



## DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 S Market St  
Wichita KS 67202

ATTN: Bob Bayer

**19 18 30 Lane KS**

**Unruh 2-19**

Start Date: 2006.05.31 @ 00:24:43

End Date: 2006.05.31 @ 09:18:53

Job Ticket #: 23101                      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

Lario Oil & Gas  
 301 S Market St  
 Wichita KS 67202  
 ATTN: Bob Bayer

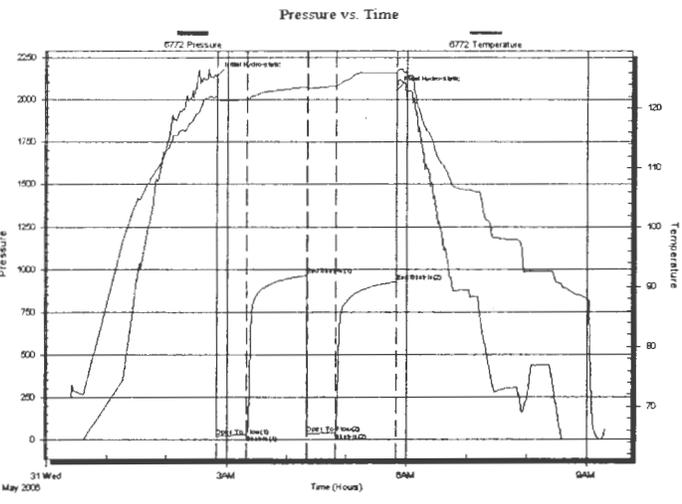
**Unruh 2-19**  
**19 18 30 Lane KS**  
 Job Ticket: 23101      **DST#: 1**  
 Test Start: 2006.05.31 @ 00:24:43

### GENERAL INFORMATION:

Formation: **Marmton**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 02:49:53  
 Time Test Ended: 09:18:53  
 Test Type: Conventional Bottom Hole  
 Tester: Brandon Turley  
 Unit No: 35  
 Interval: **4340.00 ft (KB) To 4386.00 ft (KB) (TVD)**  
 Reference Elevations: 2920.00 ft (KB)  
 Total Depth: 4386.00 ft (KB) (TVD)      2910.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 10.00 ft

**Serial #: 6772      Inside**  
 Press@RunDepth: 43.86 psig @ 4341.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.05.31      End Date: 2006.05.31      Last Calib.: 1899.12.30  
 Start Time: 00:24:43      End Time: 09:18:53      Time On Btm: 2006.05.31 @ 02:49:38  
 Time Off Btm: 2006.05.31 @ 05:50:07

**TEST COMMENT:** IF 1/4 blow died to a weak surface blow  
 IS No return  
 FF No blow  
 FS No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.68	122.03	Initial Hydro-static
1	18.69	121.17	Open To Flow (1)
31	32.05	121.60	Shut-In(1)
91	962.99	123.66	End Shut-In(1)
92	33.43	123.42	Open To Flow (2)
120	43.86	123.78	Shut-In(2)
181	926.84	126.00	End Shut-In(2)
181	2054.69	126.35	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	100%M	0.84

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

**Unruh 2-19**

301 S Market St  
Wichita KS 67202

**19 18 30 Lane KS**

Job Ticket: 23101

**DST#: 1**

ATTN: Bob Bayer

Test Start: 2006.05.31 @ 00:24:43

### Tool Information

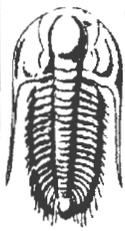
Drill Pipe:	Length: 4329.00 ft	Diameter: 3.80 inches	Volume: 60.72 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4340.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4314.00	
Shut In Tool	5.00			4319.00	
Hydraulic tool	5.00			4324.00	
Jars	5.00			4329.00	
Safety Joint	2.00			4331.00	
Packer	5.00			4336.00	27.00 Bottom Of Top Packer
Packer	4.00			4340.00	
Stubb	1.00			4341.00	
Recorder	0.00	6772	Inside	4341.00	
Perforations	6.00			4347.00	
Change Over Sub	1.00			4348.00	
Drill Pipe	32.00			4380.00	
Change Over Sub	1.00			4381.00	
Recorder	0.00	7437	Outside	4381.00	
Bullnose	5.00			4386.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Lario Oil & Gas

