

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Gilbert-Stewart**

1801 Broadway #450  
Denver CO 80202

ATTN: Keith Reavis

**22 20S 12W Barton KS**

**DDK #8**

Start Date: 2007.03.21 @ 21:14:07

End Date: 2007.03.22 @ 02:31:05

Job Ticket #: 27521                      DST #: 1

*NE NW NE SE*

*2520 FSL 1770 FEL*

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Gilbert-Stewart

DDK #8

22 20S 12W Barton KS

DST # 1

Lansing

2007.03.21



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Gilbert-Stewart  
 1801 Broadway #450  
 Denver CO 80202  
 ATTN: Keith Reavis

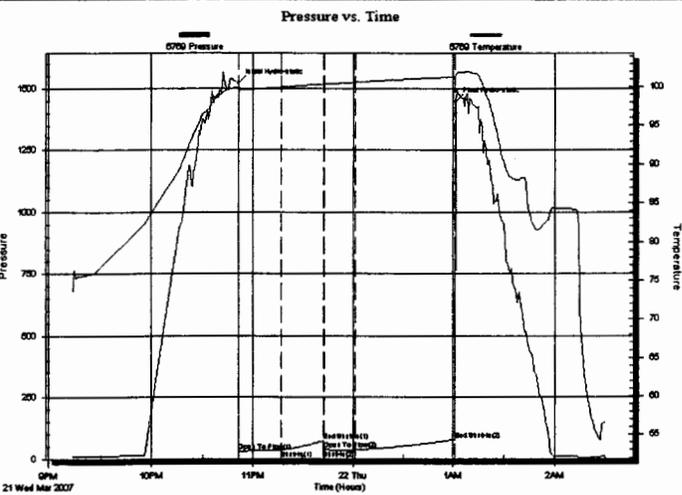
**DDK #8**  
**22 20S 12W Barton KS**  
 Job Ticket: 27521      **DST#: 1**  
 Test Start: 2007.03.21 @ 21:14:07

## GENERAL INFORMATION:

Formation: **Lansing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:51:50  
 Time Test Ended: 02:31:05  
 Interval: **3137.00 ft (KB) To 3190.00 ft (KB) (TVD)**  
 Total Depth: 3190.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition:  
 Test Type: Conventional Bottom Hole  
 Tester: Brian Fairbank  
 Unit No: 24  
 Reference Elevations: 1836.00 ft (KB)  
 1828.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6769**      **Inside**  
 Press@RunDepth: 35.95 psig @ 3144.01 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2007.03.21      End Date: 2007.03.22      Last Calib.: 2007.03.22  
 Start Time: 21:14:07      End Time: 02:31:05      Time On Btm: 2007.03.21 @ 22:51:35  
 Time Off Btm: 2007.03.22 @ 01:01:20

**TEST COMMENT:** IFP Weak blow throughout 1/4" - died 19 min.  
 ISI No blow back  
 FFP No blow  
 FSI No blow back



## PRESSURE SUMMARY

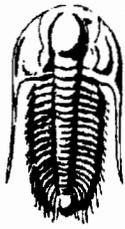
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1522.32	99.93	Initial Hydro-static
1	29.85	98.98	Open To Flow (1)
26	35.73	99.95	Shut-In (1)
51	73.06	100.33	End Shut-In (1)
51	36.86	100.33	Open To Flow (2)
70	35.95	100.58	Shut-In (2)
130	78.54	101.27	End Shut-In (2)
130	1447.55	101.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.05

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gilbert-Stewart  
1801 Broadway #450  
Denver CO 80202  
ATTN: Keith Reavis

**DDK #8**  
**22 20S 12W Barton KS**  
Job Ticket: 27521      **DST#: 1**  
Test Start: 2007.03.21 @ 21:14:07

**Tool Information**

Drill Pipe:	Length: 3099.00 ft	Diameter: 3.80 inches	Volume: 43.47 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<b>Total Volume: 43.62 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3137.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.02 ft			
Tool Length:	80.02 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			3115.00	
Hydraulic tool	5.00			3120.00	
Jars	5.00			3125.00	
Safety Joint	2.00			3127.00	
Packer	5.00			3132.00	27.00 Bottom Of Top Packer
Packer	5.00			3137.00	
Stubb	1.00			3138.00	
Perforations	5.00			3143.00	
Change Over Sub	1.00			3144.00	
Recorder	0.01	6769	Inside	3144.01	
Blank Spacing	32.00			3176.01	
Change Over Sub	1.00			3177.01	
Perforations	10.00			3187.01	
Recorder	0.01	13548	Outside	3187.02	
Bullnose	3.00			3190.02	53.02 Bottom Packers & Anchor

**Total Tool Length: 80.02**



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

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Gilbert-Stewart

**DDK #8**

1801 Broadway #450  
Denver CO 80202

**22 20S 12W Barton KS**

Job Ticket: 27521

**DST#: 1**

ATTN: Keith Reavis

Test Start: 2007.03.21 @ 21:14:07

**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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.73 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	100%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6769

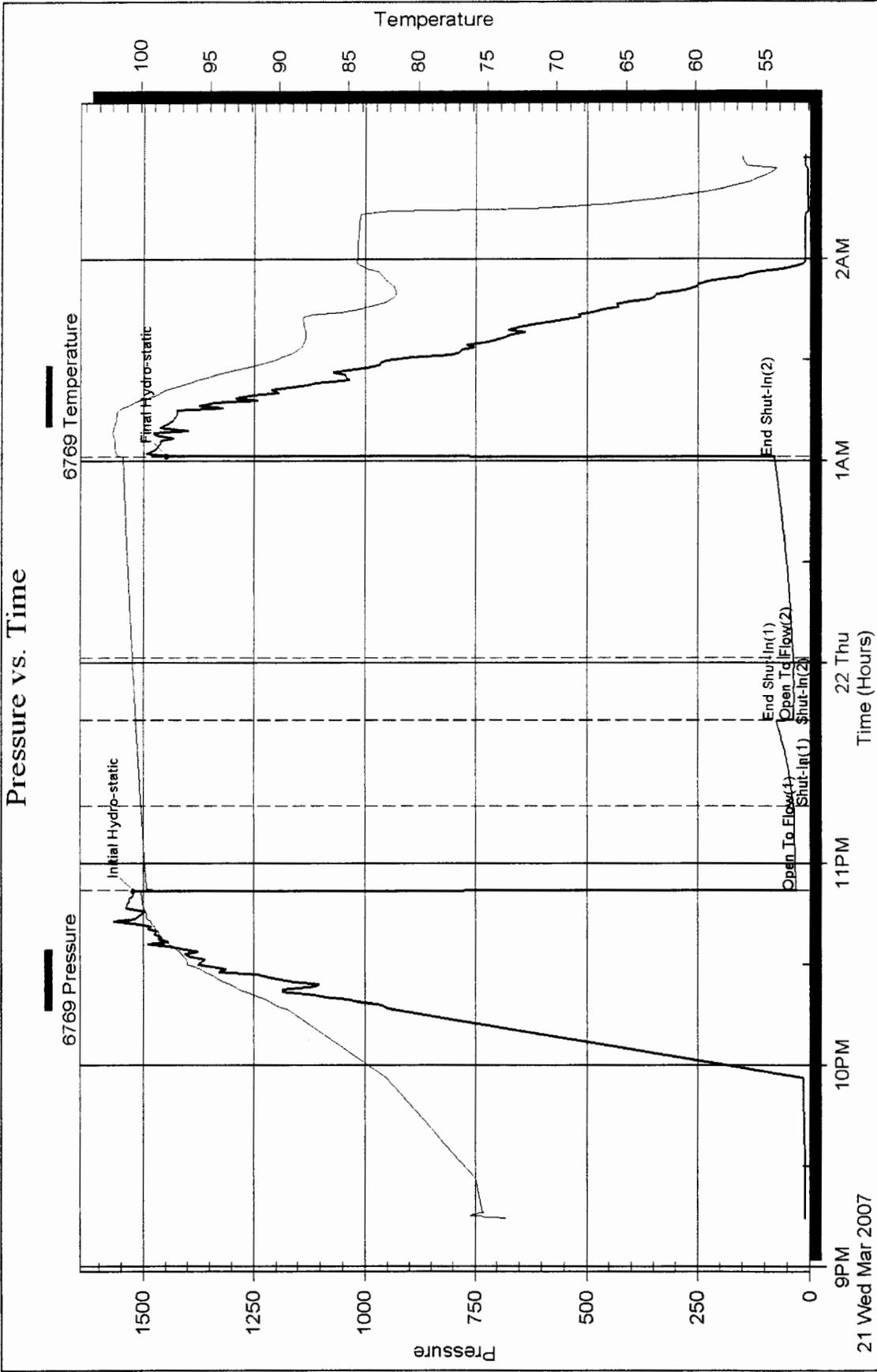
Inside

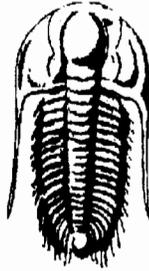
Gilbert-Stewart

22 20S 12W Barton KS

DST Test Number: 1

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Gilbert-Stewart**

1801 Broadway #450  
Denver CO 80202

ATTN: Keith Reavis

**22 20S 12W Barton KS**

**DDK #8**

Start Date: 2007.03.22 @ 16:05:00

End Date: 2007.03.22 @ 23:02:13

Job Ticket #: 27522                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Gilbert-Stewart

