

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

## DRILL STEM TEST REPORT

Prepared For: **Cambria Corporation**

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**32 23S 15W Pawnee KS**

**Becker Trust #2**

Start Date: 2007.07.20 @ 20:06:26

End Date: 2007.07.21 @ 03:53:11

Job Ticket #: 28378                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cambria Corporation

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**Becker Trust #2**

**32 23S 15W Pawnee KS**

Job Ticket: 28378      DST#: 1

Test Start: 2007.07.20 @ 20:06:26

## GENERAL INFORMATION:

Formation: **Chase**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:39:11

Time Test Ended: 03:53:11

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Interval: **2120.00 ft (KB) To 2151.00 ft (KB) (TVD)**

Total Depth: 2151.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2045.00 ft (KB)

2035.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6752 Inside**

Press@RunDepth: 94.47 psig @ 2121.00 ft (KB)

Start Date: 2007.07.20

End Date:

2007.07.21

Start Time: 20:06:31

End Time:

03:53:10

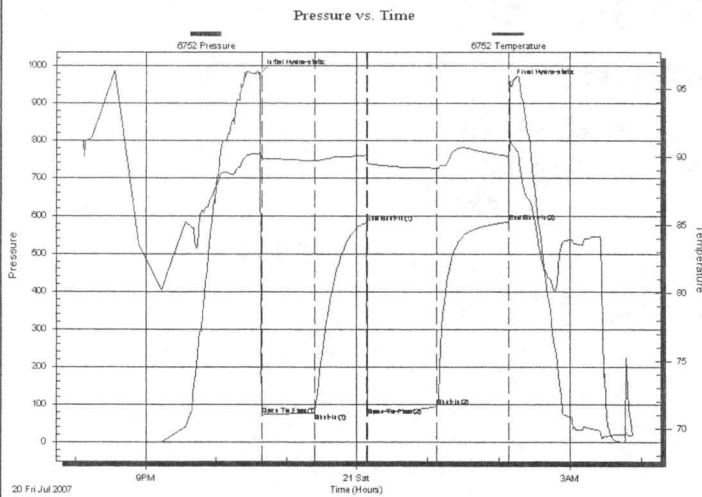
Capacity: 7000.00 psig

Last Calib.: 2007.07.21

Time On Btm: 2007.07.20 @ 22:37:11

Time Off Btm: 2007.07.21 @ 02:08:55

TEST COMMENT: IF Strong Blow BOB in 3 minutes  
ISI Bled Off No Blow back  
FF Strong Blow BOB Immediate  
FSI Bled Off No Blow back



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	978.44	90.15	Initial Hydro-static
2	71.38	89.85	Open To Flow (1)
47	76.58	89.66	Shut-In (1)
91	582.77	90.09	End Shut-In (1)
92	69.77	89.44	Open To Flow (2)
151	94.47	89.13	Shut-In (2)
211	584.65	90.04	End Shut-In (2)
212	952.28	91.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1514 Feet GIP	0.00
130.00	GSY WCM 2%G 34%W 64%M	0.64

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cambria Corporation  
 PO Box 1065  
 Great Bend KS 67530  
 ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
 Job Ticket: 28378      **DST#: 1**  
 Test Start: 2007.07.20 @ 20:06:26

**Tool Information**

Drill Pipe:	Length: 1972.00 ft	Diameter: 3.80 inches	Volume: 27.66 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: 20000.00 lb
Drill Collar:	Length: 152.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 28.41 bbl		Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2120.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			2095.00	
Change Over Sub	1.00			2096.00	
Shut In Tool	5.00			2101.00	
Hydraulic tool	5.00			2106.00	
Jars	5.00			2111.00	
Packer	5.00			2116.00	26.00      Bottom Of Top Packer
Packer	4.00			2120.00	
Stubb	1.00			2121.00	
Recorder	0.00	6752	Inside	2121.00	
Perforations	27.00			2148.00	
Recorder	0.00	6704	Outside	2148.00	
Bullnose	3.00			2151.00	31.00      Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28378      DST#: 1  
Test Start: 2007.07.20 @ 20:06:26

### 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:	9000 ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.55 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

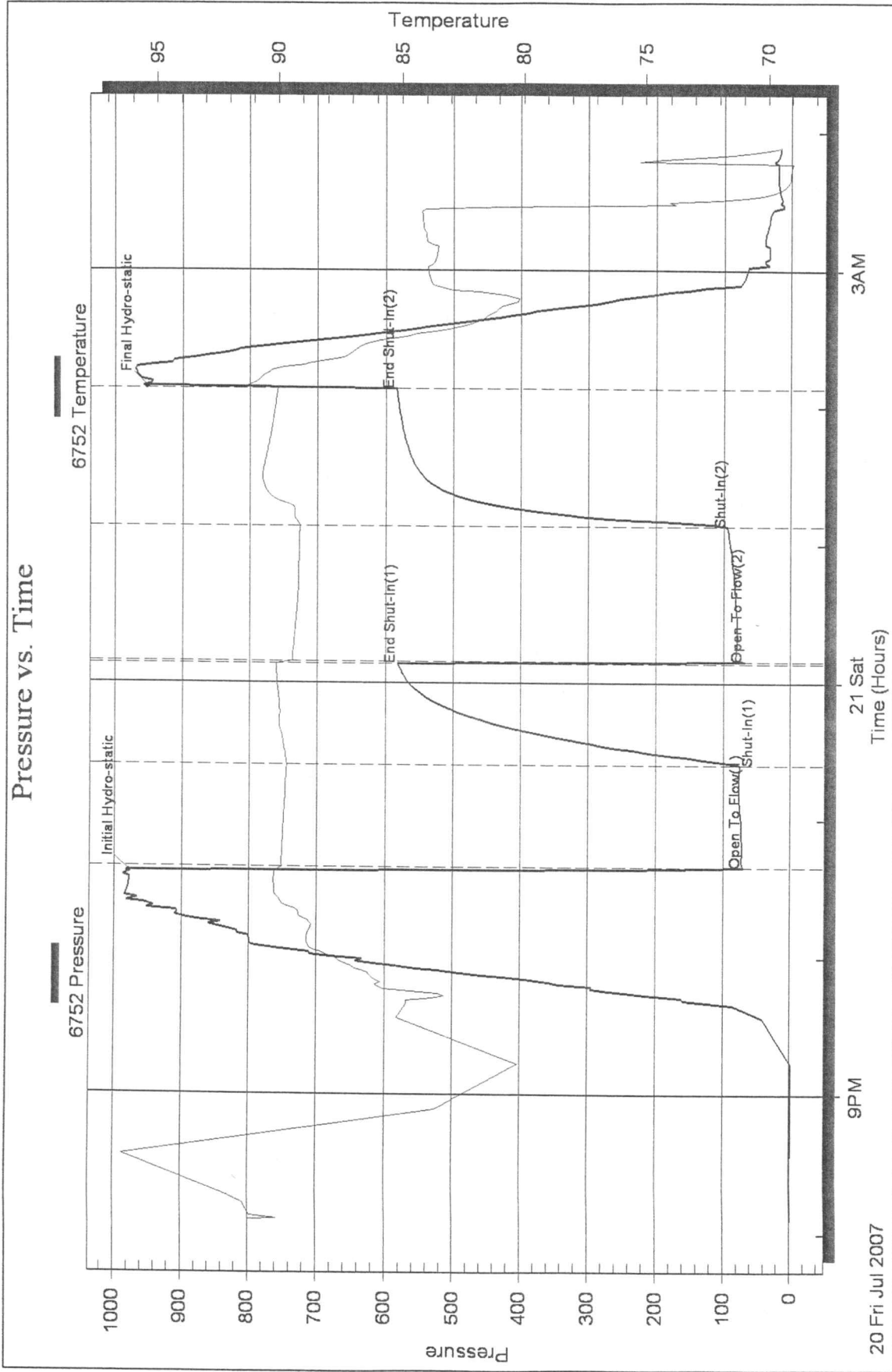
### Recovery Information

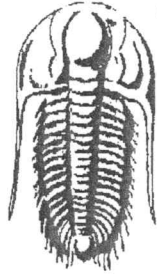
Recovery Table

Length ft	Description	Volume bbl
0.00	1514 Feet GIP	0.000
130.00	GSY WCM 2%G 34%W 64%M	0.639

Total Length: 130.00 ft      Total Volume: 0.639 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Cambria Corporation**

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**32 23S 15W Pawnee KS**

**Becker Trust #2**

Start Date: 2007.07.21 @ 08:16:59

End Date: 2007.07.21 @ 16:46:44

Job Ticket #: 28379                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Cambria Corporation

Becker Trust #2

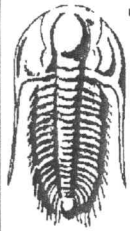
32 23S 15W Pawnee KS

DST # 2

Chase

2007.07.21





**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28379      **DST#: 2**  
Test Start: 2007.07.21 @ 08:16:59

**Tool Information**

Drill Pipe:	Length: 2004.00 ft	Diameter: 3.80 inches	Volume: 28.11 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: 20000.00 lb
Drill Collar:	Length: 152.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 28.86 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2158.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			2133.00	
Change Over Sub	1.00			2134.00	
Shut In Tool	5.00			2139.00	
Hydraulic tool	5.00			2144.00	
Jars	5.00			2149.00	
Packer	5.00			2154.00	26.00 Bottom Of Top Packer
Packer	4.00			2158.00	
Stubb	1.00			2159.00	
Recorder	0.00	6752	Inside	2159.00	
Perforations	28.00			2187.00	
Recorder	0.00	6704	Outside	2187.00	
Bullnose	3.00			2190.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



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# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cambria Corporation

**Becker Trust #2**

PO Box 1065  
Great Bend KS 67530

**32 23S 15W Pawnee KS**

Job Ticket: 28379      **DST#: 2**

ATTN: Jim Musgrove

Test Start: 2007.07.21 @ 08:16:59

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 40.00 sec/qt

Water Loss: 9.53 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 32000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 1841 Feet	0.000
120.00	MCW 22%M 78%W	0.590
195.00	GSY MCW 14%G 36%M 50%W	2.444

Total Length: 315.00 ft      Total Volume: 3.034 bbl

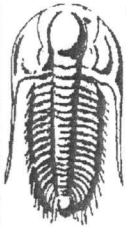
Num Fluid Samples: 0

Num Gas Bombs: 1      Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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# DRILL STEM TEST REPORT

**GAS RATES**

Cambria Corporation

**Becker Trust #2**

PO Box 1065  
Great Bend KS 67530

**32 23S 15W Pawnee KS**

ATTN: Jim Musgrove

Job Ticket: 28379

**DST#: 2**

Test Start: 2007.07.21 @ 08:16:59

## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	5	0.25	42.00	89.47
2	5	0.25	42.00	89.47
2	5	0.25	42.00	89.47
2	10	0.25	49.00	100.58
2	20	0.38	30.00	162.65
2	40	0.38	27.00	151.66
2	50	0.38	27.00	151.66
2	60	0.38	27.00	151.66

