

**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Eagle Creek Corp**

150 N Main, Ste. 905  
Wichita, KS 67202

ATTN: Dave Callewaert

**6-28s-8w Butler KS**

**Harry Lewis #1-6**

Start Date: 2010.11.14 @ 19:14:31

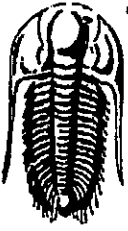
End Date: 2010.11.15 @ 01:20:45

Job Ticket #: 039224      DST #: 1

**KCC  
JAN 04 2011  
CONFIDENTIAL**

**RECEIVED  
JAN 06 2011  
KCC WICHITA**

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Eagle Creek Corp  
150 N Main, Ste. 905  
Wichita, KS 67202  
  
ATTN: Dave Callew aert

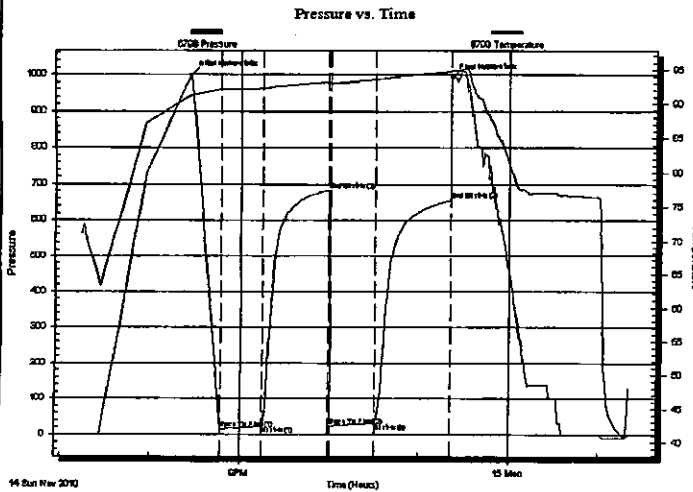
Harry Lewis #1-6  
6-28s-8w Butler KS  
Job Ticket: 039224      DST#: 1  
Test Start: 2010.11.14 @ 19:14:31

## GENERAL INFORMATION:

Formation: **Swope & Hertha**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 20:46:30  
 Time Test Ended: 01:20:45  
 Interval: **2125.00 ft (KB) To 2167.00 ft (KB) (TVD)**  
 Total Depth: 2167.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole  
 Tester: Leal Cason  
 Unit No: 45  
 Reference Elevations: 1523.00 ft (KB)  
 1514.00 ft (CF)  
 KB to GR/CF: 9.00 ft

Serial #: **6798**      Inside  
 Press@RunDepth: 31.55 psig @ 2126.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.11.14      End Date: 2010.11.15      Last Calib.: 2010.11.15  
 Start Time: 19:14:31      End Time: 01:20:45      Time On Btrr: 2010.11.14 @ 20:26:30  
 Time Off Btm: 2010.11.14 @ 23:21:30

TEST COMMENT: IF: Weak Surface Blow  
 IS: No Blow back  
 FF: No Blow  
 FS: No Blow back



## PRESSURE SUMMARY

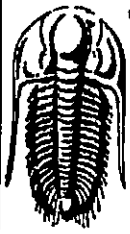
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	998.97	91.27	Initial Hydro-static
20	16.41	92.15	Open To Flow (1)
49	23.84	92.22	Shut-In(1)
94	684.67	93.16	End Shut-In(1)
95	24.19	92.95	Open To Flow (2)
125	31.55	93.53	Shut-In(2)
175	656.18	94.66	End Shut-In(2)
175	991.22	94.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	DRLG Mud	0.01

## Gas Rates

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



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Eagle Creek Corp  
150 N Main, Ste. 905  
Wichita, KS 67202