DDK #8

22 20S 12W Barton KS

DST # 2

LKC "H-J"

2007.03.22



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Gilbert-Stewart  
1801 Broadway #450  
Denver CO 80202  
ATTN: Keith Reavis

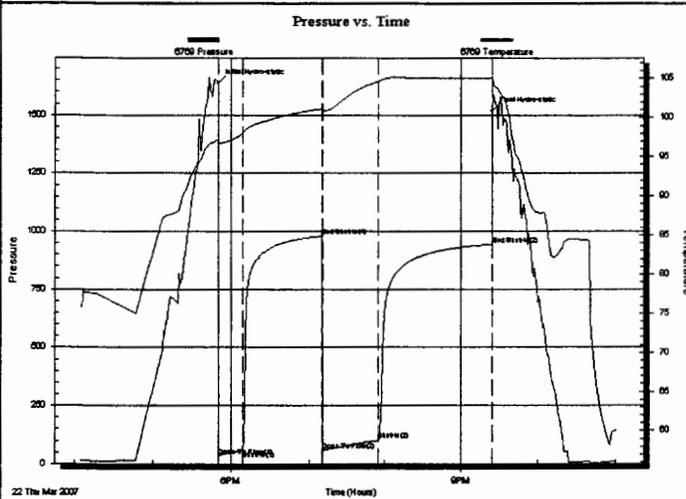
**DDK #8**  
**22 20S 12W Barton KS**  
Job Ticket: 27522      **DST#: 2**  
Test Start: 2007.03.22 @ 16:05:00

### GENERAL INFORMATION:

Formation: **LKC "H-J"**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 17:50:28  
Time Test Ended: 23:02:13  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 24/19  
Interval: **3270.00 ft (KB) To 3330.00 ft (KB) (TVD)**  
Reference Elevations: 1836.00 ft (KB)  
Total Depth: 3330.00 ft (KB) (TVD)      1828.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition:      KB to GR/CF: 8.00 ft

**Serial #: 6769**      **Inside**  
Press@RunDepth: 101.31 psig @ 3274.01 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.03.22      End Date: 2007.03.22      Last Calib.: 2007.03.22  
Start Time: 16:05:00      End Time: 23:02:13      Time On Btm: 2007.03.22 @ 17:49:58  
Time Off Btm: 2007.03.22 @ 21:24:28

**TEST COMMENT:** IFP Weak to fair blow 1/4" - 5"  
ISI No blow back  
FFP Weak to fair blow sur - 4"  
FSI No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.08	97.15	Initial Hydro-static
1	31.10	96.77	Open To Flow (1)
19	56.59	98.00	Shut-In (1)
80	978.77	101.12	End Shut-In (1)
81	58.65	100.93	Open To Flow (2)
125	101.31	104.67	Shut-In (2)
215	944.30	105.09	End Shut-In (2)
215	1518.82	105.32	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.05
110.00	MV 80%W 20%M	1.36
35.00	MV TRACE O 50%W 50%M	0.49

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Gilbert-Stewart  
1801 Broadway #450  
Denver CO 80202  
  
ATTN: Keith Reavis

**DDK #8**  
**22 20S 12W Barton KS**  
Job Ticket: 27522      **DST#: 2**  
Test Start: 2007.03.22 @ 16:05:00

**Tool Information**

Drill Pipe:	Length: 3225.00 ft	Diameter: 3.80 inches	Volume: 45.24 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3270.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.02 ft			
Tool Length:	87.02 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			3248.00	
Hydraulic tool	5.00			3253.00	
Jars	5.00			3258.00	
Safety Joint	2.00			3260.00	
Packer	5.00			3265.00	27.00      Bottom Of Top Packer
Packer	5.00			3270.00	
Stubb	1.00			3271.00	
Perforations	2.00			3273.00	
Change Over Sub	1.00			3274.00	
Recorder	0.01	6769	Inside	3274.01	
Blank Spacing	32.00			3306.01	
Change Over Sub	1.00			3307.01	
Perforations	20.00			3327.01	
Recorder	0.01	13548	Outside	3327.02	
Bullnose	3.00			3330.02	60.02      Bottom Packers & Anchor

**Total Tool Length: 87.02**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Gilbert-Stewart

**DDK #8**

1801 Broadway #450  
Denver CO 80202

**22 20S 12W Barton KS**

Job Ticket: 27522

**DST#: 2**

ATTN: Keith Reavis

Test Start: 2007.03.22 @ 16:05:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

53000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.12 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	100%M	0.049
110.00	MW 80%W 20%M	1.361
35.00	MW TRACE O 50%W 50%M	0.491

Total Length: 155.00 ft

Total Volume: 1.901 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

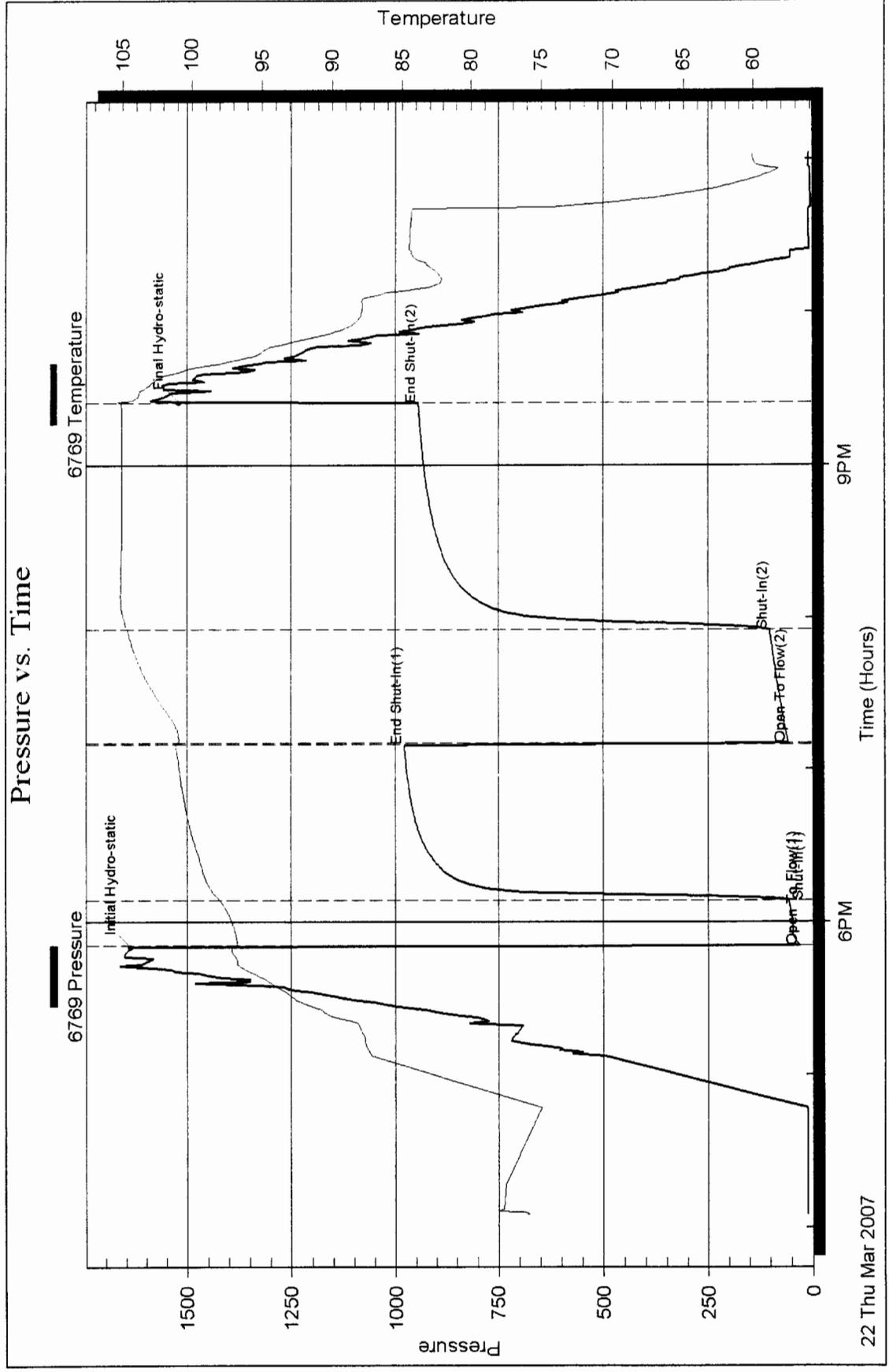
Serial #:

Laboratory Name:

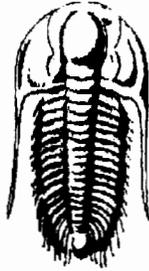
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



22 Thu Mar 2007



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

## DRILL STEM TEST REPORT

Prepared For: **Gilbert-Stewart**

1801 Broadway #450  
Denver CO 80202

ATTN: Keith Reavis

**22 20S 12W Barton KS**

**DDK #8**

Start Date: 2007.03.23 @ 12:40:50

End Date: 2007.03.23 @ 19:56:33

Job Ticket #: 27523                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Gilbert-Stewart

DDK #8

22 20S 12W Barton KS

DST # 3

Arbuckle

2007.03.23



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Gilbert-Stewart  
1801 Broadway #450  
Denver CO 80202  
ATTN: Keith Reavis

**DDK #8**  
**22 20S 12W Barton KS**  
Job Ticket: 27523      **DST#: 3**  
Test Start: 2007.03.23 @ 12:40:50

### GENERAL INFORMATION:

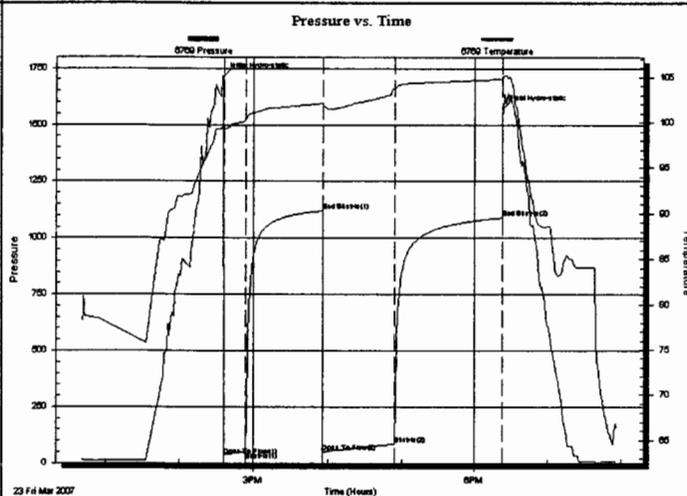
Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:35:48  
Time Test Ended: 19:56:33  
Interval: **3366.00 ft (KB) To 3428.00 ft (KB) (TVD)**  
Total Depth: 3428.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 19  
Reference Elevations: 1836.00 ft (KB)  
1828.00 ft (CF)  
KB to GR/CF: 8.00 ft

### Serial #: 6769

Inside

Press@RunDepth: 84.78 psig @ 3373.01 ft (KB)  
Start Date: 2007.03.23      End Date: 2007.03.23  
Start Time: 12:40:50      End Time: 19:56:33  
Capacity: 7000.00 psig  
Last Calib.: 2007.03.23  
Time On Btm: 2007.03.23 @ 14:35:33  
Time Off Btm: 2007.03.23 @ 18:23:18

TEST COMMENT: IFP Weak to fair blow 1/4" - 5"  
ISI No blow back  
FFP BOB 50 min.  
FSI Weak sur blow back died 15 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.87	99.52	Initial Hydro-static
1	34.92	98.84	Open To Flow (1)
19	50.65	100.36	Shut-In (1)
80	1119.74	102.10	End Shut-In (1)
81	51.98	101.84	Open To Flow (2)
139	84.78	103.76	Shut-In (2)
228	1089.68	104.76	End Shut-In (2)
228	1571.74	105.04	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
115.00	GOCM 20%G 20%O 60%M	1.34
25.00	FREE OIL 5%G 90%O 5%M	0.35

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gilbert-Stewart  
1801 Broadway #450  
Denver CO 80202  
ATTN: Keith Reavis

**DDK #8**  
**22 20S 12W Barton KS**  
Job Ticket: 27523      **DST#: 3**  
Test Start: 2007.03.23 @ 12:40:50

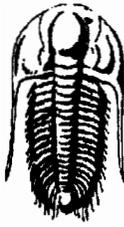
### Tool Information

Drill Pipe:	Length: 3320.00 ft	Diameter: 3.80 inches	Volume: 46.57 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 46.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3366.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.02 ft			
Tool Length:	89.02 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			3344.00	
Hydraulic tool	5.00			3349.00	
Jars	5.00			3354.00	
Safety Joint	2.00			3356.00	
Packer	5.00			3361.00	27.00      Bottom Of Top Packer
Packer	5.00			3366.00	
Stubb	1.00			3367.00	
Perforations	5.00			3372.00	
Change Over Sub	1.00			3373.00	
Recorder	0.01	6769	Inside	3373.01	
Blank Spacing	31.00			3404.01	
Change Over Sub	1.00			3405.01	
Perforations	20.00			3425.01	
Recorder	0.01	13548	Outside	3425.02	
Bullnose	3.00			3428.02	62.02      Bottom Packers & Anchor

**Total Tool Length: 89.02**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Gilbert-Stewart  
1801 Broadway #450  
Denver CO 80202  
ATTN: Keith Reavis

**DDK #8**  
**22 20S 12W Barton KS**  
Job Ticket: 27523      **DST#: 3**  
Test Start: 2007.03.23 @ 12:40:50

**Mud and Cushion Information**

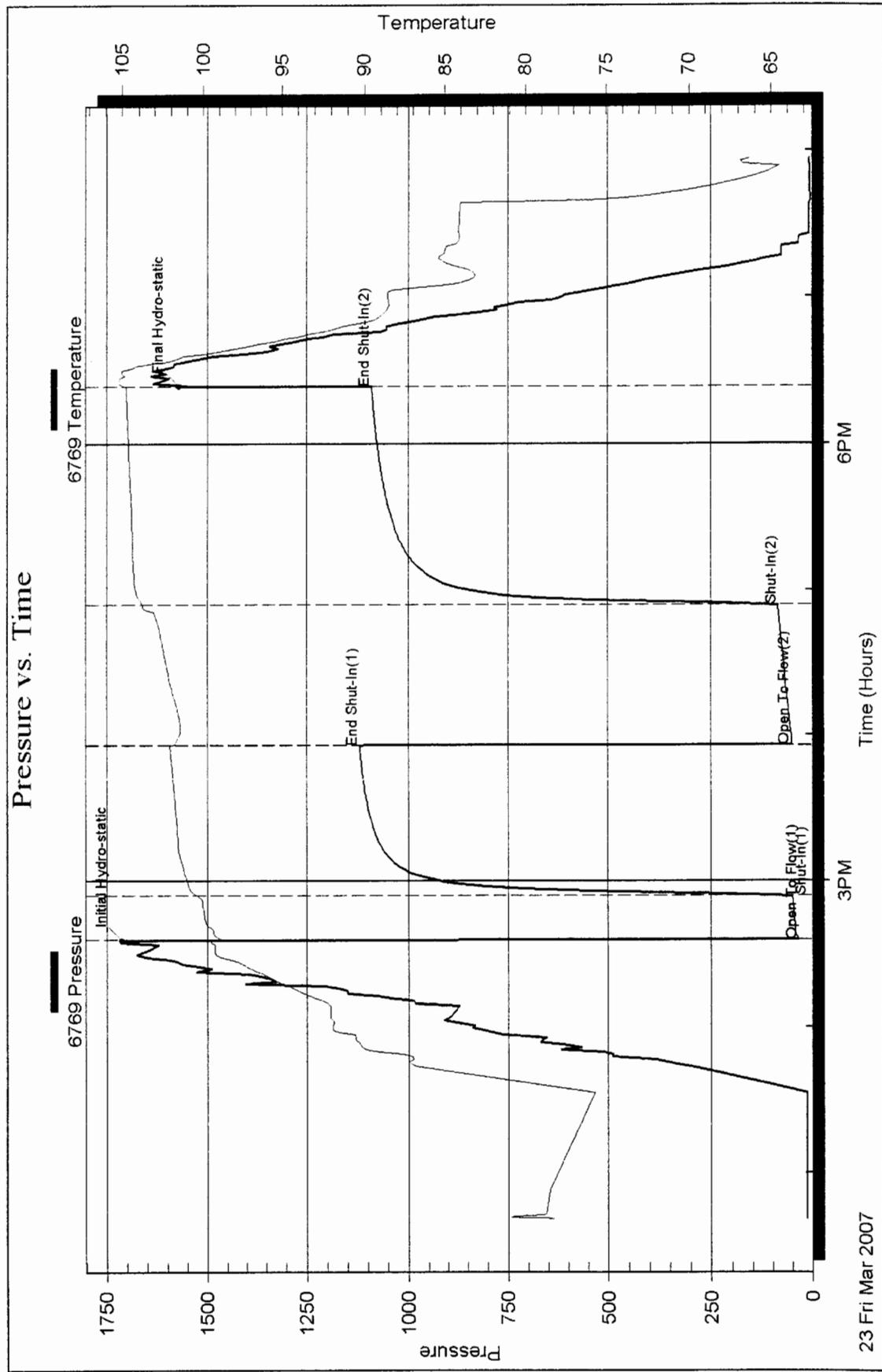
Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.33 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7500.00 ppm		
Filter Cake: inches		

