



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Burkhart #1-15

15-22s-21w Hodgeman,KS

Start Date: 2014.09.15 @ 15:24:00

End Date: 2014.09.15 @ 22:05:30

Job Ticket #: 60270 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.17 @ 10:28:41



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

15-22s-21w Hodgeman,KS
Burkhart #1-15
 Job Ticket: 60270 **DST#: 1**
 Test Start: 2014.09.15 @ 15:24:00

GENERAL INFORMATION:

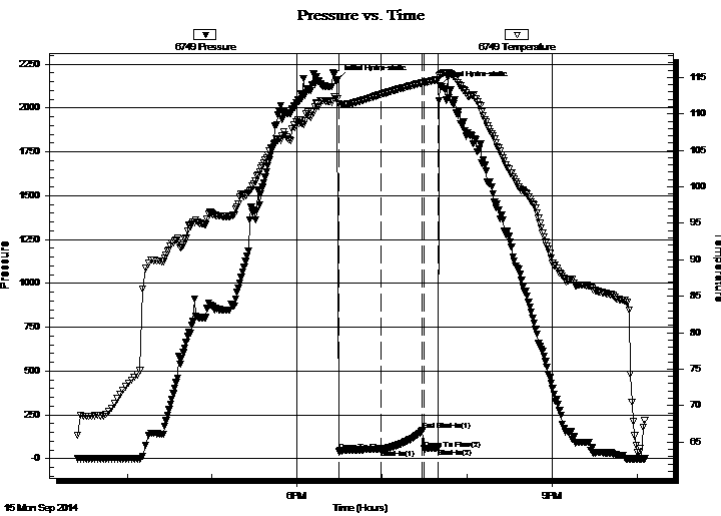
Formation: **Osage**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:29:30
 Time Test Ended: 22:05:30
 Interval: **4329.00 ft (KB) To 4384.00 ft (KB) (TVD)**
 Total Depth: 4384.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: S1
 Reference Elevations: 2171.00 ft (KB)
 2160.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6749

Inside

Press@RunDepth: 54.86 psig @ 4379.86 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.15 End Date: 2014.09.15 Last Calib.: 2014.09.15
 Start Time: 15:25:00 End Time: 22:05:30 Time On Btm: 2014.09.15 @ 18:28:30
 Time Off Btm: 2014.09.15 @ 19:41:00

TEST COMMENT: IFP 30 Weak blow built to 1/2"
 ISI 30 No blow back
 FFP 10 Weak surface blow - No build - Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.16	112.05	Initial Hydro-static
1	43.70	111.37	Open To Flow (1)
31	54.86	112.68	Shut-In(1)
60	161.25	114.27	End Shut-In(1)
61	56.18	114.28	Open To Flow (2)
71	59.56	114.71	Shut-In(2)
73	2128.71	115.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w ith show of oil in tool/Mud 100%	0.07

Gas Rates

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



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American Warrior Inc
 PO Box 399
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 ATTN: Kevin Timson

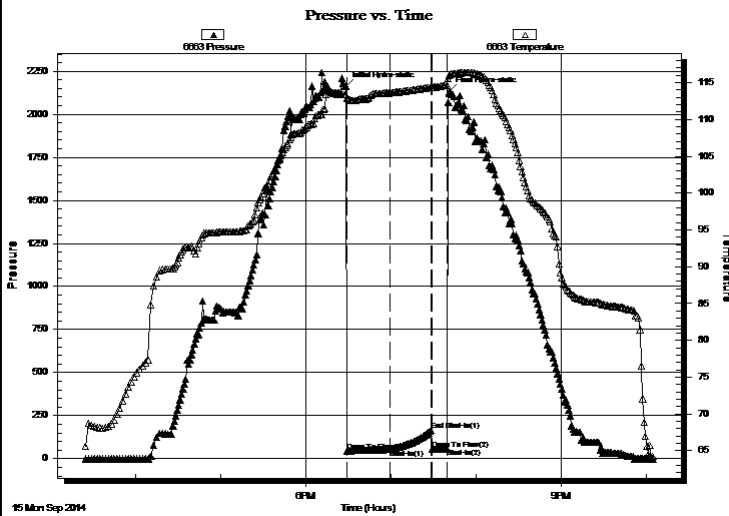
15-22s-21w Hodgeman, KS
Burkhart #1-15
 Job Ticket: 60270 **DST#: 1**
 Test Start: 2014.09.15 @ 15:24:00

GENERAL INFORMATION:

Formation: **Osage**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:29:30
 Time Test Ended: 22:05:30
 Interval: **4329.00 ft (KB) To 4384.00 ft (KB) (TVD)**
 Total Depth: 4384.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: S1
 Reference Elevations: 2171.00 ft (KB)
 2160.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6663 Outside
 Press@RunDepth: 165.34 psig @ 4380.86 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.15 End Date: 2014.09.15 Last Calib.: 2014.09.15
 Start Time: 15:25:00 End Time: 22:05:00 Time On Btm: 2014.09.15 @ 18:28:30
 Time Off Btm: 2014.09.15 @ 19:41:00

TEST COMMENT: IFP 30 Weak blow built to 1/2"
 ISI 30 No blow back
 FFP 10 Weak surface blow - No build - Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.27	113.40	Initial Hydro-static
1	44.90	112.83	Open To Flow (1)
31	54.76	113.61	Shut-In(1)
60	165.34	114.38	End Shut-In(1)
61	56.12	114.35	Open To Flow (2)
71	58.40	114.65	Shut-In(2)
73	2129.59	115.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud with show of oil in tool/Mud 100%	0.07

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

15-22s-21w Hodgeman,KS
Burkhart #1-15
Job Ticket: 60270 **DST#: 1**
Test Start: 2014.09.15 @ 15:24:00

Tool Information

Drill Pipe:	Length: 4085.00 ft	Diameter: 3.80 inches	Volume: 57.30 bbl	Tool Weight:	2000.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb	
Drill Collar:	Length: 247.22 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	100000.0 lb	
			Total Volume:	58.52 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.22 ft			String Weight: Initial	71000.00 lb	
Depth to Top Packer:	4329.00 ft			Final	71000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	54.86 ft					
Tool Length:	82.86 ft					
Number of Packers:	2	Diameter:	6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4306.00	
Hydraulic tool	5.00			4311.00	
Jars	6.00			4317.00	
Safety Joint	2.00			4319.00	
Top Packer	5.00			4324.00	
Packer	5.00			4329.00	28.00 Bottom Of Top Packer
Anchor	3.00			4332.00	
Change Over Sub	0.75			4332.75	
Drill Pipe	30.36			4363.11	
Change Over Sub	0.75			4363.86	
Anchor	15.00			4378.86	
Recorder	1.00	6749	Inside	4379.86	
Recorder	1.00	6663	Outside	4380.86	
Bullnose	3.00			4383.86	54.86 Anchor Tool

Total Tool Length: 82.86



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

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

15-22s-21w Hodgeman,KS
Burkhart #1-15
Job Ticket: 60270 **DST#: 1**
Test Start: 2014.09.15 @ 15:24:00

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud with show of oil in tool/Mud 100%	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

