

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **J &D Investments**

ATTN: Bob Stozle

**30 18 17 Rush KS**

**#2 Tammen**

Start Date: 2006.10.22 @ 09:50:09

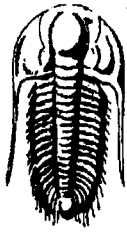
End Date: 2006.10.22 @ 16:31:39

Job Ticket #: 26874                      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

J & D Investments

**#2 Tammen**

**30 18 17 Rush KS**

Job Ticket: 26874

**DST#: 1**

ATTN: Bob Stozle

Test Start: 2006.10.22 @ 09:50:09

## GENERAL INFORMATION:

Formation: **ARB**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 16:31:39

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 28

Interval: **3702.00 ft (KB) To 3760.00 ft (KB) (TVD)**

Reference Elevations: 2.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

1.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 1.00 ft

**Serial #: 6753**

Inside

Press@RunDepth: psig @ 3704.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.10.22

End Date:

2006.10.22

Last Calib.: 2006.10.22

Start Time: 09:50:14

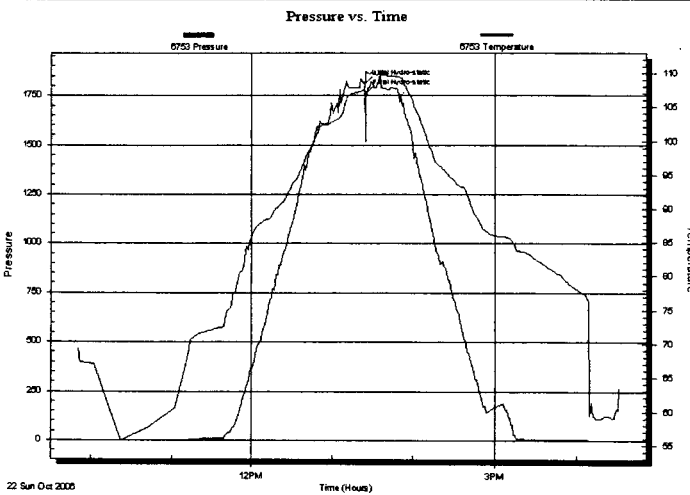
End Time:

16:31:38

Time On Btm: 2006.10.22 @ 13:24:09

Time Off Btm: 2006.10.22 @ 13:25:09

TEST COMMENT: IF Packer Failure



## PRESSURE SUMMARY

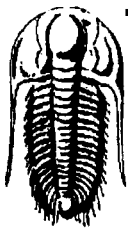
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1809.33	107.56	Initial Hydro-static
1	1762.32	110.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
425.00	Drilling Mud	4.88

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

J & D Investments

**#2 Tammen**

**30 18 17 Rush KS**

Job Ticket: 26874

**DST#: 1**

ATTN: Bob Stozle

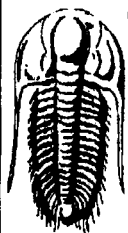
Test Start: 2006.10.22 @ 09:50:09

### Tool Information

Drill Pipe:	Length: 3577.00 ft	Diameter: 3.80 inches	Volume: 50.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 50.77 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3702.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.02 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
Change Over Sub	1.00			3674.00	
Shut In Tool	5.00			3679.00	
Hydraulic tool	5.00			3684.00	
Jars	5.00			3689.00	
Safety Joint	3.00			3692.00	
Packer	5.00			3697.00	29.00 Bottom Of Top Packer
Packer	5.00			3702.00	
Stubb	1.00			3703.00	
Perforations	1.00			3704.00	
Recorder	0.01	6753	Inside	3704.01	
Change Over Sub	1.00			3705.01	
Drill Pipe	31.00			3736.01	
Change Over Sub	1.00			3737.01	
Perforations	20.00			3757.01	
Recorder	0.01	13534	Outside	3757.02	
Bullnose	3.00			3760.02	58.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>87.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

J & D Investments

**#2 Tammen**

**30 18 17 Rush KS**

Job Ticket: 26874

**DST#: 1**

ATTN: Bob Stozle

Test Start: 2006.10.22 @ 09:50:09

## 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: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
425.00	Drilling Mud	4.878

