

## DRILL STEM TEST REPORT

Prepared For: **Larson Oper.Co.**

562 W.Hwy 4  
Olmitz Ks. 67564

ATTN: Steve Davis

**29-18s-9w Rice Ks.**

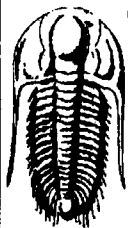
**Behnke #1-29**

Start Date: 2004.06.04 @ 17:24:10

End Date: 2004.06.05 @ 02:03:25

Job Ticket #: 18999      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
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**TRILOBITE  
TESTING, INC.**

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Test Start: 2004.06.04 @ 17:24:10

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:26:10

Time Test Ended: 02:03:25

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **3207.00 ft (KB) To 3270.00 ft (KB) (TVD)**

Total Depth: 3270.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1728.00 ft (KB)

1723.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6755** Inside

Press@RunDepth: 95.02 psig @ 3208.00 ft (KB)

Start Date: 2004.06.04 End Date: 2004.06.05

Start Time: 17:24:15 End Time: 02:03:25

Capacity: 7000.00 psig

Last Calib.: 2004.06.05

Time On Btm: 2004.06.04 @ 19:23:10

Time Off Btm: 2004.06.04 @ 23:22:25

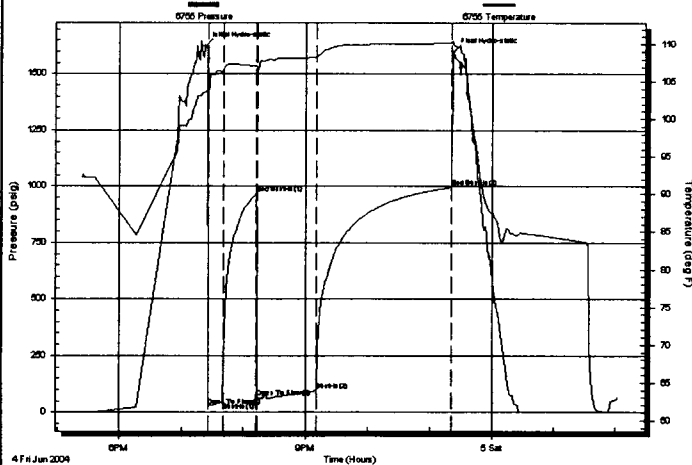
TEST COMMENT: F:Weak blow . 1/2 - 1 1/2".

IS:No blow .

FF:Fair to strong blow . B.O.B. in 41 mins.

FS:No blow .

Pressure vs. Time



### PRESSURE SUMMARY

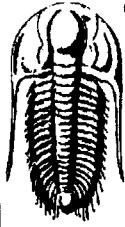
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.16	103.60	Initial Hydro-static
3	27.14	102.94	Open To Flow (1)
18	45.32	106.38	Shut-in(1)
50	966.41	107.11	End Shut-in(1)
51	65.50	106.66	Open To Flow (2)
108	95.02	108.31	Shut-in(2)
238	995.85	110.14	End Shut-in(2)
240	1598.88	109.88	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
90.00	GOCM 15%g 18%o 67%m	1.26
130.00	Clean oil 4%g 96%o	1.82
0.00	90 ft.of gas in pipe	0.00

### Gas Rates

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



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**TOOL DIAGRAM**

Larson Oper.Co.

**Behnke #1-29**

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Olmitz Ks. 67564

**29-18s-9w Rice Ks.**

Job Ticket: 18999

**DST#: 1**

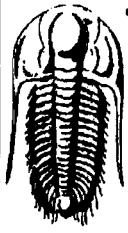
ATTN: Steve Davis

Test Start: 2004.06.04 @ 17:24:10

**Tool Information**

Drill Pipe:	Length: 3199.00 ft	Diameter: 3.80 inches	Volume: 44.87 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 44.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3207.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	93.00 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			3178.00	
Shut In Tool	5.00			3183.00	
Sampler	3.00			3186.00	
Hydraulic tool	5.00			3191.00	
Jars	5.00			3196.00	
Safety Joint	2.00			3198.00	
Packer	4.00			3202.00	30.00 Bottom Of Top Packer
Packer	5.00			3207.00	
Stubb	1.00			3208.00	
Recorder	0.00	6755	Inside	3208.00	
Perforations	24.00			3232.00	
Change Over Sub	1.00			3233.00	
Blank Spacing	31.00			3264.00	
Change Over Sub	1.00			3265.00	
Recorder	0.00	13222	Outside	3265.00	
Bullnose	5.00			3270.00	63.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>93.00</b>				



