



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp**

Box 277  
Ellinwood, KS 67526

ATTN: Al Hammersmith

**7-10-19 Rooks,KS**

**Ouderkirk # 14**

Start Date: 2010.11.16 @ 09:40:03

End Date: 2010.11.16 @ 16:25:03

Job Ticket #: 040961      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H & B Petroleum Corp

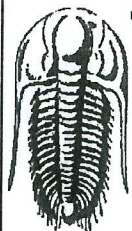
Ouderkirk # 14

7-10-19 Rooks,KS

DST # 1

Topeka

2010.11.16



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

H & B Petroleum Corp

**Ouderkirk # 14**

Box 277  
Ellinwood, KS 67526

**7-10-19 Rooks,KS**

Job Ticket: 040961      DST#: 1

ATTN: Al Hammersmith

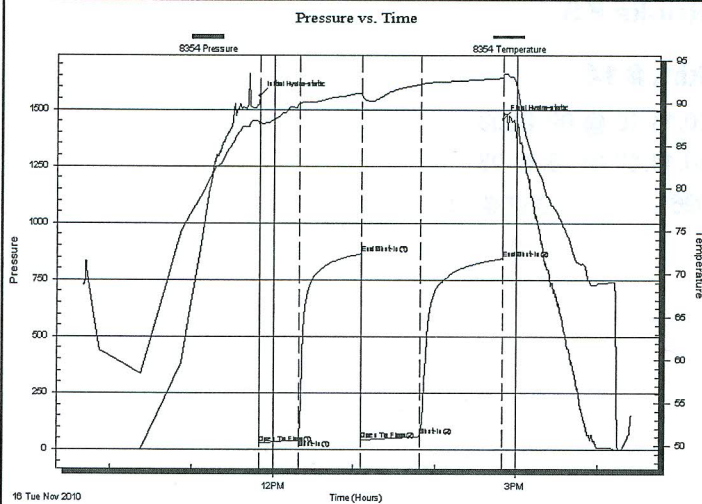
Test Start: 2010.11.16 @ 09:40:03

## GENERAL INFORMATION:

Formation: **Topeka**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 11:49:33  
 Time Test Ended: 16:25:03  
 Interval: **3236.00 ft (KB) To 3273.00 ft (KB) (TVD)**  
 Total Depth: **3273.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Dan Bangle**  
 Unit No: **38**  
 Reference Elevations: **2233.00 ft (KB)**  
**2227.00 ft (CF)**  
 KB to GR/CF: **6.00 ft**

**Serial #: 8354**      **Inside**  
 Press@RunDepth: **59.17 psig @ 3237.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2010.11.16**      End Date: **2010.11.16**      Last Calib.: **2010.11.16**  
 Start Time: **09:40:04**      End Time: **16:25:03**      Time On Btm: **2010.11.16 @ 11:49:18**  
 Time Off Btm: **2010.11.16 @ 14:49:48**

**TEST COMMENT:** IF-Slid tool 8' to bottom - lost 10'-15' of mud - Weak blow building to 3/4"  
 FF-Weak building to 1/4"



## PRESSURE SUMMARY

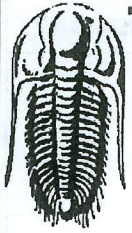
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1562.36	87.77	Initial Hydro-static
1	27.27	87.34	Open To Flow (1)
31	41.54	89.87	Shut-In(1)
76	863.40	91.12	End Shut-In(1)
77	42.90	90.86	Open To Flow (2)
120	59.17	92.18	Shut-In(2)
181	842.46	92.88	End Shut-In(2)
181	1459.04	93.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mdy Wtr w/oil show in top tool	1.26

## Gas Rates

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



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

H & B Petroleum Corp

**Ouderkirk # 14**

Box 277  
Ellinwood, KS 67526

**7-10-19 Rooks,KS**

Job Ticket: 040961

DST#: 1

ATTN: Al Hammersmith

Test Start: 2010.11.16 @ 09:40:03

**Tool Information**

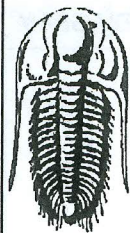
Drill Pipe:	Length: 3213.00 ft	Diameter: 3.80 inches	Volume: 45.07 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<b>Total Volume: 45.07 bbl</b>	Tool Chased	8.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3236.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	37.00 ft				
Tool Length:	65.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3209.00	
Shut In Tool	5.00			3214.00	
Hydraulic tool	5.00			3219.00	
Jars	5.00			3224.00	
Safety Joint	3.00			3227.00	
Packer	5.00			3232.00	28.00 Bottom Of Top Packer
Packer	4.00			3236.00	
Stubb	1.00			3237.00	
Recorder	0.00	8354	Inside	3237.00	
Recorder	0.00	8653	Outside	3237.00	
Perforations	33.00			3270.00	
Bullnose	3.00			3273.00	37.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp

**Ouderkirk # 14**

Box 277  
Ellinwood, KS 67526

**7-10-19 Rooks, KS**

Job Ticket: 040961

DST#: 1

ATTN: Al Hammersmith

Test Start: 2010.11.16 @ 09:40:03

### 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:

60000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Mdy Wtr w /oil show in top tool	1.262

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

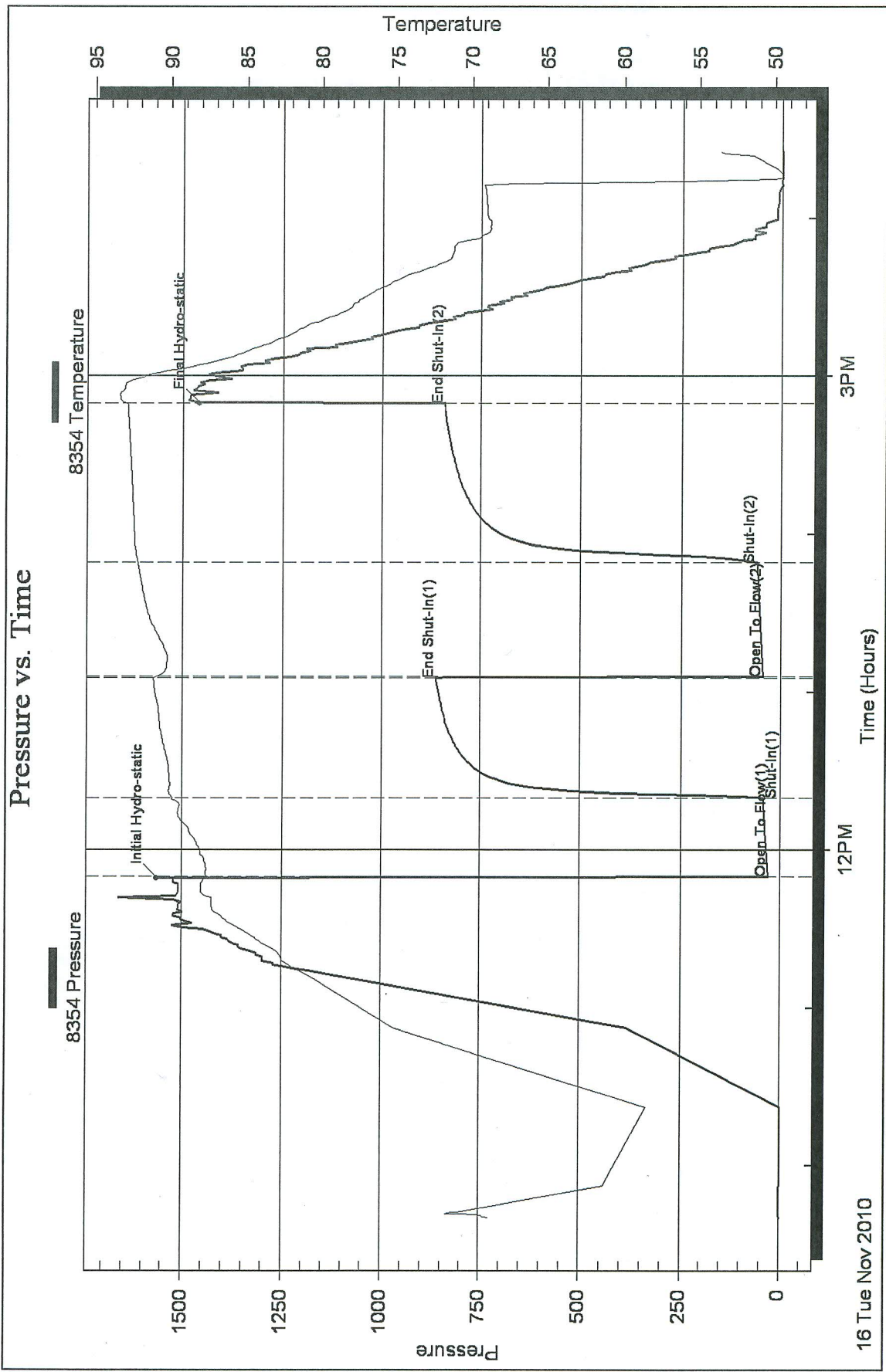
Serial #:

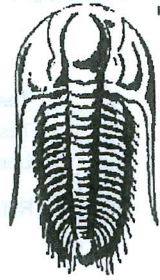
Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .13 @ 70 = 60000ppm

# Pressure vs. Time





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## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp**

Box 277  
Ellinwood, KS 67526

ATTN: Al Hammersmith

**7-10-19 Rooks,KS**

**Ouderkirk # 14**

Start Date: 2010.11.17 @ 17:35:44

End Date: 2010.11.18 @ 00:33:44

Job Ticket #: 040962      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H & B Petroleum Corp