Total Length: 425.00 ft      Total Volume: 4.878 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

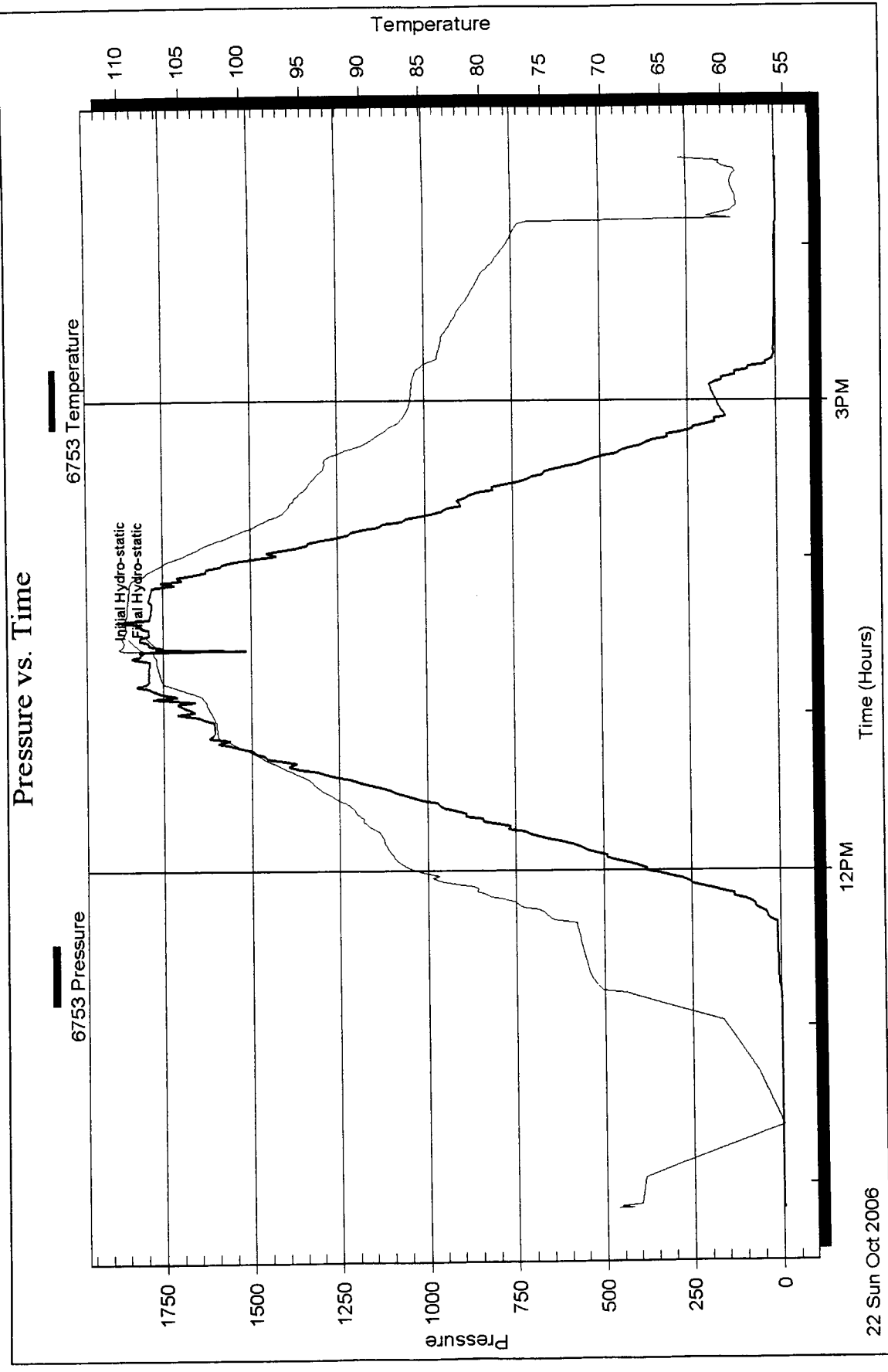
DST Test Number: 1

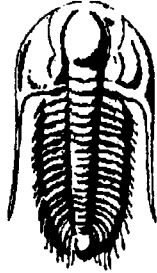
30 18 17 Rush KS

J & D Investments

Inside

Serial #: 6753





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **J &D Investments**

ATTN: Bob Stozle

**30 18 17 Rush KS**

**#2 Tammen**

Start Date: 2006.10.23 @ 04:39:00

End Date: 2006.10.23 @ 16:02:30

Job Ticket #: 26875                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

