



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1095068

Form ACO-1

June 2009

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
- ☐ Conv. to GSW
- ☐ Plug Back: _____ Plug Back Total Depth _____
- ☐ 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

☐ Letter of Confidentiality Received

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____



1095068

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

 Drill Stem Tests Taken ☐ Yes ☐ No
 (Attach Additional Sheets)

 Samples Sent to Geological Survey ☐ Yes ☐ No

 Cores Taken ☐ Yes ☐ No

 Electric Log Run ☐ Yes ☐ No

 Electric Log Submitted Electronically ☐ Yes ☐ No
 (If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample
 Name Top Datum
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				

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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled (Submit ACO-5) (Submit ACO-4) ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	DLM 1-17
Doc ID	1095068

Tops

Name	Top	Datum
Anhydrite	1537	705
Heebner	3684	-1442
Lansing	3728	-1486
Base Kansas City	4037	-1795
Pawnee	4122	-1880
Ft. Scott	4215	-1973
Cherokee	4235	-1993
Mississippian	4316	-2074
TD	4350	-2108

ALLIED CEMENTING CO., LLC. 042517

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Great Bend

DATE 5-30-12	SEC. 17	TWP. 18S	RANGE 22W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE 0.1M	WELL# 1-17	LOCATION Bazire 4 west To 2	COUNTY NESS	STATE KS			
OLD OR <u>NEW</u> (Circle one)			No. 12 To 160 1/2 west South 1/2				

CONTRACTOR Duke R. 25	
TYPE OF JOB Surface	
HOLE SIZE 12 1/4	T.D. 223
CASING SIZE 8 3/8	DEPTH 222
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. 15	
PERFS.	
DISPLACEMENT 13 BBLS	
EQUIPMENT	

PUMP TRUCK	CEMENTER Wayne
# 224	HELPER John
BULK TRUCK	
# 982/241	DRIVER Henry
BULK TRUCK	
#	DRIVER

REMARKS:

Pipe on Bottom Break
Circulation with Rig mud
Run 3 BBLS water Ahead
Mix 150SX Class A + 3% + 2% Gel
Displace 13 BBLS fresh water.
Shut in
Cement did circulate

CHARGE TO: American		
STREET		
CITY	STATE	ZIP

To Allied Cementing Co., 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 KENNETH M'GURE
SIGNATURE Kenneth M'Gure

OWNER	
CEMENT	
AMOUNT ORDERED 150SX Class A + 3% + 2% Gel	
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
	@
	@
	@
	@
	@
	@
	@
HANDLING	@
MILEAGE	@
TOTAL	

SERVICE

DEPTH OF JOB	222
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 053651

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend, KS

DATE <u>6-5-12</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>UCM</u>	WELL # <u>1-17</u>	LOCATION <u>Razie, KS 4 West</u>			COUNTY <u>Ness</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>2 North, 1/2 East, South into</u>				

CONTRACTOR <u>Duke #5</u>	
TYPE OF JOB <u>Rotary Plug</u>	
HOLE SIZE <u>7 1/8</u>	T.D. <u>4350</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

EQUIPMENT

PUMP TRUCK # <u>224</u>	CEMENTER <u>Greg A</u>
	HELPER <u>Kerry R</u>
BULK TRUCK # <u>482-271</u>	DRIVER <u>Kevin W</u>
BULK TRUCK #	DRIVER

REMARKS:

1st plug mix 50 sk @ 1560 ft
2nd plug mix 50 sk @ 810 ft
3rd plug mix 50 sk @ 240 ft
4th plug mix 50 sk @ 60 ft
Mix 50 sks in xother
Mix 50 sks in mouse hole

CHARGE TO: American Warrior

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 KENNETH M'GUIRE

SIGNATURE Kenneth M'Guire

Thank You!

OWNER <u>American Warrior</u>
CEMENT
AMOUNT ORDERED <u>250 sks 60/40 per</u>
<u>40% gel 1/4 #10991</u>

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

Geological Report

American Warrior, Inc.

DLM #1-17

1220' FNL & 2277' FEL

Sec. 17 T18s R22w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. DLM #1-17 1220' FNL & 2277' FEL Sec. 17 T18s R22w Ness County, Kansas API # 15-135-25395-0000
Drilling Contractor:	Duke Drilling Co. Inc. Rig #5
Geologist:	Jason T Alm
Spud Date:	May 29, 2012
Completion Date:	June 5, 2012
Elevation:	2231' Ground Level 2242' Kelly Bushing
Directions:	Bazine KS, West on Hwy 96 to Z Rd. North 4 mi. West ½ mi. South into location.
Casing:	221' 8 5/8" surface casing
Samples:	10' wet and dry, 3600' to RTD
Drilling Time:	3600' to RTD
Electric Logs:	None
Drillstem Tests:	Two, Trilobite Testing, Inc. "Brett Dickinson"
Problems:	None
Remarks:	None

Formation Tops

	American Warrior, Inc. DLM #1-17 Sec. 17 T18s R22w 1220' FNL & 2277' FEL
Formation	
Anhydrite	1537', +705
Base	1578', +664
Heebner	3684', -1442
Lansing	3728', -1486
BKc	4037', -1795
Pawnee	4122', -1880
Fort Scott	4215', -1973
Cherokee	4235', -1993
Basil Cher. Sand	4295', -2053
Mississippian	4316', -2074
Osage	4343', -2101
RTD	4350', -2108

Sample Zone Descriptions

Fort Scott	(4215', -1973): Covered in DST #1 Ls – Fine crystalline, oolitic with fair oomoldic and inter-crystalline porosity, light to fair oil stain in porosity, show of free oil, fair odor, bright yellow fluorescents, 22 units hotwire.
Basil Cher. Sand	(4295', -2053): Covered in DST #2 Ss – Quartz, fine to very fine grained, well sorted, sub-angular, well cemented with very poor inter-granular porosity, light spotted oil stain, no show of free oil, no odor, dull yellow fluorescents, friable in part.

