

15-097-21599

Roberts Resources Inc

Cobb #1-21

21 30 18W Kiowa KS

DST # 1

Mississippi

2006.08.09



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc**  
520 S Holland Ste #207  
Wichita KS 67209

ATTN: Kent Roberts

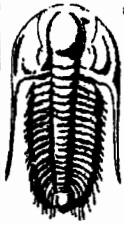
**21 30 18W Kiowa KS**

**Cobb #1-21**

Start Date: 2006.08.09 @ 20:03:05  
End Date: 2006.08.10 @ 03:59:35  
Job Ticket #: 24902                      DST #: 1

*15-097-21599-00-00  
E2 W2 NE*

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Roberts Resources Inc

520 S Holland Ste #207  
Wichita KS 67209

ATTN: Kent Roberts

**Cobb #1-21**

**21 30 18W Kiowa KS**

Job Ticket: 24902

**DST#: 1**

Test Start: 2006.08.09 @ 20:03:05

### GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 22:15:05

Time Test Ended: 03:59:35

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 36

Interval: **5008.00 ft (KB) To 5046.00 ft (KB) (TVD)**

Total Depth: **5046.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2201.00 ft (KB)**

**2188.00 ft (CF)**

KB to GR/CF: **13.00 ft**

**Serial #: 6799**

**Inside**

Press@RunDepth: **65.20 psig @ 5009.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2006.08.09**

End Date: **2006.08.10**

Last Calib.: **2006.08.10**

Start Time: **20:03:10**

End Time: **03:59:34**

Time On Btm: **2006.08.09 @ 22:13:05**

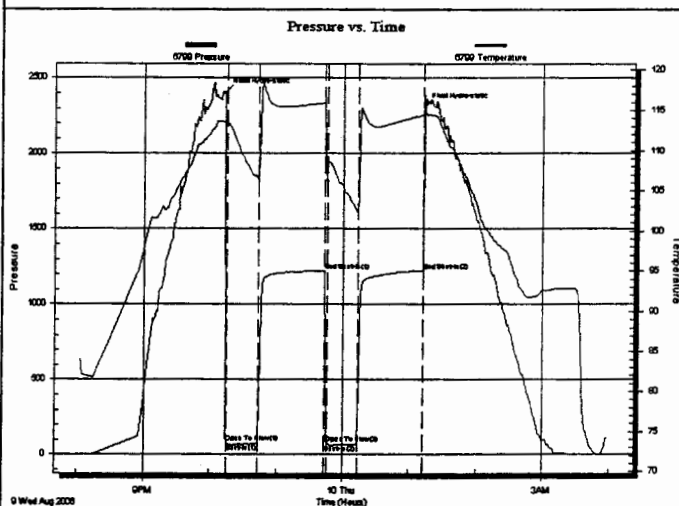
Time Off Btm: **2006.08.10 @ 01:13:19**

**TEST COMMENT:** F Very strong blow BOB in 10 sec GTS in 5 min (see gas flow report)

ISI No blow

FF Very strong blow BOB in 5 sec (caught gas sample)

FSI No blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2405.56	113.51	Initial Hydro-static
2	77.66	113.43	Open To Flow (1)
31	69.57	106.34	Shut-in(1)
91	1222.10	115.94	End Shut-in(1)
93	72.60	108.48	Open To Flow (2)
120	65.20	102.36	Shut-in(2)
180	1222.35	114.49	End Shut-in(2)
181	2311.57	116.87	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
65.00	Drilling Mud 100%M	0.32
0.00	4749' GIP	0.00
0.00		0.00

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	2.00	-
Last Gas Rate	0.75	9.25	370.97
Max. Gas Rate	0.75	9.25	370.97



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Roberts Resources Inc  
520 S Holland Ste #207  
Wichita KS 67209  
ATTN: Kent Roberts