Serial #: 6752

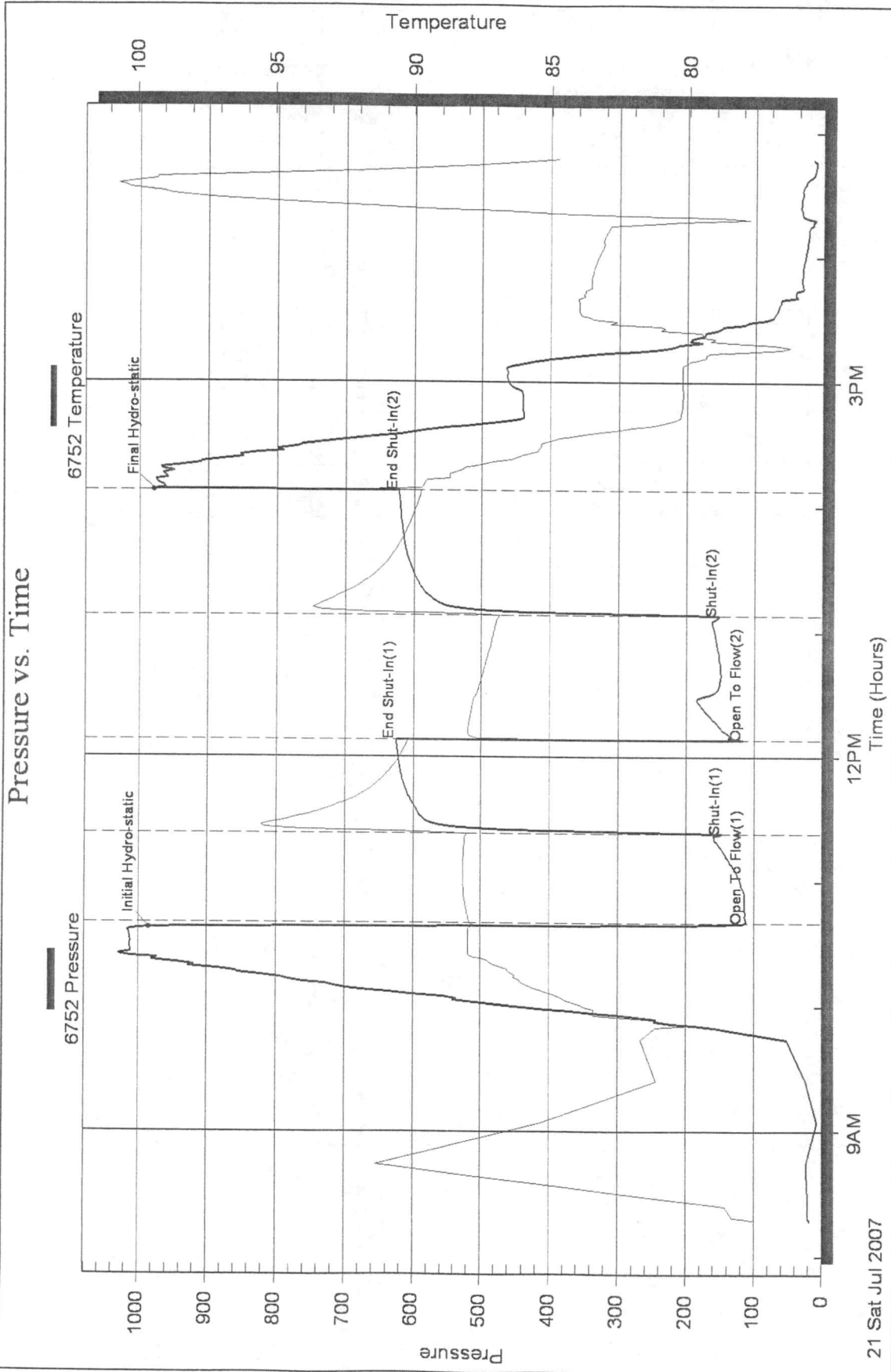
Inside

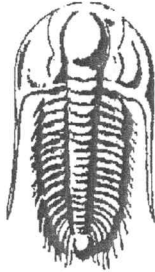
Cambria Corporation

32 23S 15W Paw nee KS

DST Test Number: 2

### Pressure vs. Time





**TRILOBITE**  
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## DRILL STEM TEST REPORT

Prepared For: **Cambria Corporation**

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**32 23S 15W Pawnee KS**

**Becker Trust #2**

Start Date: 2007.07.22 @ 00:33:29

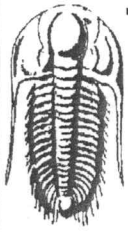
End Date: 2007.07.22 @ 07:28:59

Job Ticket #: 28380                      DST #: 3

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**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cambria Corporation

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**Becker Trust #2**

**32 23S 15W Pawnee KS**

Job Ticket: 28380

**DST#: 3**

Test Start: 2007.07.22 @ 00:33:29

## GENERAL INFORMATION:

Formation: **Reeford**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:06:59

Time Test Ended: 07:28:59

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Interval: **2204.00 ft (KB) To 2282.00 ft (KB) (TVD)**

Total Depth: 2282.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2045.00 ft (KB)

2035.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6752** Inside

Press@RunDepth: 105.69 psig @ 2205.00 ft (KB)

Start Date: 2007.07.22

End Date:

2007.07.22

Start Time: 00:33:34

End Time:

07:28:58

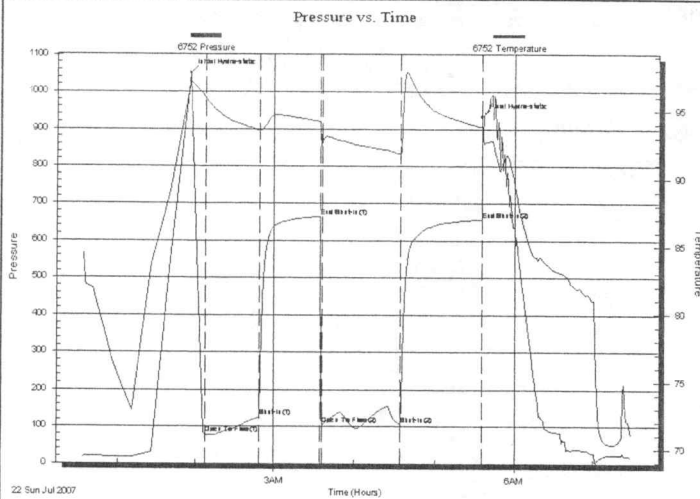
Capacity: 7000.00 psig

Last Calib.: 2007.07.22

Time On Btm: 2007.07.22 @ 01:55:29

Time Off Btm: 2007.07.22 @ 05:35:13

**TEST COMMENT:** IF Strong Blow BOB in 90 seconds GTS in 17 minutes Gauged Gas Took Sample  
ISI Bled Off Weak Surface Blow  
FF Strong Blow BOB & GTS Immediate Gauged Gas  
FSI Bled Off No Blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1050.27	97.24	Initial Hydro-static
12	78.91	96.02	Open To Flow (1)
53	127.42	93.53	Shut-In(1)
99	664.76	94.23	End Shut-In(1)
101	105.82	92.73	Open To Flow (2)
159	105.69	91.82	Shut-In(2)
220	656.95	93.82	End Shut-In(2)
220	932.60	94.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1950 Feet GIP	0.00
242.00	GSY WCM 6%G 42%W 52%M	2.01

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	21.00	56.16
Last Gas Rate	0.38	27.00	151.66
Max. Gas Rate	0.38	68.00	301.85



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cambria Corporation  
 PO Box 1065  
 Great Bend KS 67530  
 ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
 Job Ticket: 28380      **DST#: 3**  
 Test Start: 2007.07.22 @ 00:33:29

### Tool Information

Drill Pipe:	Length: 2040.00 ft	Diameter: 3.80 inches	Volume: 28.62 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: 20000.00 lb
Drill Collar:	Length: 152.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 29.37 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2204.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 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
Circulating sub	1.00			2179.00	
Change Over Sub	1.00			2180.00	
Shut In Tool	5.00			2185.00	
Hydraulic tool	5.00			2190.00	
Jars	5.00			2195.00	
Packer	5.00			2200.00	26.00      Bottom Of Top Packer
Packer	4.00			2204.00	
Stubb	1.00			2205.00	
Recorder	0.00	6752	Inside	2205.00	
Perforations	4.00			2209.00	
Drill Pipe	64.00			2273.00	
Perforations	6.00			2279.00	
Recorder	0.00	6704	Outside	2279.00	
Bullnose	3.00			2282.00	78.00      Bottom Packers & Anchor

**Total Tool Length: 104.00**



**TRILOBITE  
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## DRILL STEM TEST REPORT

### FLUID SUMMARY

Cambria Corporation

**Becker Trust #2**

PO Box 1065  
Great Bend KS 67530

**32 23S 15W Pawnee KS**

Job Ticket: 28380      **DST#: 3**

ATTN: Jim Musgrove

Test Start: 2007.07.22 @ 00:33:29

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 38.00 sec/qt

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

Resistivity: ohm.m

Salinity: 30000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 26000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1950 Feet GIP	0.000
242.00	GSY WCM 6%G 42%W 52%M	2.010

Total Length: 242.00 ft      Total Volume: 2.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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

# DRILL STEM TEST REPORT

**GAS RATES**

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530

**Becker Trust #2**

**32 23S 15W Pawnee KS**

Job Ticket: 28380

**DST#: 3**

ATTN: Jim Musgrove

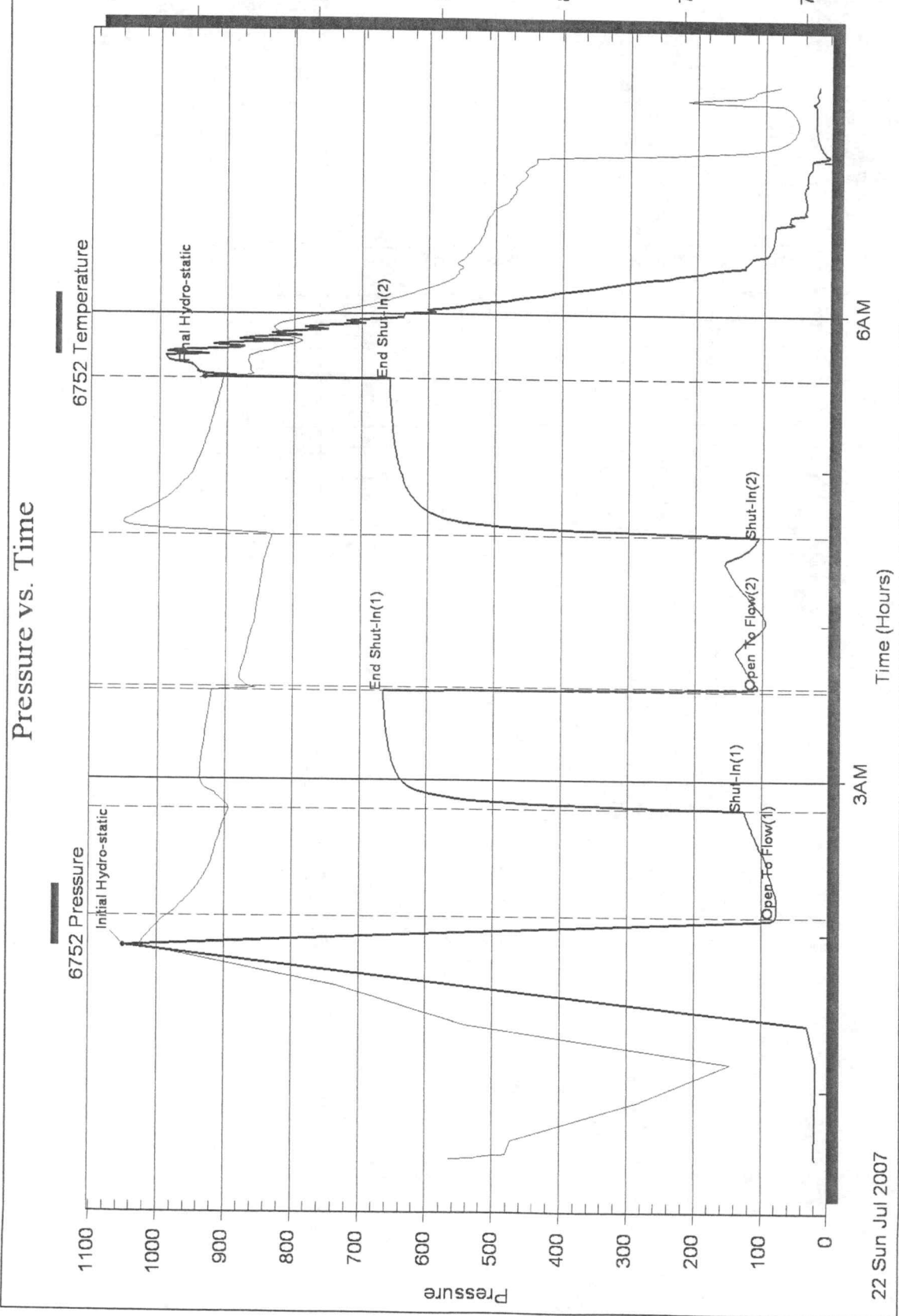
Test Start: 2007.07.22 @ 00:33:29

## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	20	0.25	21.00	56.16
1	30	0.25	32.00	73.61
1	40	0.25	49.00	100.58
1	45	0.25	55.00	110.10
2	10	0.25	16.00	48.23
2	20	0.25	18.00	51.40
2	30	0.25	20.00	54.57
2	40	0.38	68.00	301.85
2	50	0.38	25.00	144.33
2	60	0.38	27.00	151.66





## DRILL STEM TEST REPORT

Prepared For: **Cambria Corporation**

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**32 23S 15W Pawnee KS**

**Becker Trust #2**

Start Date: 2007.07.22 @ 20:30:47

End Date: 2007.07.23 @ 02:34:02

Job Ticket #: 28381                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cambria Corporation  
 PO Box 1065  
 Great Bend KS 67530  
 ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
 Job Ticket: 28381      **DST#: 4**  
 Test Start: 2007.07.22 @ 20:30:47

**GENERAL INFORMATION:**

Formation: **Red Eagle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:45:32  
 Time Test Ended: 02:34:02  
 Interval: **2522.00 ft (KB) To 2572.00 ft (KB) (TVD)**  
 Total Depth: 2572.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole  
 Tester: Leal Cason  
 Unit No: 24  
 Reference Elevations: 2045.00 ft (KB)  
 2035.00 ft (CF)  
 KB to GR/CF: 10.00 ft

