks class A 3% cc
2% gel

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE		

TOTAL

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE
EXTRA FOOTAGE @
MILEAGE @
MANIFOLD @
@
@

TOTAL

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

ALLIED OIL & GAS SERVICES, LLC 061842

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

6100 - Bunkley

DATE 1-9-14	SEC. 24	TWP. 18S	RANGE 22E	CALLED OUT	ON LOCATION	JOB START 11:30AM	JOB FINISH 12:00PM
LEASE Fredrick	WELL # 1-24	LOCATION Bozic DDR 2N 1W			COUNTY	STATE	
OLD OR (check one)		1/2 N E into					

CONTRACTOR Perimeter Drilling #1

TYPE OF JOB Roady Plug

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 1470

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 11

PERFS.

DISPLACEMENT Freshwater / Noxide

EQUIPMENT

PUMP TRUCK CEMENTER Dustin Chambers

996 HELPER Mike Scott

BULK TRUCK

544-198 DRIVER Kevin Wriggles

BULK TRUCK

DRIVER

REMARKS:

Fill hole with Dry Mud

1,1470-505K

2,800-805K

3,270-505K

4,60-205K

5, 11-305K 11:00 AM

Plug Down

Rig Down

CHARGE TO: American

STREET

CITY STATE ZIP

OWNER

CEMENT

AMOUNT ORDERED 2305K 60% class A

40% 41.961 14K

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE

TOTAL

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

TOTAL

SALES TAX (if Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

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 X

SIGNATURE X

Thank You!!



DRILL STEM TEST REPORT

Prepared For: **American Warrior inc.**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Fredericks #1-24

24-18s-22w Ness,KS

Start Date: 2014.01.08 @ 11:50:01

End Date: 2014.01.08 @ 16:53:30

Job Ticket #: 54886 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.10 @ 08:37:08

American Warrior inc.

24-18s-22w Ness,KS

Fredericks #1-24

DST # 1

Mississippian

2014.01.08



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54886

DST#: 1

ATTN: Jason Alm

Test Start: 2014.01.08 @ 11:50:01

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:40:00

Time Test Ended: 16:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 68

Interval: 4209.00 ft (KB) To 4266.00 ft (KB) (TVD)

Total Depth: 4266.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2175.00 ft (KB)

2169.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8372 Inside

Press@RunDepth: 33.78 psig @ 4216.00 ft (KB)

Start Date: 2014.01.08

End Date:

2014.01.08

Start Time: 11:50:01

End Time:

16:53:30

Capacity: 8000.00 psig

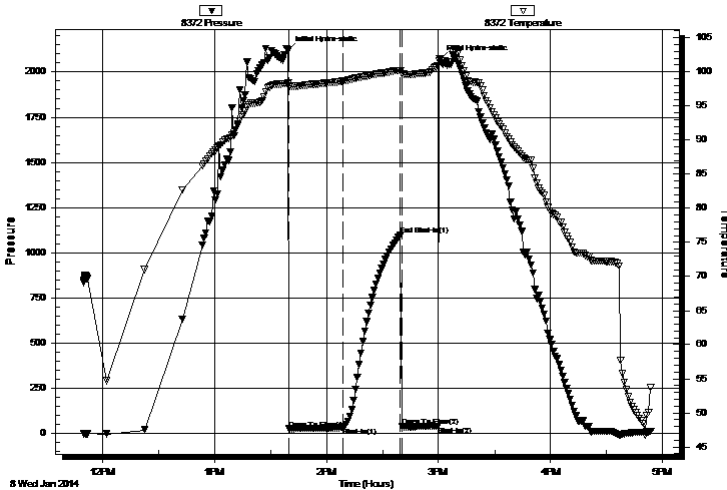
Last Calib.: 2014.01.08

Time On Btm: 2014.01.08 @ 13:39:30

Time Off Btm: 2014.01.08 @ 15:00:30

TEST COMMENT: IF:(30min) 1/2" blow
IS:(30min) No Return
FF:(20min) Surface blow - Pull Tool

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.79	98.33	Initial Hydro-static
1	26.47	97.85	Open To Flow (1)
30	33.78	98.66	Shut-In(1)
60	1098.70	100.24	End Shut-In(1)
61	38.56	99.79	Open To Flow (2)
80	42.73	100.91	Shut-In(2)
81	2070.85	101.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOSM	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54886

