



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

Congdon #8-28

28-23s-32w Finney,KS

Start Date: 2014.03.19 @ 05:25:00

End Date: 2014.03.19 @ 14:42:15

Job Ticket #: 56453 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.21 @ 16:37:28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

28-23s-32w Finney, KS

Congdon #8-28

Job Ticket: 56453

DST#: 1

Test Start: 2014.03.19 @ 05:25:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:14:45

Time Test Ended: 14:42:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

Interval: 4483.00 ft (KB) To 4578.00 ft (KB) (TVD)

Reference Elevations: 2853.00 ft (KB)

Total Depth: 4578.00 ft (KB) (TVD)

2843.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press@RunDepth: 86.10 psig @ 4484.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.19

End Date:

2014.03.19

Last Calib.:

2014.03.19

Start Time: 05:25:15

End Time:

14:42:15

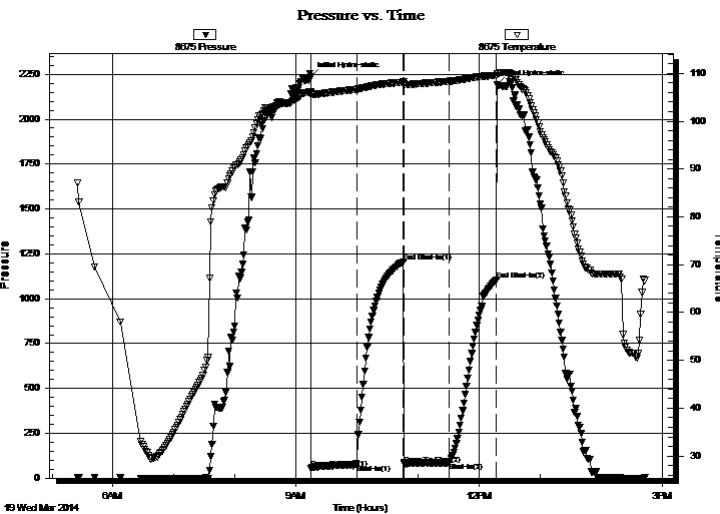
Time On Btm:

2014.03.19 @ 09:14:15

Time Off Btm:

2014.03.19 @ 12:17:15

TEST COMMENT: Built to 6" blow
 Bled off for 3 min. No return blow
 Built to 5 1/2" blow
 Bled off for 3 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.22	106.11	Initial Hydro-static
1	55.70	105.56	Open To Flow (1)
46	78.24	106.66	Shut-In(1)
91	1205.30	108.16	End Shut-In(1)
92	79.70	107.77	Open To Flow (2)
136	86.10	108.35	Shut-In(2)
183	1104.81	109.56	End Shut-In(2)
183	2192.94	109.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	100%Mud with oil scum	1.16

Gas Rates

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



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DRILL STEM TEST REPORT

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

28-23s-32w Finney, KS
Congdon #8-28
 Job Ticket: 56453 **DST#: 1**
 Test Start: 2014.03.19 @ 05:25:00

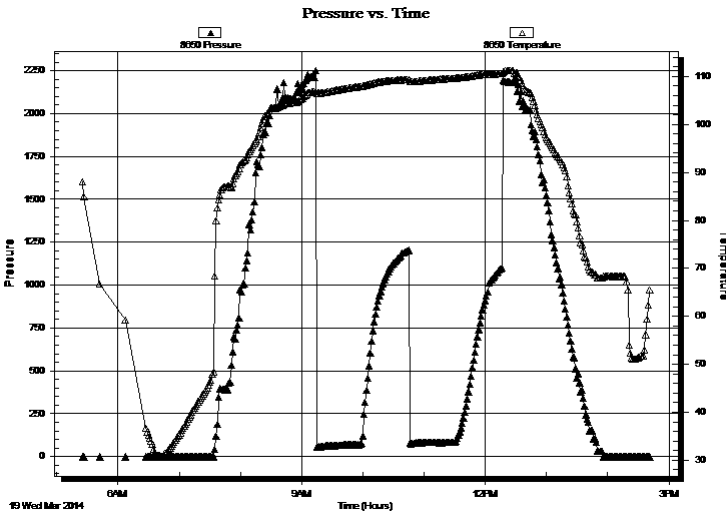
GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:14:45 Tester: Jace McKinney
 Time Test Ended: 14:42:15 Unit No: 75
 Interval: **4483.00 ft (KB) To 4578.00 ft (KB) (TVD)** Reference Elevations: 2853.00 ft (KB)
 Total Depth: 4578.00 ft (KB) (TVD) 2843.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8650