Unruh 2-19

301 S Market St  
Wichita KS 67202

19 18 30 Lane KS

Job Ticket: 23101

DST#: 1

ATTN: Bob Bayer

Test Start: 2006.05.31 @ 00:24:43

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	100%M	0.842

Total Length: 60.00 ft

Total Volume: 0.842 bbl

Num Fluid Samples: 0

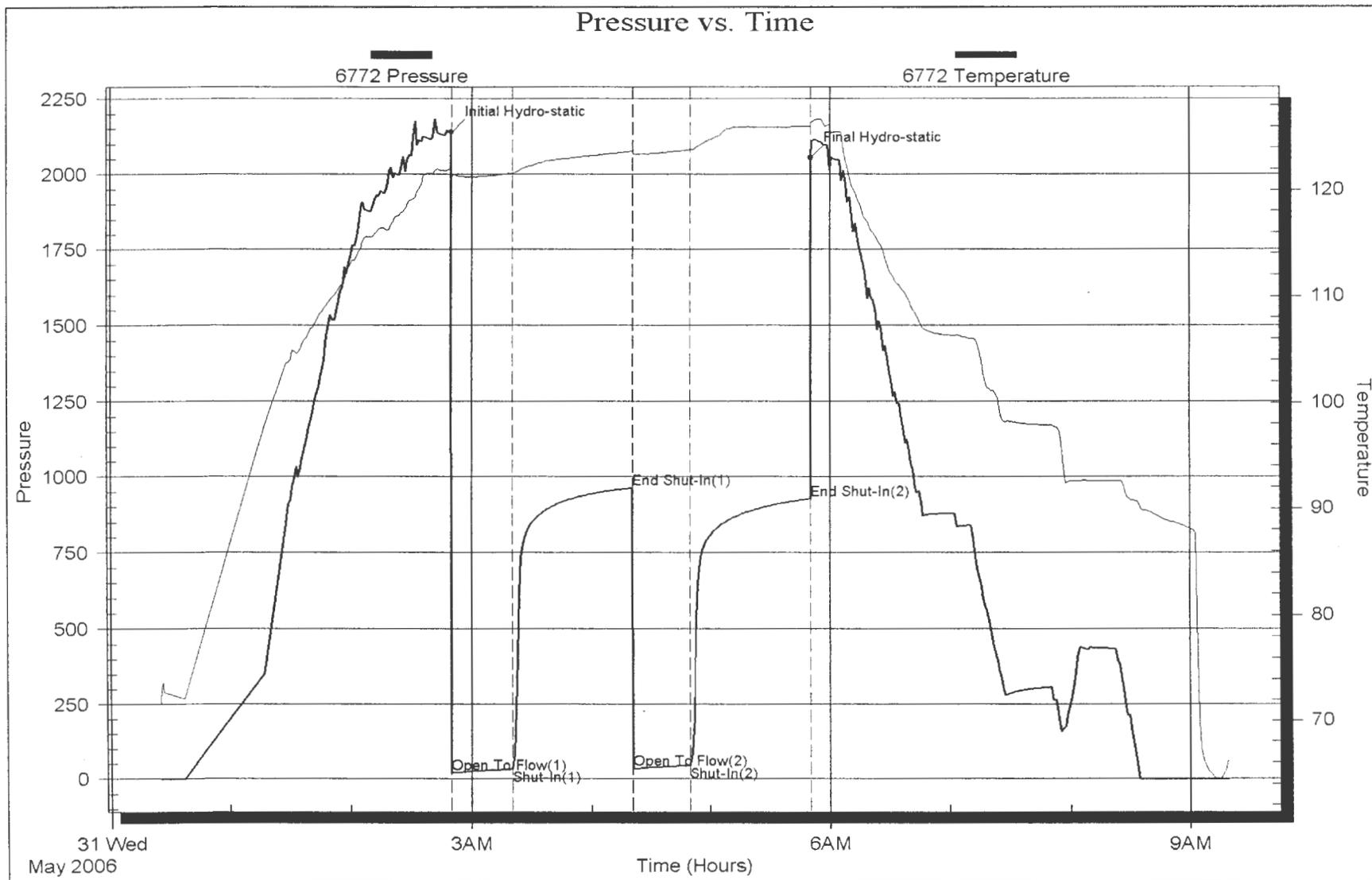
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 S Market St  
Wichita KS 67202