**Recovery Information**

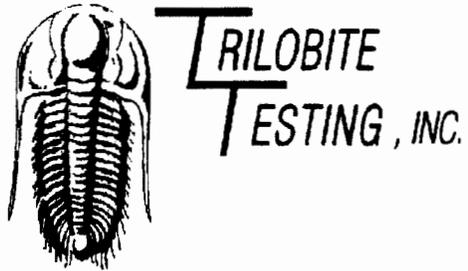
Recovery Table

Length ft	Description	Volume bbl
115.00	GOCM 20%G 20%O 60%M	1.340
25.00	FREE OIL 5%G 90%O 5%M	0.351

Total Length: 140.00 ft      Total Volume: 1.691 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 75' GIP



23 Fri Mar 2007



## DRILL STEM TEST REPORT

Prepared For: **Gilbert-Stewart**

1801 Broadway #450  
Denver CO 80202

ATTN: Keith Reavis

**22 20S 12W Barton KS**

**DDK #8**

Start Date: 2007.03.24 @ 01:59:29

End Date: 2007.03.24 @ 10:19:42

Job Ticket #: 27524                      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

Gilbert-Stewart  
1801 Broadway #450  
Denver CO 80202  
ATTN: Keith Reavis

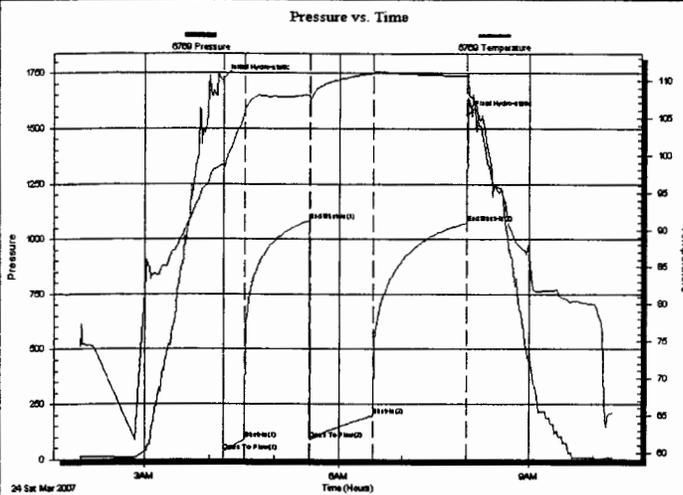
**DDK #8**  
**22 20S 12W Barton KS**  
Job Ticket: 27524      **DST#: 4**  
Test Start: 2007.03.24 @ 01:59:29

### GENERAL INFORMATION:

Formation: **Arbuckle (2)**  
Deviated: No Whipstock:      ft (KB)  
Time Tool Opened: 04:13:57  
Time Test Ended: 10:19:42  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 19  
Interval: **3428.00 ft (KB) To 3440.00 ft (KB) (TVD)**  
Reference Elevations: 1836.00 ft (KB)  
Total Depth: 3440.00 ft (KB) (TVD)      1828.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition:      KB to GR/CF: 8.00 ft

**Serial #: 6769      Inside**  
Press@RunDepth: 197.53 psig @ 3429.01 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.03.24      End Date: 2007.03.24      Last Calib.: 2007.03.24  
Start Time: 01:59:29      End Time: 10:19:42      Time On Btm: 2007.03.24 @ 04:13:42  
Time Off Btm: 2007.03.24 @ 08:01:42

TEST COMMENT: IFP BOB 6 1/2 min.  
ISI 2 " blow back died 48 min  
FFP BOB 9 min.  
FSI No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1727.64	98.83	Initial Hydro-static
1	35.29	98.37	Open To Flow (1)
20	88.97	105.82	Shut-In (1)
79	1084.98	108.08	End Shut-In (1)
80	90.12	107.60	Open To Flow (2)
139	197.53	111.00	Shut-In (2)
228	1075.27	110.65	End Shut-In (2)
229	1563.11	110.92	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCWM 5%O 20%W 75%M	0.57
20.00	SOCGM 5%O 20%G 75%M	0.28
400.00	G FREE OIL 50%G 50%O	5.61

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gilbert-Stewart

**DDK #8**

1801 Broadway #450  
Denver CO 80202

**22 20S 12W Barton KS**

Job Ticket: 27524

**DST#: 4**

ATTN: Keith Reavis

Test Start: 2007.03.24 @ 01:59:29

### Tool Information

Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
		<u>Total Volume:</u>	<u>47.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3428.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.02 ft			
Tool Length:	39.02 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			3406.00	
Hydraulic tool	5.00			3411.00	
Jars	5.00			3416.00	
Safety Joint	2.00			3418.00	
Packer	5.00			3423.00	27.00 Bottom Of Top Packer
Packer	5.00			3428.00	
Stubb	1.00			3429.00	
Recorder	0.01	6769	Inside	3429.01	
Perforations	8.00			3437.01	
Recorder	0.01	13548	Outside	3437.02	
Bullnose	3.00			3440.02	12.02 Bottom Packers & Anchor

**Total Tool Length: 39.02**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Gilbert-Stewart

DDK #8

1801 Broadway #450  
Denver CO 80202

22 20S 12W Barton KS

Job Ticket: 27524

DST#: 4

ATTN: Keith Reavis

Test Start: 2007.03.24 @ 01:59:29

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

17500 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCWM 5%O 20%W 75%M	0.568
20.00	SOCGM 5%O 20%G 75%M	0.281
400.00	G FREE OIL 50%G 50%O	5.611

Total Length: 480.00 ft

Total Volume: 6.460 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 140' GIP