Drill Stem Tests

Trilobite Testing, Inc.

“Brett Dickinson”

DST #1

Fort Scott

Interval (4190' – 4248') Anchor Length 58'

IHP – 2083 #	
IFP – 45" – B.O.B. 43 min.	24-41 #
ISI – 45" – Dead	913 #
FFP – 45" – B.O.B. 23 min.	41-64 #
FSI – 45" – Dead	805 #
FHP – 2039 #	
BHT – 118°F	

Recovery: 417' GIP
 60' GOCM 10% Oil
 15' GOCM 20% Oil

DST #2

Basil Cherokee Sand

Interval (4284' – 4335') Anchor Length 49'

IHP – 2146 #	
IFP – 30" – W.S.B.	26-28 #
ISI – 30" – Dead	54 #
FFP – 10" – Dead	28-29 #
FHP – 2092 #	
BHT – 116°F	

Recovery: 8' SOCM 2% Oil

Structural Comparison

Formation	American Warrior, Inc. DLM #1-17 Sec. 17 T18s R22w 1220' FNL & 2277' FEL	Mull Drilling Co. Inc. Moore Trust #1-17 Sec. 17 T18s R22w 1086' FNL & 2114' FWL		Icer Addis Strecker #1 Sec. 17 T18s R22w C NW SW	
Anhydrite	1537', +705	NA	NA	NA	NA
Base	1578', +664	NA	NA	NA	NA
Heebner	3684', -1442	3684', -1440	(-2)	NA	NA
Lansing	3728', -1486	3728', -1484	(-2)	NA	NA
BKc	4037', -1795	NA	NA	NA	NA
Pawnee	4122', -1880	4121', -1877	(-3)	4170', -1883	(+3)
Fort Scott	4215', -1973	4214', -1970	(-3)	4264', -1977	(+4)
Cherokee	4235', -1993	4232', -1988	(-5)	NA	NA
Basil Cher Sand	4295', -2053	4293', -2049	(-4)	NA	NA
Mississippian	4316', -2074	4319', -2075	(+1)	4352', -2065	(-9)
Osage	4343', -2101	4343', -2099	(-2)	4373', -2086	(-15)

Summary

The location for the DLM #1-17 was found via 3-D seismic survey. The new well ran structurally as 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 DLM #1-17 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



on

[illegible]

Record	
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surveys

Z

None

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uct Comp
NA

NA
-2

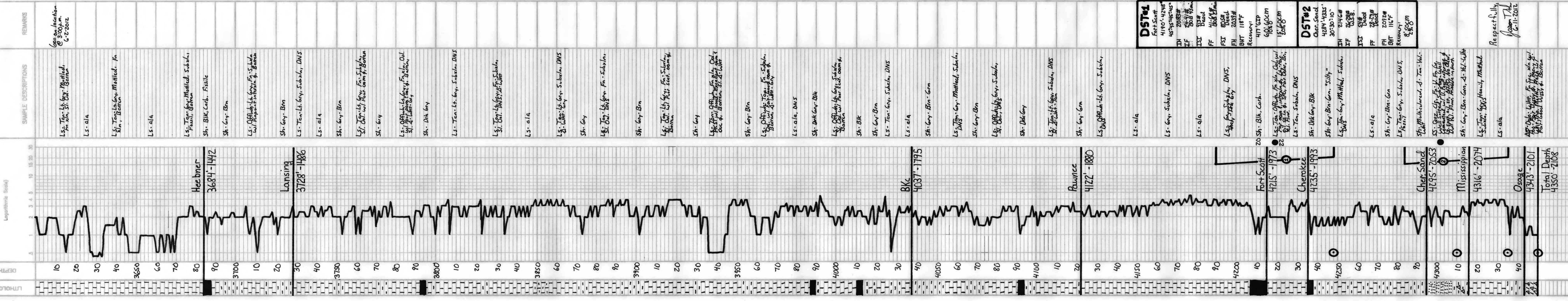
-2
NA

-5	
-5	

-4

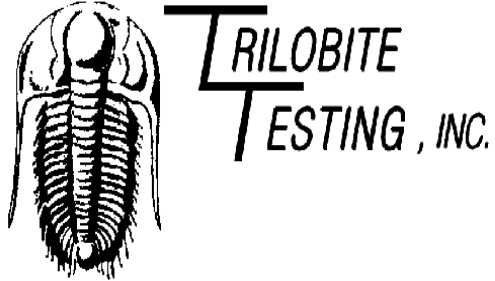
-2

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DST#2	Chr. Sand	4289'-4335'	30°30'10"
IH	214C#		
IF	2628#		
ISI	54#	Deag	
FF	28-29#	Deag	
FH	2022#		
GHT	116'-F		
Recovery:			8' 50cm
			2 1/2

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DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, Ks 67846

ATTN: Jason Alm

DLM #1-17

17-18s-22w Ness,KS

Start Date: 2012.06.03 @ 01:07:15

End Date: 2012.06.03 @ 08:51:45

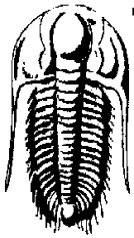
Job Ticket #: 47246 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.06 @ 11:22:55