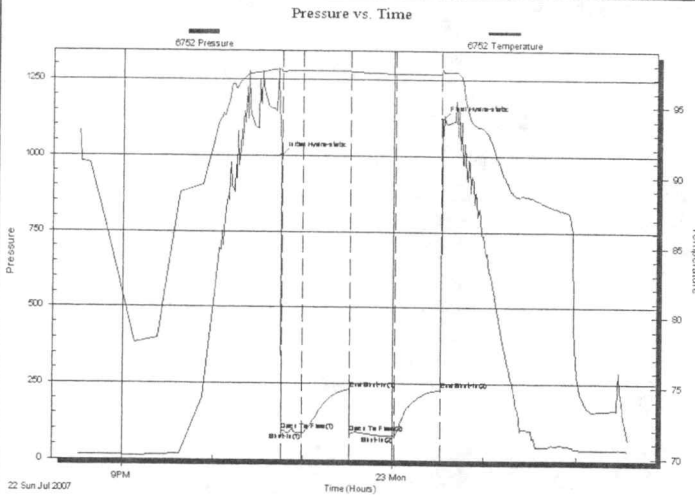
**Serial #: 6752**

Inside

Press@RunDepth: 77.95 psig @ 2523.00 ft (KB)  
 Start Date: 2007.07.22 End Date: 2007.07.23  
 Start Time: 20:30:52 End Time: 02:34:01

Capacity: 7000.00 psig  
 Last Calib.: 2007.07.23  
 Time On Btm: 2007.07.22 @ 22:44:47  
 Time Off Btm: 2007.07.23 @ 00:32:17

**TEST COMMENT:** IF Weak Blow 3 1/2 inches  
 ISI Bled Off No Blow back  
 FF Fair Blow 7 inches  
 FSI Bled Off No Blow back



**PRESSURE SUMMARY**

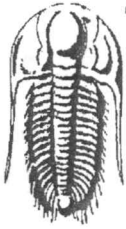
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	999.45	97.63	Initial Hydro-static
1	93.18	97.50	Open To Flow (1)
15	88.06	97.55	Shut-In(1)
47	229.85	97.56	End Shut-In(1)
47	88.31	97.53	Open To Flow (2)
77	77.95	97.36	Shut-In(2)
107	229.70	97.37	End Shut-In(2)
108	1121.50	97.71	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
65.00	Drig Mud	0.32

**Gas Rates**

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



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TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28381      **DST#: 4**  
Test Start: 2007.07.22 @ 20:30:47

**Tool Information**

Drill Pipe:	Length: 2356.00 ft	Diameter: 3.80 inches	Volume: 33.05 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: 20000.00 lb
Drill Collar:	Length: 152.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 33.80 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2522.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

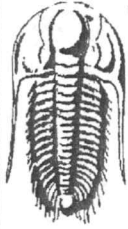
Tool Comments:

**Tool Description**

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

Circulating sub	1.00			2497.00	
Change Over Sub	1.00			2498.00	
Shut In Tool	5.00			2503.00	
Hydraulic tool	5.00			2508.00	
Jars	5.00			2513.00	
Packer	5.00			2518.00	26.00      Bottom Of Top Packer
Packer	4.00			2522.00	
Stubb	1.00			2523.00	
Recorder	0.00	6752	Inside	2523.00	
Perforations	4.00			2527.00	
Drill Pipe	32.00			2559.00	
Perforations	10.00			2569.00	
Recorder	0.00	6704	Outside	2569.00	
Bullnose	3.00			2572.00	50.00      Bottom Packers & Anchor

**Total Tool Length:    76.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28381      **DST#: 4**  
Test Start: 2007.07.22 @ 20:30:47

### 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: 38.00 sec/qt	Cushion Volume: bbl		
Water Loss: in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 36000.00 ppm			
Filter Cake: inches			

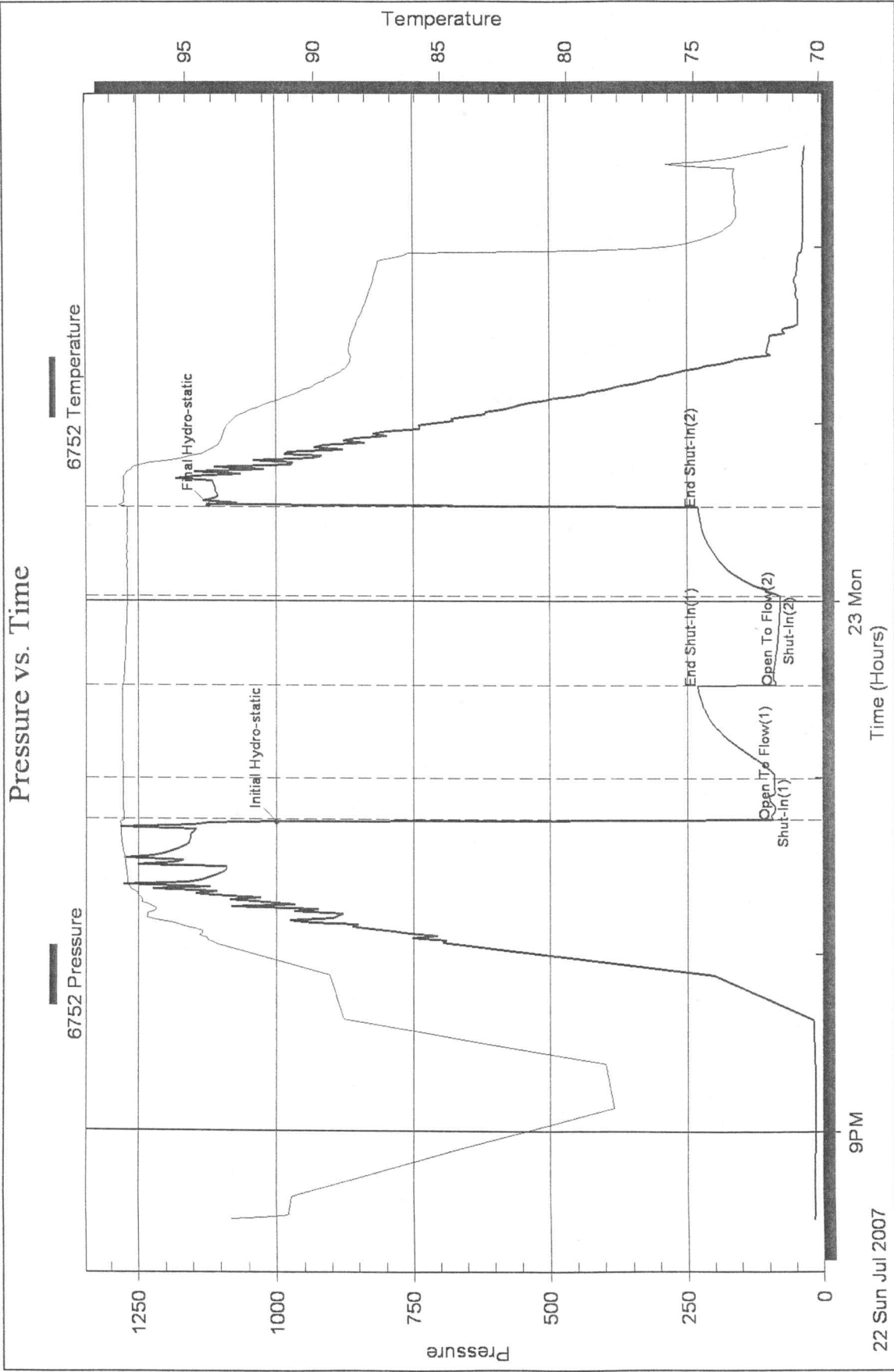
### Recovery Information

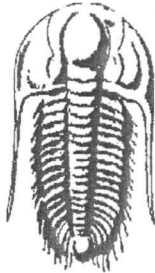
Recovery Table

Length ft	Description	Volume bbl
65.00	Drig Mud	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Cambria Corporation**

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**32 23S 15W Pawnee KS**

**Becker Trust #2**

Start Date: 2007.07.24 @ 12:13:18

End Date: 2007.07.24 @ 19:19:48

Job Ticket #: 28354                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cambria Corporation  
 PO Box 1065  
 Great Bend KS 67530  
 ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
 Job Ticket: 28354      **DST#: 5**  
 Test Start: 2007.07.24 @ 12:13:18

**GENERAL INFORMATION:**

Formation: **Topeka**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:44:03  
 Time Test Ended: 19:19:48

Test Type: Conventional Bottom Hole  
 Tester: Travy Cushenbery  
 Unit No: 30

Interval: **3070.00 ft (KB) To 3109.00 ft (KB) (TVD)**  
 Total Depth: 3109.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

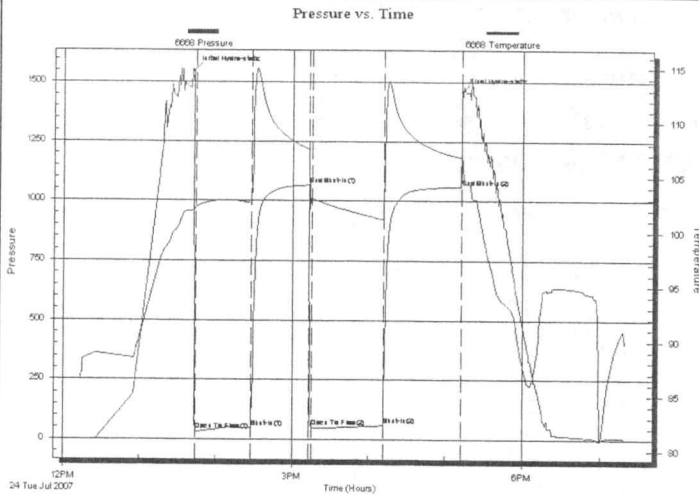
Reference Elevations: 2045.00 ft (KB)  
 2035.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6668 Inside**

Press@RunDepth: 58.62 psig @ 3070.00 ft (KB)  
 Start Date: 2007.07.24 End Date: 2007.07.24  
 Start Time: 12:13:23 End Time: 19:19:47

Capacity: 7000.00 psig  
 Last Calib.: 2007.07.24  
 Time On Btm: 2007.07.24 @ 13:42:48  
 Time Off Btm: 2007.07.24 @ 17:12:47

TEST COMMENT: IF Strong blow BOB in 45 secs. GTS in 33 mins. See gas report  
 ISI Bled off No blow back  
 FF Strong blow BOB immediately GTS See gas report  
 FSI Bled off No blow back



**PRESSURE SUMMARY**

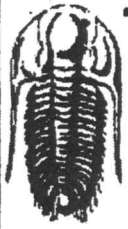
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1549.04	102.07	Initial Hydro-static
2	35.47	102.24	Open To Flow (1)
46	48.41	102.65	Shut-In(1)
91	1065.26	107.57	End Shut-In(1)
93	51.88	103.06	Open To Flow (2)
149	58.62	101.14	Shut-In(2)
210	1060.60	106.83	End Shut-In(2)
210	1460.58	107.14	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	GM 4%G 96%M	0.07
60.00	GM 4%G 96%M	0.72

**Gas Rates**

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.00	6.89
Last Gas Rate	0.13	14.00	10.63
Max. Gas Rate	0.13	14.00	10.63



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cambria Corp  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

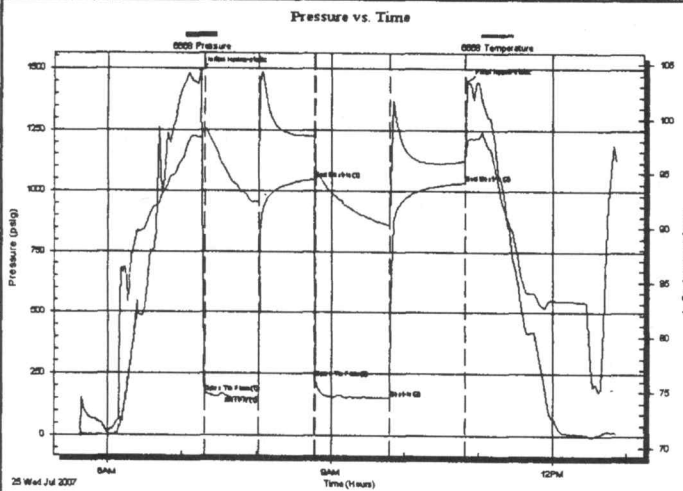
**Becker Trust #2**  
**32 - 23S - 15W**  
Job Ticket: 28355 **DST#5**  
Test Start: 2007.07.25 @ 05:37:45

## GENERAL INFORMATION:

Formation: **Topeka**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 07:18:15  
Time Test Ended: 12:53:45  
Test Type: **Conventional Bottom Hole**  
Tester: **Travy Cushenbery**  
Unit No: **30**  
Interval: **3163.00 ft (KB) To 3190.00 ft (KB) (TVD)**  
Reference Elevations: **2045.00 ft (KB)**  
Total Depth: **3190.00 ft (KB) (TVD)**  
**2035.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
KB to GRFC: **10.00 ft**

**Serial #: 6668** **Inside**  
Press@RunDepth: **151.53 psig @ 3163.00 ft (KB)** Capacity: **7000.00 psig**  
Start Date: **2007.07.25** End Date: **2007.07.25** Last Calib.: **2007.07.25**  
Start Time: **05:37:50** End Time: **12:53:44** Time On Btm: **2007.07.25 @ 07:15:15**  
Time Off Btm: **2007.07.25 @ 10:50:45**

**TEST COMMENT:** IF: Strong blow. B.O.B. immediately. G.T.S. in 3 mins. See gas report.  
ISI: Bled off. No blow back.  
FF: Strong blow. B.O.B. immediately. G.T.S. See gas report.  
FSI: Bled off. No blow back.