DST#: 1

ATTN: Jason Alm

Test Start: 2014.01.08 @ 11:50:01

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:40:00

Time Test Ended: 16:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 68

Interval: 4209.00 ft (KB) To 4266.00 ft (KB) (TVD)

Total Depth: 4266.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2175.00 ft (KB)

2169.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8321 Outside

Press@RunDepth: psig @ 4216.00 ft (KB)

Start Date: 2014.01.08

End Date:

2014.01.08

Start Time: 11:50:01

End Time:

16:53:30

Capacity: 8000.00 psig

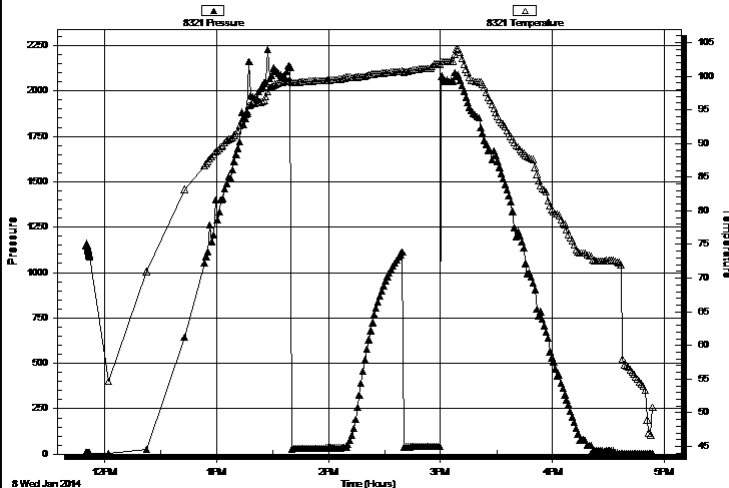
Last Calib.: 2014.01.08

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(30min) 1/2" blow
IS:(30min) No Return
FF:(20min) Surface blow - Pull Tool

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOSM	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54886

DST#: 1

ATTN: Jason Alm

Test Start: 2014.01.08 @ 11:50:01

Tool Information

Drill Pipe:	Length:	4092.00 ft	Diameter:	3.80 inches	Volume:	57.40 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	118.98 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	57.99 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		29.98 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		4209.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		57.00 ft						
Tool Length:		85.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4182.00	
Shut In Tool	5.00			4187.00	
Hydraulic tool	5.00			4192.00	
Jars	5.00			4197.00	
Safety Joint	3.00			4200.00	
Packer	5.00			4205.00	28.00 Bottom Of Top Packer
Packer	4.00			4209.00	
Stubb	1.00			4210.00	
Perforations	5.00			4215.00	
Change Over Sub	1.00			4216.00	
Recorder	0.00	8372	Inside	4216.00	
Recorder	0.00	8321	Outside	4216.00	
Drill Pipe	32.00			4248.00	
Change Over Sub	1.00			4249.00	
Perforations	14.00			4263.00	
Bullnose	3.00			4266.00	57.00 Bottom Packers & Anchor
Total Tool Length:	85.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54886

DST#: 1

ATTN: Jason Alm

Test Start: 2014.01.08 @ 11:50:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 6.78 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOSM	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