ATTN: Bob Bayer

**19 18 30 Lane KS**

**Unruh 2-19**

Start Date: 2006.06.01 @ 05:43:01

End Date: 2006.06.01 @ 15:27:45

Job Ticket #: 24214                      DST #: 2

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

Lario Oil & Gas

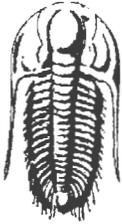
Unruh 2-19

19 18 30 Lane KS

DST # 2

Johnson

2006.06.01



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas

**Unruh 2-19**

301 S Market St  
Wichita KS 67202

**19 18 30 Lane KS**

Job Ticket: 24214

**DST#: 2**

ATTN: Bob Bayer

Test Start: 2006.06.01 @ 05:43:01

### GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 08:34:15

Time Test Ended: 15:27:45

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **18**

Interval: **4508.00 ft (KB) To 4553.00 ft (KB) (TVD)**

Total Depth: **4553.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2920.00 ft (KB)**

**2910.00 ft (CF)**

KB to GR/CF: **10.00 ft**

**Serial #: 8017**

**Inside**

Press@RunDepth: **420.09 psig @ 4511.00 ft (KB)**

Start Date: **2006.06.01**

End Date:

**2006.06.01**

Start Time: **05:43:01**

End Time:

**15:27:45**

Capacity: **7000.00 psig**

Last Calib.: **2006.06.01**

Time On Btm: **2006.06.01 @ 08:33:45**

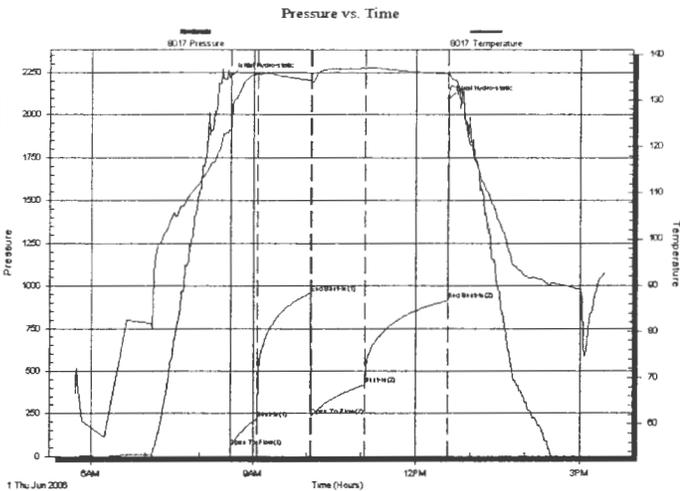
Time Off Btm: **2006.06.01 @ 12:35:30**

TEST COMMENT: **IF Fair blow built to 11 1/2 in**

**ISI No return**

**FF Fair blow built to 6 1/2 in then receded to 4 in**

**FSI No return**



### PRESSURE SUMMARY

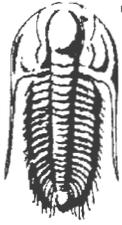
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.49	123.52	Initial Hydro-static
1	53.22	123.01	Open To Flow (1)
31	218.43	135.77	Shut-In(1)
91	957.63	134.37	End Shut-In(1)
91	232.65	134.04	Open To Flow (2)
151	420.09	136.90	Shut-In(2)
242	914.21	135.75	End Shut-In(2)
242	2095.16	136.50	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
173.00	M 100%M	2.43
123.00	WCM 10%W 90%M	1.73
185.00	MCW 30%M 70%W	2.60
400.00	W 100%W	5.61

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Lario Oil & Gas  
301 S Market St  
Wichita KS 67202  
  