**Cobb #1-21**  
**21 30 18W Kiowa KS**  
Job Ticket: 24902      **DST#: 1**  
Test Start: 2006.08.09 @ 20:03:05

**Tool Information**

Drill Pipe:	Length: 4814.00 ft	Diameter: 3.80 inches	Volume: 67.53 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 68.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	5008.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 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			4993.00	
Hydraulic tool	5.00			4998.00	
Packer	5.00			5003.00	20.00      Bottom Of Top Packer
Packer	5.00			5008.00	
Stubb	1.00			5009.00	
Recorder	0.00	6799	Inside	5009.00	
Perforations	34.00			5043.00	
Recorder	0.00	13400	Outside	5043.00	
Bullnose	3.00			5046.00	38.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>58.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc

**Cobb #1-21**

520 S Holland Ste #207  
Wichita KS 67209

**21 30 18W Kiowa KS**

Job Ticket: 24902

**DST#: 1**

ATTN: Kent Roberts

Test Start: 2006.08.09 @ 20:03:05

### 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	Drilling Mud 100%M	0.320
0.00	4749' GIP	0.000
0.00		0.000

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

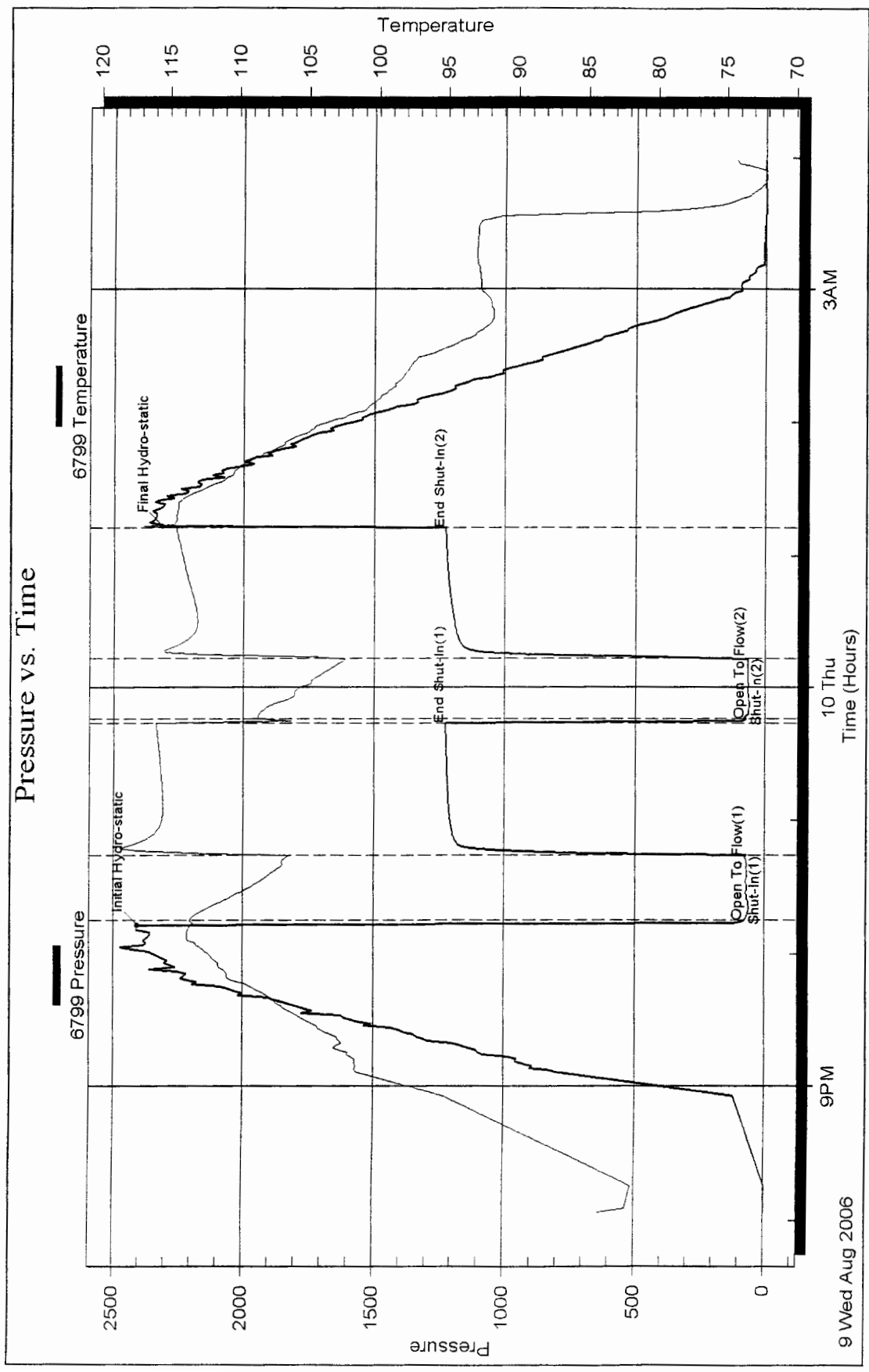
Serial #: GA-1

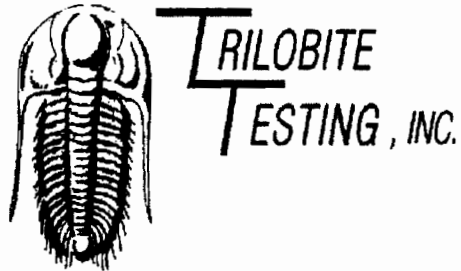
Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc**