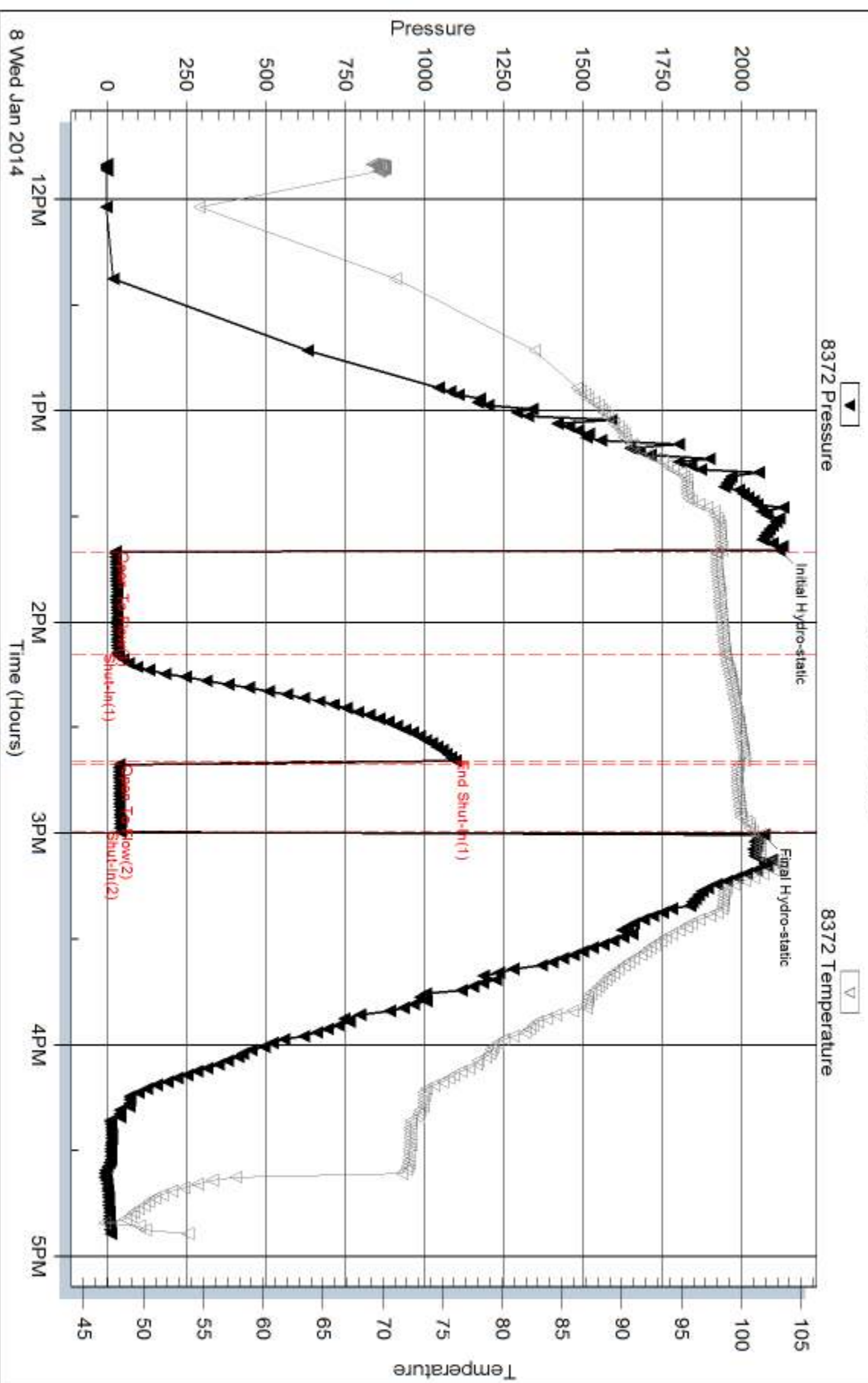
Inside

American Warrior Inc.