**Harry Lewis #1-6**  
**6-28s-8w Butler KS**  
Job Ticket: 039224      **DST#: 1**  
Test Start: 2010.11.14 @ 19:14:31

ATTN: Dave Callow aert

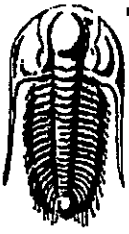
**Tool Information**

Drill Pipe:	Length: 1835.00 ft	Diameter: 3.80 inches	Volume: 25.74 bbl	Tool Weight: 2100.00 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: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume: 27.09 bbl</b>		Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2125.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2110.00	
Hydraulic tool	5.00			2115.00	
Packer	5.00			2120.00	20.00      Bottom Of Top Packer
Packer	5.00			2125.00	
Stubb	1.00			2126.00	
Recorder		6798	Inside	2126.00	
Recorder	0.00	8367	Outside	2126.00	
Perforations	38.00			2164.00	
Bullnose	3.00			2167.00	42.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>62.00</b>				



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Eagle Creek Corp

Harry Lewis #1-6

150 N Main, Ste. 905  
Wichita, KS 67202

6-28s-8w Butler KS

Job Ticket: 039224

DST#: 1

ATTN: Dave Callew aert

Test Start: 2010.11.14 @ 19:14:31

## 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: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	DRLG Mud	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