Ouderkirk # 14

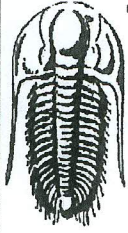
7-10-19 Rooks,KS

DST # 2

B-F

LKC

2010.11.17



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## DRILL STEM TEST REPORT

H & B Petroleum Corp

Ouderkirk # 14

Box 277  
Ellinwood, KS 67526

7-10-19 Rooks, KS

Job Ticket: 040962

DST#: 2

ATTN: Al Hammersmith

Test Start: 2010.11.17 @ 17:35:44

### GENERAL INFORMATION:

Formation: **B-F LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:23:59

Time Test Ended: 00:33:44

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3484.00 ft (KB) To 3560.00 ft (KB) (TVD)**

Total Depth: 3560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2233.00 ft (KB)

2227.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: **8354**

Inside

Press@RunDepth: 174.73 psig @ 3487.00 ft (KB)

Start Date: 2010.11.17

End Date: 2010.11.18

Start Time: 17:35:45

End Time: 00:33:44

Capacity: 8000.00 psig

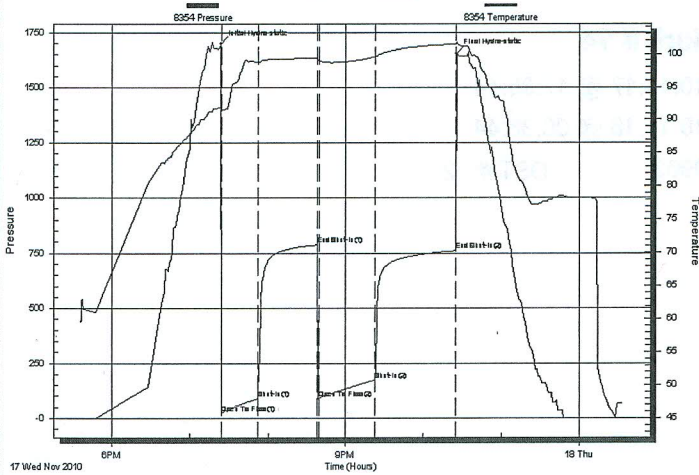
Last Calib.: 2010.11.18

Time On Btm: 2010.11.17 @ 19:23:44

Time Off Btm: 2010.11.17 @ 22:25:29

**TEST COMMENT:** IF-Strong B-B in 13 min  
ISI-Weak surface blow died in 20 min  
FF-Strong B-B in 15 min  
FSI-Weak steady surface blow

Pressure vs. Time



### PRESSURE SUMMARY

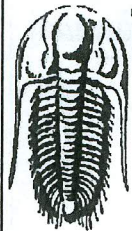
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1697.60	91.83	Initial Hydro-static
1	21.43	91.34	Open To Flow (1)
29	87.50	98.76	Shut-In(1)
75	787.33	99.32	End Shut-In(1)
76	89.90	99.02	Open To Flow (2)
120	174.73	99.54	Shut-In(2)
182	760.78	101.43	End Shut-In(2)
182	1654.34	101.73	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	SltlyOCMdyWtr 5%o 75%w 20%m	1.68
120.00	MCGsyO 5%g 65%o 30%m	1.68
60.00	SltlyMCGsyO 5%g 92%o 3%m	0.84
55.00	CGsyO 10%g 90%o	0.77

### Gas Rates

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



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TOOL DIAGRAM

H & B Petroleum Corp

Ouderkirk # 14

Box 277  
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7-10-19 Rooks, KS

Job Ticket: 040962

DST#: 2

ATTN: Al Hammersmith

Test Start: 2010.11.17 @ 17:35:44

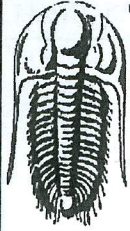
### Tool Information

Drill Pipe:	Length: 3459.00 ft	Diameter: 3.80 inches	Volume: 48.52 bbl	Tool Weight:	3000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<b>Total Volume: 48.52 bbl</b>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3484.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	76.00 ft				
Tool Length:	104.00 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			3457.00	
Shut In Tool	5.00			3462.00	
Hydraulic tool	5.00			3467.00	
Jars	5.00			3472.00	
Safety Joint	3.00			3475.00	
Packer	5.00			3480.00	28.00 Bottom Of Top Packer
Packer	4.00			3484.00	
Stubb	1.00			3485.00	
Perforations	1.00			3486.00	
Change Over Sub	1.00			3487.00	
Recorder	0.00	8354	Inside	3487.00	
Recorder	0.00	8653	Outside	3487.00	
Drill Pipe	61.00			3548.00	
Change Over Sub	1.00			3549.00	
Perforations	8.00			3557.00	
Bullnose	3.00			3560.00	76.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>104.00</b>				





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Job Ticket: 040962

DST#: 2

ATTN: Al Hammersmith

Test Start: 2010.11.17 @ 17:35:44

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 8.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 32 deg API  
Water Salinity: 68000 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
120.00	SiltyOCMdyWtr 5%o 75%w 20%m	1.683
120.00	MCGsyO 5%g 65%o 30%m	1.683
60.00	SiltyMCGsyO 5%g 92%o 3%m	0.842
55.00	CGsyO 10%g 90%o	0.772

Total Length: 355.00 ft      Total Volume: 4.980 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Rw .09 @ 70 = 68000ppm