Fredericks #1-24

DST Test Number: 1

Pressure vs. Time



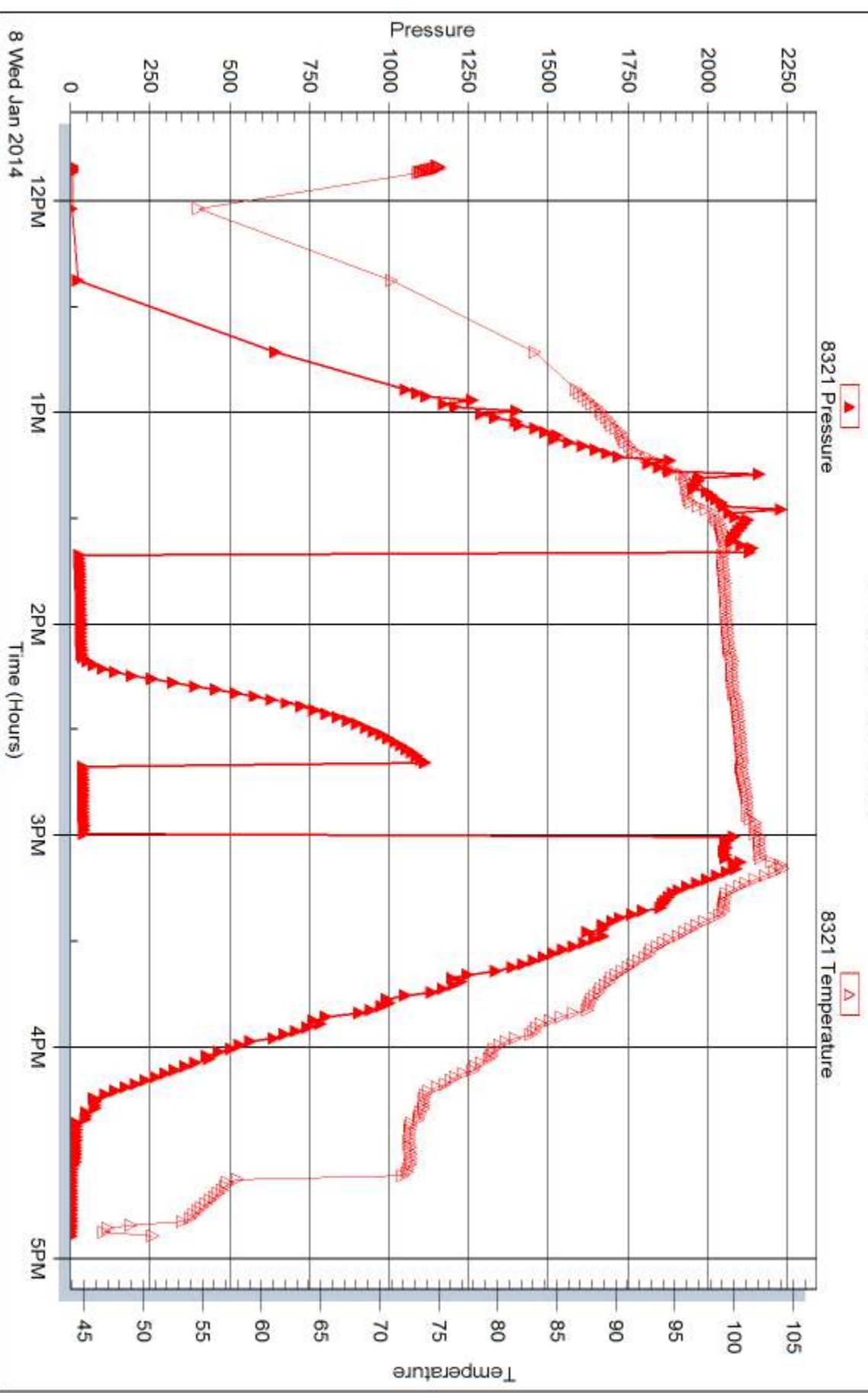
Serial #: 8321

Outside American Warrior Inc.

Fredericks #1-24

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **American Warrior inc.**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Fredericks #1-24

24-18s-22w Ness,KS

Start Date: 2014.01.09 @ 23:00:01

End Date: 2014.01.10 @ 04:39:30

Job Ticket #: 54887 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.10 @ 08:36:27



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54887

DST#: 2

ATTN: Jason Alm

Test Start: 2014.01.09 @ 23:00:01

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:36:30

Time Test Ended: 04:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 68

Interval: 4266.00 ft (KB) To 4275.00 ft (KB) (TVD)

Total Depth: 4275.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2175.00 ft (KB)

2169.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8372 Inside

Press@RunDepth: 236.04 psig @ 4267.00 ft (KB)

Start Date: 2014.01.09

End Date:

2014.01.10

Start Time: 23:00:01

End Time:

