

15-051-25589

31-11s-19w

15-051-25589

IA Operating Inc

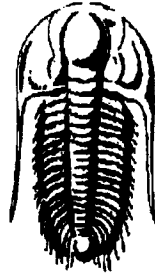
Massier Unit #31-1

31 11S 19W Ellis KS

US 1 # 1

Arduckie

2006.12.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

900 N Tyler #14
Wichita KS 67212

ATTN: Hal Porter

31 11S 19W Ellis KS

Massier Unit #31-1

Start Date: 2006.12.13 @ 02:37:35

End Date: 2006.12.13 @ 09:02:59

Job Ticket #: 25255 DST #: 1

15-051-25589

NW W2

2580 FSL 330 FEL

**RECEIVED
KANSAS CORPORATION COMMISSION**

JAN 11 2007

**CONSERVATION DIVISION
WICHITA, KS**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

IA Operating Inc
900 N Tyler #14
Wichita KS 67212
ATTN: Hal Porter

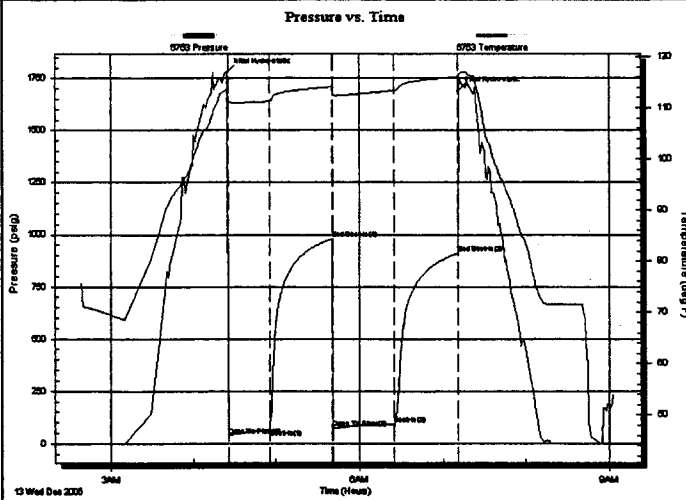
Massier Unit #31-1
31 11S 19W Ellis KS
Job Ticket: 25255 **DST#: 1**
Test Start: 2006.12.13 @ 02:37:35

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 04:25:00
Time Test Ended: 09:02:59
Interval: **3657.00 ft (KB) To 3703.00 ft (KB) (TVD)**
Total Depth: **3749.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: **Fair**
Test Type: **Conventional Straddle**
Tester: **Ray Schwager**
Unit No: **28**
Reference Elevations: **2096.00 ft (KB)**
2091.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6753 Inside
Press@RunDepth: **90.85 psig @ 3658.01 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2006.12.13** End Date: **2006.12.13** Last Calib.: **2006.12.13**
Start Time: **02:37:35** End Time: **09:02:59** Time On Btm: **2006.12.13 @ 04:24:30**
Time Off Btm: **2006.12.13 @ 07:10:59**

TEST COMMENT: IFP Wk bl thru-out 1/4 " to 1 " bl
FFP Wk bl thru-out surface bl
Times 30 45 45 45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1777.61	113.51	Initial Hydro-static
1	35.51	111.21	Open To Flow (1)
31	69.94	111.32	Shut-in(1)
76	979.04	114.10	End Shut-in(1)
77	73.42	112.42	Open To Flow (2)
121	90.85	113.38	Shut-in(2)
166	911.33	116.07	End Shut-in(2)
167	1689.71	116.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	HO&WCM 20%O 20%W 60%M	0.59
15.00	CO	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating Inc
900 N Tyler #14
Wichita KS 67212
ATTN: Hal Porter

Massier Unit #31-1
31 11S 19W Ellis KS
Job Ticket: 25255 **DST#: 1**
Test Start: 2006.12.13 @ 02:37:35