ATTN: Bob Bayer

**Unruh 2-19**  
**19 18 30 Lane KS**  
Job Ticket: 24214      DST#: 2  
Test Start: 2006.06.01 @ 05:43:01

**Tool Information**

Drill Pipe:	Length: 4500.00 ft	Diameter: 3.80 inches	Volume: 63.12 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 63.12 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4508.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 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			4481.00	
Shut In Tool	5.00			4486.00	
Hydraulic tool	5.00			4491.00	
Jars	5.00			4496.00	
Safety Joint	3.00			4499.00	
Packer	5.00			4504.00	28.00      Bottom Of Top Packer
Packer	4.00			4508.00	
Stubb	1.00			4509.00	
Perforations	2.00			4511.00	
Recorder	0.00	8017	Inside	4511.00	
Perforations	37.00			4548.00	
Recorder	0.00	13276	Inside	4548.00	
Bullnose	5.00			4553.00	45.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Unruh 2-19

301 S Market St  
Wichita KS 67202

19 18 30 Lane KS

Job Ticket: 24214

DST#: 2

ATTN: Bob Bayer

Test Start: 2006.06.01 @ 05:43:01

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

17000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
173.00	M 100%M	2.427
123.00	WCM 10%W 90%M	1.725
185.00	MCW 30%M 70%W	2.595
400.00	W 100%W	5.611

Total Length: 881.00 ft      Total Volume: 12.358 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

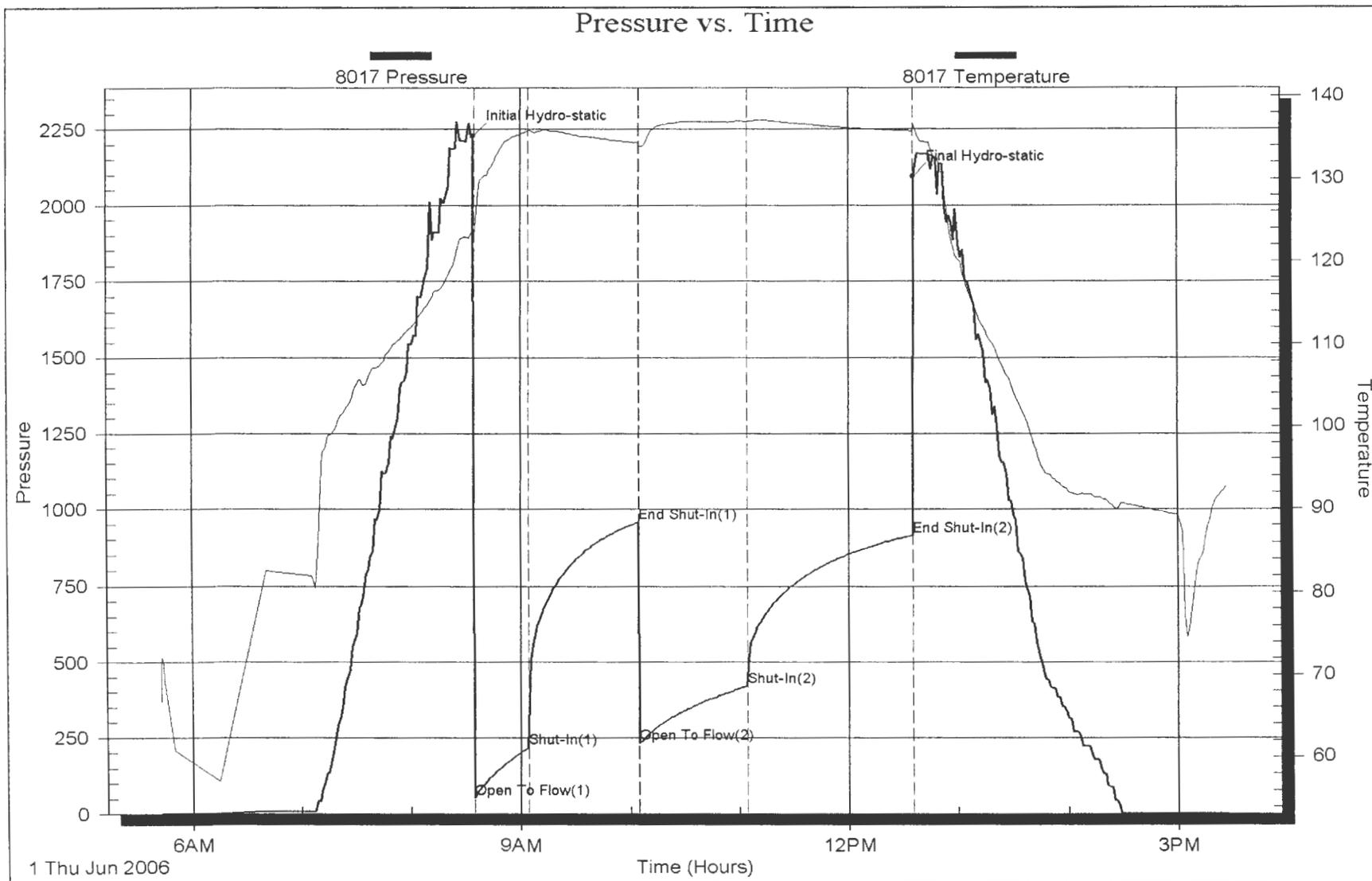
Serial #:

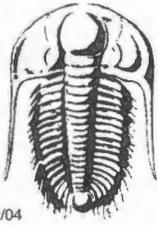
Laboratory Name:

Laboratory Location:

Recovery Comments: Spots of oil seen in 481 feet of drill pipe.

RW: .317 @ 88 degree F = 17,000





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 23101

8834

## Test Ticket

Well Name & No. 4nr4h 2-19 Test No. 1 Date 5-30-06  
 Company Lario oil & Gas CO. Zone Tested Mginton  
 Address 3015. Market St. Wichita, KS 67202 Elevation 2920 KB 2910 GL  
 Co. Rep / Geo. Bob Bayer Cont. V91 #1 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. A Twp. 18 Rge. 30 Co. LANE State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4340 4386 Initial Str Wt./Lbs. 52000 Unseated Str Wt./Lbs. 52,000  
 Anchor Length \_\_\_\_\_ 46 Wt. Set Lbs. 30,006 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth \_\_\_\_\_ 4335 Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 4340 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth \_\_\_\_\_ 4386 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run \_\_\_\_\_  
 Mud Wt. 9.4 LCM 1/2 Vis. 44 WL 7.6 Drill Pipe Size 4 1/2 x H Ft. Run 4329  
 Blow Description IF: 1/4 blow died to 96 week surface blow.

IS: No return.  
FF: No blow.  
FS: No return.

Recovery - Total Feet 60 GIP \_\_\_\_\_ Ft. in DC \_\_\_\_\_ Ft. in DP 60  
 Rec. 60 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 126 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 2300 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2144</u> PSI	<u>6772</u>	<u>x 1100.00</u>
(B) First Initial Flow Pressure		<u>18</u> PSI	(depth) <u>4341</u>	Jars <u>x 250.00</u>
(C) First Final Flow Pressure		<u>32</u> PSI	Recorder No. <u>7437</u>	Safety Jt. <u>x 75.00</u>
(D) Initial Shut-In Pressure		<u>962</u> PSI	(depth) <u>4385</u>	Circ Sub <u>x N/C</u>
(E) Second Initial Flow Pressure		<u>33</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>43</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>926</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2116</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>60</u>	Mileage <u>28 - 32.50</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.