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399
Garden City, Ks 67846

ATTN: Jason Alm

17-18s-22w Ness, KS

DLM #1-17

Job Ticket: 47246

DST#: 1

Test Start: 2012.06.03 @ 01:07:15

GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:29:45

Time Test Ended: 08:51:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 4190.00 ft (KB) To 4248.00 ft (KB) (TVD)

Reference Elevations: 2242.00 ft (KB)

Total Depth: 4248.00 ft (KB) (TVD)

2231.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8354 Inside

Press@RunDepth: 64.48 psig @ 4230.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.03

End Date:

2012.06.03

Last Calib.: 2012.06.04

Start Time: 01:17:15

End Time:

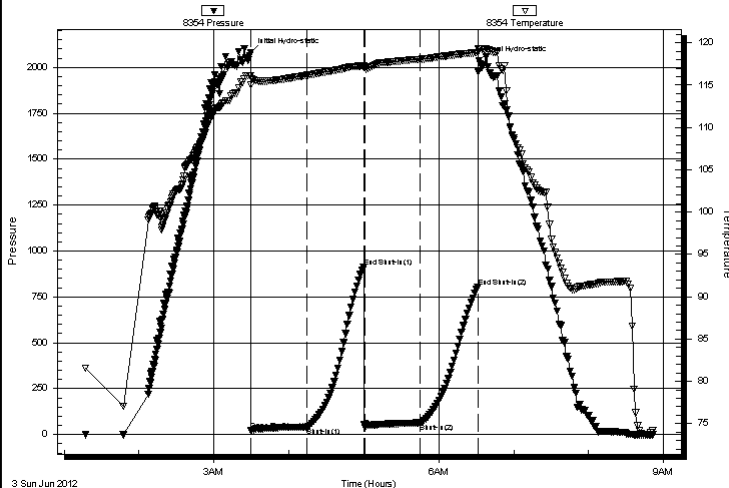
08:51:45

Time On Btm: 2012.06.03 @ 03:29:15

Time Off Btm: 2012.06.03 @ 06:32:15

TEST COMMENT: IF-Very weak building blow . BOB in 43 minutes.
ISI-No Return.
FF-Weak building blow . BOB in 23 minutes 30 seconds.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

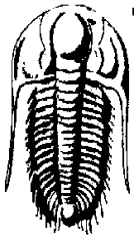
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2082.50	116.12	Initial Hydro-static
1	24.03	115.08	Open To Flow (1)
46	41.44	116.18	Shut-In(1)
91	913.33	117.30	End Shut-In(1)
92	41.43	117.12	Open To Flow (2)
136	64.48	118.05	Shut-In(2)
182	805.36	118.84	End Shut-In(2)
183	2038.75	119.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	10%Gas/10%Oil/80%Mud	0.30
15.00	50%Gas/20%Oil/30%Mud	0.07
0.00	417' G.I.P.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399
Garden City, Ks 67846

ATTN: Jason Alm

17-18s-22w Ness, KS

DLM #1-17

Job Ticket: 47246

DST#: 1

Test Start: 2012.06.03 @ 01:07:15

GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:29:45

Time Test Ended: 08:51:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 4190.00 ft (KB) To 4248.00 ft (KB) (TVD)

Total Depth: 4248.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2242.00 ft (KB)

2231.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8520 Outside

Press@RunDepth: psig @ 4230.00 ft (KB)

Start Date: 2012.06.03

End Date:

2012.06.03

Start Time: 01:17:30

End Time:

08:51:00

Capacity: 8000.00 psig

Last Calib.:

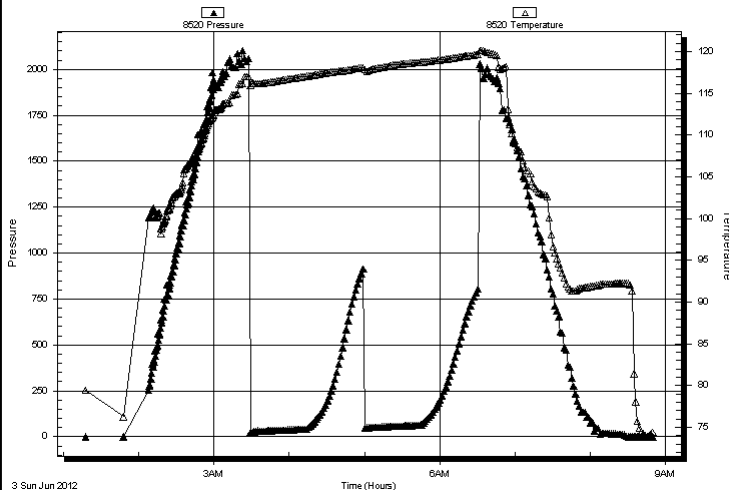
2012.06.04

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Very weak building blow . BOB in 43 minutes.
ISI-No Return.
FF-Weak building blow . BOB in 23 minutes 30 seconds.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

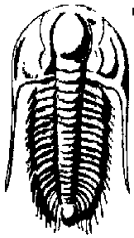
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
60.00	10%Gas/10%Oil/80%Mud	0.30
15.00	50%Gas/20%Oil/30%Mud	0.07
0.00	417' G.I.P.	0.00

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.