## PRESSURE SUMMARY

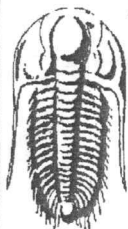
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1490.49	98.29	Initial Hydro-static
3	168.78	99.02	Open To Flow(1)
47	156.26	92.41	Shut-In(1)
91	1048.01	98.46	End Shut-In(1)
92	231.43	93.96	Open To Flow(2)
153	151.53	90.19	Shut-In(2)
214	1035.21	96.17	End Shut-In(2)
216	1448.51	97.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Gasy Mud 2%g 98%m	0.05
62.00	Gasy Watery Mud 10%g 10%w 80%m	0.71

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	25.00	615.42
Last Gas Rate	0.75	30.00	693.52
Max. Gas Rate	0.75	40.00	849.72



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

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28354      **DST#: 5**  
Test Start: 2007.07.24 @ 12:13:18

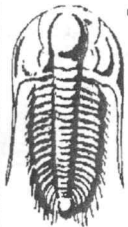
**Tool Information**

Drill Pipe:	Length: 3048.00 ft	Diameter: 3.80 inches	Volume: 42.76 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: 20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 42.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3070.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	64.00 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			3050.00	
Hydraulic tool	5.00			3055.00	
Jars	5.00			3060.00	
Packer	5.00			3065.00	25.00      Bottom Of Top Packer
Packer	5.00			3070.00	
Recorder	0.00	6668	Inside	3070.00	
Perforations	36.00			3106.00	
Recorder	0.00	13266	Outside	3106.00	
Bullnose	3.00			3109.00	39.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>64.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28354      **DST#: 5**  
Test Start: 2007.07.24 @ 12:13:18

## Mud and Cushion Information

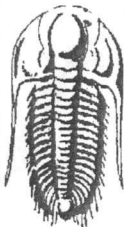
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 35.00 sec/qt			
Water Loss: in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 12000.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GM 4%G 96%M	0.074
60.00	GM 4%G 96%M	0.723

Total Length: 75.00 ft      Total Volume: 0.797 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



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

# DRILL STEM TEST REPORT

**GAS RATES**

Cambria Corporation

**Becker Trust #2**

PO Box 1065  
Great Bend KS 67530

**32 23S 15W Pawnee KS**

Job Ticket: 28354      **DST#: 5**

ATTN: Jim Musgrove

Test Start: 2007.07.24 @ 12:13:18

## Gas Rates Information

Temperature:            59 deg C  
Relative Density:      0.65  
Z Factor:                0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	33	0.13	4.00	6.89
1	33	0.13	4.00	6.89
1	40	0.13	3.00	6.51
1	45	0.13	2.00	6.14
2	10	0.13	5.00	7.26
2	20	0.13	10.00	9.13
2	30	0.13	11.00	9.51
2	40	0.13	12.00	9.88
2	50	0.13	14.00	10.63

Serial #: 6668

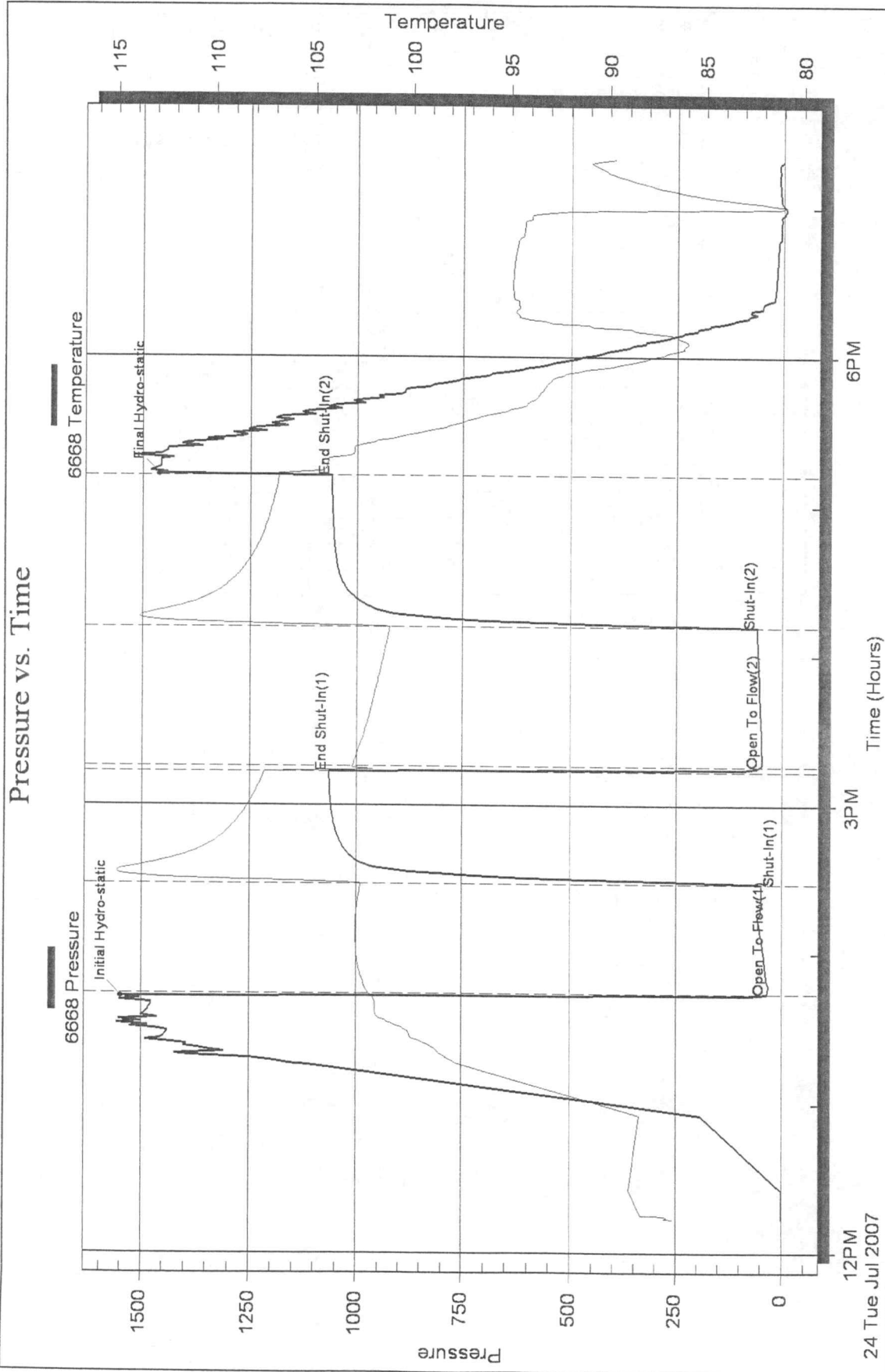
Inside

Cambria Corporation

32 23S 15W Paw nee KS

DST Test Number: 5

### Pressure vs. Time



24 Tue Jul 2007 12PM



## DRILL STEM TEST REPORT

Prepared For: **Cambria Corporation**

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**32 23S 15W Pawnee KS**

**Becker Trust #2**

Start Date: 2007.07.25 @ 05:37:45

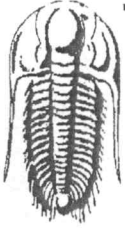
End Date: 2007.07.25 @ 12:53:45

Job Ticket #: 28355                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28355      **DST#: 6**  
Test Start: 2007.07.25 @ 05:37:45

## GENERAL INFORMATION:

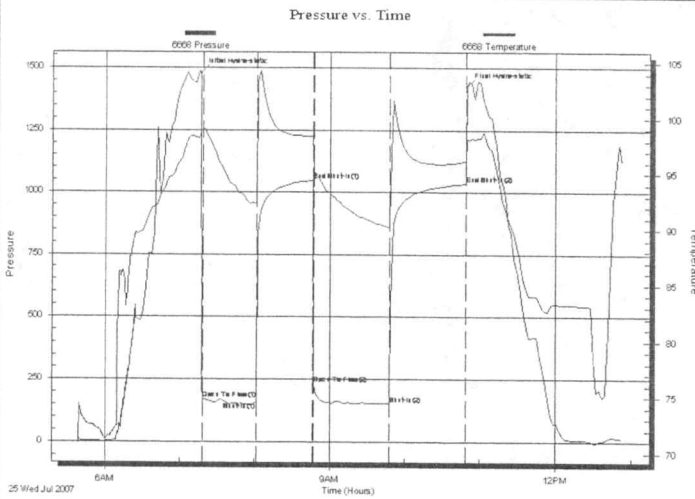
Formation: **Topeka**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:18:15  
Time Test Ended: 12:53:45  
Test Type: Conventional Bottom Hole  
Tester: Travy Cushenbery  
Unit No: 30  
Interval: **3163.00 ft (KB) To 3190.00 ft (KB) (TVD)**  
Total Depth: 3190.00 ft (KB) (TVD)  
Reference Elevations: 2045.00 ft (KB)  
2035.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good  
KB to GR/CF: 10.00 ft

## Serial #: 6668

Inside

Press@RunDepth: 151.53 psig @ 3163.00 ft (KB) Capacity: 7000.00 psig  
Start Date: 2007.07.25 End Date: 2007.07.25 Last Calib.: 2007.07.25  
Start Time: 05:37:50 End Time: 12:53:44 Time On Btm: 2007.07.25 @ 07:16:30  
Time Off Btm: 2007.07.25 @ 10:49:14

TEST COMMENT: IF Strong blow BOB immediately GTS in 3 mins. See gas report.  
ISI Bled off No blow back  
FF Strong blow BOB immediately GTS See gas report  
FSI Bled off No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1480.68	98.74	Initial Hydro-static
2	168.78	99.02	Open To Flow (1)
45	156.26	92.41	Shut-In(1)
90	1048.01	98.46	End Shut-In(1)
90	231.43	93.96	Open To Flow(2)
152	151.53	90.19	Shut-In(2)
213	1035.21	96.17	End Shut-In(2)
213	1426.15	98.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	GM 2%G 98%M	0.05
62.00	GWM 10%G 10%W 80%M	0.71

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	25.00	615.42
Last Gas Rate	0.75	30.00	693.52
Max. Gas Rate	0.75	40.00	849.72



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28355      **DST#: 6**  
Test Start: 2007.07.25 @ 05:37:45

**Tool Information**

Drill Pipe:	Length: 3142.00 ft	Diameter: 3.80 inches	Volume: 44.07 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: 20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3163.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	52.00 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			3143.00	
Hydraulic tool	5.00			3148.00	
Jars	5.00			3153.00	
Packer	5.00			3158.00	25.00      Bottom Of Top Packer
Packer	5.00			3163.00	
Recorder	0.00	6668	Inside	3163.00	
Perforations	24.00			3187.00	
Recorder	0.00	13266	Outside	3187.00	
Bullnose	3.00			3190.00	27.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28355      DST#: 6  
Test Start: 2007.07.25 @ 05:37:45

## Mud and Cushion Information

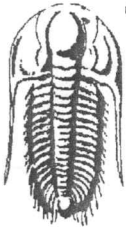
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	9500 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.50 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	GM 2%G 98%M	0.049
62.00	GWM 10%G 10%W 80%M	0.706

Total Length: 72.00 ft      Total Volume: 0.755 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



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

# DRILL STEM TEST REPORT

**GAS RATES**

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28355      **DST#: 6**  
Test Start: 2007.07.25 @ 05:37:45