520 S Holland Ste #207  
Wichita KS 67209

ATTN: Kent Roberts

**21 30 18W Kiowa KS**

**Cobb #1-21**

Start Date: 2006.08.10 @ 14:25:07

End Date: 2006.08.10 @ 20:40:07

Job Ticket #: 24903                      DST #: 2

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

Roberts Resources Inc

Cobb #1-21

21 30 18W Kiowa KS

DST # 2

Mississippi

2006.08.10



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Roberts Resources Inc

**Cobb #1-21**

520 S Holland Ste #207  
Wichita KS 67209

**21 30 18W Kiowa KS**

Job Ticket: 24903

**DST#: 2**

ATTN: Kent Roberts

Test Start: 2006.08.10 @ 14:25:07

### GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 16:48:37

Time Test Ended: 20:40:07

Test Type: **Conventional Bottom Hole**

Tester: **Gerald Adams**

Unit No: **36**

Interval: **5054.00 ft (KB) To 5105.00 ft (KB) (TVD)**

Reference Elevations: **2201.00 ft (KB)**

Total Depth: **5105.00 ft (KB) (TVD)**

**2188.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **13.00 ft**

**Serial #: 6799** **Inside**

Press@RunDepth: **64.76 psig @ 5065.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2006.08.10**

End Date:

**2006.08.10**

Last Calib.:

**2006.08.10**

Start Time: **14:25:12**

End Time:

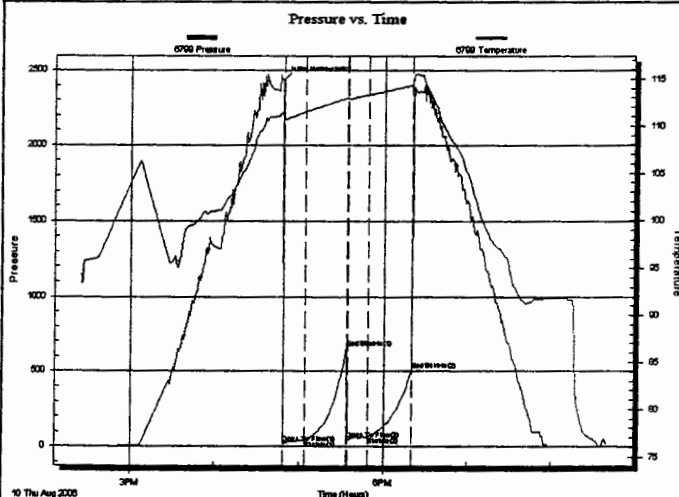
**20:40:06**

Time On Btrm:

**2006.08.10 @ 16:48:22**

Time Off Btrm:

TEST COMMENT: **IF Weak blow Built to 1 3/4 "**  
**ISI No blow**  
**FF Weak blow Built to 1 3/4 "**  
**FSI No blow**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2432.85	111.45	Initial Hydro-static
1	21.26	110.66	Open To Flow (1)
16	41.68	111.50	Shut-In(1)
46	655.00	113.01	End Shut-In(1)
47	48.44	112.83	Open To Flow (2)
61	64.76	113.32	Shut-In(2)
92	507.30	114.38	End Shut-In(2)

### Recovery

Length (ft)	Description	Volume (bbl)
75.00	Drilling Mud 100%M	0.37
0.00		0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Roberts Resources Inc  
520 S Holland Ste #207  
Wichita KS 67209  
ATTN: Kent Roberts

**Cobb #1-21**  
**21 30 18W Kiowa KS**  
Job Ticket: 24903      **DST#: 2**  
Test Start: 2006.08.10 @ 14:25:07

### Tool Information

Drill Pipe:	Length: 4877.00 ft	Diameter: 3.80 inches	Volume: 68.41 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 69.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	5054.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 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			5039.00	
Hydraulic tool	5.00			5044.00	
Packer	5.00			5049.00	20.00      Bottom Of Top Packer
Packer	5.00			5054.00	
Stubb	1.00			5055.00	
Perforations	9.00			5064.00	
Change Over Sub	1.00			5065.00	
Recorder	0.00	6799	Inside	5065.00	
Blank Spacing	31.00			5096.00	
Change Over Sub	1.00			5097.00	
Perforations	5.00			5102.00	
Recorder	0.00	13400	Outside	5102.00	
Bullnose	3.00			5105.00	51.00      Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Roberts Resources Inc  
520 S Holland Ste #207  
Wichita KS 67209  
ATTN: Kent Roberts

**Cobb #1-21**  
**21 30 18W Kiowa KS**  
Job Ticket: 24903      **DST#: 2**  
Test Start: 2006.08.10 @ 14:25:07

**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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
75.00	Drilling Mud 100%M	0.369
0.00		0.000

Total Length: 75.00 ft      Total Volume: 0.369 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Roberts Resources Inc