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.19 End Date: 2014.03.19 Last Calib.: 2014.03.19
 Start Time: 05:25:15 End Time: 14:42:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: Built to 6" blow
 Bled off for 3 min. No return blow
 Built to 5 1/2" blow
 Bled off for 3 min. No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
140.00	100%Mud with oil scum	1.16

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

28-23s-32w Finney,KS
Congdon #8-28
Job Ticket: 56453 **DST#: 1**
Test Start: 2014.03.19 @ 05:25:00

Tool Information

Drill Pipe:	Length: 4398.36 ft	Diameter: 3.80 inches	Volume: 61.70 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 88.36 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose:	86000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.22 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4483.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	95.00 ft				
Tool Length:	122.50 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			4456.50	
Shut In Tool	5.00		Inside	4461.50	
hydraulic tool	5.00			4466.50	
Jars	5.00			4471.50	
Safety Joint	2.50			4474.00	
Packer	5.00			4479.00	27.50 Bottom Of Top Packer
Packer	4.00			4483.00	
Stubb	1.00			4484.00	
Recorder	0.00	8675	Inside	4484.00	
recorder	0.00	8650	Outside	4484.00	
Perforations	26.00		Outside	4510.00	
change Over Sub	1.00		Outside	4511.00	
drill Pipe	63.00			4574.00	
Change Over Sub	1.00			4575.00	
Bullnose	3.00			4578.00	95.00 Bottom Packers & Anchor

Total Tool Length: 122.50



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

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

28-23s-32w Finney,KS
Congdon #8-28
Job Ticket: 56453 **DST#: 1**
Test Start: 2014.03.19 @ 05:25:00