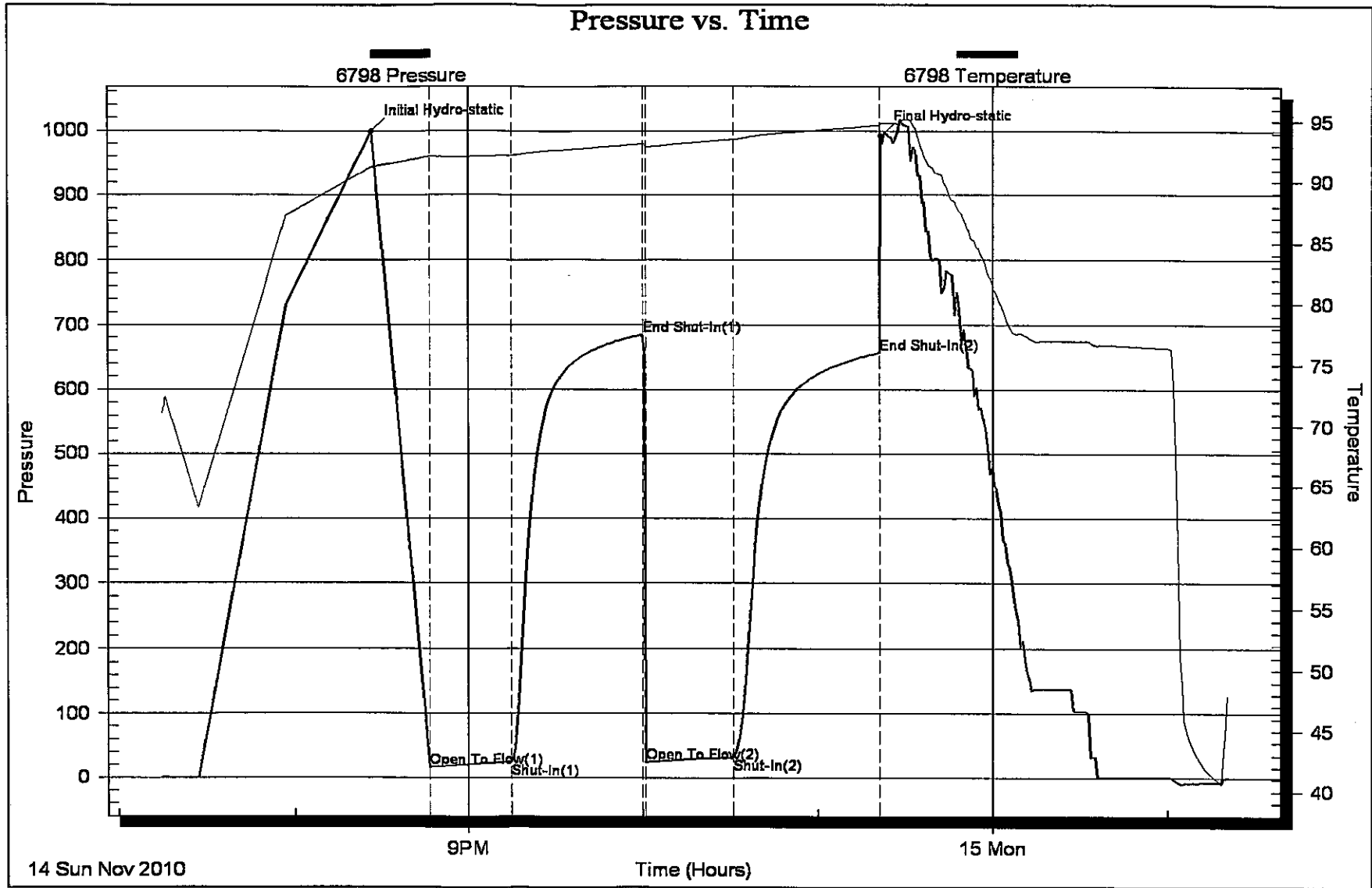
Num Gas Bombs: 0

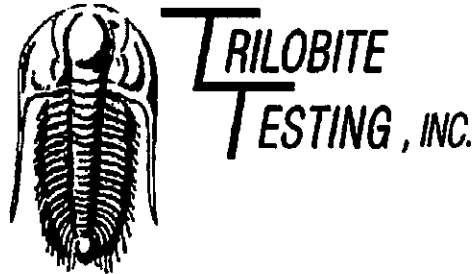
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corp**

150 N Main, Ste. 905  
Wichita, KS 67202

ATTN: Dave Callewaert

**6-28s-8w Butler KS**

**Harry Lewis #1-6**

Start Date: 2010.11.16 @ 09:16:05

End Date: 2010.11.16 @ 16:16:20

Job Ticket #: 039282      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Eagle Creek Corp

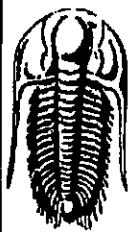
Harry Lewis #1-6

6-28s-8w Butler KS

DST # 2

Miss.

2010.11.16



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## DRILL STEM TEST REPORT

Eagle Creek Corp  
150 N Main, Ste. 905  
Wichita, KS 67202  
ATTN: Dave Callew aert

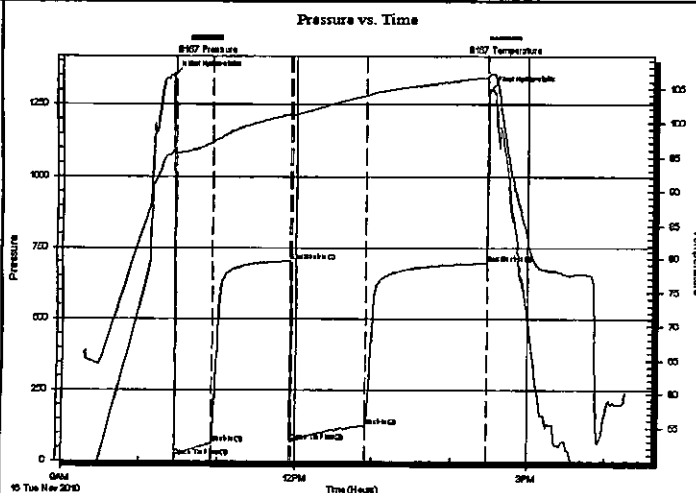
**Harry Lewis #1-6**  
**6-28s-8w Butler KS**  
Job Ticket: 039282      DST#: 2  
Test Start: 2010.11.16 @ 09:16:05

### GENERAL INFORMATION:

Formation: Miss.  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:27:05  
Time Test Ended: 16:16:20  
Interval: 2744.00 ft (KB) To 2760.00 ft (KB) (TVD)  
Total Depth: 2760.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole  
Tester: Gary Pevoteaux  
Unit No: 39  
Reference Elevations: 1523.00 ft (KB)  
1514.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8167**      Inside  
Press@RunDepth: 123.76 psig @ 2745.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.11.16      End Date: 2010.11.16      Last Calib.: 2010.11.16  
Start Time: 09:16:10      End Time: 16:16:19      Time On Btm: 2010.11.16 @ 10:25:50  
Time Off Btm: 2010.11.16 @ 14:30:20

**TEST COMMENT:** IF: Fair to strong blow . B.O.B in 19 mins.  
IS: Weak blow . 1/2 - 2 1/4".  
FF: Strong blow . B.O.B in 11 mins.  
FSI: Weak to fair blow . 1 - 5".