Serial #: 6769

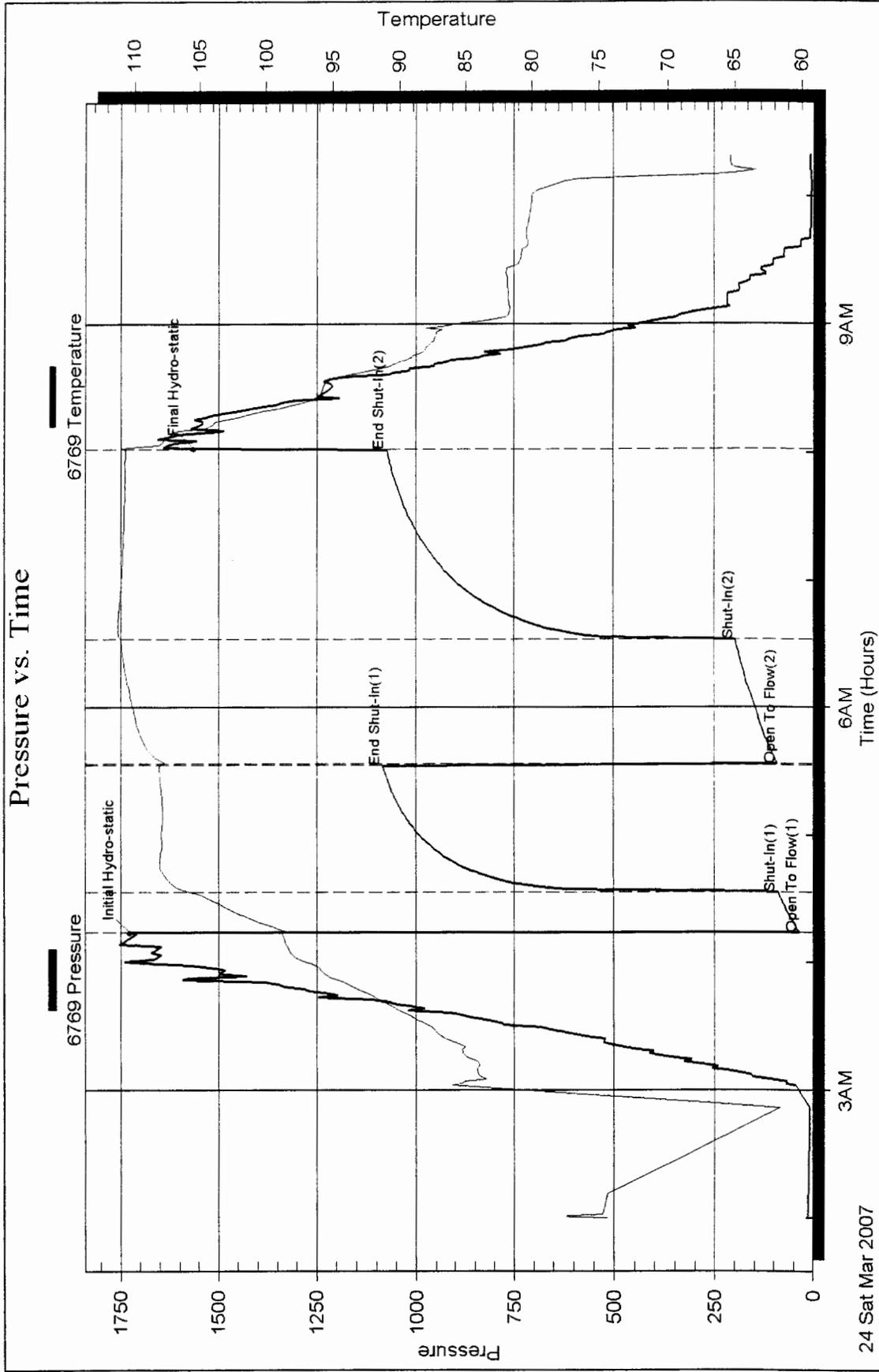
Inside

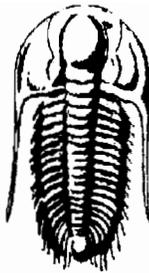
Gilbert-Stewart

22 20S 12W Barton KS

DST Test Number: 4

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Gilbert-Stewart**

1801 Broadway #450  
Denver CO 80202

ATTN: Keith Reavis

**22 20S 12W Barton KS**

**DDK #8**

Start Date: 2007.03.24 @ 16:23:45

End Date: 2007.03.24 @ 23:53:58

Job Ticket #: 27525                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Gilbert-Stewart

DDK #8

22 20S 12W Barton KS

DST # 5

Arbuckle (3)

2007.03.24



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Gilbert-Stewart  
 1801 Broadway #450  
 Denver CO 80202  
 ATTN: Keith Reavis

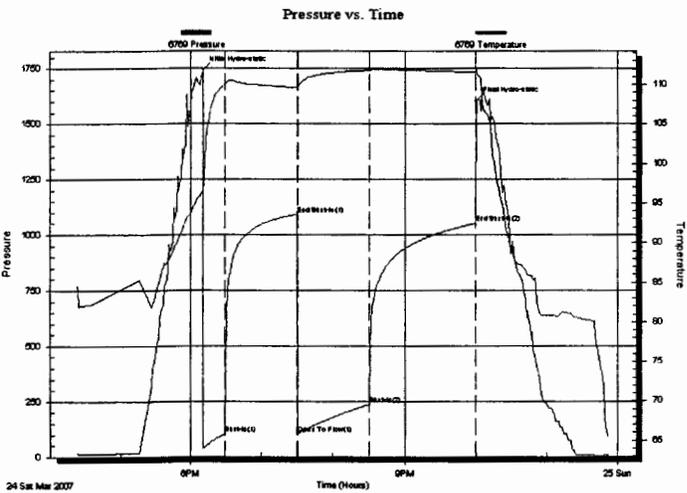
**DDK #8**  
**22 20S 12W Barton KS**  
 Job Ticket: 27525      **DST#: 5**  
 Test Start: 2007.03.24 @ 16:23:45

## GENERAL INFORMATION:

Formation: **Arbuckle (3)**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 18:10:28  
 Tester: Brian Fairbank  
 Time Test Ended: 23:53:58  
 Unit No: 19  
 Interval: **3440.00 ft (KB) To 3452.00 ft (KB) (TVD)**  
 Reference Elevations: 1836.00 ft (KB)  
 Total Depth: 3452.00 ft (KB) (TVD)  
 1828.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: KB to GR/CF: 8.00 ft

**Serial #: 6769**      **Inside**  
 Press@RunDepth: 237.60 psig @ 3441.01 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2007.03.24      End Date: 2007.03.24      Last Calib.: 2007.03.24  
 Start Time: 16:23:45      End Time: 23:53:58      Time On Btm: 2007.03.24 @ 18:10:13  
 Time Off Btm: 2007.03.24 @ 21:59:28

**TEST COMMENT:** IFP BOB 11 min.  
 ISI Weak sur blow back died 5 min.  
 FFP BOB 13 min.  
 FSI No blow back



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1743.67	96.50	Initial Hydro-static
19	101.60	110.04	Shut-In(1)
80	1092.28	109.61	End Shut-In(1)
81	104.32	109.37	Open To Flow(1)
140	237.60	111.80	Shut-In(2)
229	1051.04	111.58	End Shut-In(2)
230	1603.09	111.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
495.00	MW 85%W 15%M	6.67
5.00	OIL TSTM	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gilbert-Stewart

**DDK #8**

1801 Broadway #450  
Denver CO 80202

**22 20S 12W Barton KS**

Job Ticket: 27525

**DST#: 5**

ATTN: Keith Reavis

Test Start: 2007.03.24 @ 16:23:45

**Tool Information**

Drill Pipe:	Length: 3413.00 ft	Diameter: 3.80 inches	Volume: 47.88 bbl	Tool Weight:	2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 48.03 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3440.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.02 ft				
Tool Length:	39.02 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			3418.00	
Hydraulic tool	5.00			3423.00	
Jars	5.00			3428.00	
Safety Joint	2.00			3430.00	
Packer	5.00			3435.00	27.00 Bottom Of Top Packer
Packer	5.00			3440.00	
Stubb	1.00			3441.00	
Recorder	0.01	6769	Inside	3441.01	
Perforations	8.00			3449.01	
Recorder	0.01	13548	Outside	3449.02	
Bullnose	3.00			3452.02	12.02 Bottom Packers & Anchor

**Total Tool Length: 39.02**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Gilbert-Stewart

**DDK #8**

1801 Broadway #450  
Denver CO 80202

**22 20S 12W Barton KS**

Job Ticket: 27525

**DST#: 5**

ATTN: Keith Reavis

Test Start: 2007.03.24 @ 16:23:45

### 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:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
495.00	MW 85%W 15%M	6.670
5.00	OIL TSTM	0.070

Total Length: 500.00 ft

Total Volume: 6.740 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

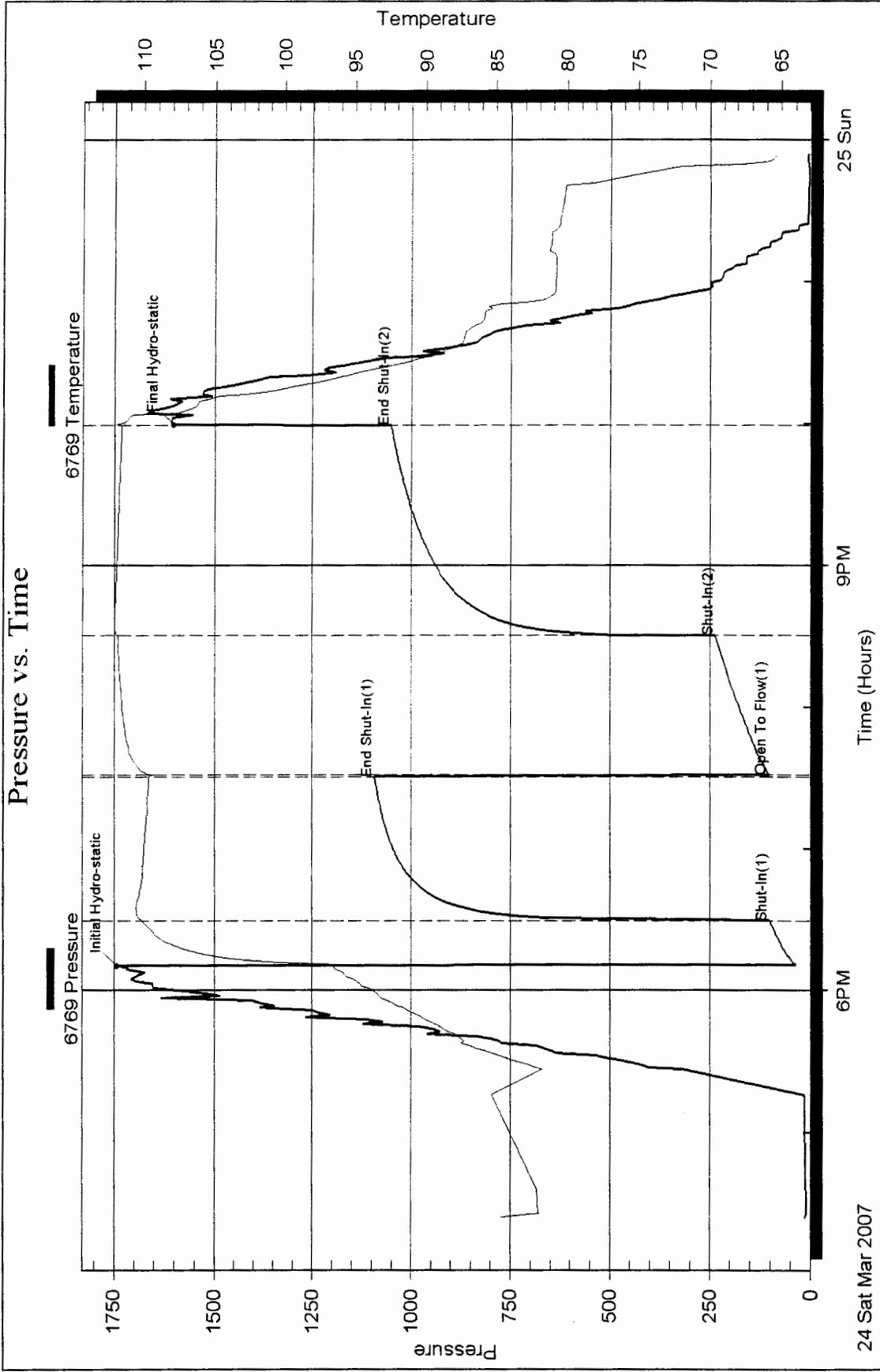
Serial #:

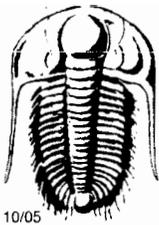
Laboratory Name:

Laboratory Location:

Recovery Comments: 15' GIP

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27521

## Test Ticket

Well Name & No. ODK #8 Test No. 1 Date 3-21-07  
 Company Gilbert Stewart Zone Tested Lensing  
 Address 1801 Broadway #450 Denver, Co 80202 Elevation 7836 KB 1828 GL  
 Co. Rep / Geo. Keith Resuis Rig Southwind #3  
 Location: Sec. 22 Twp. 20<sup>s</sup> Rge. 12<sup>w</sup> Co. Barton State K  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3137-3190 Initial Str Wt./Lbs. 41,000 Unseated Str Wt./Lbs. 41,000  
 Anchor Length 53 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 3132 Tool Weight 2500  
 Bottom Packer Depth 3137 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3190 Wt. Pipe Run - Drill Collar Run 30  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 48 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3099  
 Blow Description IFP-Weak blow throughout 1/4 died 19 min  
ISI-no blow back  
FFP-no blow  
FSI-no blow back

Recovery - Total Feet 10 GIP - Ft. in DC 10 Ft. in DP -  
 Rec. 10 Feet of mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 100 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT 101 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4500 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1531</u> PSI	<u>6769</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure		<u>30</u> PSI	(depth) <u>3144</u>	Jars <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>36</u> PSI	Recorder No. <u>13548</u>	Safety Jt. <input checked="" type="checkbox"/>
(D) Initial Shut-In Pressure		<u>73</u> PSI	(depth) <u>3187</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>37</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>36</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>79</u> PSI	<b>Initial Opening</b> <u>20</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1470</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By \_\_\_\_\_  
 Our Representative Brian Fairbank (John)

Final Flow 20 Ruined Packer \_\_\_\_\_  
 Final Shut-In 60 Mileage  1621  
**T-On Location** 2027 Sub Total: \_\_\_\_\_  
 T-Started 2113 Std. By \_\_\_\_\_  
 T-Open 2251 Acc. Chg: \_\_\_\_\_  
 T-Pulled 0101 Other: \_\_\_\_\_  
 T-Out 0230 Total: \_\_\_\_\_

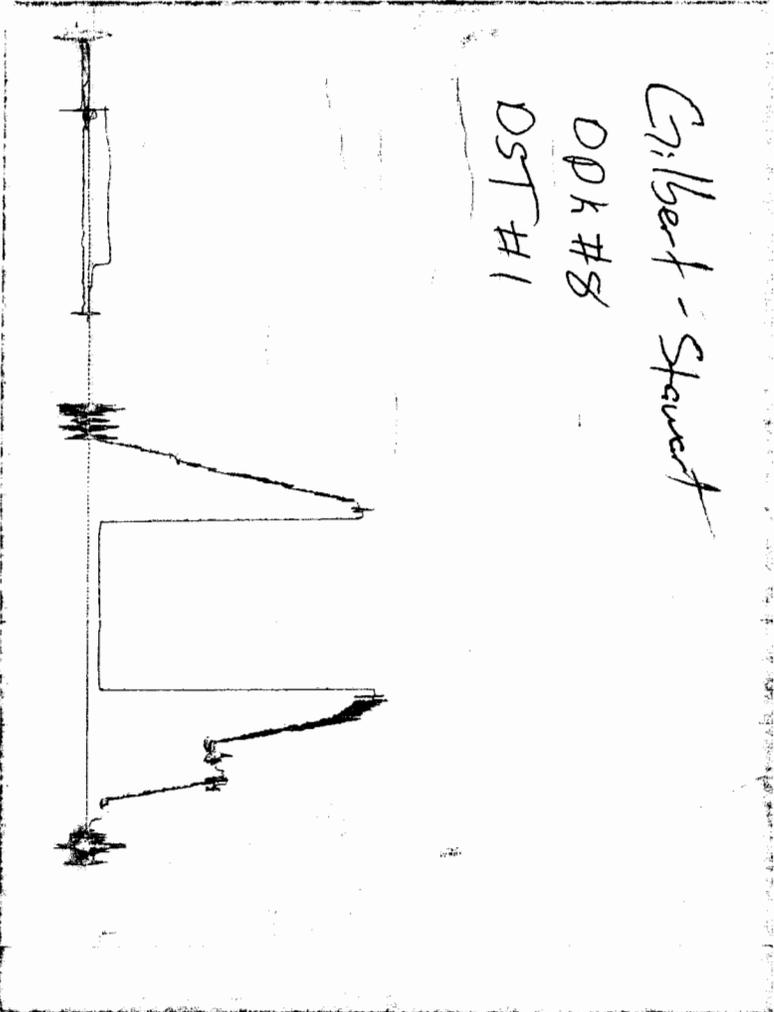
**CHART PAGE**

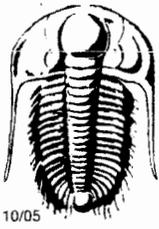
This is a photocopy of the actual AK-1 recorder chart.