Mud and Cushion Information

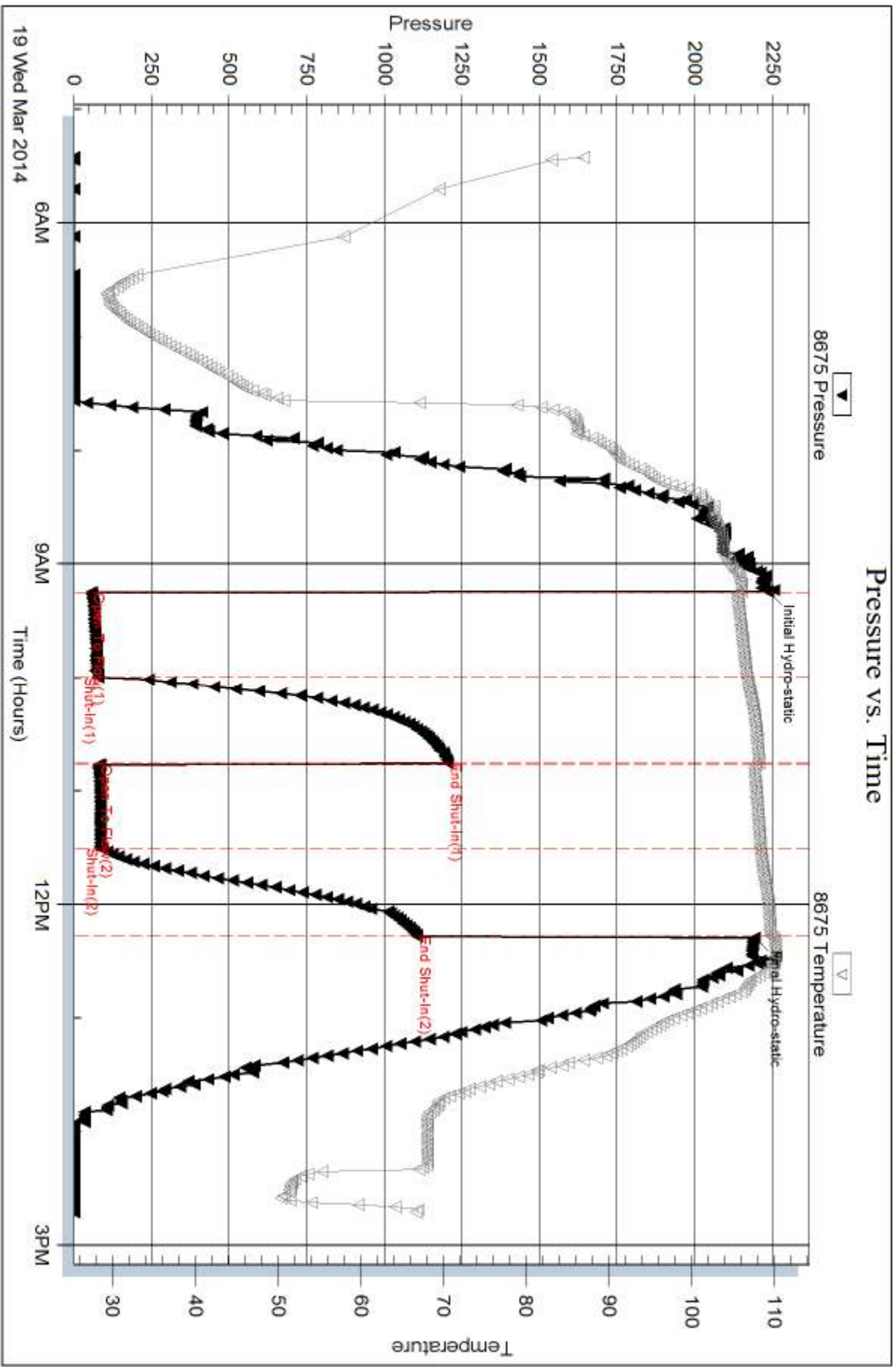
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

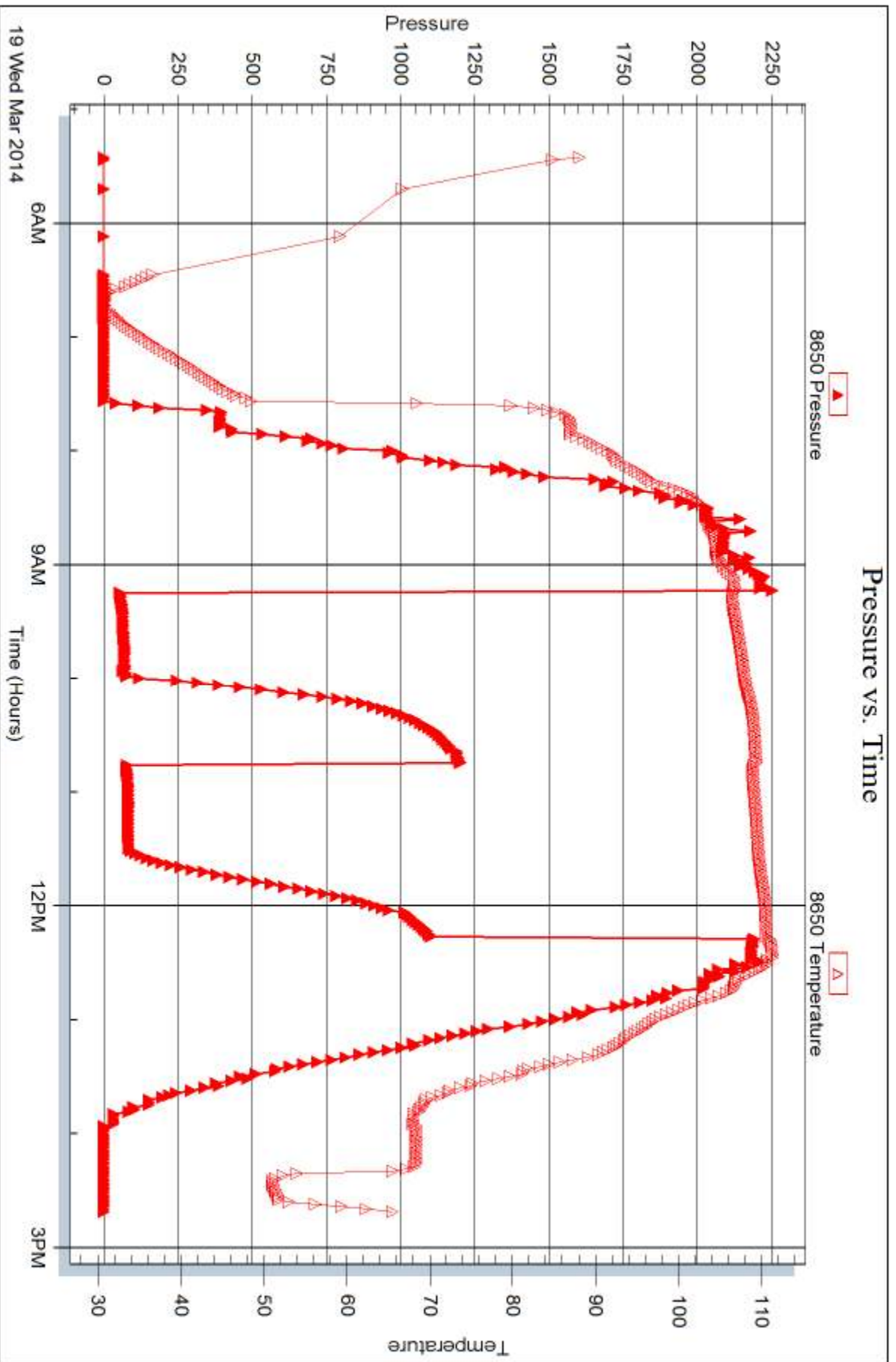
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	100%Mud w ith oil scum	1.159