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1349.60	95.96	Initial Hydro-static
2	15.88	95.33	Open To Flow (1)
30	63.63	97.09	Shut-In(1)
90	701.18	101.25	End Shut-In(1)
91	70.71	101.15	Open To Flow (2)
150	123.76	103.94	Shut-In(2)
243	694.31	106.58	End Shut-In(2)
245	1298.09	107.07	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
85.00	GOCMW 9%g 15%o34%m 42%w	0.42
220.00	CGO 11%g 89%o	1.36
0.00	755 ft.of GIP	0.00

### Gas Rates

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



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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Eagle Creek Corp  
150 N Main, Ste. 905  
Wichita, KS 67202  
ATTN: Dave Callew aert

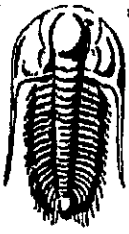
Harry Lewis #1-6  
6-28s-8w Butler KS  
Job Ticket: 039282      DST#: 2  
Test Start: 2010.11.16 @ 09:16:05

**Tool Information**

Drill Pipe:	Length: 2460.00 ft	Diameter: 3.80 inches	Volume: 34.51 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 35.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	2744.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2725.00	
Shut in tool	5.00			2730.00	
HMV	5.00			2735.00	
Packer	4.00			2739.00	20.00      Bottom Of Top Packer
Packer	5.00			2744.00	
Stubb	1.00			2745.00	
Recorder	0.00	8167	Inside	2745.00	
Recorder	0.00	8370	Outside	2745.00	
Perforations	10.00			2755.00	
Bullnose	5.00			2760.00	16.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



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FLUID SUMMARY

Eagle Creek Corp

Harry Lewis #1-6

150 N Main, Ste. 905  
Wichita, KS 67202

6-28s-8w Butler KS

ATTN: Dave Callew aert

Job Ticket: 039282

DST#: 2

Test Start: 2010.11.16 @ 09:16:05

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

11000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
85.00	GOCMV 9%g 15%o 34%m 42%w	0.418
220.00	CGO 11%g 89%o	1.355
0.00	755 ft of GIP	0.000