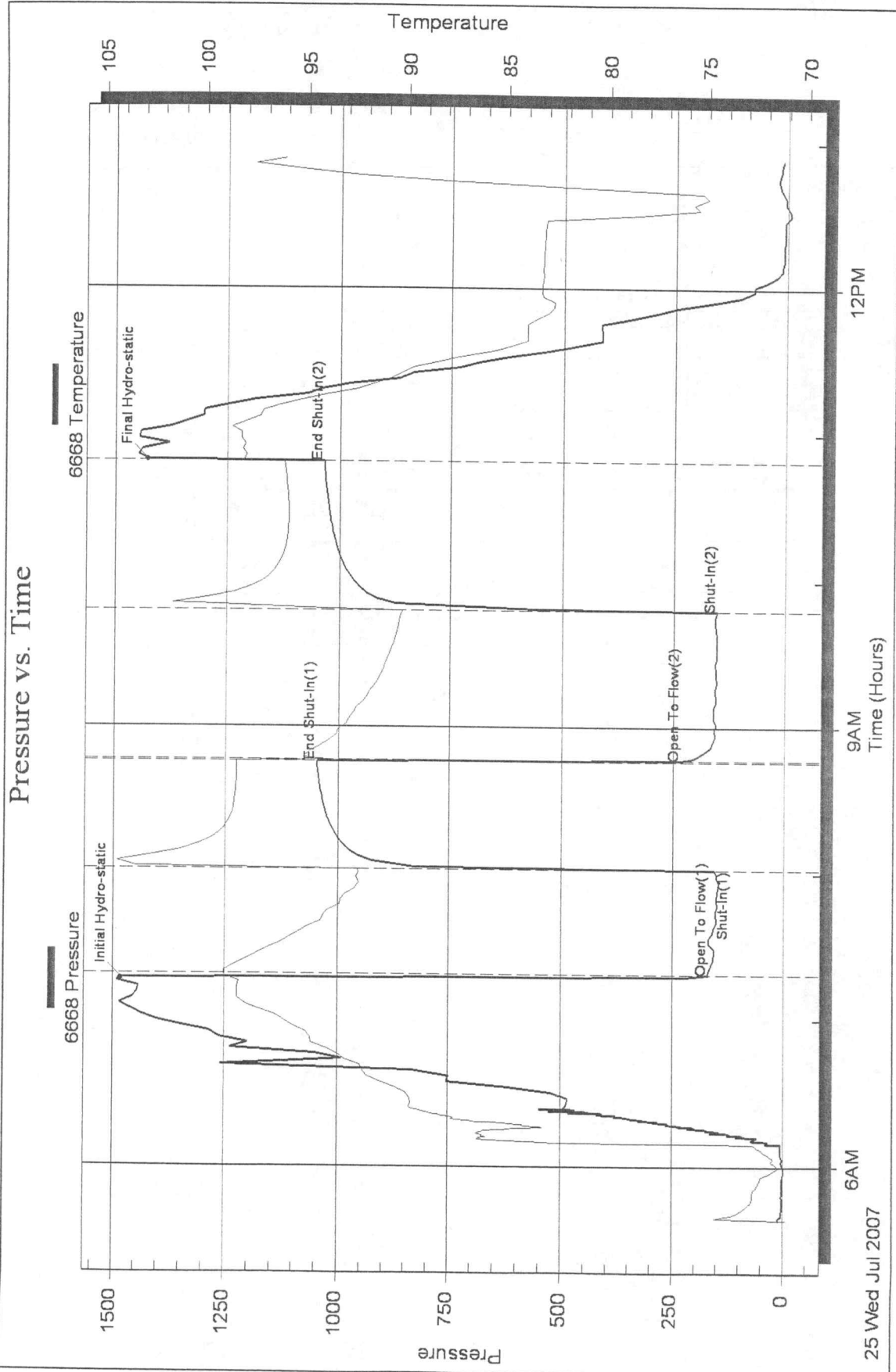
## Gas Rates Information

Temperature:            59 deg C  
Relative Density:      0.65  
Z Factor:                0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.75	25.00	615.42
1	20	0.75	25.00	615.42
1	30	0.75	27.00	646.66
1	40	0.75	27.00	646.66
1	45	0.75	27.00	646.66
2	10	0.75	40.00	849.72
2	20	0.75	30.00	693.52
2	30	0.75	30.00	693.52
2	40	0.75	30.00	693.52
2	50	0.75	30.00	693.52
2	60	0.75	30.00	693.52

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Cambria Corporation**

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**32 23S 15W Pawnee KS**

**Becker Trust #2**

Start Date: 2007.07.25 @ 20:08:25

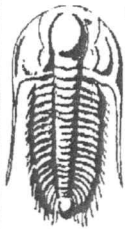
End Date: 2007.07.26 @ 03:44:40

Job Ticket #: 28356                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28356      **DST#: 7**  
Test Start: 2007.07.25 @ 20:08:25

## GENERAL INFORMATION:

Formation: **Deer Creek**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:03:55  
Time Test Ended: 03:44:40

Test Type: Conventional Bottom Hole  
Tester: Travy Cushenbery  
Unit No: 30

Interval: **3196.00 ft (KB) To 3240.00 ft (KB) (TVD)**  
Total Depth: 3240.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2045.00 ft (KB)  
2035.00 ft (CF)  
KB to GR/CF: 10.00 ft

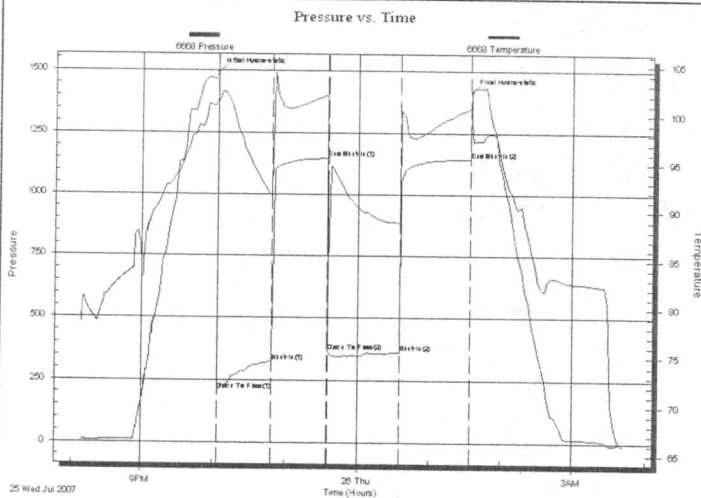
## Serial #: 6668

Inside

Press@RunDepth: 362.60 psig @ 3196.00 ft (KB)  
Start Date: 2007.07.25      End Date: 2007.07.26  
Start Time: 20:08:30      End Time: 03:44:39

Capacity: 7000.00 psig  
Last Calib.: 2007.07.26  
Time On Btm: 2007.07.25 @ 22:03:40  
Time Off Btm: 2007.07.26 @ 01:34:54

TEST COMMENT: IF Strong blow BOB in 20 secs. GTS in 5 mins. See gas report  
ISI Bled off No blow back  
FF Strong blow BOB immediately GTS See gas report  
FSI Bled off No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1493.85	101.70	Initial Hydro-static
1	204.01	101.45	Open To Flow (1)
46	323.82	91.61	Shut-In(1)
91	1148.19	102.00	End Shut-In(1)
92	365.20	84.02	Open To Flow (2)
151	362.60	88.79	Shut-In(2)
211	1147.08	100.70	End Shut-In(2)
212	1414.22	99.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	GM 4%G 96%M	0.61
62.00	GWM 10%G 30%W 60%M	0.87
62.00	WGM 18%G 4%W 78%M	0.87
62.00	GM 6%G 94%M	0.87

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	26.00	631.04
Last Gas Rate	0.75	75.00	1396.42
Max. Gas Rate	0.75	75.00	1396.42



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cambria Corporation  
 PO Box 1065  
 Great Bend KS 67530  
 ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
 Job Ticket: 28356      **DST#: 7**  
 Test Start: 2007.07.25 @ 20:08:25

**Tool Information**

Drill Pipe:	Length: 3174.00 ft	Diameter: 3.80 inches	Volume: 44.52 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: 20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 44.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3196.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	69.00 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			3176.00	
Hydraulic tool	5.00			3181.00	
Jars	5.00			3186.00	
Packer	5.00			3191.00	25.00 Bottom Of Top Packer
Packer	5.00			3196.00	
Recorder	0.00	6668	Inside	3196.00	
Perforations	6.00			3202.00	
Change Over Sub	1.00			3203.00	
Drill Pipe	32.00			3235.00	
Change Over Sub	1.00			3236.00	
Perforations	1.00			3237.00	
Recorder	0.00	13266	Outside	3237.00	
Bullnose	3.00			3240.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28356      **DST#: 7**  
Test Start: 2007.07.25 @ 20:08:25

### 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:	5500 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.76 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	1.16 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	0.20 inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GM 4%G 96%M	0.615
62.00	GWM 10%G 30%W 60%M	0.870
62.00	WGM 18%G 4%W 78%M	0.870
62.00	GM 6%G 94%M	0.870

Total Length: 248.00 ft      Total Volume: 3.225 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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

# DRILL STEM TEST REPORT

**GAS RATES**

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28356      DST#: 7  
Test Start: 2007.07.25 @ 20:08:25

## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	5	0.75	26.00	631.04
1	10	0.75	45.00	927.82
1	20	0.75	50.00	1005.92
1	30	0.75	60.00	1162.12
1	40	0.75	65.00	1240.22
1	45	0.75	65.00	1240.22
2	10	0.75	30.00	693.52
2	20	0.75	70.00	1318.32
2	30	0.75	75.00	1396.42
2	40	0.75	75.00	1396.42
2	50	0.75	75.00	1396.42
2	60	0.75	75.00	1396.42

Serial #: 6668

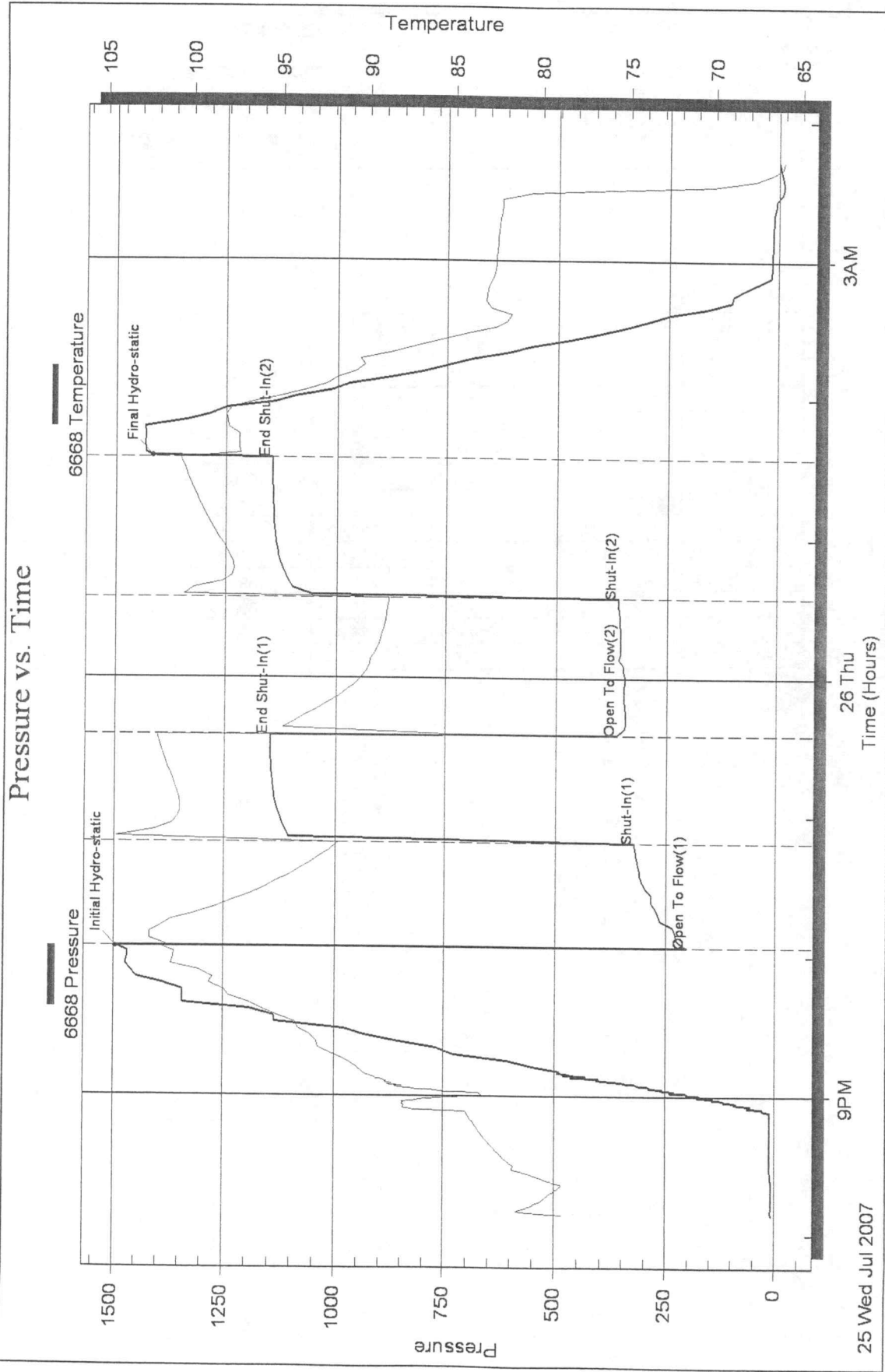
Inside

Cambria Corporation

32 23S 15W Pawnee KS

DST Test Number: 7

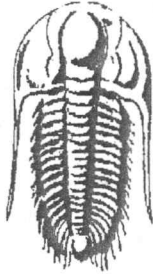
### Pressure vs. Time



25 Wed Jul 2007 9PM

26 Thu  
Time (Hours)

3AM



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

## DRILL STEM TEST REPORT

Prepared For: **Cambria Corporation**

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**32 23S 15W Pawnee KS**

**Becker Trust #2**

Start Date: 2007.07.26 @ 11:32:23

End Date: 2007.07.26 @ 18:36:53

Job Ticket #: 28357                      DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

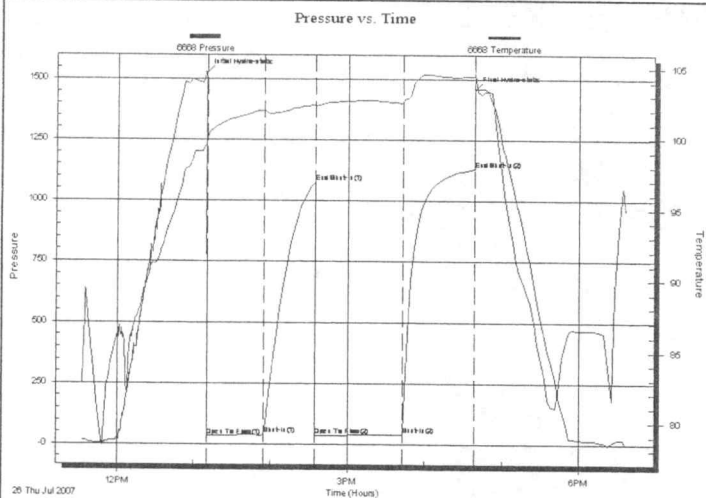
**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28357      **DST#: 8**  
Test Start: 2007.07.26 @ 11:32:23