04:39:30

Capacity: 8000.00 psig

Last Calib.: 2014.01.09

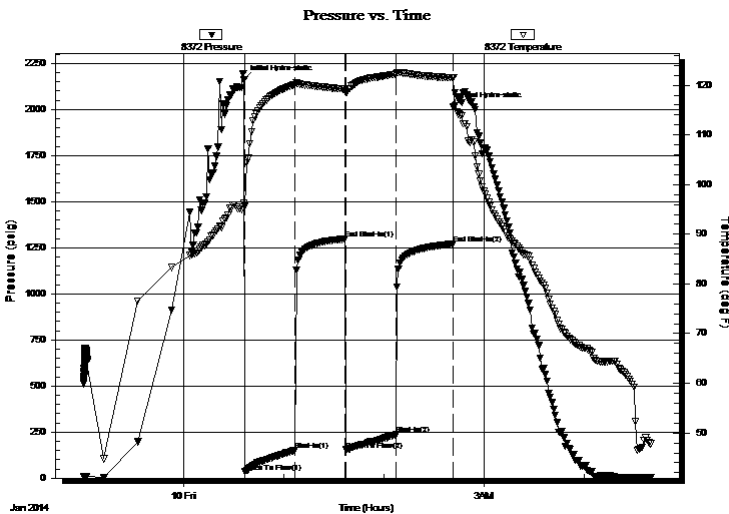
Time On Btm: 2014.01.10 @ 00:36:00

Time Off Btm: 2014.01.10 @ 02:41:30

TEST COMMENT: IF:(30min) BOB in 12 min.
ISl:(30min) No Return
FF:(30min) BOB in 15 min.
FSl:(30min) No Return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.04	96.20	Initial Hydro-static
1	33.41	95.65	Open To Flow (1)
31	150.47	120.14	Shut-In(1)
61	1297.92	119.22	End Shut-In(1)
61	153.43	118.51	Open To Flow (2)
91	236.04	122.23	Shut-In(2)
125	1270.93	121.48	End Shut-In(2)
126	2013.27	121.55	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
470.00	MW m=5% w=95%	5.51

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54887

DST#: 2

ATTN: Jason Alm

Test Start: 2014.01.09 @ 23:00:01

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:36:30

Time Test Ended: 04:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 68

Interval: 4266.00 ft (KB) To 4275.00 ft (KB) (TVD)

Total Depth: 4275.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2175.00 ft (KB)

2169.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8321 Outside

Press@RunDepth: psig @ 4267.00 ft (KB)

Start Date: 2014.01.09

End Date:

2014.01.10

Start Time: 23:00:01

End Time:

04:39:30

Capacity: 8000.00 psig

Last Calib.:

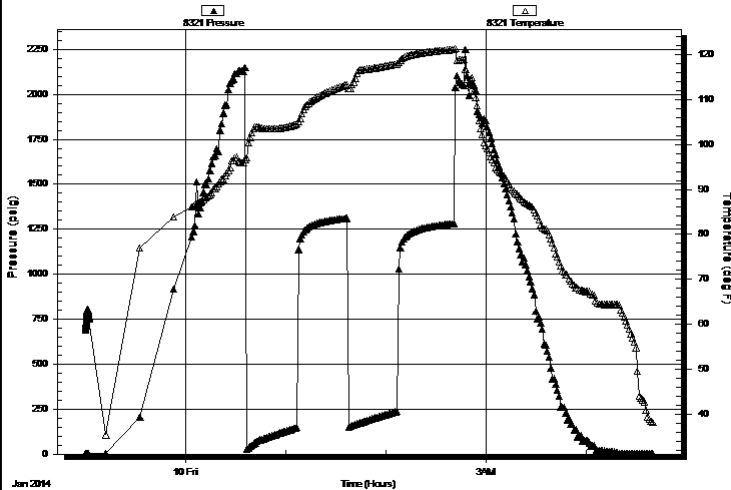
2014.01.09

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(30min) BOB in 12 min.
IS:(30min) No Return
FF:(30min) BOB in 15 min.
FS:(30min) No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
470.00	MW m=5% w=95%	5.51

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54887

DST#: 2

ATTN: Jason Alm

Test Start: 2014.01.09 @ 23:00:01

Tool Information

Drill Pipe:	Length:	4924.00 ft	Diameter:	3.80 inches	Volume:	69.07 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	118.98 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:	76000.00 lb
					Total Volume:	69.66 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		804.98 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		4266.00 ft					Final	67000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		9.00 ft						
Tool Length:		37.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4239.00	
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Jars	5.00			4254.00	
Safety Joint	3.00			4257.00	
Packer	5.00			4262.00	28.00 Bottom Of Top Packer
Packer	4.00			4266.00	
Stubb	1.00			4267.00	
Recorder	0.00	8372	Inside	4267.00	
Recorder	0.00	8321	Outside	4267.00	
Perforations	5.00			4272.00	
Bullnose	3.00			4275.00	9.00 Bottom Packers & Anchor