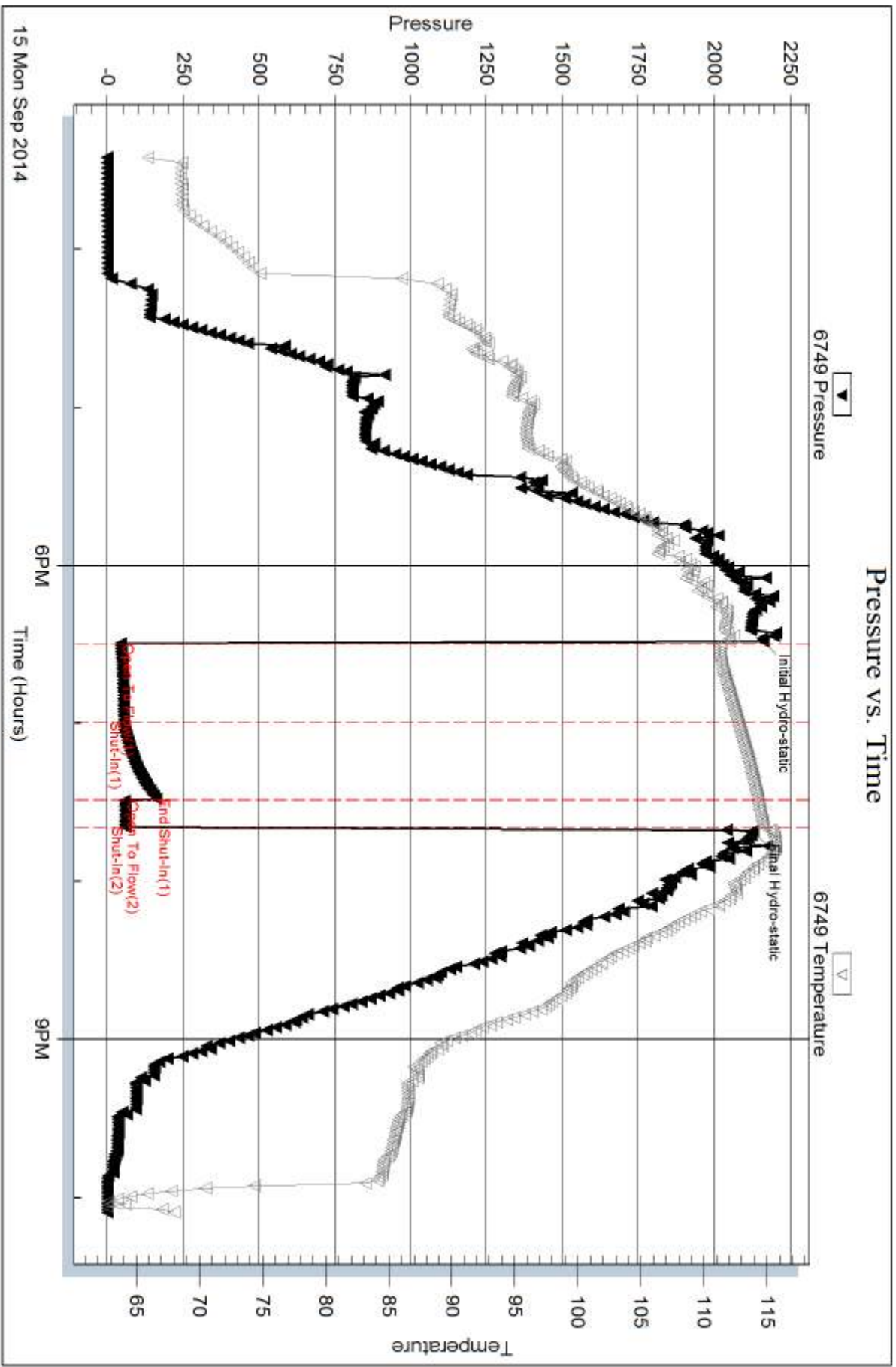
Serial #: 6749

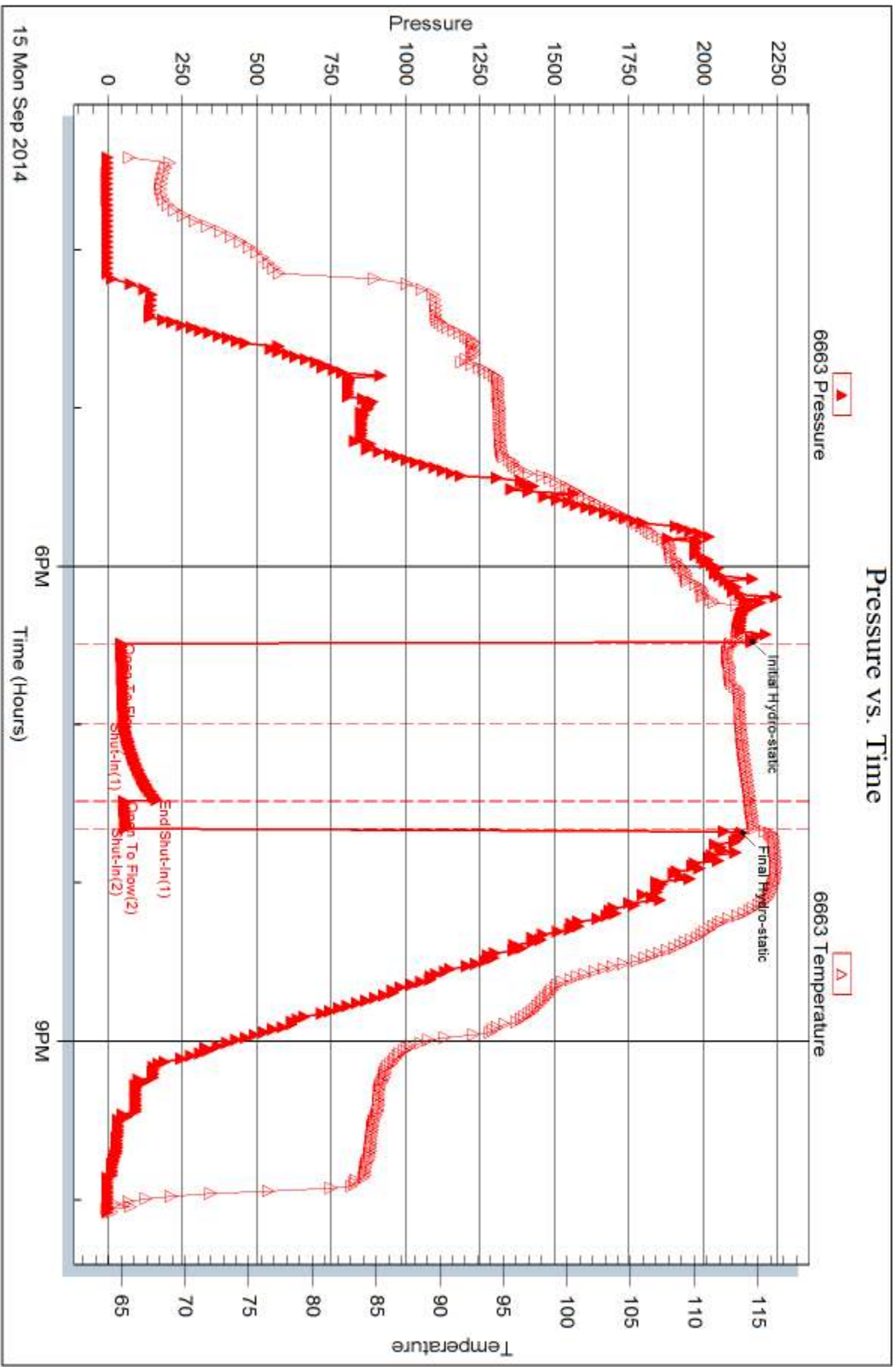
Inside

American Warrior Inc

Burkhart #1-15

DST Test Number: 1







DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Burkhart #1-15

15-22s-21w Hodgeman,KS

Start Date: 2014.09.16 @ 05:27:00

End Date: 2014.09.16 @ 11:22:30

Job Ticket #: 60271 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.17 @ 10:28:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

15-22s-21w Hodgeman,KS
Burkhart #1-15
Job Ticket: 60271 **DST#: 2**
Test Start: 2014.09.16 @ 05:27:00

GENERAL INFORMATION:

Formation: **Osage**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:18:30
Time Test Ended: 11:22:30
Interval: **4384.00 ft (KB) To 4395.00 ft (KB) (TVD)**
Total Depth: 4395.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: S1
Reference Elevations: 2171.00 ft (KB)
2160.00 ft (CF)
KB to GR/CF: 11.00 ft

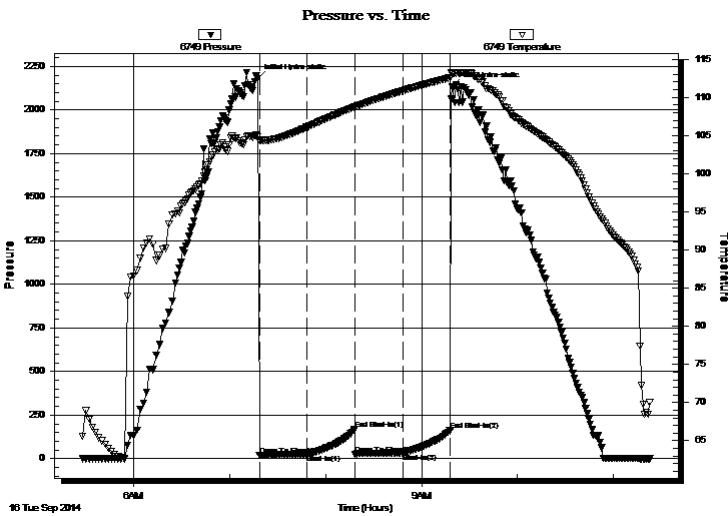
Serial #: 6749

Inside

Press@RunDepth: 33.32 psig @ 4391.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.16 End Date: 2014.09.16 Last Calib.: 2014.09.16
Start Time: 05:28:00 End Time: 11:22:30 Time On Btm: 2014.09.16 @ 07:17:30
Time Off Btm: 2014.09.16 @ 09:19:00

TEST COMMENT: IFP 30 Weak blow built to 1"
ISI 30 No blow back
FFP 30 Weak blow built to 2"
FSI 30 No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.14	104.80	Initial Hydro-static
1	19.47	104.35	Open To Flow (1)
31	27.55	106.07	Shut-In(1)
61	167.17	108.76	End Shut-In(1)
61	26.53	108.77	Open To Flow (2)
91	33.32	110.86	Shut-In(2)
121	163.45	112.58	End Shut-In(2)
122	2136.23	113.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Lightly oil cut mud	0.00
0.00	Oil 10% Mud 90%	0.00

Gas Rates

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



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

15-22s-21w Hodgeman,KS
Burkhart #1-15
Job Ticket: 60271 **DST#: 2**
Test Start: 2014.09.16 @ 05:27:00