**Cobb #1-21**

520 S Holland Ste #207  
Wichita KS 67209

**21 30 18W Kiowa KS**

Job Ticket: 24903

**DST#: 2**

ATTN: Kent Roberts

Test Start: 2006.08.10 @ 14:25:07

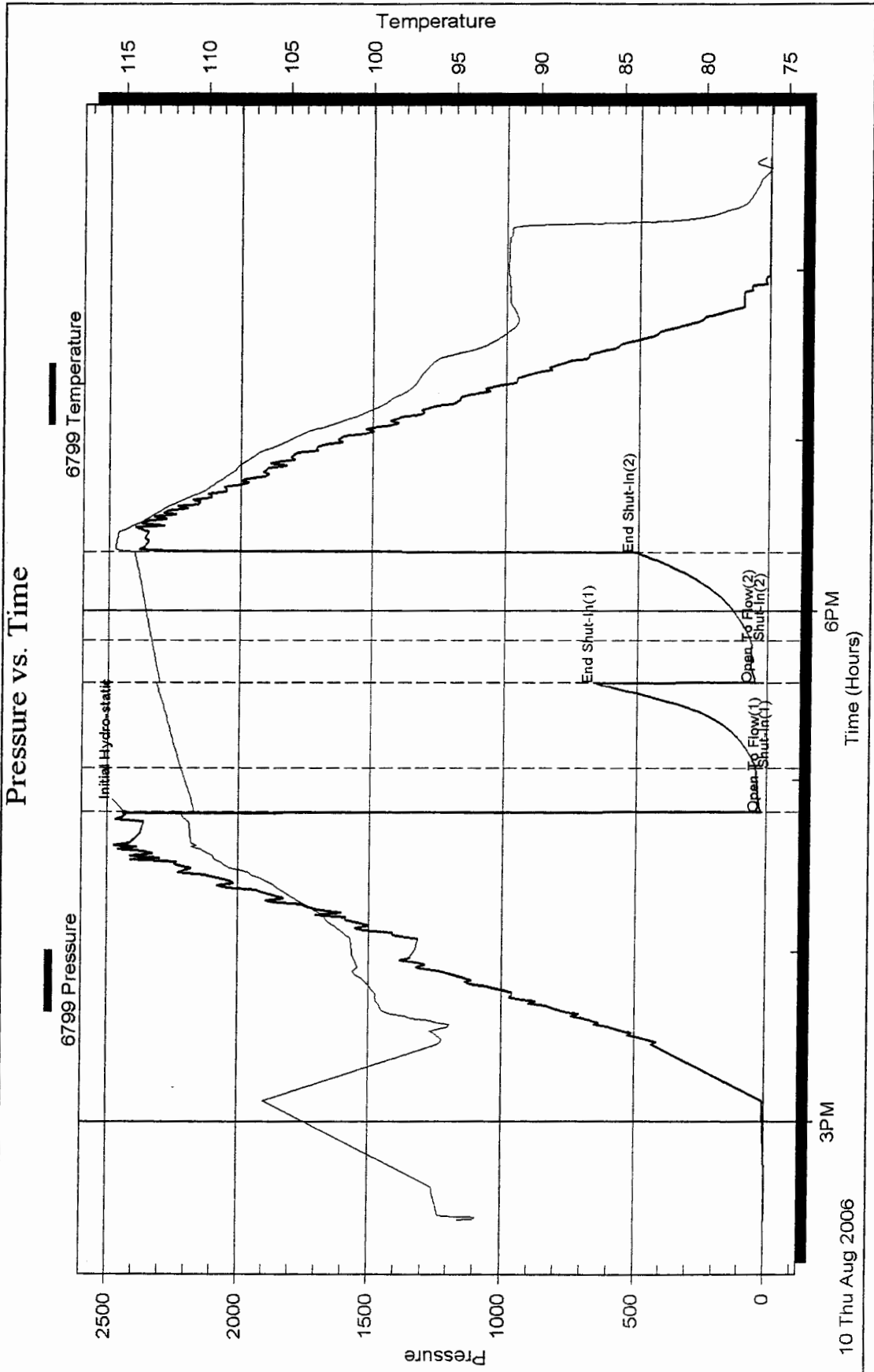
### Gas Rates Information

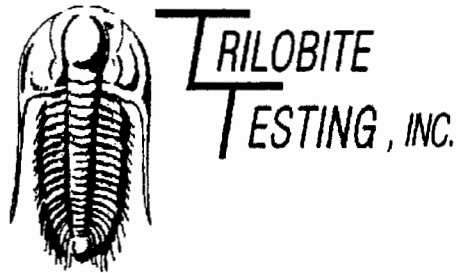
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
		0.00	0.00	0.00

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc**

520 S Holland Ste #207  
Wichita KS 67209

ATTN: Kent Roberts

**21 30 18W Kiowa KS**

**Cobb #1-21**

Start Date: 2006.08.12 @ 04:17:49

End Date: 2006.08.12 @ 10:58:19

Job Ticket #: 24904      DST #: 3

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

Roberts Resources Inc

Cobb #1-21

21 30 18W Kiowa KS

DST # 3

Viola

2006.08.12



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Roberts Resources Inc

520 S Holland Ste #207  
Wichita KS 67209

ATTN: Kent Roberts

**Cobb #1-21**

**21 30 18W Kiowa KS**

Job Ticket: 24904

**DST#: 3**

Test Start: 2006.08.12 @ 04:17:49

### GENERAL INFORMATION:

Formation: **Viola**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 07:08:49