Total Length: 140.00 ft Total Volume: 1.159 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

Congdon #8-28

28-23s-32w Finney,KS

Start Date: 2014.03.20 @ 15:38:00

End Date: 2014.03.20 @ 22:33:00

Job Ticket #: 56454 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.21 @ 16:36:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

28-23s-32w Finney,KS

Congdon #8-28

Job Ticket: 56454

DST#: 2

Test Start: 2014.03.20 @ 15:38:00

GENERAL INFORMATION:

Formation: **St. Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:43:30
 Time Test Ended: 22:33:00
 Interval: **4760.00 ft (KB) To 4787.00 ft (KB) (TVD)**
 Total Depth: 4787.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jace McKinney
 Unit No: 75
 Reference Elevations: 2853.00 ft (KB)
 2843.00 ft (CF)
 KB to GR/CF: 10.00 ft

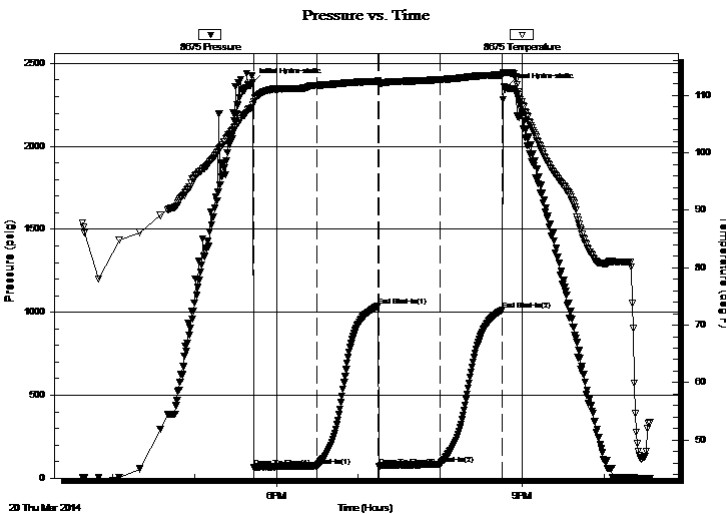
Serial #: 8675

Inside

Press@RunDepth: 83.85 psig @ 4761.00 ft (KB)
 Start Date: 2014.03.20 End Date: 2014.03.20
 Start Time: 15:38:15 End Time: 22:33:00
 Capacity: 8000.00 psig
 Last Calib.: 2014.03.20
 Time On Btm: 2014.03.20 @ 17:42:45
 Time Off Btm: 2014.03.20 @ 20:48:00