## GENERAL INFORMATION:

Formation: **Topeka**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:10:08  
Time Test Ended: 18:36:53  
Interval: **3253.00 ft (KB) To 3290.00 ft (KB) (TVD)**  
Total Depth: 3290.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Travy Cushenbery  
Unit No: 30  
Reference Elevations: 2045.00 ft (KB)  
2035.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6668**      **Inside**  
Press@RunDepth: 40.14 psig @ 3253.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.07.26      End Date: 2007.07.26      Last Calib.: 2007.07.26  
Start Time: 11:32:28      End Time: 18:36:52      Time On Btm: 2007.07.26 @ 13:09:38  
Time Off Btm: 2007.07.26 @ 16:38:52

TEST COMMENT: IF Strong blow BOB in 1 min.  
ISI Bled off No blow back  
FF Strong blow BOB immediately GTS TSTM  
FSI Bled off No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1524.95	99.60	Initial Hydro-static
1	31.38	100.11	Open To Flow (1)
45	37.06	102.01	Shut-In(1)
85	1074.58	102.44	End Shut-In(1)
85	33.65	102.34	Open To Flow (2)
153	40.14	102.56	Shut-In(2)
209	1129.59	104.47	End Shut-In(2)
210	1458.10	104.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	GWM 1%G 2%W 97%M	0.10

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cambria Corporation  
 PO Box 1065  
 Great Bend KS 67530  
 ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
 Job Ticket: 28357      **DST#: 8**  
 Test Start: 2007.07.26 @ 11:32:23

**Tool Information**

Drill Pipe:	Length: 3204.00 ft	Diameter: 3.80 inches	Volume: 44.94 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: 20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3253.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 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			3233.00	
Hydraulic tool	5.00			3238.00	
Jars	5.00			3243.00	
Packer	5.00			3248.00	25.00 Bottom Of Top Packer
Packer	5.00			3253.00	
Recorder	0.00	6668	Inside	3253.00	
Perforations	34.00			3287.00	
Recorder	0.00	13266	Outside	3287.00	
Bullnose	3.00			3290.00	37.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>62.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28357      DST#: 8  
Test Start: 2007.07.26 @ 11:32:23

### Mud and Cushion Information

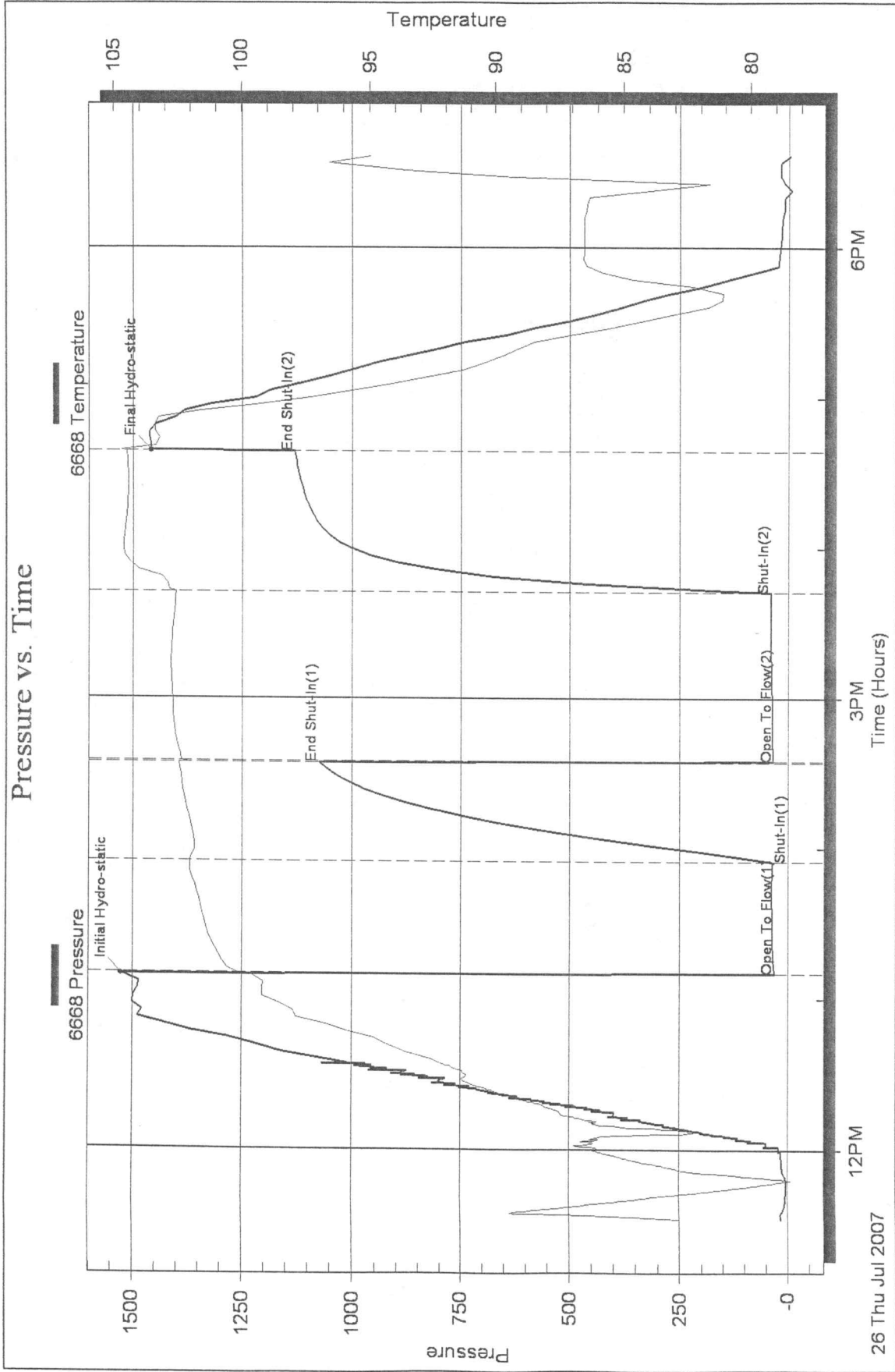
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	11000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.40 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 0.20 inches			

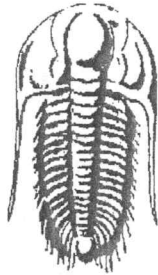
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GWM 1%G 2%W 97%M	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Cambria Corporation**

PO Box 1065  
Great Bend KS 67530

ATTN: Jim Musgrove

**32 23S 15W Pawnee KS**

**Becker Trust #2**

Start Date: 2007.07.27 @ 12:15:57

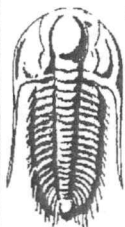
End Date: 2007.07.27 @ 21:16:12

Job Ticket #: 28358                      DST #: 9

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

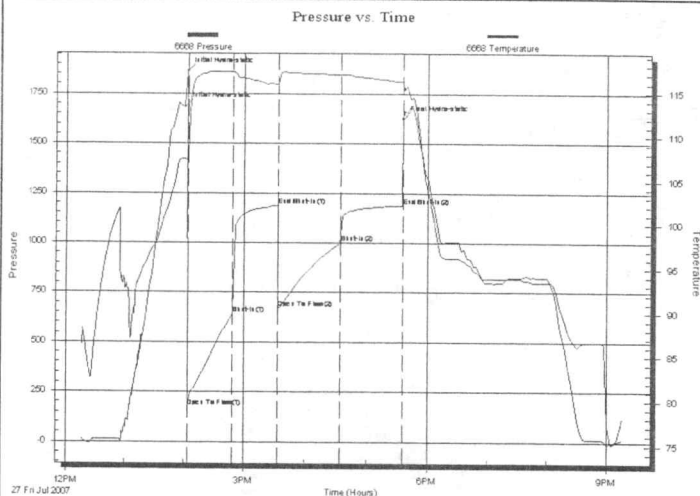
**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28358      DST#: 9  
Test Start: 2007.07.27 @ 12:15:57

## GENERAL INFORMATION:

Formation: **Lansing A & B**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:03:12  
Time Test Ended: 21:16:12  
Interval: **3537.00 ft (KB) To 3580.00 ft (KB) (TVD)**  
Total Depth: 3580.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Travy Cushenbery  
Unit No: 30  
Reference Elevations: 2045.00 ft (KB)  
2035.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6668**      **Inside**  
Press@RunDepth: 998.15 psig @ 3537.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.07.27      End Date: 2007.07.27      Last Calib.: 2007.07.27  
Start Time: 12:16:02      End Time: 21:16:12      Time On Btm: 2007.07.27 @ 14:00:12  
Time Off Btm: 2007.07.27 @ 17:34:41

**TEST COMMENT:** IF Strong blow BOB in 1 min.  
ISI Bled off No blow back  
FF Strong blow BOB in 1 min. 45 secs.  
FSI bled off No blow back (Dropped Bar and circulated out)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.60	107.49	Initial Hydro-static
3	1861.41	107.37	Initial Hydro-static
3	175.60	107.87	Open To Flow (1)
48	639.10	117.35	Shut-In(1)
93	1182.72	115.90	End Shut-In(1)
93	667.65	115.93	Open To Flow (2)
154	998.15	117.02	Shut-In(2)
215	1186.01	116.25	End Shut-In(2)
215	1624.41	116.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2142.00	GWM 10%G 40%W 50%M	29.79

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cambria Corporation  
PO Box 1065  
Great Bend KS 67530  
ATTN: Jim Musgrove

**Becker Trust #2**  
**32 23S 15W Pawnee KS**  
Job Ticket: 28358      **DST#: 9**  
Test Start: 2007.07.27 @ 12:15:57

**Tool Information**

Drill Pipe:	Length: 3494.00 ft	Diameter: 3.80 inches	Volume: 49.01 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: 20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 60000.00 lb
			<b>Total Volume: 49.15 bbl</b>	Tool Chased 15.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3537.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3517.00	
Hydraulic tool	5.00			3522.00	
Jars	5.00			3527.00	
Packer	5.00			3532.00	25.00      Bottom Of Top Packer
Packer	5.00			3537.00	
Recorder	0.00	6668	Inside	3537.00	
Perforations	40.00			3577.00	
Recorder	0.00	13266	Outside	3577.00	
Bullnose	3.00			3580.00	43.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>68.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cambria Corporation

**Becker Trust #2**

PO Box 1065  
Great Bend KS 67530

**32 23S 15W Pawnee KS**

Job Ticket: 28358      **DST#: 9**

ATTN: Jim Musgrove

Test Start: 2007.07.27 @ 12:15:57

## 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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.16 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2142.00	GWM 10%G 40%W 50%M	29.792

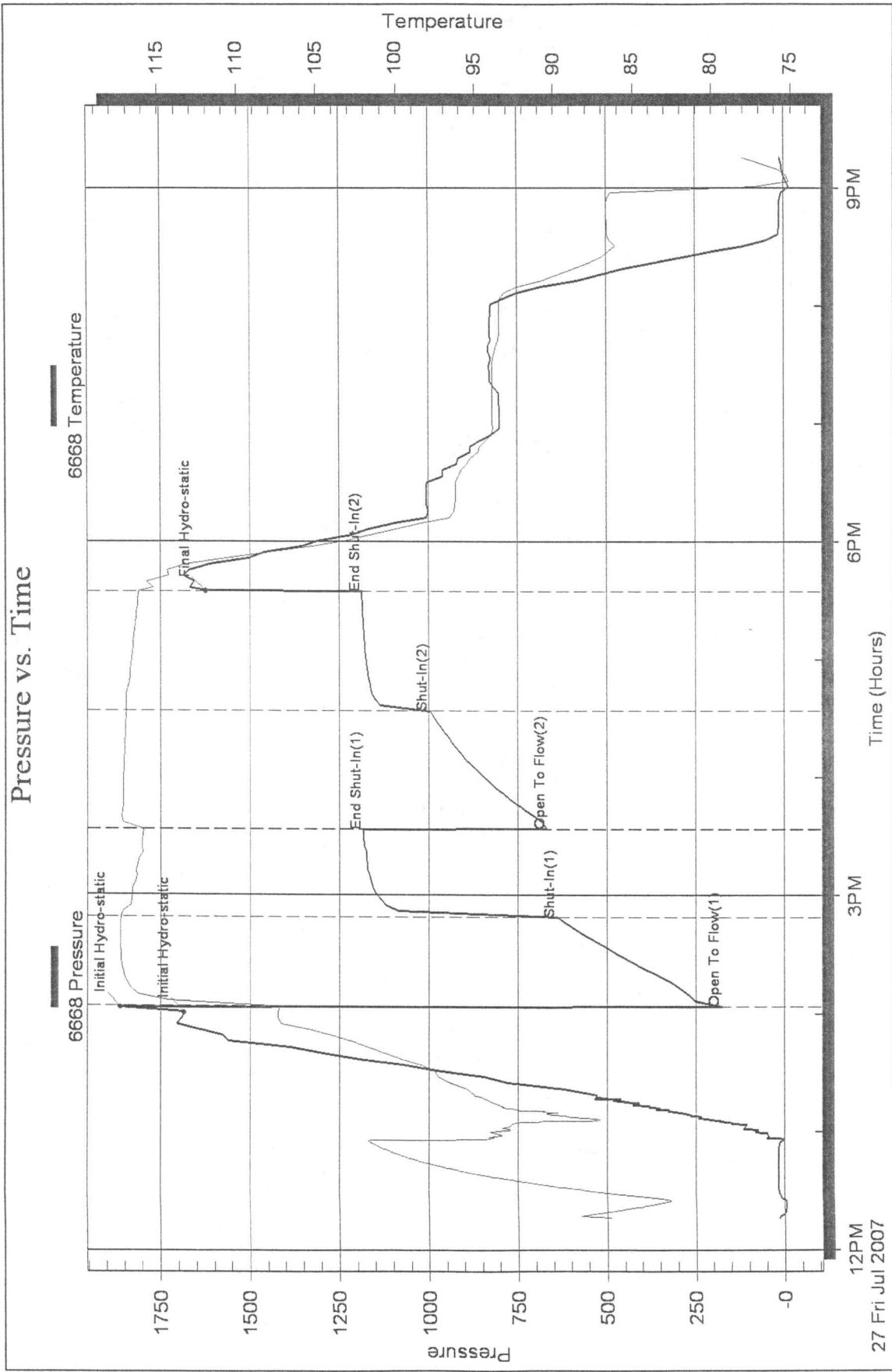
Total Length: 2142.00 ft      Total Volume: 29.792 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