Total Length: 305.00 ft      Total Volume: 1.773 bbf

Num Fluid Samples: 0

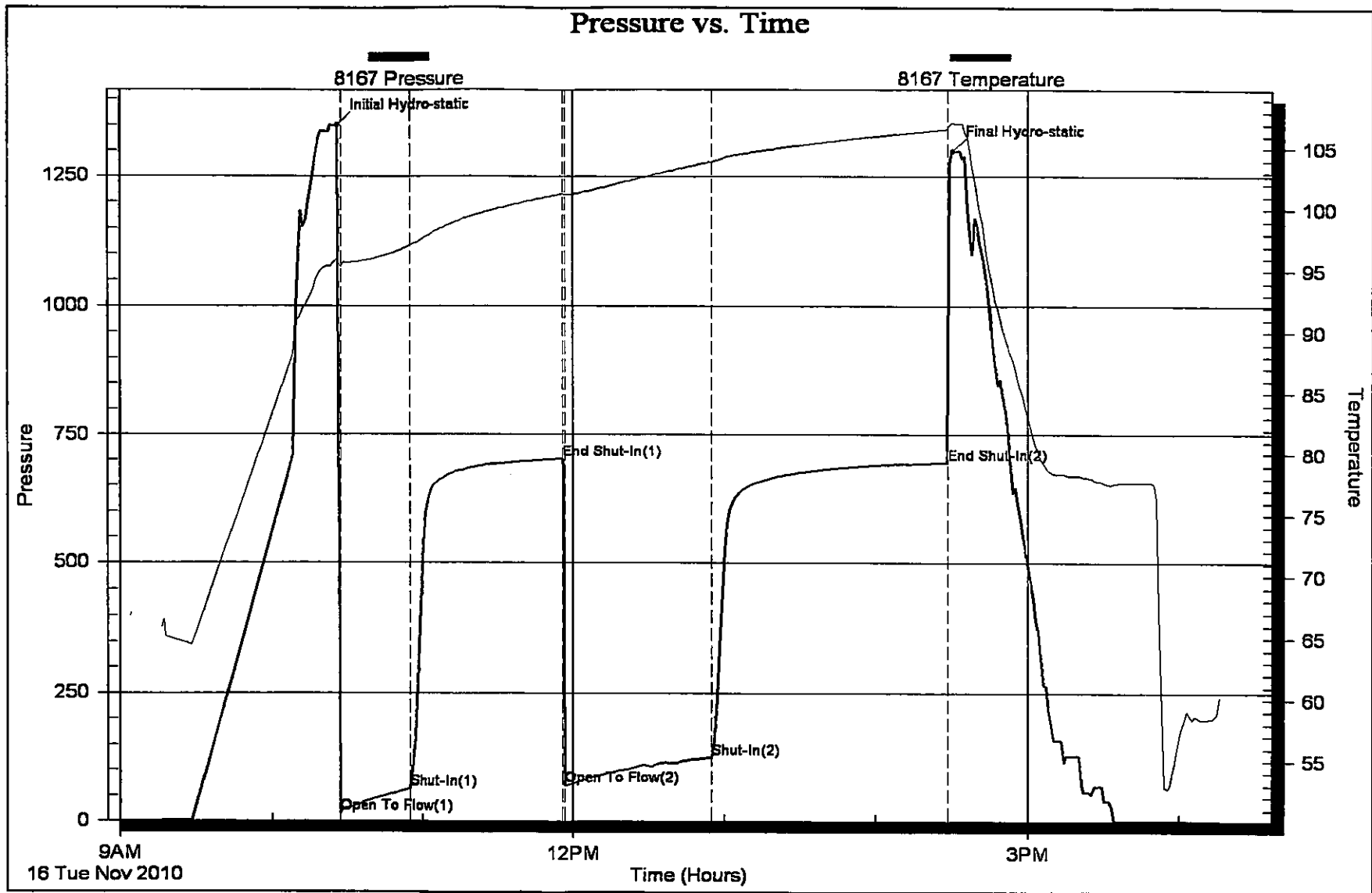
Num Gas Bombs: 0

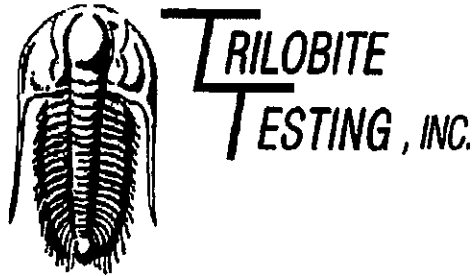
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .72 @ 60 deg





## DRILL STEM TEST REPORT

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**6-28s-8w Butler KS**

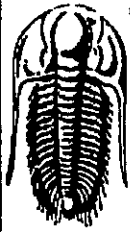
**Harry Lewis #1-6**

Start Date: 2010.11.17 @ 18:46:40

End Date: 2010.11.18 @ 03:42:40

Job Ticket #: 039283                      DST #: 3

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



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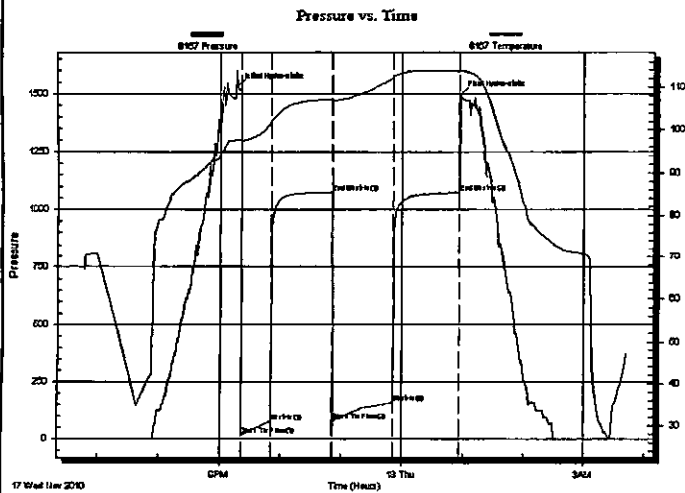
Harry Lewis #1-6  
6-28s-8w Butler KS  
Job Ticket: 039283      DST#: 3  
Test Start: 2010.11.17 @ 18:46:40