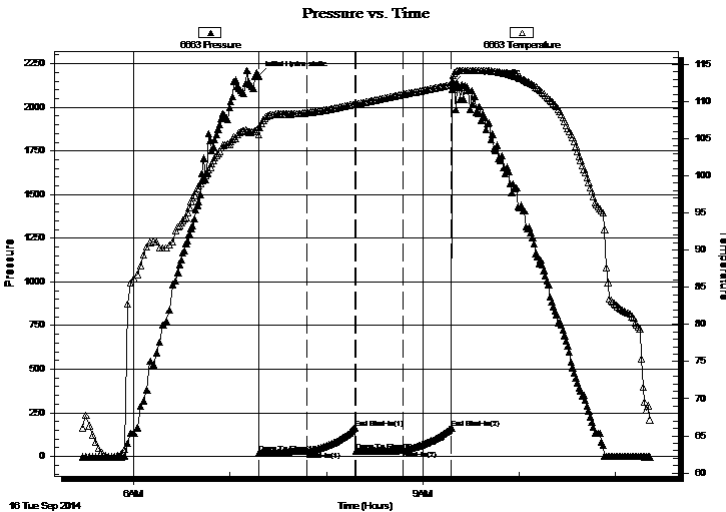
GENERAL INFORMATION:

Formation: **Osage**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:18:30
Time Test Ended: 11:22:30
Interval: **4384.00 ft (KB) To 4395.00 ft (KB) (TVD)**
Total Depth: 4395.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: S1
Reference Elevations: 2171.00 ft (KB)
2160.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6663 Outside
Press@RunDepth: 164.81 psig @ 4392.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.16 End Date: 2014.09.16 Last Calib.: 2014.09.16
Start Time: 05:28:00 End Time: 11:22:00 Time On Btm: 2014.09.16 @ 07:17:30
Time Off Btm: 2014.09.16 @ 09:19:00

TEST COMMENT: IFP 30 Weak blow built to 1"
ISI 30 No blow back
FFP 30 Weak blow built to 2"
FSI 30 No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.18	106.52	Initial Hydro-static
1	20.88	105.51	Open To Flow (1)
31	29.17	108.50	Shut-In(1)
60	164.21	109.66	End Shut-In(1)
61	28.94	109.66	Open To Flow (2)
91	34.66	110.98	Shut-In(2)
121	164.81	112.26	End Shut-In(2)
122	2133.86	113.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Lightly oil cut mud	0.00
0.00	Oil 10% Mud 90%	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

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

15-22s-21w Hodgeman,KS
Burkhart #1-15
Job Ticket: 60271 **DST#: 2**
Test Start: 2014.09.16 @ 05:27:00

Tool Information

Drill Pipe:	Length: 4117.00 ft	Diameter: 3.80 inches	Volume: 57.75 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 247.22 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 57.75 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.22 ft			String Weight: Initial	71000.00 lb
Depth to Top Packer:	4384.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	38.00 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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Shut-In Tool	5.00			4362.00	
Hydraulic tool	5.00			4367.00	
Jars	5.00			4372.00	
Safety Joint	2.00			4374.00	
Top Packer	5.00			4379.00	
Packer	5.00			4384.00	27.00 Bottom Of Top Packer
Anchor	6.00			4390.00	
Recorder	1.00	6749	Inside	4391.00	
Recorder	1.00	6663	Outside	4392.00	
Bullnose	3.00			4395.00	11.00 Anchor Tool
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

15-22s-21w Hodgeman,KS
Burkhart #1-15
Job Ticket: 60271 **DST#: 2**
Test Start: 2014.09.16 @ 05:27:00