17-18s-22w Ness, KS

PO Box 399
Garden City, Ks 67846

DLM #1-17

Job Ticket: 47246

DST#: 1

ATTN: Jason Alm

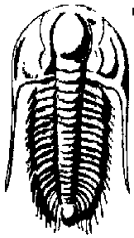
Test Start: 2012.06.03 @ 01:07:15

Tool Information

Drill Pipe:	Length:	3920.00 ft	Diameter:	3.80 inches	Volume:	54.99 bbl	Tool Weight:	3000.00 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:	269.00 ft	Diameter:	2.25 inches	Volume:	1.32 bbl	Weight to Pull Loose:	5000.00 lb
					Total Volume:	56.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight: Initial	73000.00 lb
Depth to Top Packer:		4190.00 ft					Final	75000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		58.00 ft						
Tool Length:		86.00 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			4163.00	
Shut In Tool	5.00			4168.00	
Hydraulic tool	5.00			4173.00	
Jars	5.00			4178.00	
Safety Joint	3.00			4181.00	
Packer	5.00			4186.00	28.00 Bottom Of Top Packer
Packer	4.00			4190.00	
Stubb	1.00			4191.00	
Perforations	5.00			4196.00	
Change Over Sub	1.00			4197.00	
Drill Pipe	32.00			4229.00	
Change Over Sub	1.00			4230.00	
Recorder	0.00	8354	Inside	4230.00	
Recorder	0.00	8520	Outside	4230.00	
Perforations	15.00			4245.00	
Bullnose	3.00			4248.00	58.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-18s-22w Ness, KS

PO Box 399
Garden City, Ks 67846

DLM #1-17

Job Ticket: 47246

DST#: 1

ATTN: Jason Alm

Test Start: 2012.06.03 @ 01:07:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 9.15 in³

Resistivity: ohm.m

Salinity: 4500.00 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
60.00	10%Gas/10%Oil/80%Mud	0.295
15.00	50%Gas/20%Oil/30%Mud	0.074
0.00	417' G.I.P.	0.000

Total Length: 75.00 ft

Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

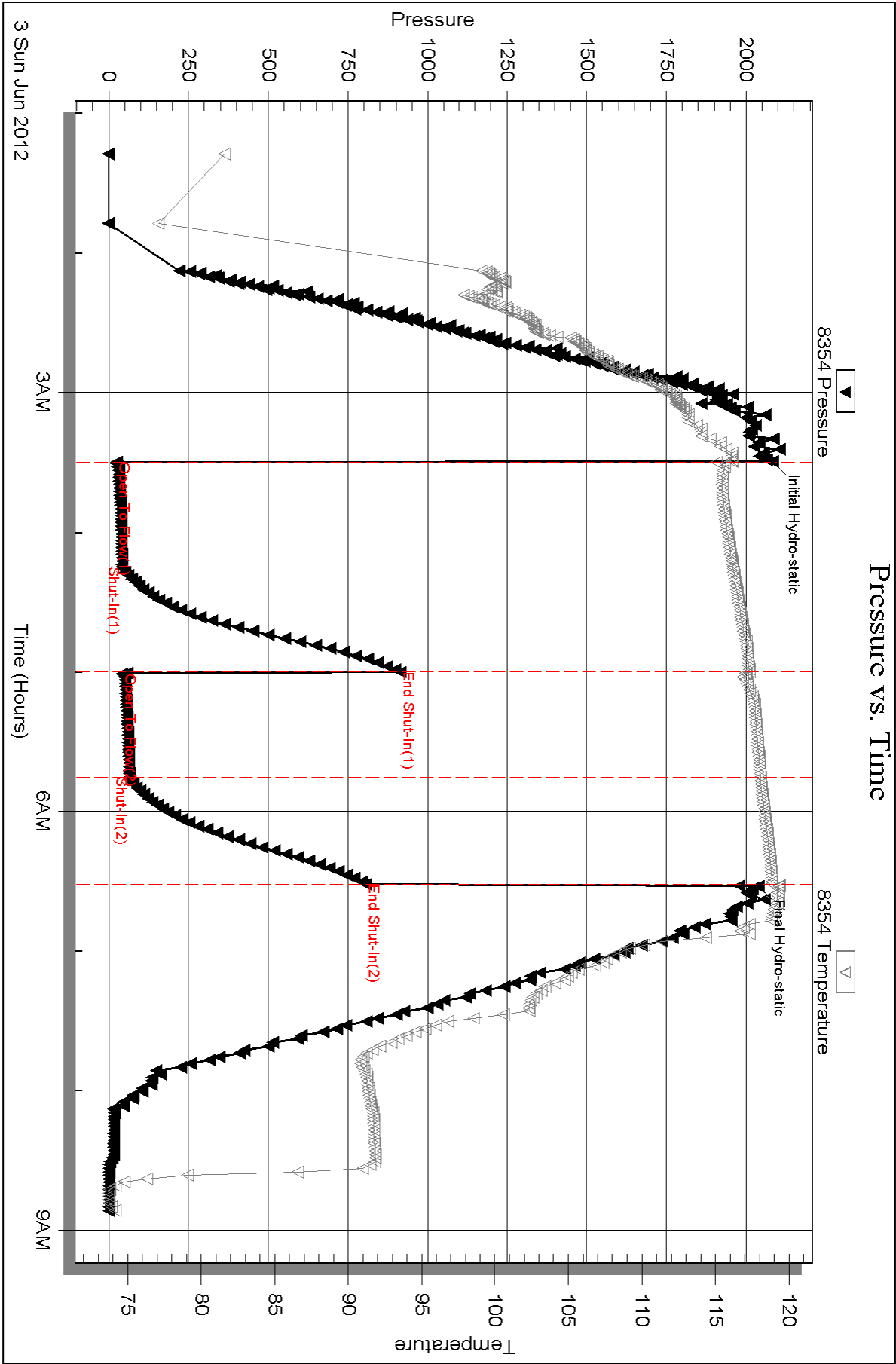
Serial #: 8354

Inside

American Warrior, Inc.