*Gilbert - Stewart*

DPK #8

DST #1





# TRILOBITE TESTING INC.

27522

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. OOK # 8 Test No. 2 Date 3-22-07  
 Company Gilbert-Stewart Zone Tested LKC "H-5"  
 Address 1801 Broadway #450 Denver, Co 80202 Elevation 1836 KB 1828 GL  
 Co. Rep / Geo. Keith Reavis Rig Southwind #3  
 Location: Sec. 22 Twp. 20<sup>s</sup> Rge. 12<sup>w</sup> Co. Barton State K  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3270-3330 Initial Str Wt./Lbs. 41,000 Unseated Str Wt./Lbs. 40,000  
 Anchor Length 60 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 3265 Tool Weight 2500  
 Bottom Packer Depth 3270 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3330 Wt. Pipe Run - Drill Collar Run 30  
 Mud Wt. 9.1 LCM - Vis. 58 WL 9.2 Drill Pipe Size 4 1/2 x 11 Ft. Run 3225  
 Blow Description IFP- weak to fair blow 14-5  
ISI- no blow back  
FFP- weak to fair blow sur - 4  
FSI- no blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>155</u>	<u>-</u>	<u>30</u>	<u>125</u>
Rec. <u>35</u>	Feet of <u>MW trace 0</u>	%gas	%oil <u>50</u> %water <u>50</u> %mud
Rec. <u>110</u>	Feet of <u>MW</u>	%gas	%oil <u>80</u> %water <u>20</u> %mud
Rec. <u>10</u>	Feet of <u>mud</u>	%gas	%oil %water <u>100</u> %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud
BHT <u>105</u>	*F Gravity	*API D @	*F Corrected Gravity *API
RW <u>.168</u>	@ <u>61</u> *F	Chlorides <u>53,000</u> ppm Recovery	Chlorides <u>6800</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1644</u> PSI	<u>6769</u>	<u>6769</u>	Test <input checked="" type="checkbox"/>
(B) First Initial Flow Pressure	<u>31</u> PSI	<u>3274</u>	<u>3274</u>	Jars <input checked="" type="checkbox"/>
(C) First Final Flow Pressure	<u>57</u> PSI	<u>13548</u>	<u>13548</u>	Safety Jt. <input checked="" type="checkbox"/>
(D) Initial Shut-In Pressure	<u>979</u> PSI	<u>3327</u>	<u>3327</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>59</u> PSI	Recorder No. _____	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>101</u> PSI	(depth) _____	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>944</u> PSI	Initial Opening <u>20</u>	Initial Opening <u>20</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1542</u> PSI	Initial Shut-In <u>60</u>	Initial Shut-In <u>60</u>	Shale Packer _____
		Final Flow <u>45</u>	Final Flow <u>45</u>	Ruined Packer _____
		Final Shut-In <u>90</u>	Final Shut-In <u>90</u>	Mileage <input checked="" type="checkbox"/>
		T-On Location <u>15.35</u>	T-On Location <u>15.35</u>	Sub Total: _____
		T-Started <u>1604</u>	T-Started <u>1604</u>	Std. By _____
		T-Open <u>1749</u>	T-Open <u>1749</u>	Acc. Chg: _____
		T-Pulled <u>2149</u>	T-Pulled <u>2149</u>	Other: _____
		T-Out <u>2301</u>	T-Out <u>2301</u>	Total: _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By \_\_\_\_\_  
 Our Representative Brian Fairbank (Hank)

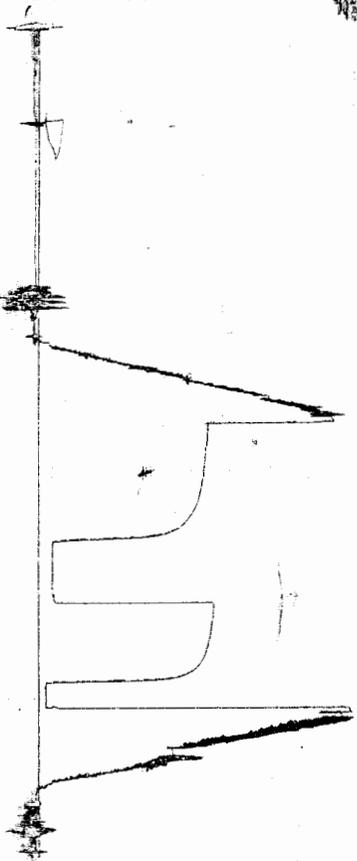
**CHART PAGE**

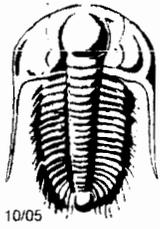
This is a photocopy of the actual AK-1 recorder chart.

Gilbert-Stewart

DDK #8

DST #2





# TRILOBITE TESTING INC.

27523

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. DDK #8 Test No. 3 Date 3-23-07  
 Company Gilbert-Stewart Zone Tested Aurick K6  
 Address 1801 Broadway #450 Denver, Co 80202 Elevation 1836 KB 1828 GL  
 Co. Rep / Geo. Keith Reavis Rig Southwind #3  
 Location: Sec. 22 Twp. 20<sup>s</sup> Rge. 12<sup>w</sup> Co. Barton State K1  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3366 - 3428 Initial Str Wt./Lbs. 43,000 Unseated Str Wt./Lbs. 44,000  
 Anchor Length 62 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 52,000  
 Top Packer Depth 3361 Tool Weight 2500  
 Bottom Packer Depth 3366 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3428 Wt. Pipe Run - Drill Collar Run 30  
 Mud Wt. 9.2 LCM - Vis. 48 WL 10.4 Drill Pipe Size 4 1/2 XH Ft. Run 3320  
 Blow Description Weak to fair blow 4-5  
ISI - no blow back  
FFP - BOB 50 min  
FSI - weak sur blow back died 15 min

Recovery - Total Feet	<u>135</u>	GIP	<u>75</u>	Ft. in DC	<u>30</u>	Ft. in DP	<u>105</u>
Rec.	<u>25</u>	Feet of	<u>Free 0.1</u>	%gas	<u>90</u>	%oil	<u>5</u>
Rec.	<u>115</u>	Feet of	<u>GOCM</u>	%gas	<u>20</u>	%oil	<u>60</u>
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
BHT	<u>105</u>	*F Gravity	<u>39</u>	*API D @	<u>60</u>	*F Corrected Gravity	<u>39</u>
RW		@		*F Chlorides		ppm Recovery	<u>7500</u>
						ppm System	

(A) Initial Hydrostatic Mud	AK-1	Alpine	<u>1644</u> PSI	Recorder No.	<u>6769</u>	Test	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure			<u>35</u> PSI	(depth)	<u>3373</u>	Jars	<input checked="" type="checkbox"/>
(C) First Final Flow Pressure			<u>51</u> PSI	Recorder No.	<u>13548</u>	Safety Jt.	<input checked="" type="checkbox"/>
(D) Initial Shut-In Pressure			<u>1120</u> PSI	(depth)	<u>3425</u>	Circ Sub	
(E) Second Initial Flow Pressure			<u>52</u> PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			<u>85</u> PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			<u>1090</u> PSI	Initial Opening	<u>20</u>	Ext. Packer	
(Q) Final Hydrostatic Mud			<u>1604</u> PSI	Initial Shut-In	<u>60</u>	Shale Packer	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By \_\_\_\_\_  
 Our Representative Brian Fairbank (Thrb)

Final Flow	<u>60</u>	Ruined Packer	
Final Shut-In	<u>90</u>	Mileage	<input checked="" type="checkbox"/>
T-On Location	<u>1156</u>	Sub Total:	
T-Started	<u>1240</u>	Std. By	
T-Open	<u>1450</u>	Acc. Chg:	
T-Pulled	<u>1840</u>	Other:	
T-Out	<u>2011</u>	Total:	