Total Tool Length: 37.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54887

DST#: 2

ATTN: Jason Alm

Test Start: 2014.01.09 @ 23:00:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 6.78 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 40000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
470.00	MW m=5% w =95%	5.509

Total Length: 470.00 ft

Total Volume: 5.509 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

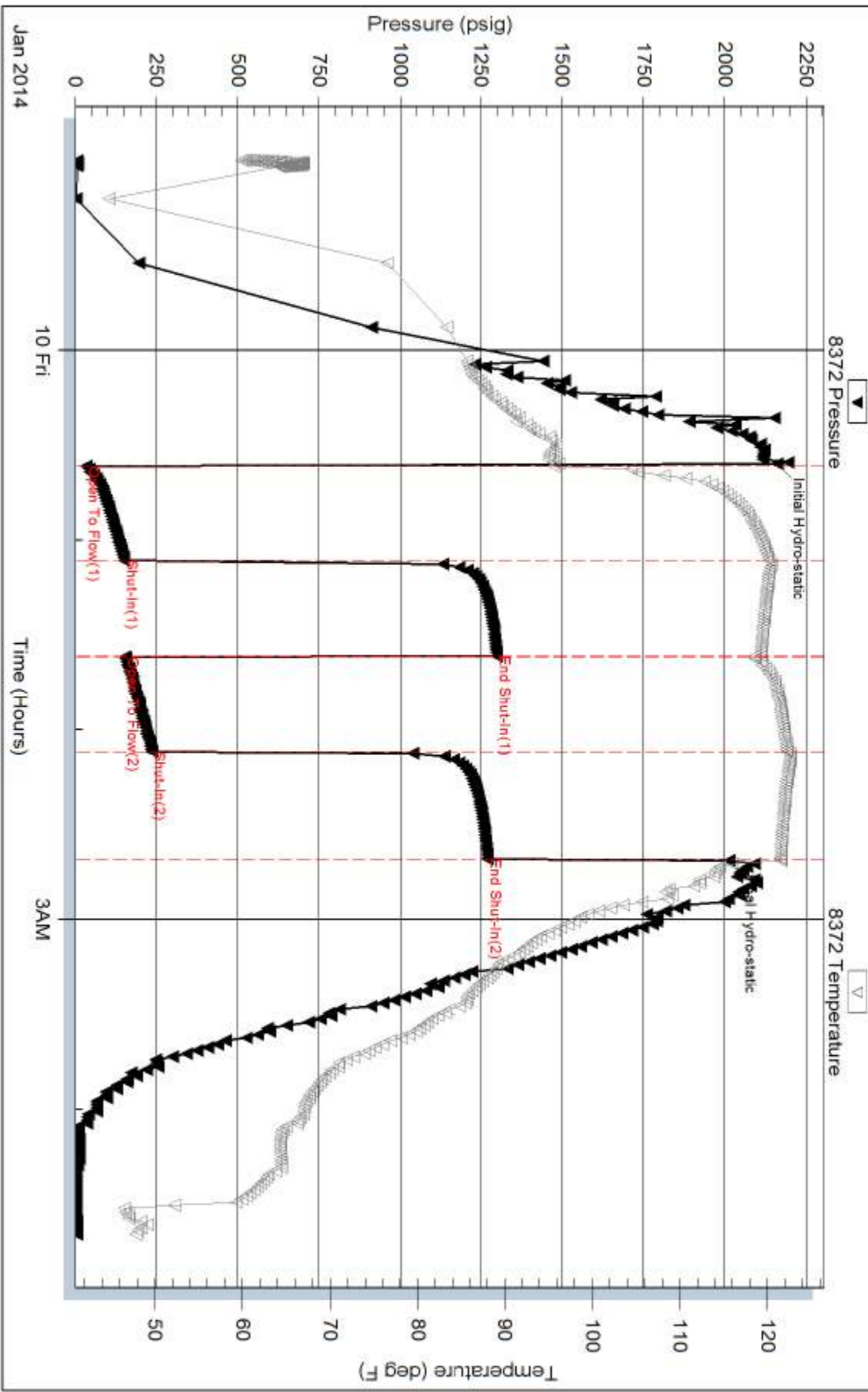
Inside

American Warrior Inc.