DLM#1-17

DST Test Number: 1

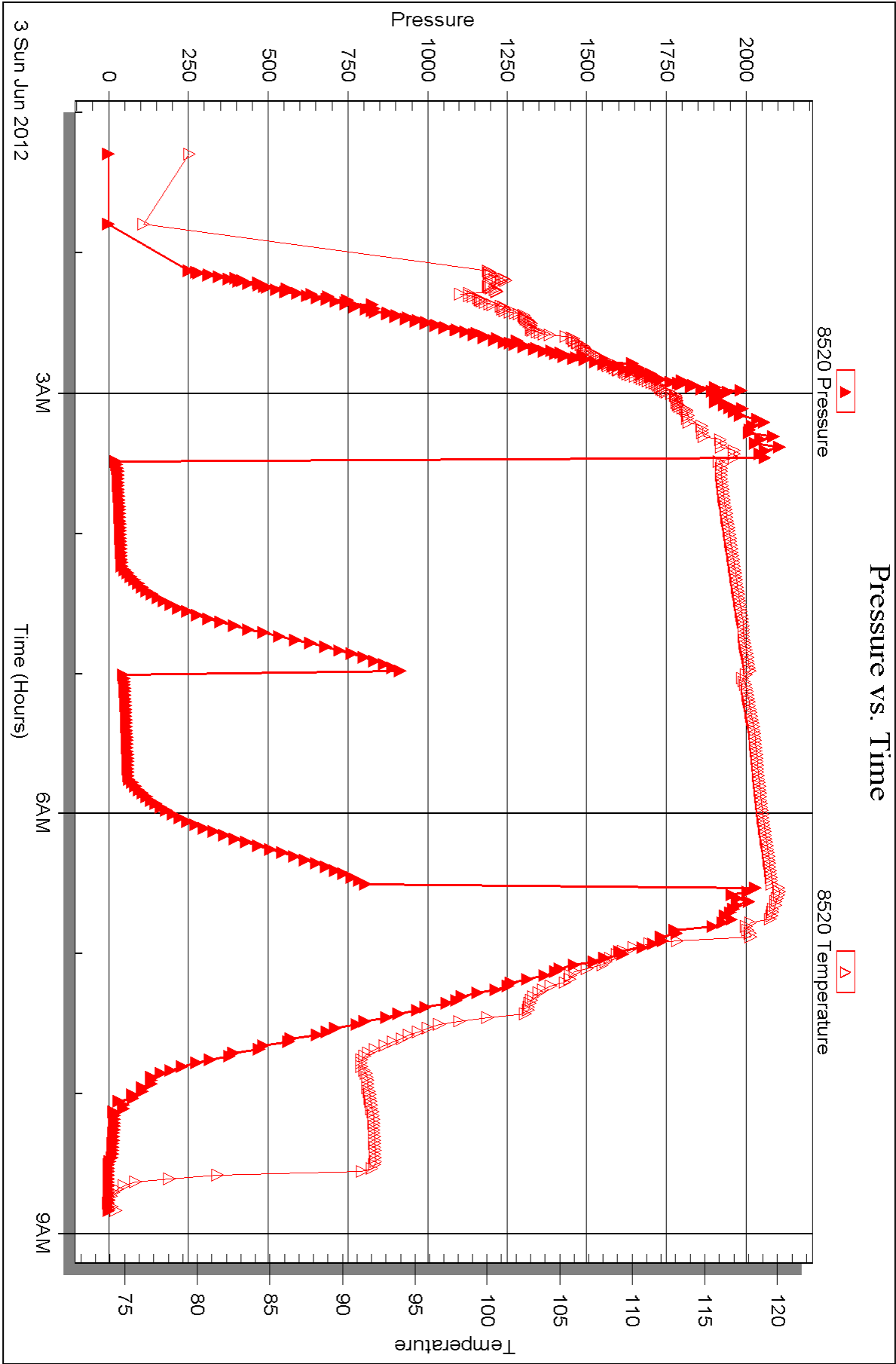


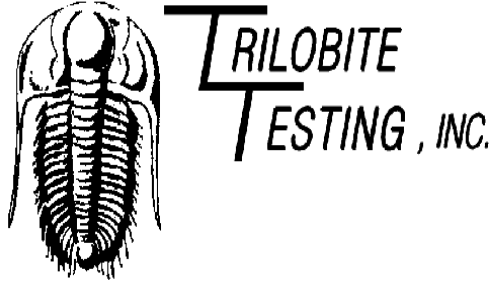
Serial #: 8520

Outside American Warrior, Inc.

DLM#1-17

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, Ks 67846

ATTN: Jason Alm

DLM #1-17

17-18s-22w Ness,KS

Start Date: 2012.06.04 @ 19:53:30

End Date: 2012.06.05 @ 01:39:30

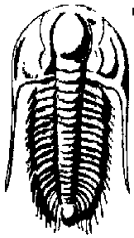
Job Ticket #: 47247 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.06 @ 11:22:02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399
Garden City, Ks 67846

ATTN: Jason Alm

17-18s-22w Ness, KS

DLM #1-17

Job Ticket: 47247

DST#: 2

Test Start: 2012.06.04 @ 19:53:30

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:26:30

Time Test Ended: 01:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 4284.00 ft (KB) To 4335.00 ft (KB) (TVD)

Reference Elevations: 2242.00 ft (KB)

Total Depth: 4335.00 ft (KB) (TVD)

2231.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8354 Inside

Press@RunDepth: 28.77 psig @ 4331.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.04

End Date:

2012.06.05

Last Calib.: 2012.06.05

Start Time: 20:03:30

End Time:

01:39:30

Time On Btm: 2012.06.04 @ 22:25:30

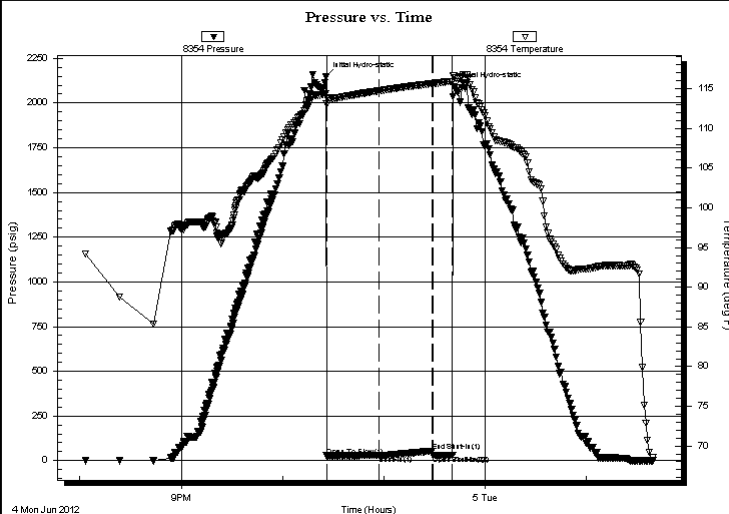
Time Off Btm: 2012.06.04 @ 23:41:30

TEST COMMENT: IF-Weak surface blow . Died @ 5 minutes 30 seconds.

ISI-No Return.

FF-No Blow . Pulled Tool.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.86	114.38	Initial Hydro-static
1	26.27	113.88	Open To Flow (1)
32	28.77	114.73	Shut-In(1)
63	54.46	115.65	End Shut-In(1)
64	28.72	115.65	Open To Flow (2)
75	29.49	115.93	Shut-In(2)
76	2092.44	116.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	2%Oil/98%Mud	0.04

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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American Warrior, Inc.

ATTN: Jason Alm

DLM #1-17

DST#: 2

Test Start: 2012.06.04 @ 19:53:30

KB to GR/CF: 11.00 ft

Time Off Btm:

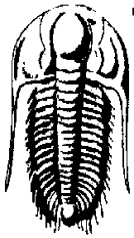
FF-No Blow . Pulled Tool.



Recovery

Gas Rates

Printed: 2012.06.06 @ 11:22:02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

17-18s-22w Ness, KS

PO Box 399
Garden City, Ks 67846

DLM #1-17

Job Ticket: 47247

DST#: 2

ATTN: Jason Alm

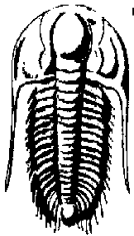
Test Start: 2012.06.04 @ 19:53:30

Tool Information

Drill Pipe:	Length:	4014.00 ft	Diameter:	3.80 inches	Volume:	56.31 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	269.00 ft	Diameter:	2.25 inches	Volume:	1.32 bbl	Weight to Pull Loose:	8000.00 lb
					Total Volume:	57.63 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight: Initial	75000.00 lb
Depth to Top Packer:		4284.00 ft					Final	75000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		51.00 ft						
Tool Length:		79.00 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			4257.00	
Shut In Tool	5.00			4262.00	
Hydraulic tool	5.00			4267.00	
Jars	5.00			4272.00	
Safety Joint	3.00			4275.00	
Packer	5.00			4280.00	28.00 Bottom Of Top Packer
Packer	4.00			4284.00	
Stubb	1.00			4285.00	
Perforations	13.00			4298.00	
Change Over Sub	1.00			4299.00	
Drill Pipe	31.00			4330.00	
Change Over Sub	1.00			4331.00	
Recorder	0.00	8354	Inside	4331.00	
Recorder	0.00	8520	Outside	4331.00	
Perforations	1.00			4332.00	
Bullnose	3.00			4335.00	51.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-18s-22w Ness, KS

PO Box 399
Garden City, Ks 67846

DLM #1-17

Job Ticket: 47247

DST#: 2

ATTN: Jason Alm

Test Start: 2012.06.04 @ 19:53:30

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 9.57 in³

Resistivity: ohm.m

Salinity: 5700.00 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
8.00	2%Oil/98%Mud	0.039

Total Length: 8.00 ft Total Volume: 0.039 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