Tool Information

Drill Pipe:	Length: 3526.00 ft	Diameter: 3.80 inches	Volume: 49.46 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	50.05 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3657.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	3703.02 ft			
Interval between Packers:	46.02 ft			
Tool Length:	116.03 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3637.00	
Shut In Tool	5.00			3642.00	
Hydraulic tool	5.00			3647.00	
Packer	5.00			3652.00	21.00 Bottom Of Top Packer
Packer	5.00			3657.00	
Stubb	1.00			3658.00	
Recorder	0.01	6753	Inside	3658.01	
Perforations	4.00			3662.01	
Blank Spacing	32.00			3694.01	
Recorder	0.01	13534	Outside	3694.02	
Perforations	5.00			3699.02	
Blank Off Sub	1.00			3700.02	
Blank Spacing	3.00			3703.02	46.02 Tool Interval
Packer	5.00			3708.02	
Stubb	1.00			3709.02	
Perforations	8.00			3717.02	
Recorder	0.01	13547	Below	3717.03	
Blank Spacing	32.00			3749.03	
Bullhose	3.00			3752.03	49.01 Bottom Packers & Anchor

Total Tool Length: 116.03



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DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating Inc
900 N Tyler #14
Wichita KS 67212

ATTN: Hal Porter

Massler Unit #31-1
31 11S 19W Ellis KS
Job Ticket: 25255 DST#: 1
Test Start: 2006.12.13 @ 02:37:35

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 19000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.46 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5500.00 ppm		
Filter Cake: 2.00 inches		

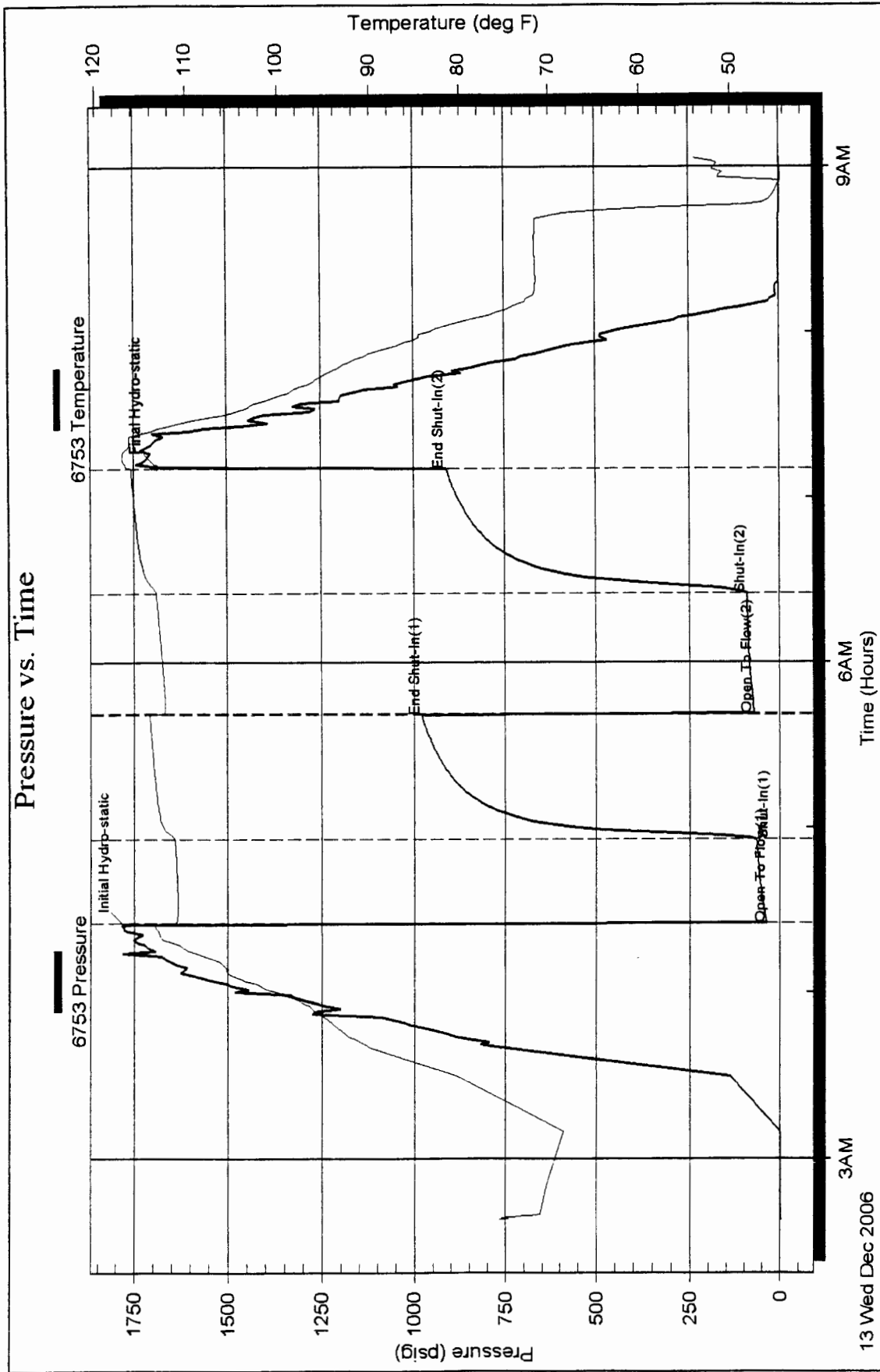
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	HO&WCM 20%O 20%W 60%M	0.590
15.00	CO	0.210

