

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

15 - 083-21609-0000

12-22-22 Hodgeman KS

Ruff #1-12

Start Date: 2009.10.14 @ 03:04:17

End Date: 2009.10.14 @ 11:50:17

Job Ticket #: 36585 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

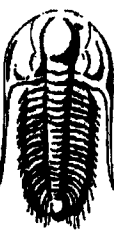
FEB 24 2010

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT	
	American Warrior PO Box 399 Garden City KS 67846 ATTN: Jason Alm	Ruff #1-12 12-22-22 Hodgeman KS Job Ticket: 36585 DST#: 1 Test Start: 2009.10.14 @ 03:04:17

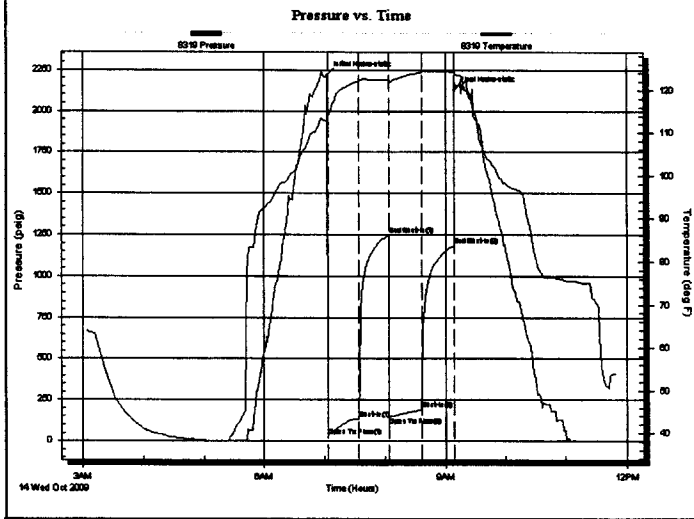
GENERAL INFORMATION:

Formation: Miss Deviated: No Whipstock: ft (KB) Time Tool Opened: 07:03:47 Time Test Ended: 11:50:17 Interval: 4390.00 ft (KB) To 4400.00 ft (KB) (TVD) Total Depth: 4400.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole Tester: Kyle Kinderknecht Unit No: 47 Reference Elevations: 2162.00 ft (KB) 2151.00 ft (CF) KB to GRV/CF: 11.00 ft
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Serial #: 8319 Inside

Press@RunDepth: 191.44 psig @ 4392.00 ft (KB) Start Date: 2009.10.14 End Date: 2009.10.14 Start Time: 03:04:22 End Time: 11:50:17	Capacity: 7000.00 psig Last Calib.: 2009.10.14 Time On Btrn: 2009.10.14 @ 07:03:17 Time Off Btrn: 2009.10.14 @ 09:08:47	
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TEST COMMENT: IF BOB 11 min
 ISI 4 1/2"
 FF BOB 9 min
 FSI 4"



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.41	112.82	Initial Hydro-static
1	27.97	112.75	Open To Flow (1)
30	137.42	122.09	Shut-In (1)
60	1249.34	122.37	End Shut-In (1)
61	148.81	122.01	Open To Flow (2)
93	191.44	124.14	Shut-In (2)
125	1186.28	124.29	End Shut-In (2)
126	2126.20	124.69	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	MCW Scum of oil 90%w 10%w	0.30
62.00	GsyOWCM 5%G 15%O 20%W 60%M	0.30
124.00	GsyMOO 20%G 60%O 20%M	0.61
217.00	Gsy Free Oil 20%G 80%O	2.52
0.00	60' GIP	0.00

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

Ruff #1-12

PO Box 399
Garden City KS 67846

12-22-22 Hodgeman KS

Job Ticket: 36585

DST#: 1

ATTN: Jason Alm

Test Start: 2009.10.14 @ 03:04:17

Tool Information

Drill Pipe:	Length: 4087.00 ft	Diameter: 3.82 inches	Volume: 57.93 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 308.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose: 73000.00 lb
		Total Volume: 59.44 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4390.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 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
Change Over Sub	1.00			4364.00	
Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00			4374.00	
Jars	4.00			4378.00	
Safety Joint	3.00			4381.00	
Packer	4.00			4385.00	27.00 Bottom Of Top Packer
Packer	5.00			4390.00	
Stubb	1.00			4391.00	
Perforations	1.00			4392.00	
Recorder	0.00	8319	Inside	4392.00	
Recorder	0.00	8369	Inside	4392.00	
Perforations	5.00			4397.00	
Bullnose	3.00			4400.00	10.00 Bottom Packers & Anchor

Total Tool Length: 37.00

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		FLUID SUMMARY																		
	American Warrior PO Box 399 Garden City KS 67846 ATTN: Jason Alm	Ruff #1-12 12-22-22 Hodgeman KS Job Ticket: 36585 DST#: 1 Test Start: 2009.10.14 @ 03:04:17																			
Mud and Cushion Information																					
Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 40.00 sec/qt Water Loss: 9.59 in ³ Resistivity: ohm.m Salinity: 6300.00 ppm Filter Cake: inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig		Oil API: 37 deg API Water Salinity: 19000 ppm																		
Recovery Information																					
Recovery Table																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Length ft</th> <th style="width: 60%;">Description</th> <th style="width: 25%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">62.00</td> <td>MCW Scum of oil 90%w 10%m</td> <td style="text-align: center;">0.305</td> </tr> <tr> <td style="text-align: center;">62.00</td> <td>GsyOWCM 5%G 15%O 20%W 60%M</td> <td style="text-align: center;">0.305</td> </tr> <tr> <td style="text-align: center;">124.00</td> <td>GsyMCO 20%G 60%O 20%M</td> <td style="text-align: center;">0.610</td> </tr> <tr> <td style="text-align: center;">217.00</td> <td>Gsy Free Oil 20%G 80%O</td> <td style="text-align: center;">2.521</td> </tr> <tr> <td style="text-align: center;">0.00</td> <td>60' GIP</td> <td style="text-align: center;">0.000</td> </tr> </tbody> </table>				Length ft	Description	Volume bbl	62.00	MCW Scum of oil 90%w 10%m	0.305	62.00	GsyOWCM 5%G 15%O 20%W 60%M	0.305	124.00	GsyMCO 20%G 60%O 20%M	0.610	217.00	Gsy Free Oil 20%G 80%O	2.521	0.00	60' GIP	0.000
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Total Length: 465.00 ft		Total Volume: 3.741 bbl																			
Num Fluid Samples: 0		Num Gas Bombs: 0 Serial #:																			
Laboratory Name:		Laboratory Location:																			
Recovery Comments: RW .39 @ 67 deg.																					

Pressure vs. Time