J &D Investments

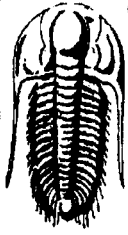
#2 Tammen

30 18 17 Rush KS

DST # 2

ARB

2006.10.23



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

J & D Investments

#2 Tammen

30 18 17 Rush KS

Job Ticket: 26875

DST#: 2

ATTN: Bob Stozle

Test Start: 2006.10.23 @ 04:39:00

### GENERAL INFORMATION:

Formation: **ARB**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:40:00

Time Test Ended: 16:02:30

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 28

Interval: **3682.00 ft (KB) To 3762.00 ft (KB) (TVD)**

Total Depth: 3828.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2.00 ft (KB)

1.00 ft (CF)

KB to GR/CF: 1.00 ft

Serial #: **6753**

Inside

Press@RunDepth: 567.43 psig @ 3683.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.10.23

End Date:

2006.10.23

Last Calib.: 2006.10.23

Start Time: 04:39:05

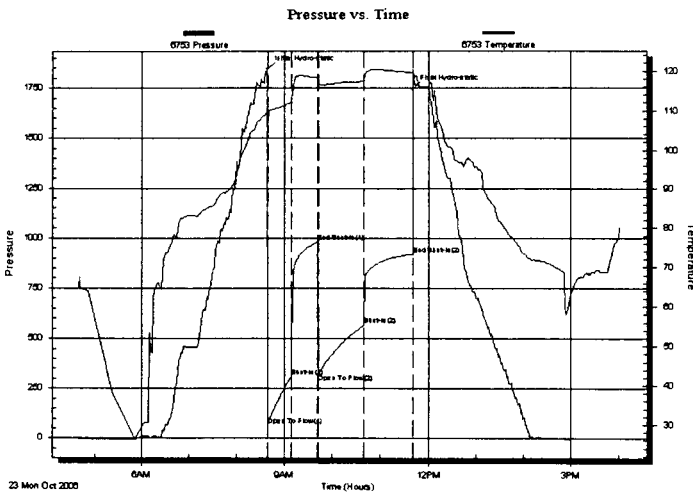
End Time:

16:02:30

Time On Btm: 2006.10.23 @ 08:39:30

Time Off Btm: 2006.10.23 @ 11:41:00

TEST COMMENT: IF B of B 2 m  
ISI Built to 3 "  
FF B of B 3 m  
FSI Built to 1/4 "



### PRESSURE SUMMARY

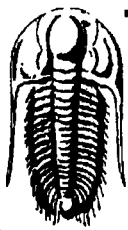
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.48	109.60	Initial Hydro-static
1	65.30	107.45	Open To Flow (1)
30	308.21	112.21	Shut-In(1)
63	978.65	118.36	End Shut-In(1)
63	321.27	117.26	Open To Flow (2)
120	567.43	117.59	Shut-In(2)
181	918.63	119.61	End Shut-In(2)
182	1744.51	120.34	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
280.00	MudCut Oil 5%G 10%M 85%O	2.84
1300.00	Gassy Clean Oil 15%G 85%O	18.24
0.00	280 Gip	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