Mud and Cushion Information

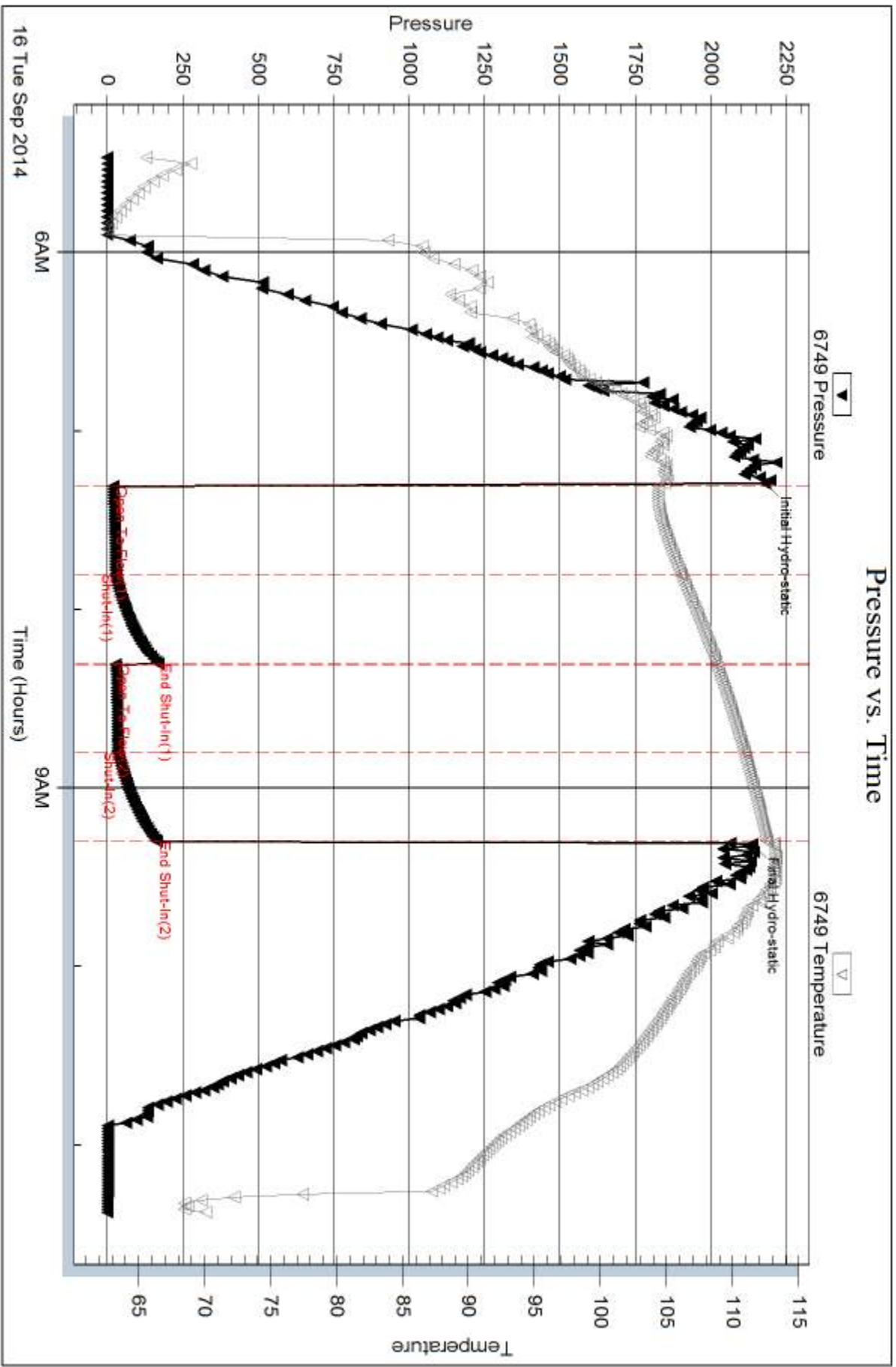
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: 1.00 inches			