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ATTN: Steve Davis

Test Start: 2004.06.04 @ 17:24:10

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 6000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.17 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 0.20 inches		

**Recovery Information**

Recovery Table

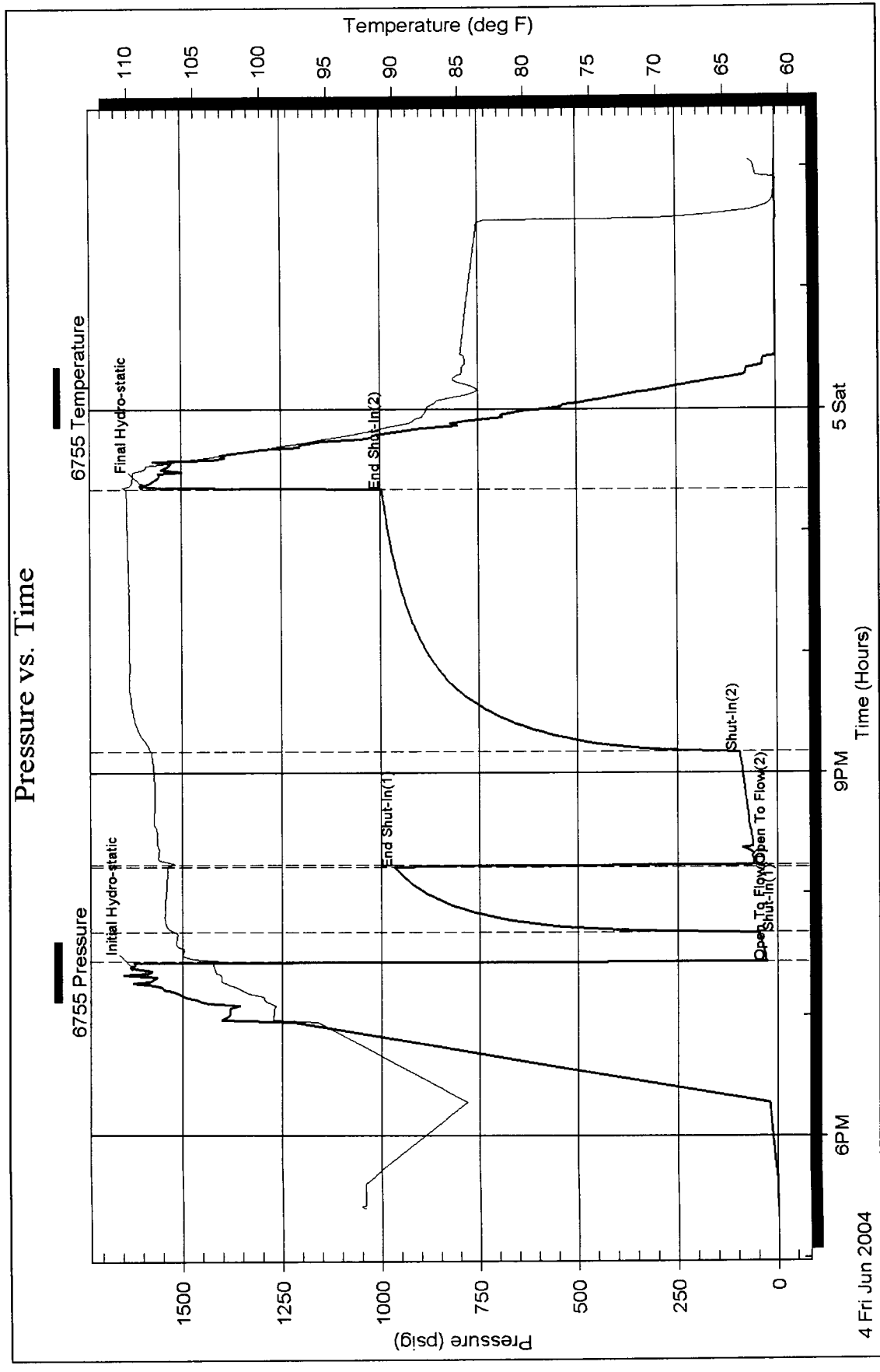
Length ft	Description	Volume bbl
90.00	GOCM 15%g 18%o 67%m	1.262
130.00	Clean oil 4%g 96%o	1.824
0.00	90 ft.of gas in pipe	0.000

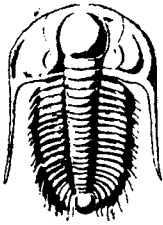
Total Length: 220.00 ft      Total Volume: 3.086 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Sampler Data: .3 cubic ft. gas/ 4100 ml. oil/ trace of mud @ 195 psi.