J & D Investments

**#2 Tammen**

**30 18 17 Rush KS**

Job Ticket: 26875

**DST#: 2**

ATTN: Bob Stozle

Test Start: 2006.10.23 @ 04:39:00

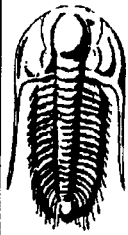
**Tool Information**

Drill Pipe:	Length: 3545.00 ft	Diameter: 3.80 inches	Volume: 49.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3682.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	141.02 ft			
Tool Length:	169.02 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			3655.00	
Shut In Tool	5.00			3660.00	
Hydraulic tool	5.00			3665.00	
Jars	5.00			3670.00	
Safety Joint	2.00			3672.00	
Packer	5.00			3677.00	28.00 Bottom Of Top Packer
Packer	5.00			3682.00	
Stubb	1.00			3683.00	
Recorder	0.01	6753	Inside	3683.01	
Perforations	1.00			3684.01	
Change Over Sub	1.00			3685.01	
Drill Pipe	62.00			3747.01	
Change Over Sub	1.00			3748.01	
Perforations	10.00			3758.01	
Recorder	0.01	13534	Outside	3758.02	
Blank Off Sub	1.00			3759.02	141.02 Tool Interval
Packer	0.00			3759.02	
Perforations	1.00			3760.02	
Change Over Sub	1.00			3761.02	
Drill Pipe	62.00			3823.02	1000168.02 Bottom Packers & Anchor

**Total Tool Length: 169.02**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

J & D Investments

**#2 Tammen**

**30 18 17 Rush KS**

Job Ticket: 26875

**DST#: 2**

ATTN: Bob Stozle

Test Start: 2006.10.23 @ 04:39:00

**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:	ppm
Viscosity: 41.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 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 bbl
280.00	MudCut Oil 5%G 10%M 85%O	2.844
1300.00	Gassy Clean Oil 15%G 85%O	18.236
0.00	280 Gip	0.000

Total Length: 1580.00 ft      Total Volume: 21.080 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

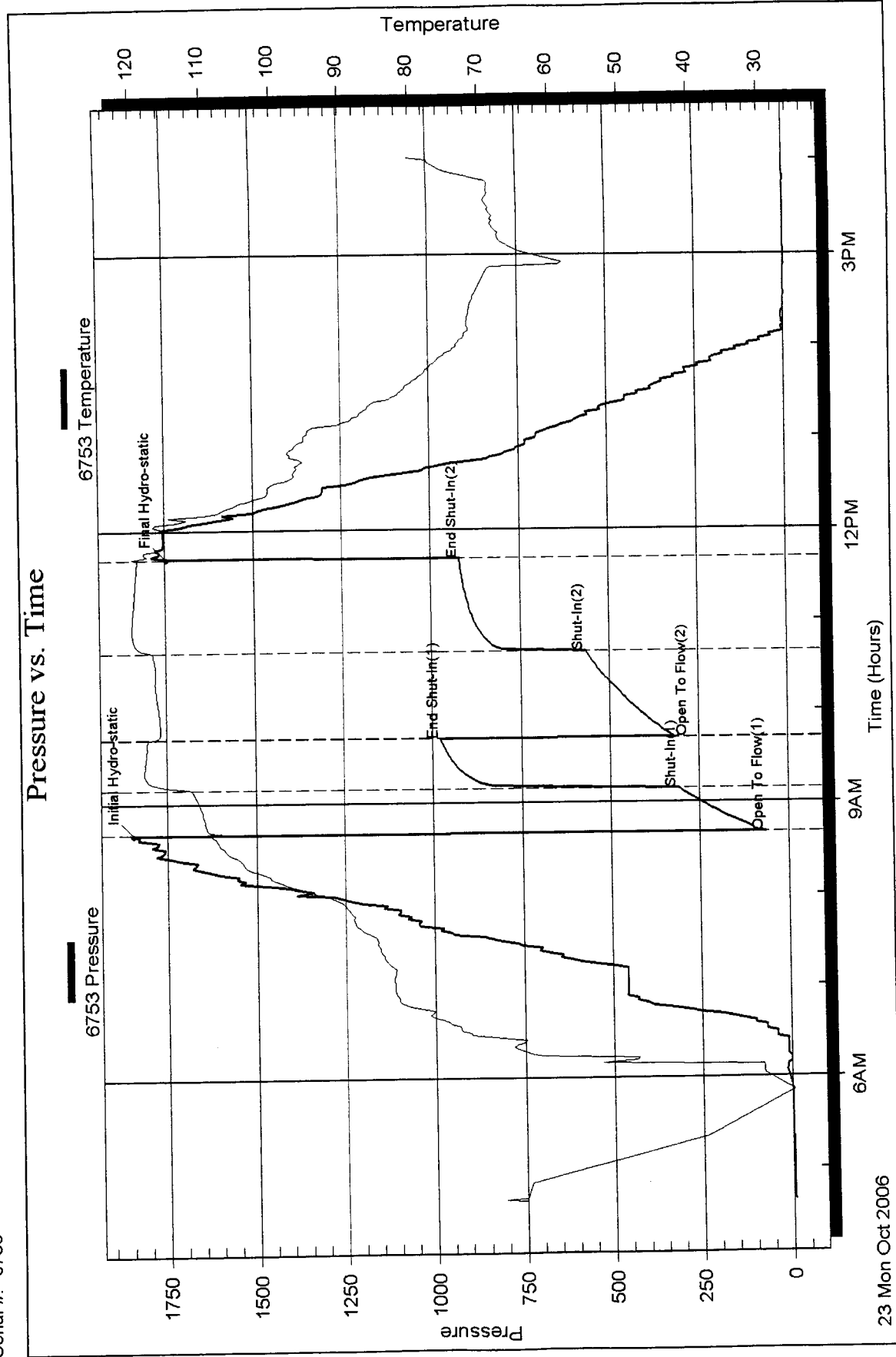
Serial #:

Laboratory Name:

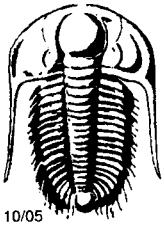
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



23 Mon Oct 2006



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9427

26874

## Test Ticket

Well Name & No. #2 Jammer Test No. 1 Date 10-22-06  
 Company VJI Investments Zone Tested Arb  
 Address \_\_\_\_\_ Elevation \_\_\_\_\_ KB \_\_\_\_\_ GL \_\_\_\_\_  
 Co. Rep / Geo. Bob Stozle Rig Warren 17  
 Location: Sec. 30 Twp. 18s Rge. 17 Co. Rush State KS  
 Comment: 30 Release date / time: \_\_\_\_\_

Interval Tested 3702 - 3760 Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 56,000  
 Anchor Length 58 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 36,000  
 Top Packer Depth 3709.8 Tool Weight 2,000  
 Bottom Packer Depth 3702 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3760 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 119  
 Mud Wt. 9.1 LCM 2 Vis. 48 WL 8.8 Drill Pipe Size 4 1/2 Ft. Run 3577  
 Blow Description IF - Packer Failure

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>425</u>	Feet of <u>Drilling Mud</u>	%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
Rec. _____	Feet of _____	%gas	%oil %water %mud
BHT _____	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____ *API _____
RW _____ @ _____	*F _____	Chlorides _____ ppm	Recovery _____ Chlorides _____ ppm System _____