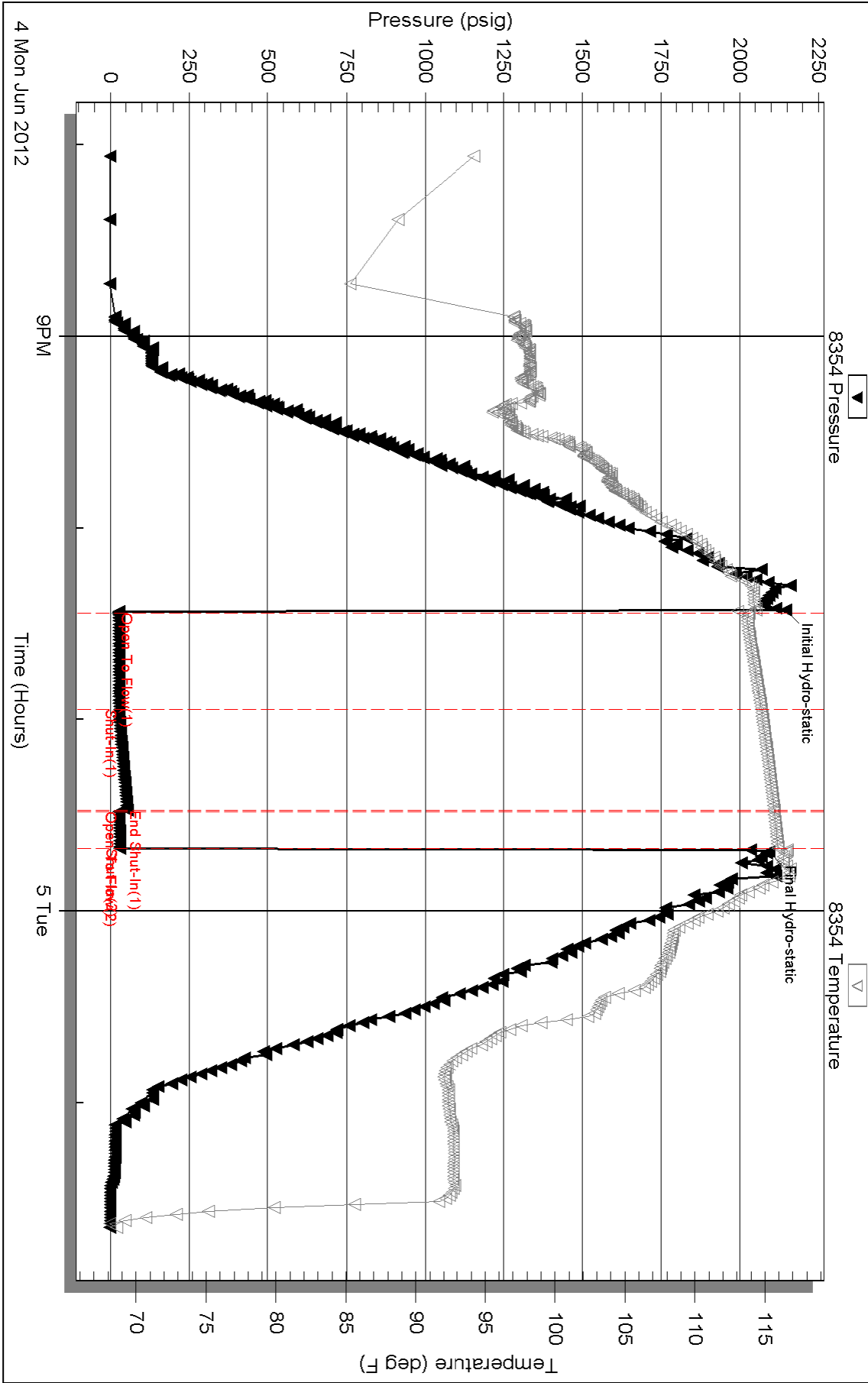
Inside

American Warrior, Inc.