Fredericks #1-24

DST Test Number: 2

Pressure vs. Time

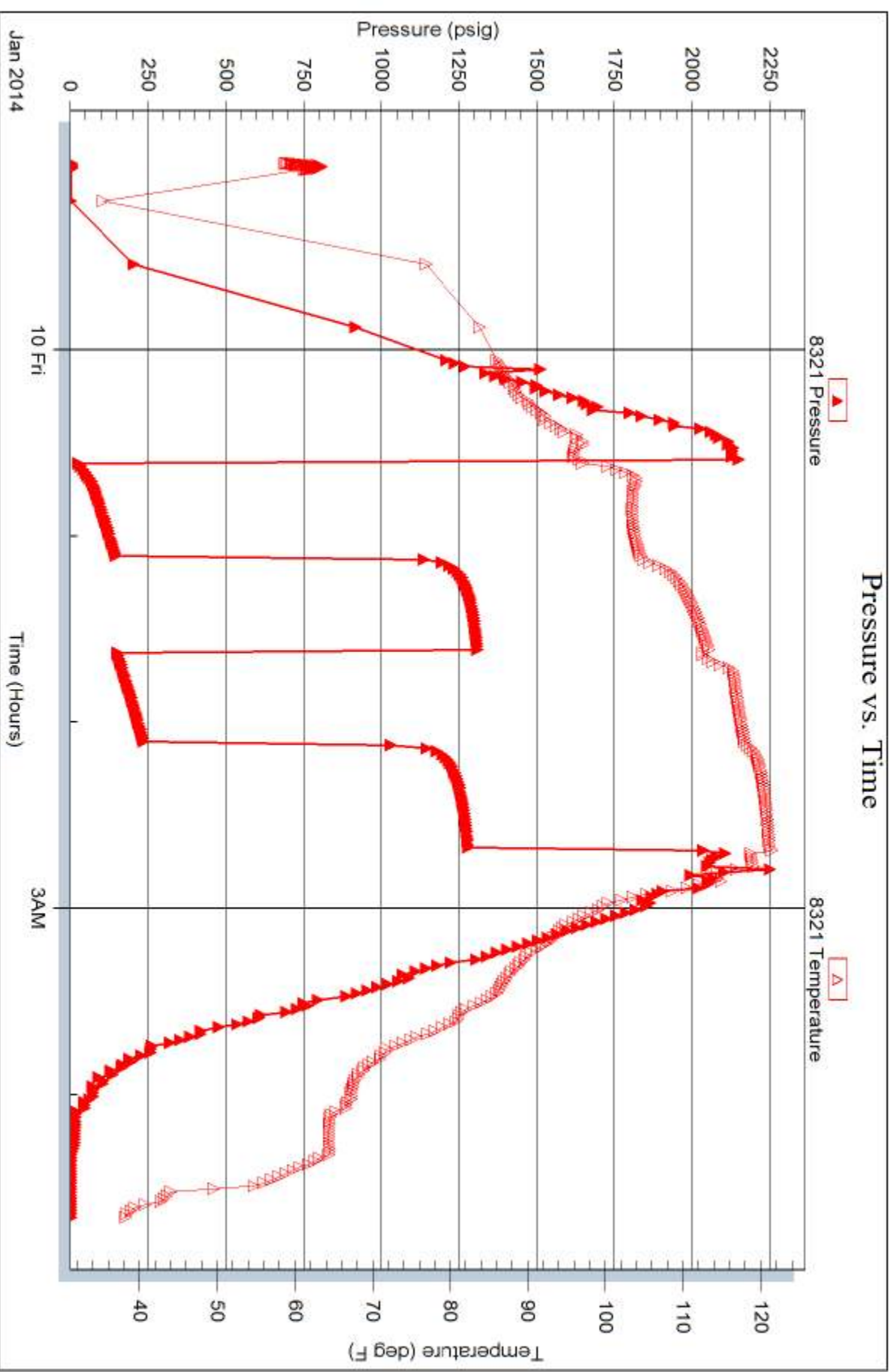


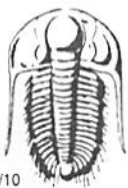
Serial #: 8321

Outside American Warrior Inc.