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 18999

05/03

## Test Ticket

Well Name & No. Behmke II 1-29 Test No. 1 Date 6-4-04  
 Company Larson Oper. Co. Zone Tested Arbuckle  
 Address 562 W. Hwy 4, Olathe, Mo. 67564 Elevation 1728 KB 1723 GL  
 Co. Rep / Geo. Steve Davis Cont. Petromark Dlg. Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 29 Twp. 18<sup>s</sup> Rge. 9<sup>w</sup> Co. Rice State Ko.  
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3207 - 3270' Initial Str Wt./Lbs. 32,000 Unseated Str Wt./Lbs. 36,000  
 Anchor Length 63' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 48,000  
 Top Packer Depth 3201' Tool Weight 2100 #  
 Bottom Packer Depth 3207' Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth 3270' Wt. Pipe Run None Drill Collar Run None  
 Mud Wt. 9.2 LCM 10 Vis. 54 WL 9.2cc Drill Pipe Size 4 1/2" Ft. Run 3199'  
 Blow Description IF: Weak below. 1/2 - 1 1/2". ISI: No below.

FF: Fair to strong below. B.O.B. in 41 mins. FSI: No below

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>226</u>	<u>90</u>	<u>0</u>	<u>220</u>
Rec. <u>130</u> Feet of <u>clean oil</u>	<u>4%</u> gas	<u>96</u> %oil	%water %mud
Rec. <u>90</u> Feet of <u>60CM</u>	<u>15%</u> gas	<u>18</u> %oil	<u>67</u> %water %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
BHT <u>110</u> °F Gravity <u>38</u> °API D @ <u>63</u> °F Corrected Gravity <u>38</u> °API			
RW <u>N.C.</u> @ _____ °F Chlorides <u>N.C.</u> ppm Recovery _____ Chlorides <u>6,000</u> ppm System			

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1625</u> PSI		<u>6755</u>	<u>700</u>
(B) First Initial Flow Pressure	<u>27</u> PSI		(depth) <u>3208'</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure	<u>45</u> PSI		Recorder No. <u>13222</u>	Jars <u>800</u>
(D) Initial Shut-In Pressure	<u>966</u> PSI		(depth) <u>3265'</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure	<u>66</u> PSI		Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>95</u> PSI		(depth) _____	Sampler <u>200</u>
(G) Final Shut-In Pressure	<u>996</u> PSI	Initial Opening	<u>15</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1599</u> PSI	Initial Shut-In	<u>30</u>	Ext. Packer _____
		Final Flow	<u>60</u>	Shale Packer _____
		Final Shut-In	<u>120</u>	Mileage <u>169</u> <u>136</u>
		T-On Location	<u>1600</u>	Sub Total: <u>1436</u>
		T-Started	<u>1724</u>	Std. By <u>60</u>
		T-Open	<u>1926</u>	Other _____
		T-Pulled	<u>2323</u>	Total: <u>1496</u>
		T-Out	<u>0203</u>	

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Approved By [Signature]  
Our Representative Gary Matthews

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 18999 Date 6-11-04  
Company Name Larson Oper. Co.  
Lease Behrke #1-29 Test No. 1  
County Rice Co. Sec. 29 Twp. 18S Rng. 9W

### SAMPLER RECOVERY

Gas 0.3 cubic ft   
Oil 4100 ML  
Mud Trace ML  
Water 0 ML  
Other — ML  
Pressure 195 PSI  
Total 4100 ML

### PIT MUD ANALYSIS

Chlorides 0,000 ppm.  
Resistivity N.C. ohms @ — F  
Viscosity 54  
Mud Weight 9.5  
Filtrate 9.2 cc  
Other LCM 1<sup>th</sup>/3L

### SAMPLER ANALYSIS

Resistivity N/A ohms @ — F  
Chlorides N/A ppm.  
Gravity 38 corrected @ 60 F

### PIPE RECOVERY

TOP 90' GIP  
Resistivity — ohms @ — F  
Chlorides — ppm.  
MIDDLE 130' clear Oil  
Resistivity N/A ohms @ — F  
Chlorides N/A ppm.  
BOTTOM 90' GOCM  
Resistivity N.C. ohms @ — F  
Chlorides N.C. ppm.

**CHART PAGE**

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