Total Length: 135.00 ft Total Volume: 0.800 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .45 @ 53F

Pressure vs. Time



13 Wed Dec 2006

3 AM

6 AM

9 AM

CHART PAGE

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

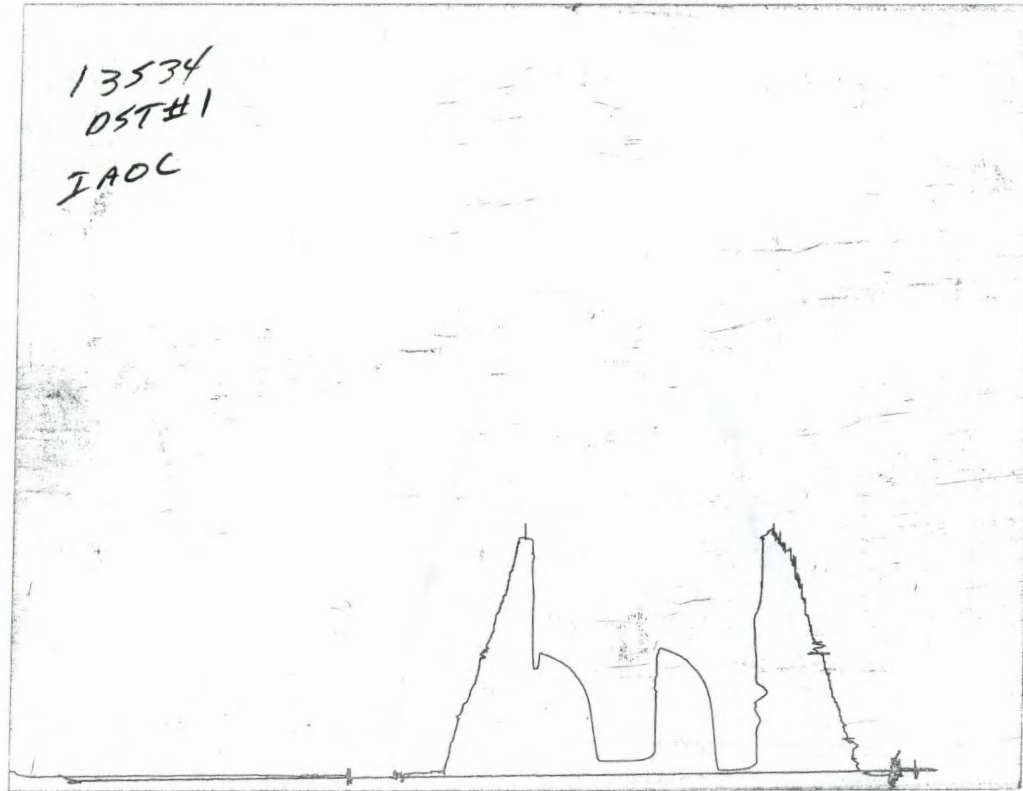


CHART PAGE

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