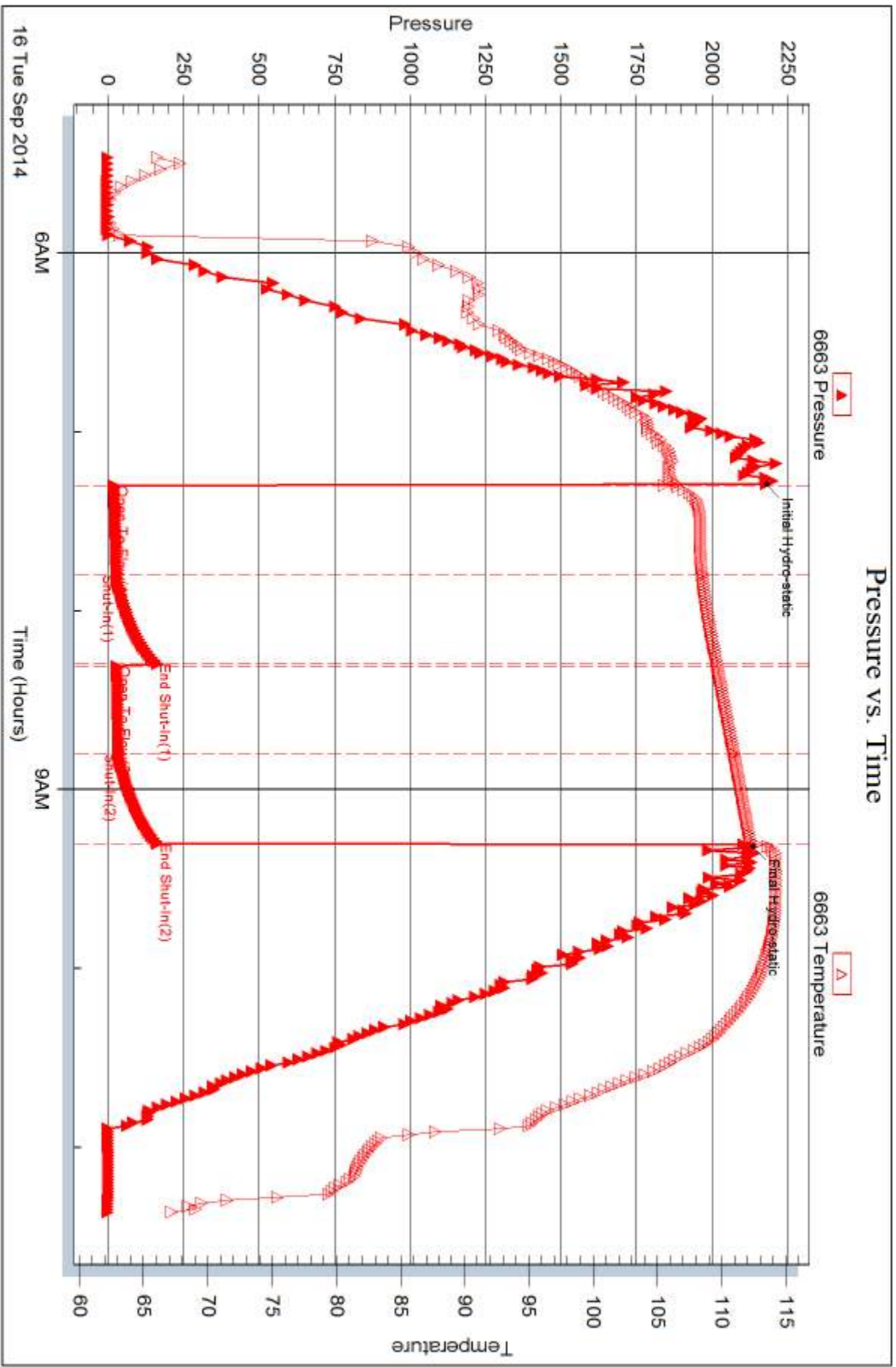
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Lightly oil cut mud	0.000
0.00	Oil 10% Mud 90%	0.000

Total Length: 30.00 ft Total Volume: 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

Burkhart #1-15

15-22s-21w Hodgeman,KS

Start Date: 2014.09.16 @ 18:41:00

End Date: 2014.09.17 @ 01:37:00

Job Ticket #: 60272 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.17 @ 10:22:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

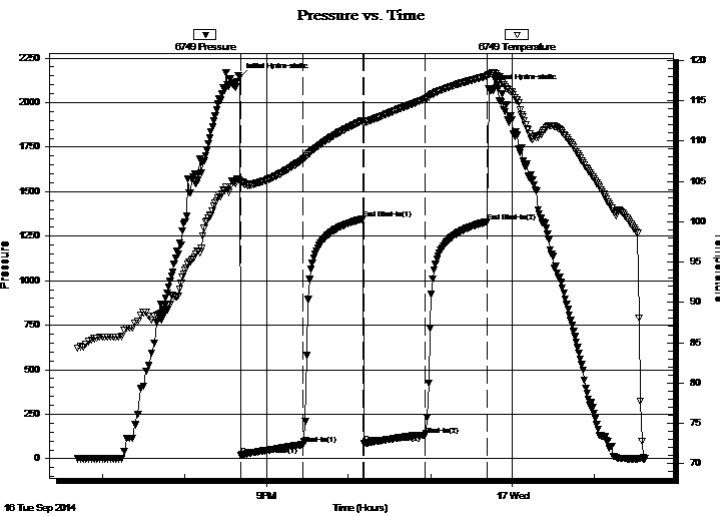
15-22s-21w Hodgeman,KS
Burkhart #1-15
 Job Ticket: 60272 **DST#: 3**
 Test Start: 2014.09.16 @ 18:41:00

GENERAL INFORMATION:

Formation: **Osage**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:41:30
 Time Test Ended: 01:37:00
 Interval: **4395.00 ft (KB) To 4406.00 ft (KB) (TVD)**
 Total Depth: 4406.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: S1 Great Bend/104
 Reference Elevations: 2171.00 ft (KB)
 2160.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6749 Inside
 Press@RunDepth: 132.72 psig @ 4402.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.16 End Date: 2014.09.17 Last Calib.: 2014.09.17
 Start Time: 18:42:00 End Time: 01:37:00 Time On Btm: 2014.09.16 @ 20:40:30
 Time Off Btm: 2014.09.16 @ 23:42:30