DLM#1-17

DST Test Number: 2

Pressure vs. Time

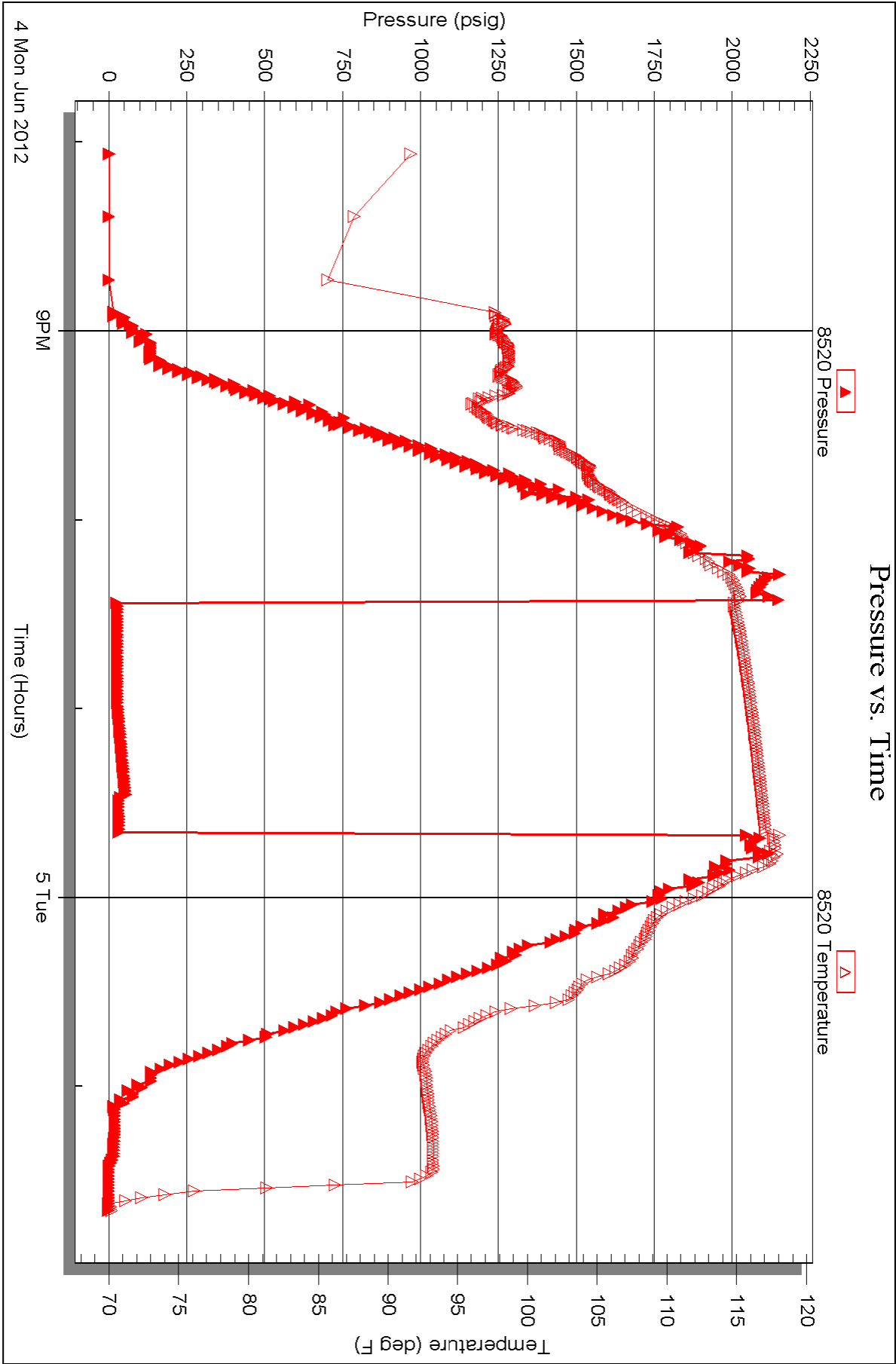


Serial #: 8520

Outside American Warrior, Inc.

DLM#1-17

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47246

Well Name & No. DLM #1-17 Test No. 7 Date 6-3-12
 Company American Warrior, Inc. Elevation 2242 KB 2231 GL
 Address P.O. Box 399 Golden City, KS 67846
 Co. Rep / Geo. Jason Alm Rig Duke #5
 Location: Sec. 17 Twp. 18S Rge. 22W Co. Ness State KS

Interval Tested 4190-4248 Zone Tested Fort Scott
 Anchor Length 58' Drill Pipe Run 3920 Mud Wt. 9.2
 Top Packer Depth 4185 Drill Collars Run 269.32 Vis 46
 Bottom Packer Depth 4190 Wt. Pipe Run 0 WL 9.2
 Total Depth 4248 Chlorides 4500 ppm System LCM TA

Blow Description IF - Very weak building blow, BOB in 43 minutes,
ISI - No Return,
EF - Weak building blow, BOB in 23 minutes 30 seconds,
FSI - No Return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>GOCM</u>	<u>50</u>	<u>20</u>	<u>30</u>	<u>0</u>
<u>60</u>	<u>GOCM</u>	<u>10</u>	<u>10</u>	<u>80</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec 75 Feet of 417' G.I.P. %gas %oil %water %mud

Rec Total 75 BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2083</u>	☒ Test 1250	T-On Location <u>2230</u>
(B) First Initial Flow <u>24</u>	☒ Jars 250	T-Started <u>0115</u>
(C) First Final Flow <u>41</u>	☒ Safety Joint 75	T-Open <u>0330</u>
(D) Initial Shut-In <u>913</u>	☐ Circ Sub	T-Pulled <u>0630</u>
(E) Second Initial Flow <u>41</u>	☐ Hourly Standby	T-Out <u>0900</u>
(F) Second Final Flow <u>64</u>	☒ Mileage <u>59X2</u> 182.90	Comments <u>BOT-0107</u>
(G) Final Shut-In <u>805</u>	☐ Sampler	
(H) Final Hydrostatic <u>2039</u>	☐ Straddle	

Initial Open 45 ☐ Ruined Shale Packer

Initial Shut-In 45 ☐ Ruined Packer

Final Flow 45 ☐ Extra Copies

Final Shut-In 45 ☐ Extra Recorder

☐ Day Standby

☐ Accessibility

Sub Total 1757.90

Approved By _____ Our Representative D. Rash

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47247

Well Name & No. DLM #1-17 Test No. 2 Date 6-4-12
 Company American Wellco, Inc. Elevation 2242 KB 2231 GL
 Address P.O. Box 399, Garden City, KS 67846
 Co. Rep / Geo. Jason Alm Rig Duke #5
 Location: Sec. 17 Twp. 18S Rge. 22W Co. Ness State KS

Interval Tested 4284-4335 Zone Tested Cherokee Sand
 Anchor Length 51 Drill Pipe Run 4014 Mud Wt. 9.3
 Top Packer Depth 4279 Drill Collars Run 269.32 Vis 55
 Bottom Packer Depth 4284 Wt. Pipe Run 0 WL 9.6
 Total Depth 4335 Chlorides 5700 ppm System LCM Fr

Blow Description IF-Weak surface blow. Died @ 5 minutes 30 seconds
ISI-No Return.
FF-No Blow. Pulled Tool.

Rec <u>8</u>	Feet of <u>Mud w/oil Specs</u>	%gas <u>2</u>	%oil	%water <u>98</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 8 BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2146 ☒ Test 1250 T-On Location 1915
 (B) First Initial Flow 26 ☒ Jars 250 T-Started 2030
 (C) First Final Flow 29 ☒ Safety Joint 75 T-Open 2228
 (D) Initial Shut-In 54 ☐ Circ Sub T-Pulled 2340
 (E) Second Initial Flow 29 ☐ Hourly Standby T-Out 0145
 (F) Second Final Flow ☒ Mileage 59X2 182.90 Comments Best-1953
 (G) Final Shut-In ☐ Sampler ☐ Ruined Shale Packer
 (H) Final Hydrostatic 2092 ☐ Straddle ☐ Ruined Packer
☐ Shale Packer ☐ Extra Copies
☐ Extra Packer ☐ Extra Recorder
☐ Extra Recorder Sub Total 0
☐ Day Standby Total 1757.90
☐ Accessibility MP/DST Disc't
 Sub Total 1757.90

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.