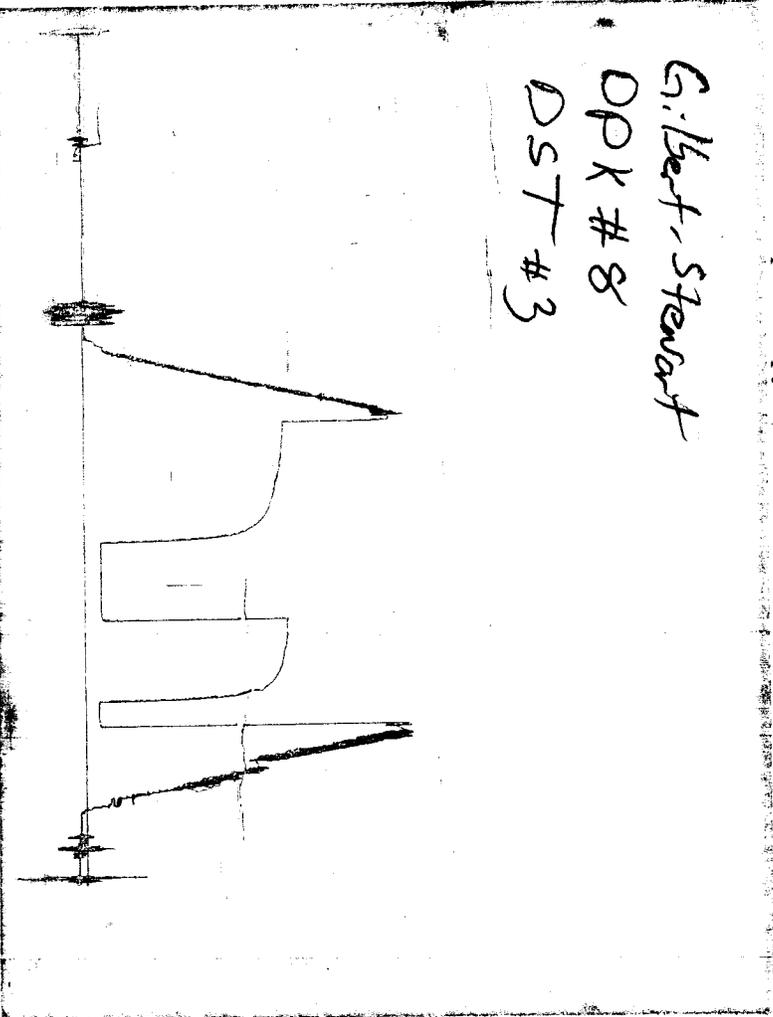
**CHART PAGE**

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

G. West Stewart

DPK # 8

DST # 3



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601



## Test Ticket

Well Name & No. DDK #8 Test No. 4 Date 3-24-07  
 Company Gilbert-Stewart Zone Tested Arbuck 6(2)  
 Address 1801 Broadway #450 Denver, Co 80202 Elevation 1836 KB 1828 GL  
 Co. Rep / Geo. Keith Reavis Rig Southwind #3  
 Location: Sec. 22 Twp. 20<sup>s</sup> Rge. 12<sup>w</sup> Co. Barber State KO  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3428-3440 Initial Str Wt./Lbs. 43,000 Unseated Str Wt./Lbs. 46,000  
 Anchor Length 12 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 3423 Tool Weight 2500  
 Bottom Packer Depth 3428 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3440 Wt. Pipe Run - Drill Collar Run 30  
 Mud Wt. 9.2 LCM - Vis. 48 WL 10.4 Drill Pipe Size 4 1/2 X 4 Ft. Run 3382  
 Blow Description IFP - BOB 6 1/2 min  
ISI - 2" blow back died 4/8 min  
FFP - BOB 9 min  
FST - no blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>480</u>	<u>140</u>		
Rec. <u>400</u>	Feet of <u>G Free oil</u>	<u>50</u> %gas <u>50</u> %oil	<u>-</u> %water <u>-</u> %mud
Rec. <u>20</u>	Feet of <u>SOCGM</u>	<u>20</u> %gas <u>5</u> %oil	<u>-</u> %water <u>75</u> %mud
Rec. <u>60</u>	Feet of <u>SOCWM</u>	<u>-</u> %gas <u>5</u> %oil	<u>20</u> %water <u>70</u> %mud
Rec. _____	Feet of _____	<u>-</u> %gas <u>-</u> %oil	<u>-</u> %water <u>-</u> %mud
Rec. _____	Feet of _____	<u>-</u> %gas <u>-</u> %oil	<u>-</u> %water <u>-</u> %mud
BHT <u>111</u>	*F Gravity <u>38</u>	*API D @ <u>60</u>	*F Corrected Gravity <u>38</u> *API
RW <u>.430</u> @ <u>63</u>	*F Chlorides <u>17,500</u> ppm	Recovery _____	Chlorides <u>7500</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1723</u> PSI	<u>1723</u> PSI	<u>6769</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure	<u>35</u> PSI	<u>35</u> PSI	(depth) <u>3429</u>	Jars <input checked="" type="checkbox"/>
(C) First Final Flow Pressure	<u>89</u> PSI	<u>89</u> PSI	Recorder No. <u>13548</u>	Safety Jt. <input checked="" type="checkbox"/>
(D) Initial Shut-In Pressure	<u>1085</u> PSI	<u>1085</u> PSI	(depth) <u>3437</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>90</u> PSI	<u>90</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>198</u> PSI	<u>198</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1075</u> PSI	<u>1075</u> PSI	<b>Initial Opening</b> <u>20</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1614</u> PSI	<u>1614</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By \_\_\_\_\_  
 Our Representative Brian Fairbank (Thick)

Final Flow	<u>60</u>	Ruined Packer	_____
Final Shut-In	<u>90</u>	Mileage	<input checked="" type="checkbox"/>
<b>T-On Location</b>	<u>0111</u>	Sub Total:	_____
T-Started	<u>0159</u>	Std. By	_____
T-Open	<u>0412</u>	Acc. Chg:	_____
T-Pulled	<u>0802</u>	Other:	_____
T-Out	<u>1020</u>	Total:	_____

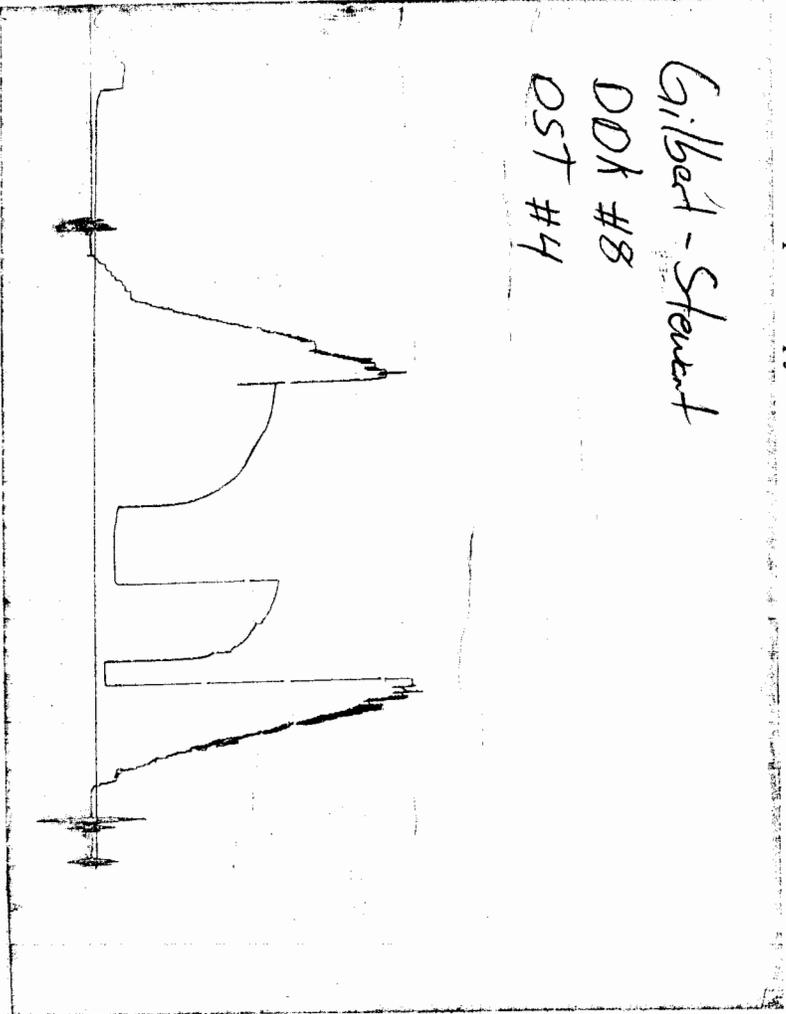
**CHART PAGE**

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

*Gilbert - Stewart*

*DDK #8*

*O5T #4*





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27525

## Test Ticket

Well Name & No. OOK #8 Test No. 5 Date 3-24-07  
 Company Gilbert-Stewart Zone Tested Arbuckle (3)  
 Address 1801 Broadway #450 Denver, Co 80202 Elevation 1836 KB 1828 GL  
 Co. Rep / Geo. Keith Pearis Rig Southwind #3  
 Location: Sec. 22 Twp. 20<sup>s</sup> Rge. 12<sup>w</sup> Co. Barton State K  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3440-3452 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 47,000  
 Anchor Length 12 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 3435 Tool Weight 2500  
 Bottom Packer Depth 3440 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3452 Wt. Pipe Run — Drill Collar Run 30  
 Mud Wt. 9.3 LCM \_\_\_\_\_ Vis. 55 WL 7.6 Drill Pipe Size 4 1/2 X 4 Ft. Run 3413  
 Blow Description IFP-BOB 11 min  
IST-weak sur blow back died 5 min  
FFP-BOB 13 min  
FST-no blow back

Recovery - Total Feet 500 GIP 15 Ft. in DC 30 Ft. in DP 470  
 Rec. 5 Feet of 0.1 TSTM %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 495 Feet of MW %gas \_\_\_\_\_ %oil 85 %water 15 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 112 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .442 @ 63 °F Chlorides 17,500 ppm Recovery \_\_\_\_\_ Chlorides 7700 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1717</u> PSI	<u>6769</u>	✓
(B) First Initial Flow Pressure		<u>36</u> PSI	(depth) <u>3441</u>	Jars ✓
(C) First Final Flow Pressure		<u>102</u> PSI	Recorder No. <u>13548</u>	Safety Jt. ✓
(D) Initial Shut-In Pressure		<u>1092</u> PSI	(depth) <u>3449</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>104</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>238</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1051</u> PSI	Initial Opening <u>20</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1607</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By \_\_\_\_\_

Our Representative Brian Farbank (Thurs)

Final Flow 60 Ruined Packer \_\_\_\_\_  
 Final Shut-In 90 Mileage ✓  
 T-On Location 1553 Sub Total: \_\_\_\_\_  
 T-Started 1623 Std. By: \_\_\_\_\_  
 T-Open 1810 Acc. Chg: \_\_\_\_\_  
 T-Pulled 2200 Other: \_\_\_\_\_  
 T-Out 2353 Total: \_\_\_\_\_

**CHART PAGE**

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

Gilbert Stewart

DDK #8

DST #5