TEST COMMENT: IFP 45 Weak blow built to 4 1/2"
 ISI 45 No blow back
 FFP 45 Weak surface blow throughout
 FSI 45 No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.02	105.10	Initial Hydro-static
1	19.87	104.82	Open To Flow (1)
47	79.89	107.73	Shut-In(1)
90	1346.30	112.55	End Shut-In(1)
91	86.37	112.32	Open To Flow (2)
136	132.72	115.19	Shut-In(2)
181	1331.29	118.05	End Shut-In(2)
182	2079.76	118.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Muddy Water/Mud 10% Water 90%	1.18

Gas Rates

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



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

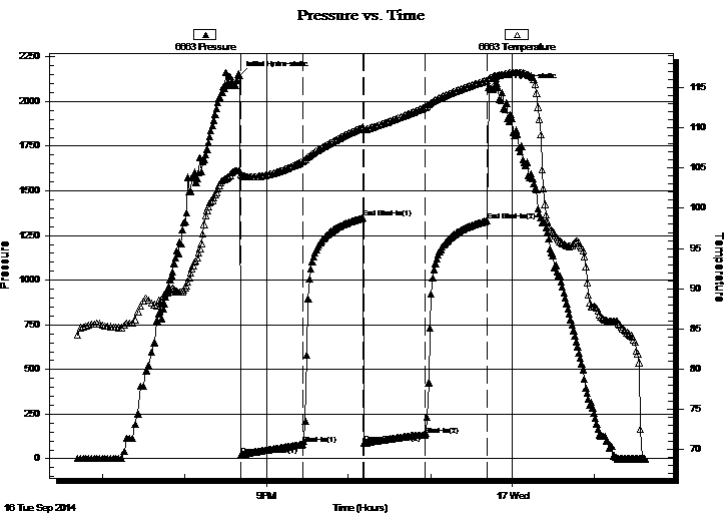
15-22s-21w Hodgeman,KS
Burkhart #1-15
Job Ticket: 60272 **DST#: 3**
Test Start: 2014.09.16 @ 18:41:00

GENERAL INFORMATION:

Formation: **Osage**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:41:30
Time Test Ended: 01:37:00
Interval: **4395.00 ft (KB) To 4406.00 ft (KB) (TVD)**
Total Depth: 4406.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: S1 Great Bend/104
Reference Elevations: 2171.00 ft (KB)
2160.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6663 Outside
Press@RunDepth: 1332.22 psig @ 4403.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.16 End Date: 2014.09.17 Last Calib.: 2014.09.17
Start Time: 18:42:00 End Time: 01:37:00 Time On Btm: 2014.09.16 @ 20:40:30
Time Off Btm: 2014.09.16 @ 23:42:30

TEST COMMENT: IFP 45 Weak blow built to 4 1/2"
ISI 45 No blow back
FFP 45 Weak surface blow throughout
FSI 45 No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.87	104.70	Initial Hydro-static
1	21.63	104.18	Open To Flow (1)
46	80.50	105.82	Shut-In(1)
90	1347.23	110.08	End Shut-In(1)
91	88.12	109.82	Open To Flow (2)
136	134.02	112.55	Shut-In(2)
181	1332.22	115.89	End Shut-In(2)
182	2080.13	116.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Muddy Water/Mud 10% Water 90%	1.18

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

15-22s-21w Hodgeman,KS
Burkhart #1-15
Job Ticket: 60272 **DST#: 3**
Test Start: 2014.09.16 @ 18:41:00

Tool Information

Drill Pipe:	Length: 4147.00 ft	Diameter: 3.80 inches	Volume: 58.17 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 247.22 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 59.39 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.22 ft			String Weight: Initial	71000.00 lb
Depth to Top Packer:	4395.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	38.00 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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Shut-In Tool	5.00			4373.00	
Hydraulic tool	5.00			4378.00	
Jars	5.00			4383.00	
Safety Joint	2.00			4385.00	
Top Packer	5.00			4390.00	
Packer	5.00			4395.00	27.00 Bottom Of Top Packer
Anchor	6.00			4401.00	
Recorder	1.00	6749	Inside	4402.00	
Recorder	1.00	6663	Outside	4403.00	
Bullnose	3.00			4406.00	11.00 Anchor Tool
Total Tool Length:	38.00				



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PO Box 399
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ATTN: Kevin Timson

15-22s-21w Hodgeman,KS
Burkhart #1-15
Job Ticket: 60272 **DST#: 3**
Test Start: 2014.09.16 @ 18:41:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Muddy Water/Mud 10% Water 90%	1.180

Total Length: 240.00 ft Total Volume: 1.180 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