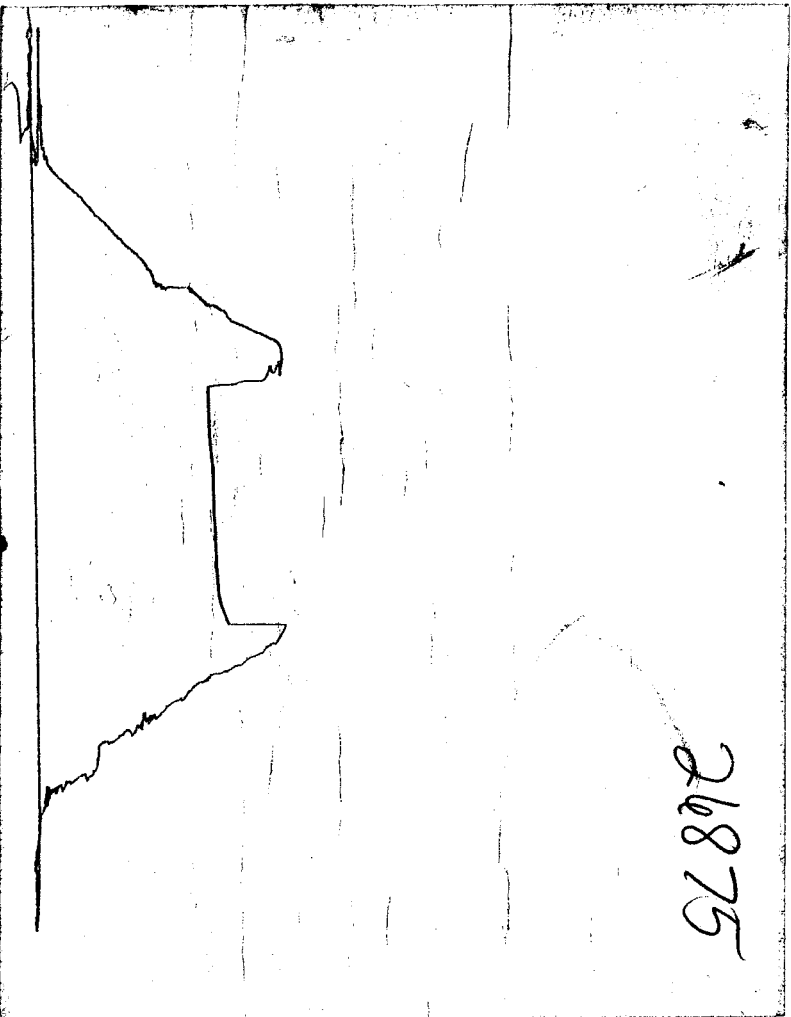
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	PSI	PSI	<u>6753</u>	<u>900</u>
(B) First Initial Flow Pressure	PSI	PSI	(depth) <u>3705</u>	Jars <u>250</u>
(C) First Final Flow Pressure	PSI	PSI	Recorder No. <u>13534</u>	Safety Jt. <u>75</u>
(D) Initial Shut-In Pressure	PSI	PSI	(depth) <u>3759</u>	Circ Sub _____
(E) Second Initial Flow Pressure	PSI	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	PSI	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	PSI	PSI	<b>Initial Opening</b> _____	Ext. Packer _____
(Q) Final Hydrostatic Mud	PSI	PSI	Initial Shut-In _____	Shale Packer _____
			Final Flow _____	Ruined Packer _____
			Final Shut-In _____	Mileage <u>33x2 8250</u>
			<b>T-On Location</b> <u>9:45</u>	Sub Total: _____
			T-Started <u>9:50</u>	Std. By _____
			T-Open <u>1:22</u>	Acc. Chg: _____
			T-Pulled <u>1:35</u>	Other: _____
			T-Out <u>16:25</u>	Total: <u>\$1307.50</u>

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 Michael Ambruster

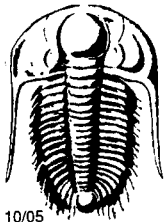
**CHART PAGE**

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



26875

Tanner #2



# TRILOBITE TESTING INC.

26875

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Tanner #2 Test No. 2 Date 10-23-06  
 Company J&D Investments Zone Tested Arb  
 Address \_\_\_\_\_ Elevation \_\_\_\_\_ KB \_\_\_\_\_ GL \_\_\_\_\_  
 Co. Rep / Geo. Bob Stozle Rig Warren 17  
 Location: Sec. 30 Twp. 18 Rge. 17 Co. Rush State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3682-3762 Initial Str Wt./Lbs. 52000 Unseated Str Wt./Lbs. 60000  
 Anchor Length 80 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 15,000  
 Top Packer Depth 3682 Tool Weight 2,000  
 Bottom Packer Depth 3762 Hole Size 7 7/8" \_\_\_\_\_ Rubber Size 6 3/4" \_\_\_\_\_  
 Total Depth 3828 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 119  
 Mud Wt. 9.2 LCM 1# Vis. 41 WL 10.0 Drill Pipe Size 4 1/2 Ft. Run 3545  
 Blow Description JF - BoFB 2m  
ISI - Built to 3"  
FF - BoFB 3m  
FSI - Built to 1/4"