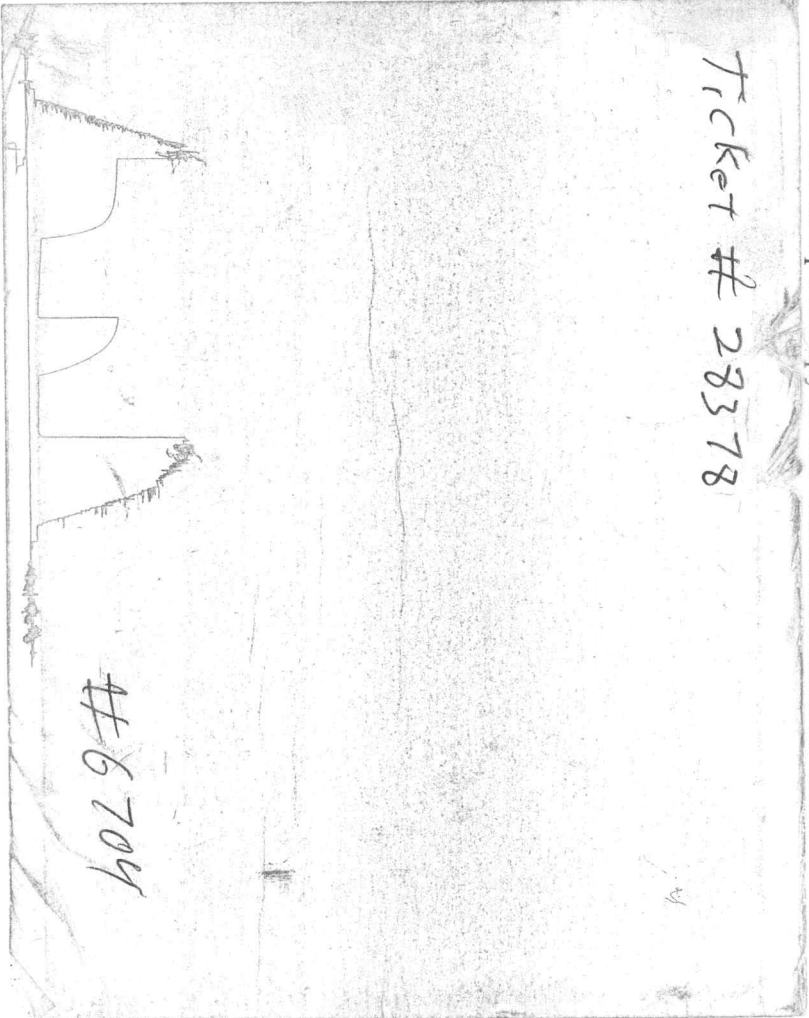


**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.

Ticket # 28378

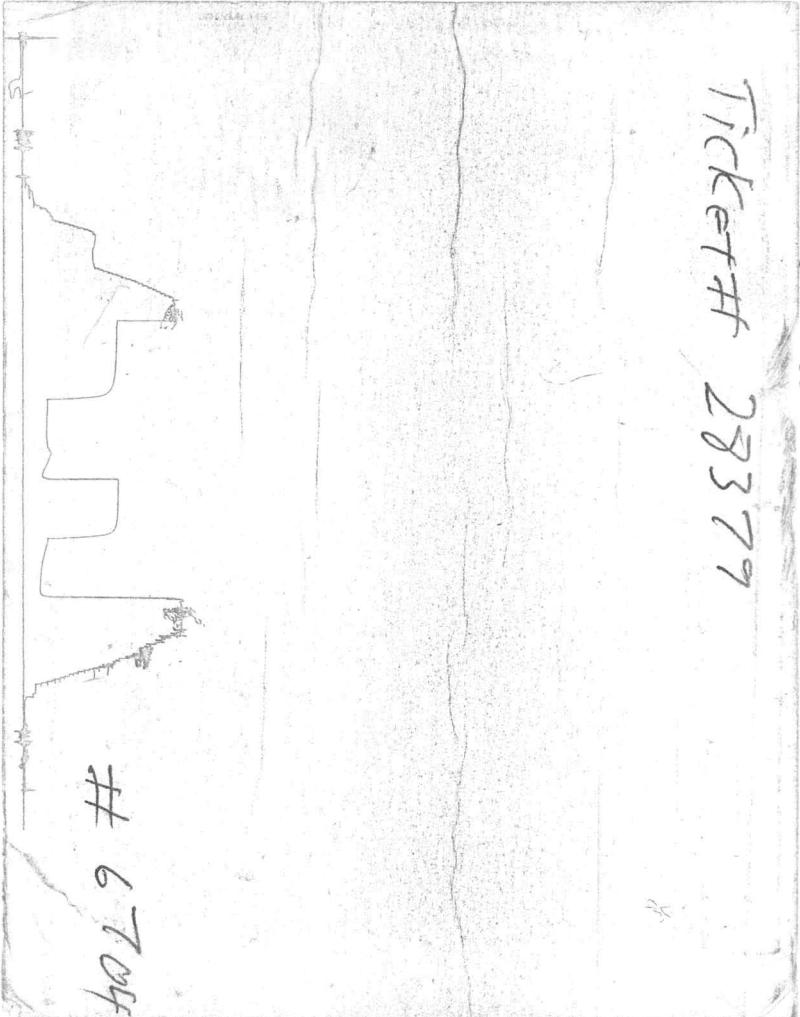
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**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.

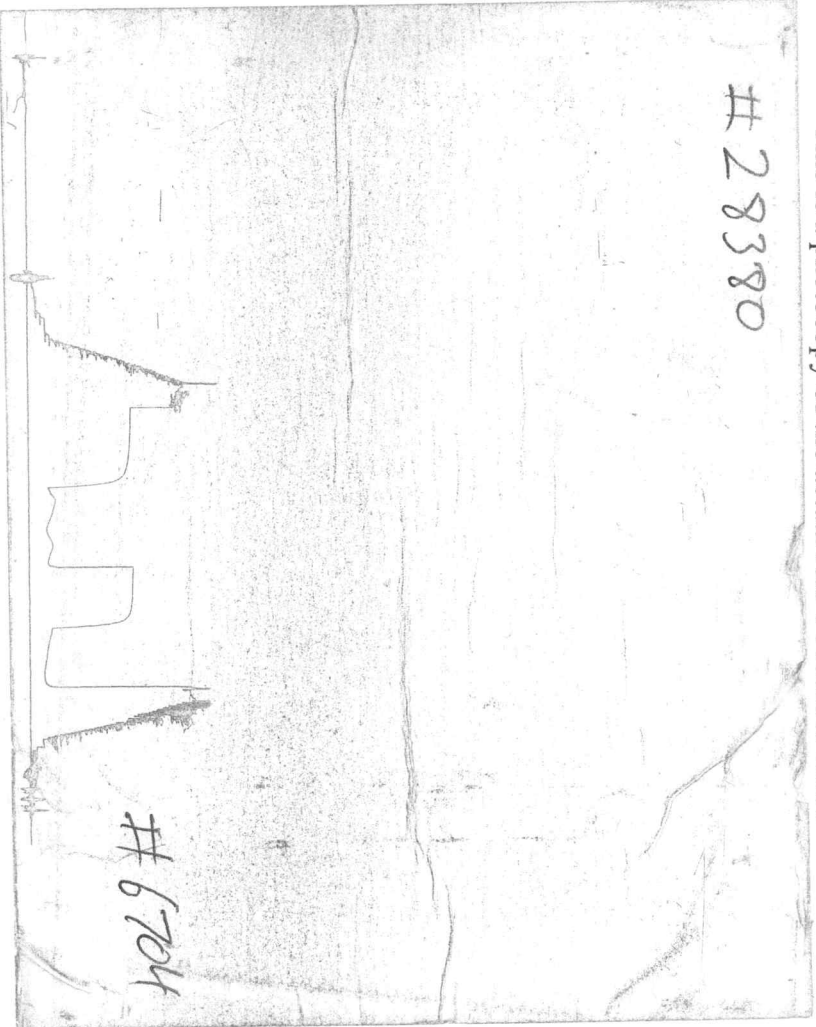
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**CHART PAGE**