Fredericks #1-24

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54886**

Well Name & No. FREDERICKS #1-24 Test No. 1 Date 1-8-14
 Company AMERICAN WARRIOR INC. Elevation 2175 KB 2169 GL
 Address PO BOX 399 Garden City KS. 67846
 Co. Rep / Geo. JEFF ALM Rig PETROMARK RIG 1
 Location: Sec. 24 Twp. 18S Rge. 22W Co. NESS State KS.

Interval Tested 4209-4266 Zone Tested MISS
 Anchor Length 57' Drill Pipe Run 4092 Mud Wt. 9.3
 Top Packer Depth 4204 Drill Collars Run 118.98 Vis 66
 Bottom Packer Depth 4209 Wt. Pipe Run 0 WL 6.8
 Total Depth 4266 Chlorides 7000 ppm System LCM 0

Blow Description ISI: 2" blow
ISI: NO RETURN
FF: SURFACE blow - pull too
FSI:

Rec <u>10</u>	Feet of <u>505m</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2120
 (B) First Initial Flow 26
 (C) First Final Flow 33
 (D) Initial Shut-In 1098
 (E) Second Initial Flow 38
 (F) Second Final Flow 42
 (G) Final Shut-In _____
 (H) Final Hydrostatic 2070

☒ Test 1250
☒ Jars 250
☒ Safety Joint 75
☐ Circ Sub _____
☐ Hourly Standby _____
☒ Mileage 112RT 173.60
☐ Sampler _____
☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____
 Sub Total 1748.60

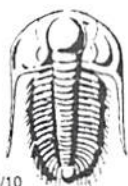
T-On Location 10:06
 T-Started 11:50
 T-Open 13:40
 T-Pulled 15:00
 T-Out 16:55
 Comments _____
☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
 Sub Total 0
 Total 1748.60
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 20
 Final Shut-In _____

Approved By _____

Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54887

Well Name & No. FREEDERICKS #1-24 Test No. 2 Date 1-8-14
 Company AMERICAN WARRIOR INC Elevation 2175 KB 2169 GL
 Address PO BOX 399 GARDEN CITY KS. 67846
 Co. Rep / Geo. JASON N/m Rig PETROMARK #1
 Location: Sec. 24 Twp. 18S Rge. 22W Co. NESS State Ks.

Interval Tested 4266-4275 Zone Tested MISSISSIPPIAN
 Anchor Length 9' Drill Pipe Run 4924 Mud Wt. 9.3
 Top Packer Depth 4261 Drill Collars Run 118.98 Vis 66
 Bottom Packer Depth 4266 Wt. Pipe Run 0 WL 6.8
 Total Depth 4275 Chlorides 7000 ppm System LCM 0

Blow Description IFI BOB IN 12 MIN
ISI: NO RETURN
FFI BOB IN 15 MIN
FSI: NO RETURN

Rec <u>470</u>	Feet of <u>MW</u>	%gas	%oil	<u>95</u> %water	<u>5</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 470 BHT 121° Gravity _____ API RW .34 @ 34° F Chlorides 40000 ppm
 (A) Initial Hydrostatic 2162 ☒ Test 1250 T-On Location 21:45
 (B) First Initial Flow 33 ☒ Jars 250 T-Started 23:00
 (C) First Final Flow 150 ☒ Safety Joint 75 T-Open 00:37
 (D) Initial Shut-In 1297 ☐ Circ Sub _____ T-Pulled 02:37
 (E) Second Initial Flow 153 ☐ Hourly Standby _____ T-Out 04:40
 (F) Second Final Flow 230 ☒ Mileage 112RT 173.60
 (G) Final Shut-In 1270 ☐ Sampler _____
 (H) Final Hydrostatic 2013 ☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____

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

☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
 Sub Total 0
 Total 1748.60

Approved By _____

Our Representative _____

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.