Recovery - Total Feet 1580 GIP 280 Ft. in DC 119 Ft. in DP 119  
 Rec. 1300 Feet of Clean Gassy Oil 15% gas 85% oil \_\_\_\_\_% water \_\_\_\_\_% mud  
 Rec. 280 Feet of Mud cut Oil 5% gas 85% oil \_\_\_\_\_% water 10 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_%oil \_\_\_\_\_%water \_\_\_\_\_%mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_%oil \_\_\_\_\_%water \_\_\_\_\_%mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_%oil \_\_\_\_\_%water \_\_\_\_\_%mud  
 BHT 120 °F Gravity 41 °API D @ 70 °F Corrected Gravity 40 °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 6800 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1821</u>	PSI	<u>6753</u>	Ran <u>1100</u>
(B) First Initial Flow Pressure	<u>65</u>	PSI	(depth) <u>3688</u>	Jars Ran <u>250</u>
(C) First Final Flow Pressure	<u>308</u>	PSI	Recorder No. <u>13534</u>	Safety Jt Ran <u>75</u>
(D) Initial Shut-In Pressure	<u>979</u>	PSI	(depth) <u>3768</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>321</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>567</u>	PSI	(depth) <u>3758</u>	Straddle _____
(G) Final Shut-In Pressure	<u>919</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1745</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>60</u>	Ruined Packer _____
			Final Shut-In <u>60</u>	Mileage <u>33x2 82.50</u>
			T-On Location <u>4:15</u>	Sub Total: _____
			T-Started <u>4:38</u>	Std. By <u>2.75</u> <u>275</u>
			T-Open <u>8:40</u>	Acc. Chg: _____
			T-Pulled <u>11:40</u>	Other: _____
			T-Out <u>8:15:00</u>	Total: <u>1782.50</u>

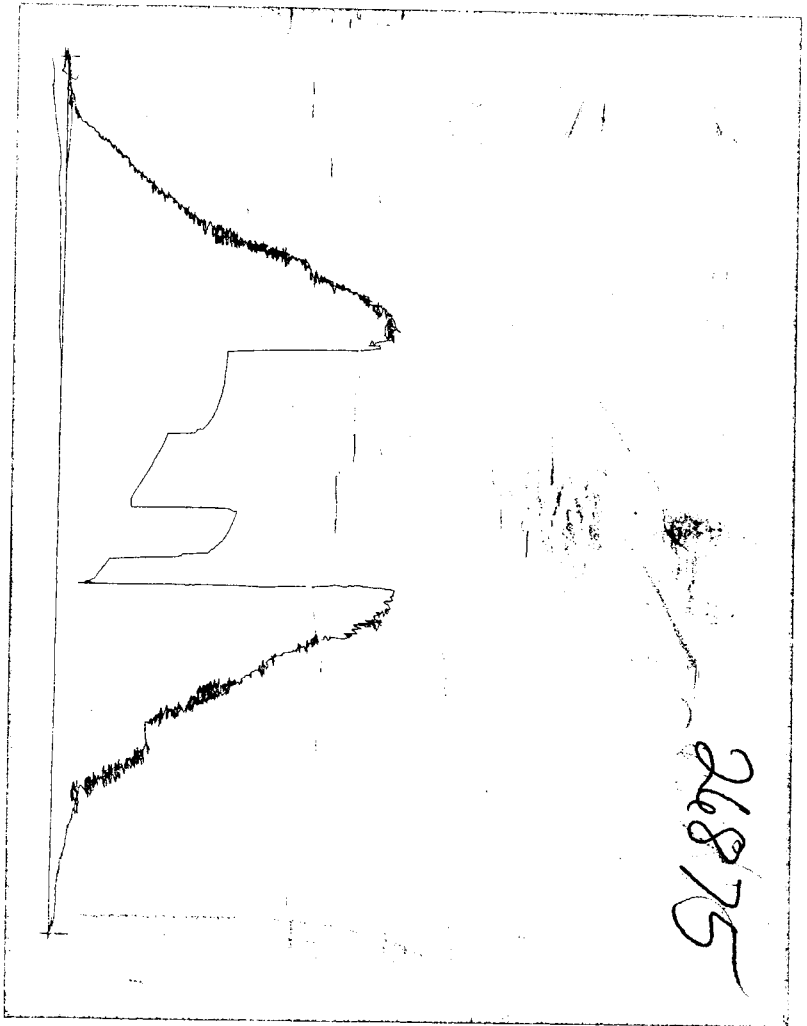
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Approved By \_\_\_\_\_  
 Our Representative Michael Armbrester

1782.50

**CHART PAGE**

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



26875

Tanner #2