TEST COMMENT: Built to 10" blow
 Bled off for 3 min. No return blow
 B.O.B. in 21 min
 Bled off for 5 min. Built to weak surface return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2385.75	108.33	Initial Hydro-static
1	64.82	108.85	Open To Flow (1)
47	74.48	111.75	Shut-In(1)
92	1037.05	112.48	End Shut-In(1)
93	70.14	112.12	Open To Flow (2)
137	83.85	112.74	Shut-In(2)
183	1012.84	113.56	End Shut-In(2)
186	2353.20	114.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mcco 10%M 30%G 60%O	1.72
0.00	590 Feet Weak Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

American Warrior, Inc
 PO Box 399
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 ATTN: Kevin Timson

28-23s-32w Finney, KS

Congdon #8-28

Job Ticket: 56454 **DST#: 2**
 Test Start: 2014.03.20 @ 15:38:00

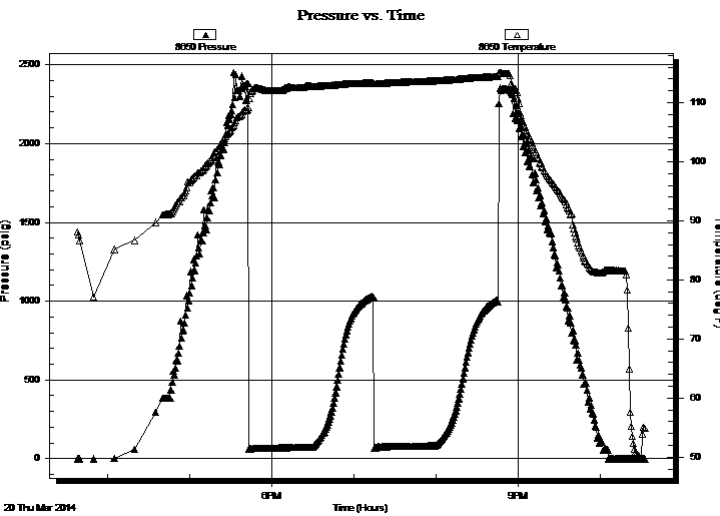
GENERAL INFORMATION:

Formation: **St. Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:43:30 Test Type: Conventional Bottom Hole (Reset)
 Time Test Ended: 22:33:00 Tester: Jace McKinney
 Unit No: 75
Interval: 4760.00 ft (KB) To 4787.00 ft (KB) (TVD) Reference Elevations: 2853.00 ft (KB)
 Total Depth: 4787.00 ft (KB) (TVD) 2843.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8650

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.20 End Date: 2014.03.20 Last Calib.: 2014.03.20
 Start Time: 15:38:15 End Time: 22:32:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: Built to 10" blow
 Bled off for 3 min. No return blow
 B.O.B. in 21 min
 Bled off for 5 min. Built to weak surface return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mcgo 10%M 30%G 60%O	1.72
0.00	590 Feet Weak Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

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

28-23s-32w Finney,KS
Congdon #8-28
Job Ticket: 56454 **DST#: 2**
Test Start: 2014.03.20 @ 15:38:00

Tool Information

Drill Pipe:	Length: 4653.44 ft	Diameter: 3.80 inches	Volume: 65.28 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 88.36 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.30 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4760.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	54.50 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			4733.50	
Shut In Tool	5.00		Inside	4738.50	
hydraulic tool	5.00			4743.50	
Jars	5.00			4748.50	
Safety Joint	2.50			4751.00	
Packer	5.00			4756.00	27.50 Bottom Of Top Packer
Packer	4.00			4760.00	
Stubb	1.00			4761.00	
Recorder	0.00	8675	Inside	4761.00	
recorder	0.00	8650	Outside	4761.00	
Perforations	23.00		Outside	4784.00	
change Over Sub	0.00		Outside	4784.00	
drill Pipe	0.00			4784.00	
Change Over Sub	0.00			4784.00	
Bullnose	3.00			4787.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.50