## GENERAL INFORMATION:

Formation: **Simpson/Arb.**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 21:20:40  
Time Test Ended: 03:42:40  
Interval: **3140.00 ft (KB) To 3169.00 ft (KB) (TVD)**  
Total Depth: **3169.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Poor**  
Test Type: **Conventional Bottom Hole**  
Tester: **Gary Pevoteaux**  
Unit No: **39**  
Reference Elevations: **1523.00 ft (KB)**  
**1514.00 ft (CF)**  
KB to GR/CF: **9.00 ft**

Serial #: **8167**      Inside  
Press@RunDepth: **158.94 psig @ 3141.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.11.17**      End Date: **2010.11.18**      Last Calib.: **2010.11.18**  
Start Time: **18:46:45**      End Time: **03:42:40**      Time On Btm: **2010.11.17 @ 21:17:25**  
Time Off Btm: **2010.11.18 @ 00:57:55**

TEST COMMENT: IF:Weak to fair blow . Increase to 4 1/2".  
IS:No blow .  
FF:Weak to fair blow . Increase to 8".  
FS:No blow .



## PRESSURE SUMMARY

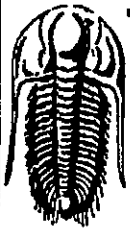
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1530.30	97.57	Initial Hydro-static
4	17.85	97.33	Open To Flow (1)
33	77.83	101.61	Shut-In(1)
94	1077.48	107.21	End Shut-In(1)
95	80.48	106.97	Open To Flow (2)
154	158.94	112.17	Shut-In(2)
219	1075.12	113.75	End Shut-In(2)
221	1493.98	113.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	SW	0.59
212.00	MW/w few o specs 20% m 80% w	1.56
8.00	SMCO 9% m 91% o	0.11

## Gas Rates

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



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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Eagle Creek Corp  
150 N Main, Ste. 905  
Wichita, KS 67202

**Harry Lewis #1-6**  
**6-28s-8w Butler KS**  
Job Ticket: 039283      **DST#: 3**  
Test Start: 2010.11.17 @ 18:46:40

ATTN: Dave Callew aert

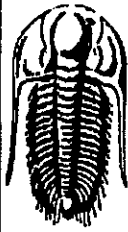
### Tool Information

Drill Pipe:	Length: 2863.00 ft	Diameter: 3.80 inches	Volume: 40.16 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 70000.00 lb
		<b>Total Volume:</b>	<b>41.51 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3140.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3121.00	
Shut in tool	5.00			3126.00	
HMV	5.00			3131.00	
Packer	4.00			3135.00	20.00      Bottom Of Top Packer
Packer	5.00			3140.00	
Stubb	1.00			3141.00	
Recorder	0.00	8167	Inside	3141.00	
Recorder	0.00	8370	Outside	3141.00	
Perforations	23.00			3164.00	
Bullnose	5.00			3169.00	29.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>49.00</b>				



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Eagle Creek Corp

Harry Lewis #1-6

150 N Main, Ste. 905  
Wichita, KS 67202

6-28s-8w Butler KS

Job Ticket: 039283

DST#: 3

ATTN: Dave Callew aert

Test Start: 2010.11.17 @ 18:46:40

**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:

27000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 0.20 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
120.00	SW	0.590
212.00	MM/w few o specs 20%m 80%w	1.562
8.00	SMCO 9%m 91%o	0.112

Total Length: 340.00 ft Total Volume: 2.264 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .44 @ 42 deg