Time Test Ended: 10:58:19

Test Type: **Conventional Bottom Hole**

Tester: **Gerald Adams**

Unit No: **36**

Interval: **5384.00 ft (KB) To 5454.00 ft (KB) (TVD)**

Total Depth: **5454.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2201.00 ft (KB)**

**2188.00 ft (CF)**

KB to GR/CF: **13.00 ft**

**Serial #: 6799** **Inside**

Press@RunDepth: **22.60 psig @ 5389.00 ft (KB)**

Start Date: **2006.08.12**

End Date:

**2006.08.12**

Start Time: **04:17:54**

End Time:

**10:58:18**

Capacity: **7000.00 psig**

Last Calib.: **2006.08.12**

Time On Btrm: **2006.08.12 @ 07:08:34**

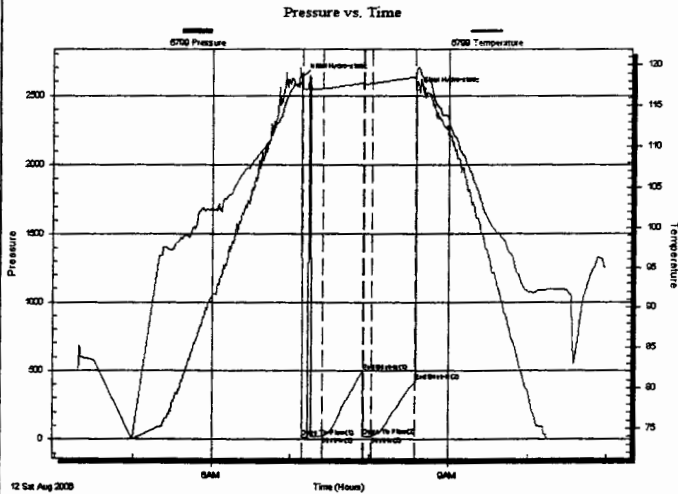
Time Off Btrm: **2006.08.12 @ 08:35:18**

**TEST COMMENT: IF Weak blow Built to 1/4 " Flushed tool after 5 min Weak blow @ 1/4 "**

ISI No blow

FF No blow

FSI No blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2628.06	117.89	Initial Hydro-static
1	17.32	117.09	Open To Flow (1)
16	21.90	117.12	Shut-In(1)
47	490.66	117.80	End Shut-In(1)
47	22.36	117.66	Open To Flow (2)
53	22.60	117.75	Shut-In(2)
87	425.07	118.55	End Shut-In(2)
87	2535.16	119.17	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud 100%M	0.02
0.00		0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Roberts Resources Inc

**Cobb #1-21**

520 S Holland Ste #207  
Wichita KS 67209

**21 30 18W Kiowa KS**

Job Ticket: 24904

**DST#: 3**

ATTN: Kent Roberts

Test Start: 2006.08.12 @ 04:17:49

### Tool Information

Drill Pipe:	Length: 5192.00 ft	Diameter: 3.80 inches	Volume: 72.83 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 73.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	5384.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	90.00 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			5369.00	
Hydraulic tool	5.00			5374.00	
Packer	5.00			5379.00	20.00 Bottom Of Top Packer
Packer	5.00			5384.00	
Stubb	1.00			5385.00	
Perforations	4.00			5389.00	
Recorder	0.00	6799	Inside	5389.00	
Perforations	30.00			5419.00	
Change Over Sub	1.00			5420.00	
Blank Spacing	30.00			5450.00	
Change Over Sub	1.00			5451.00	
Recorder	0.00	13400	Outside	5451.00	
Bullnose	3.00			5454.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 90.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Roberts Resources Inc

**Cobb #1-21**

520 S Holland Ste #207  
Wichita KS 67209

**21 30 18W Kiowa KS**

Job Ticket: 24904                      **DST#: 3**

ATTN: Kent Roberts

Test Start: 2006.08.12 @ 04:17:49

**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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud 100%M	0.025
0.00		0.000

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