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

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

28-23s-32w Finney,KS
Congdon #8-28
Job Ticket: 56454 **DST#: 2**
Test Start: 2014.03.20 @ 15:38:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	mcgo 10%M 30%G 60%O	1.720
0.00	590 Feet Weak Gas In Pipe	0.000

Total Length: 180.00 ft Total Volume: 1.720 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

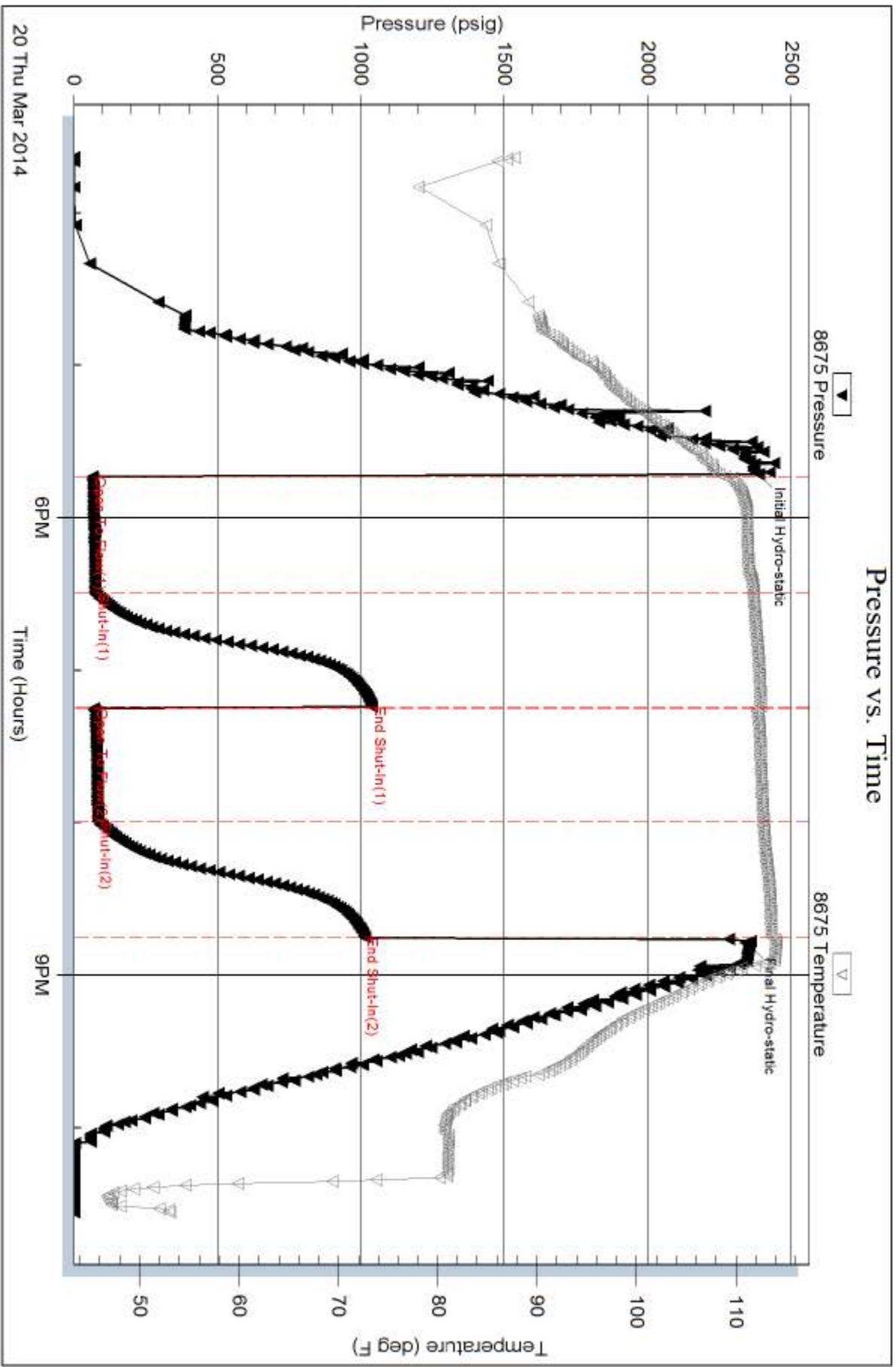
Serial #: 8675

Inside

American Warrior, Inc

Congdon #8-28

DST Test Number: 2

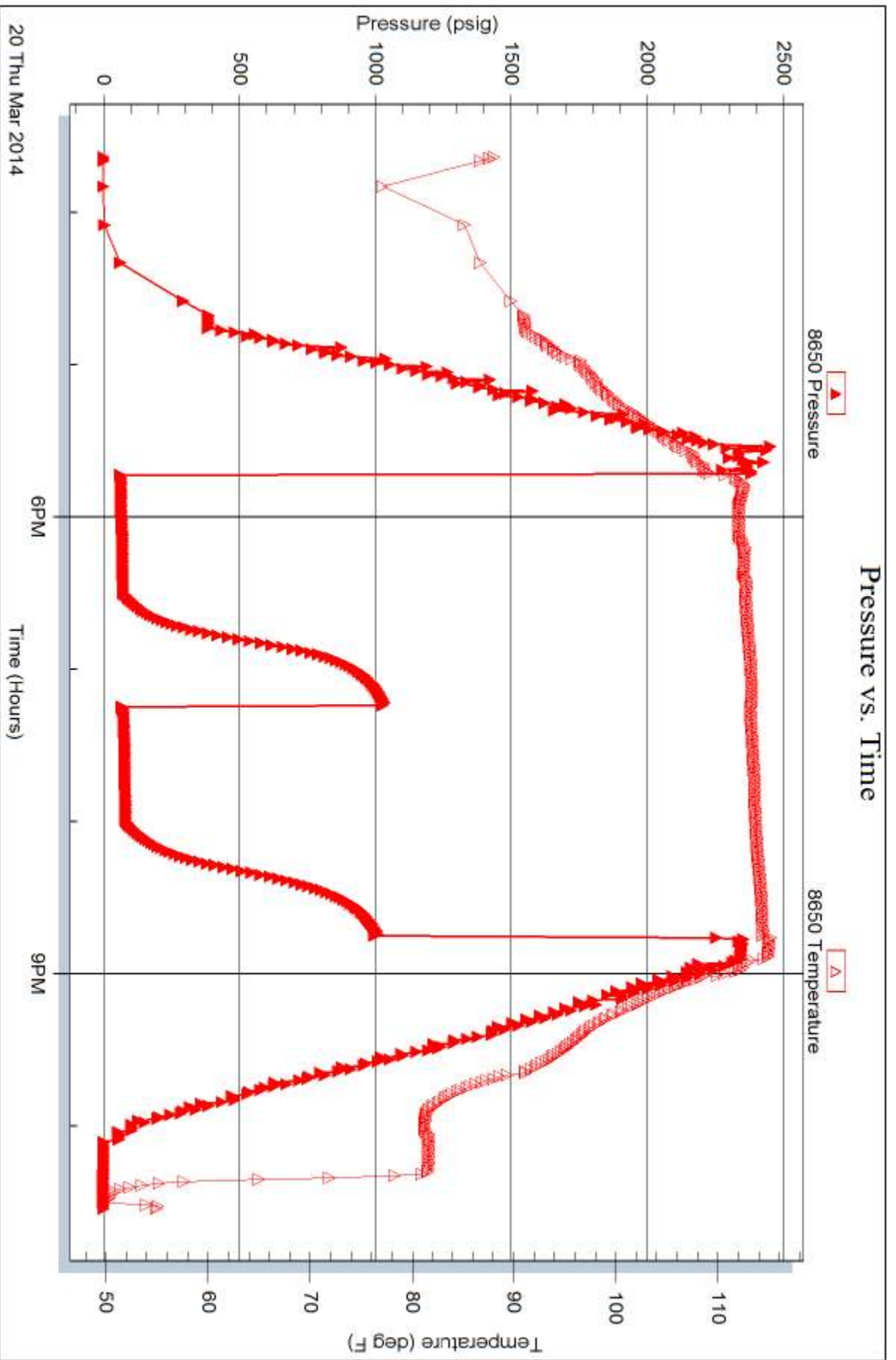


Serial #: 8650

American Warrior, Inc

Congdon #8-28

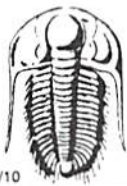
DST Test Number: 2



Tribble Testing, Inc

Ref. No: 56454

Printed: 2014.03.21 @ 16:36:49



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56453**

4/10

Well Name & No. Conagon 8-28 Test No. 1 Date 3/19/14
 Company American Warrior Inc Elevation 2853 KB 2843 GL
 Address 3118 Cummings Rd, PO Box 399, Garden City KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke Drilling Company Rig 10
 Location: Sec. 28 Twp. 23s Rge. 32w Co. Finney County State K.S

Interval Tested 4483-4578 Zone Tested Cherokee
 Anchor Length 95 Drill Pipe Run 4398.36 Mud Wt. 9.5
 Top Packer Depth 4479 Drill Collars Run 88.36 Vis 5.5
 Bottom Packer Depth 4483 Wt. Pipe Run _____ WL 6.4
 Total Depth 4578 Chlorides 2,000 ppm System LCM 3#

Blow Description Built to 6" below
Bled off for 3 min. No return below
Built to 5 1/8" below

Bled off for 3 min. No return below

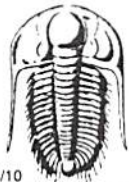
Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>Mud with oil scum</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 140 BHT 108 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2,235</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>04:00</u>
(B) First Initial Flow <u>56</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>05:25</u>
(C) First Final Flow <u>78</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>09:14</u>
(D) Initial Shut-In <u>1,205</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>12:14</u>
(E) Second Initial Flow <u>80</u>	<input checked="" type="checkbox"/> Hourly Standby <u>over 10 hrs</u>	T-Out <u>14:42</u>
(F) Second Final Flow <u>86</u>	<input checked="" type="checkbox"/> Mileage <u>70 RT</u> <u>108.50</u>	Comments _____
(G) Final Shut-In <u>1,105</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2,193</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1683.50</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't <input checked="" type="checkbox"/>
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1683.50</u>	

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. 56454

4/10

Well Name & No. Congdon 8-28 Test No. 2 Date 3/20/14
 Company American Warrior, Inc Elevation 2853 KB 2843 GL
 Address 3118 Cumming Rd, PO Box 399, Garden City KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke Drilling Company Rig 10
 Location: Sec. 28 Twp. 23s Rge. 32w Co. Finney County State KS

Interval Tested 4760 - 4787 Zone Tested St. Louis
 Anchor Length 27 Drill Pipe Run 4653.44 Mud Wt. 9.6
 Top Packer Depth 4756 Drill Collars Run 88.36 Vis 52
 Bottom Packer Depth 4760 Wt. Pipe Run _____ WL 7.2
 Total Depth 4787 Chlorides 2,500 ppm System LCM 2#

Blow Description Built to 10" below
Bled off for 3 min. No return below
B.O.B. in 2 min

Bled off for 5 min. Built to weak surface return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>590 Feet weak Gas In Pipe</u>				
<u>180</u>	<u>1000</u>	<u>30%</u>	<u>60%</u>		<u>10%</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 180 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2,386</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>15:30</u>
(B) First Initial Flow <u>65</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>15:38</u>
(C) First Final Flow <u>74</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>17:43</u>
(D) Initial Shut-In <u>1,037</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>20:43</u>
(E) Second Initial Flow <u>70</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:33</u>
(F) Second Final Flow <u>84</u>	<input checked="" type="checkbox"/> Mileage <u>70 RT</u> <u>108.50</u>	Comments _____
(G) Final Shut-In <u>1,013</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2,353</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>25</u>
	<input checked="" type="checkbox"/> Day Standby <u>+ 1hr with 25 hours</u>	Total <u>1708.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't <input checked="" type="checkbox"/>
	Sub Total <u>1683.50</u>	

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

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.