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# 28380

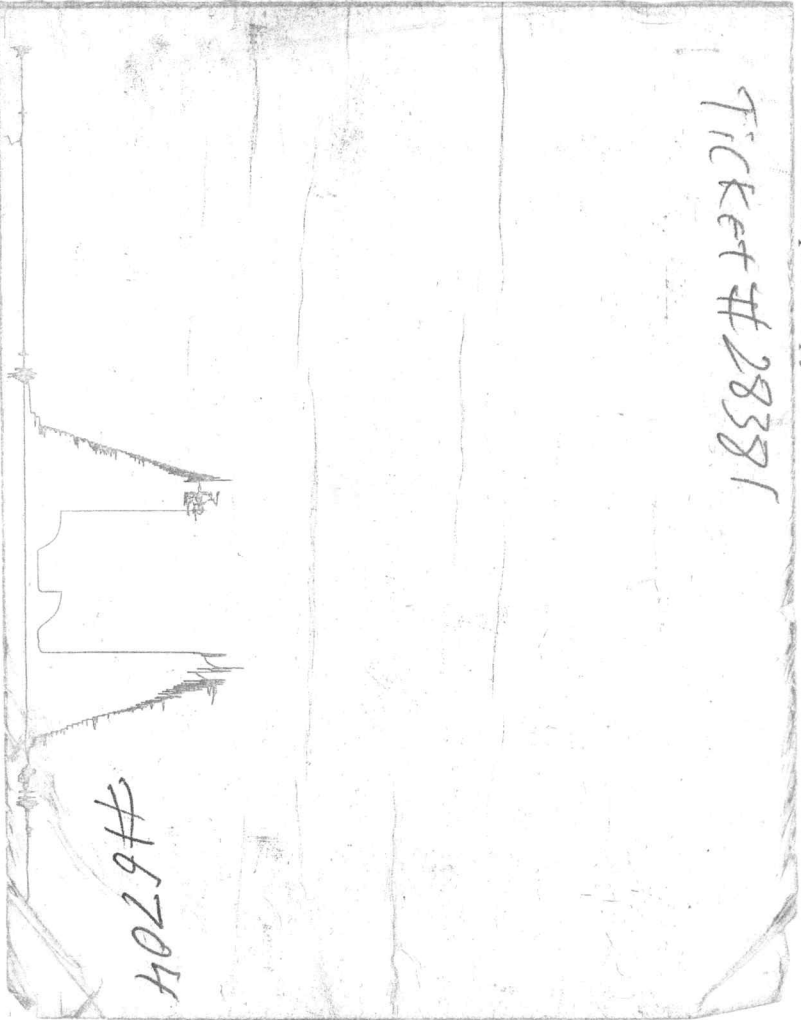


# 6704

**CHART PAGE**

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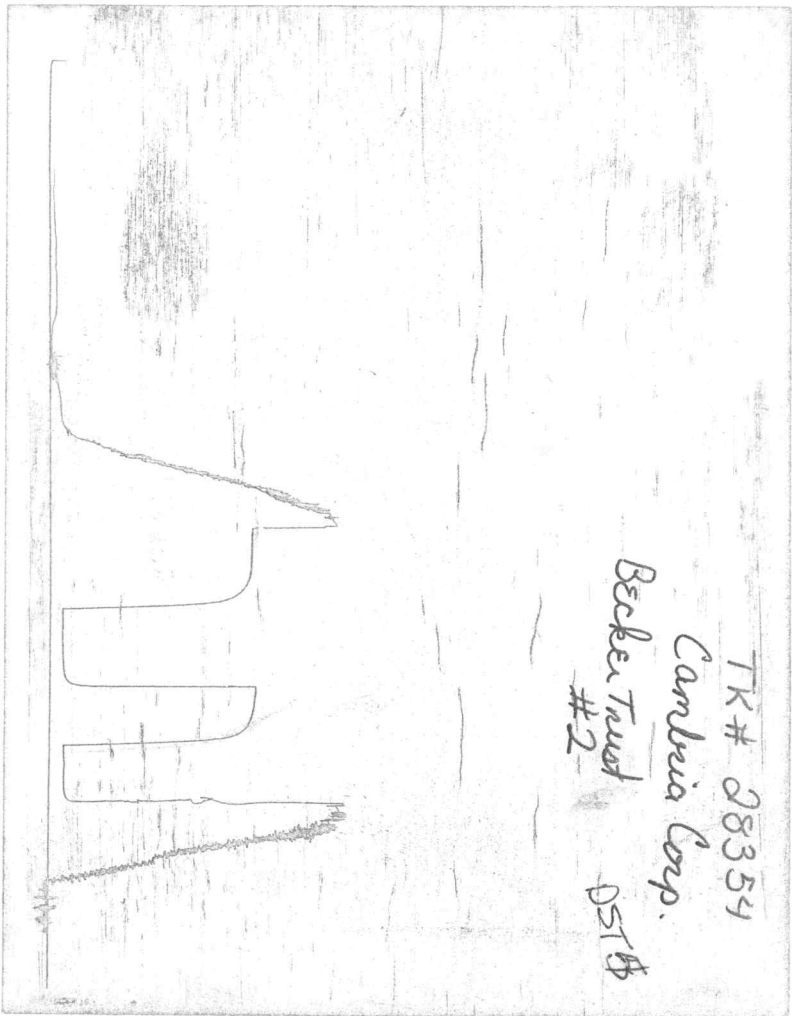
Ticket # 28381



#6704

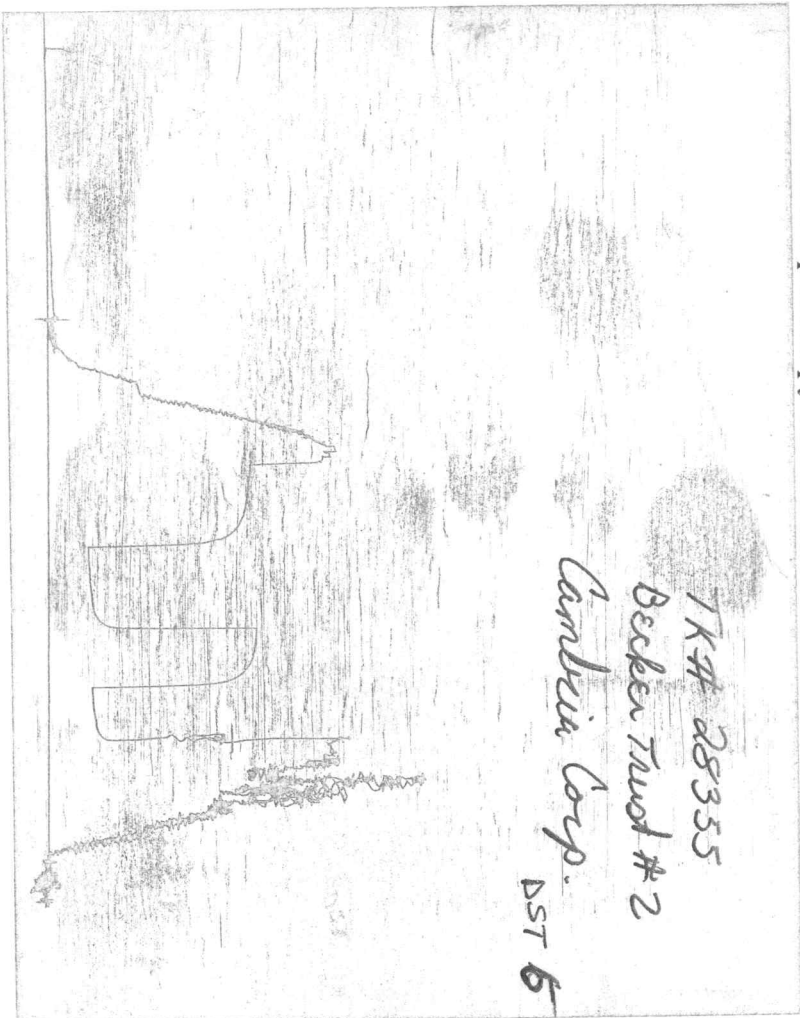
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This is a photocopy of the actual AK-1 recorder chart



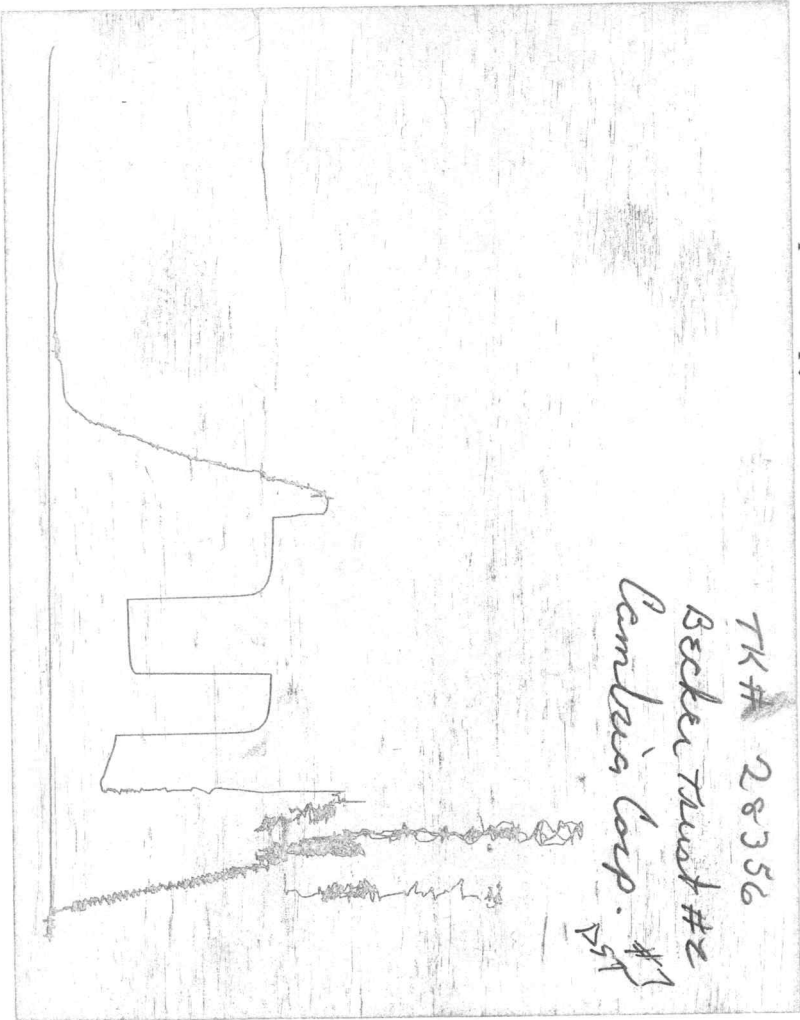
This is a photocopy of the actual AK-1 recorder chart

**CHART PAGE**



**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart



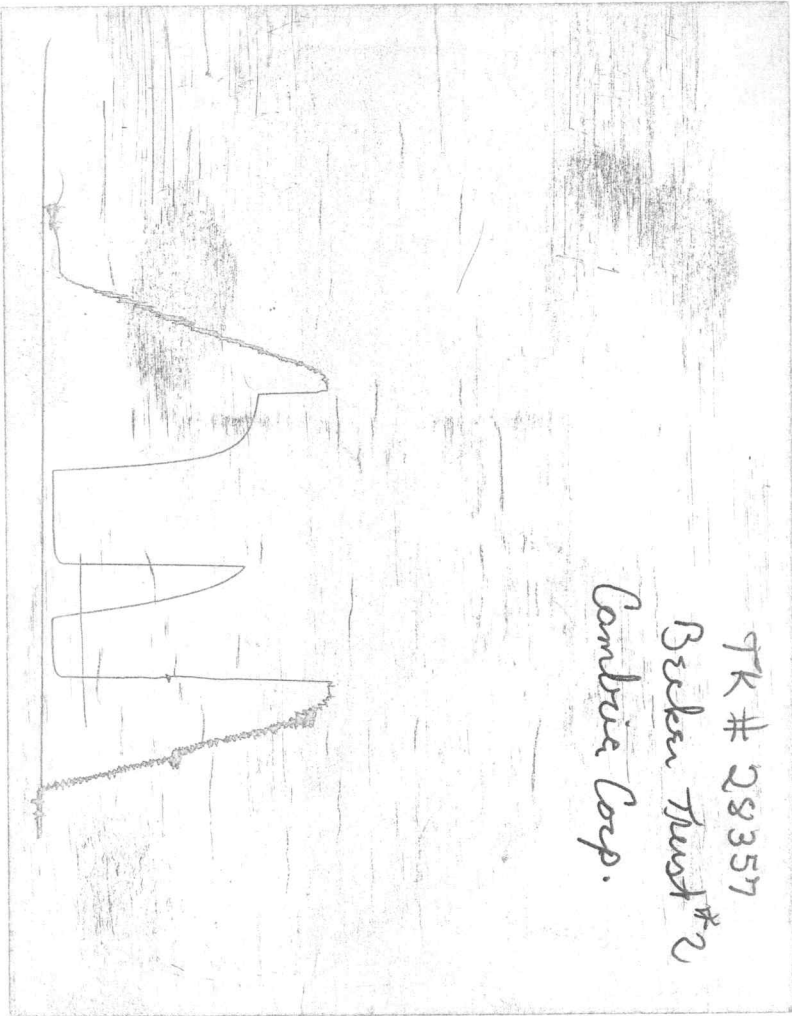
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TK # 28357

Berber Trust #2

Combric Corp.

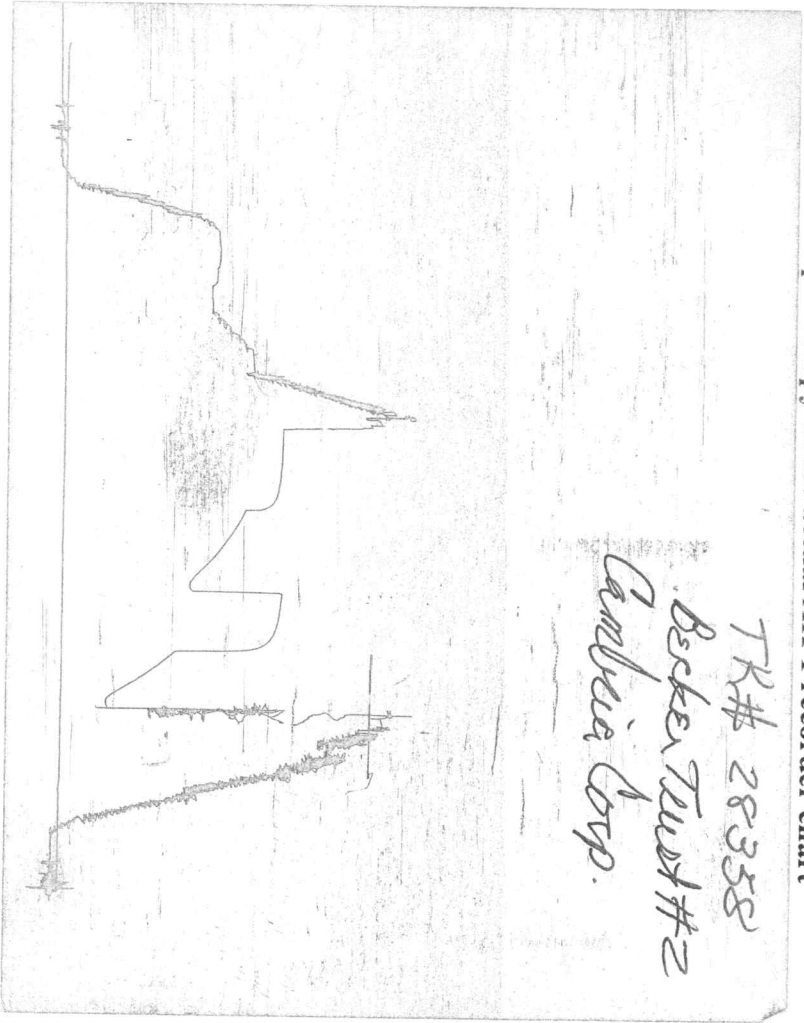


**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart

TR# 28358

Besken Trust #2  
Cambria Corp.



257314