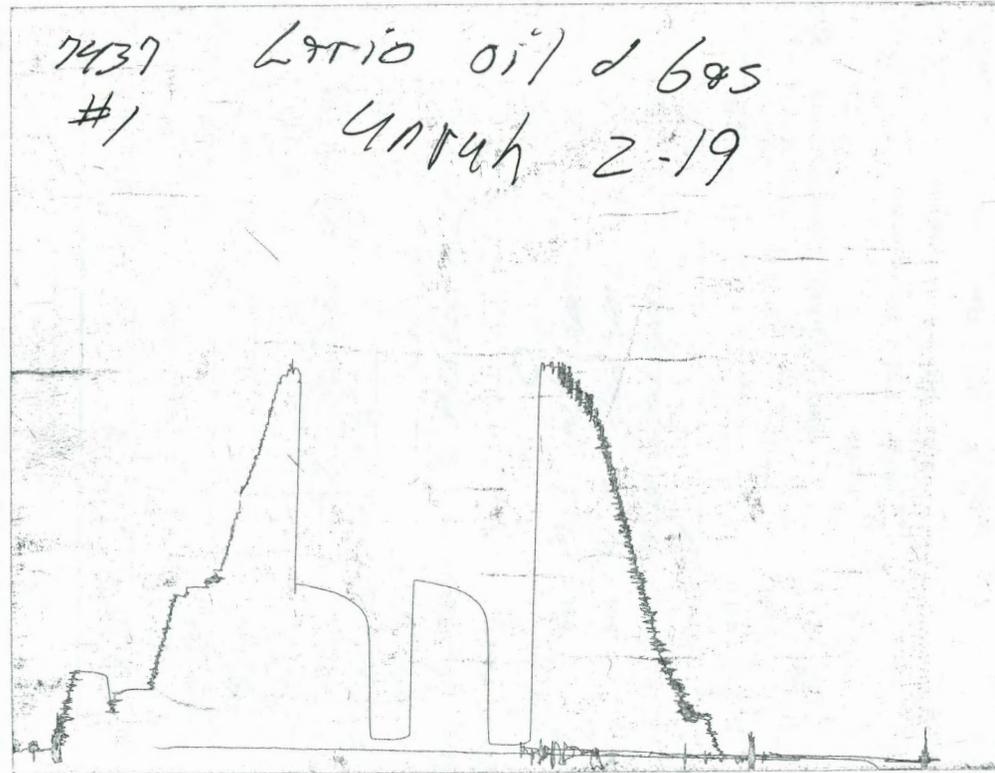
Approved By [Signature]  
 Our Representative [Signature]

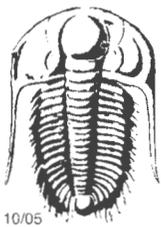
T-On Location	T-Started	T-Open	T-Pulled	T-Out
<u>20:30</u>	<u>00:24</u>	<u>2:49</u>	<u>5:49</u>	<u>9:20</u>

Sub Total: 1457.50  
 Std. By x 3.75 187.50  
 Other 4  
 Total: 1645.00

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 24214

8834

## Test Ticket

Well Name & No. Uncuh #2-19 Test No. 2 Date 6-1-06  
 Company Lario Oil + Gas Co. Zone Tested Johnson  
 Address 301 S. Market St. Wichita, KS 67202 Elevation 2911 KB 2901 GL  
 Co. Rep / Geo. Robert Bayer Rig Val #1  
 Location: Sec. 19 Twp. 18S Rge. 30W Co. Lane State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4508 to 4553 Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 59,000  
 Anchor Length 45 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 20,000  
 Top Packer Depth 4504 Tool Weight 1,800  
 Bottom Packer Depth 4508 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth 4553 Wt. Pipe Run 0 Drill Collar Run 0  
 Mud Wt. 9.3 LCM Trace Vis. 54 WL 2.2 Drill Pipe Size 4 1/2 XH Ft. Run 4,500

Blow Description IF Fair blow built to 11 1/2"  
ISI No return.  
FF Fair blow built to 6 1/2" then receded to 4"  
FSI No return

Recovery - Total Feet \_\_\_\_\_ GIP 0 Ft. in DC 0 Ft. in DP 881  
 Rec. 173 Feet of Mud w/oil spots %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 100 %mud \_\_\_\_\_  
 Rec. 123 Feet of WCM w/oil spots %gas \_\_\_\_\_ %oil 10 %water 90 %mud \_\_\_\_\_  
 Rec. 185 Feet of MCW w/oil spots %gas \_\_\_\_\_ %oil 70 %water 30 %mud \_\_\_\_\_  
 Rec. 400 Feet of W %gas \_\_\_\_\_ %oil 100 %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 30 Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 136 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .317 @ 83 °F Chlorides 17,000 ppm Recovery 17,000 Chlorides 2,200 ppm System

	AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud		<u>2226</u> PSI	<u>8017</u>	<u>1100</u>
(B) First Initial Flow Pressure		<u>53</u> PSI (depth)	<u>4511</u>	Jars X <u>250</u>
(C) First Final Flow Pressure		<u>218</u> PSI	<u>13276</u>	Safety Jt. X <u>75</u>
(D) Initial Shut-In Pressure		<u>958</u> PSI (depth)	<u>4548</u>	Circ Sub X <u>NK</u>
(E) Second Initial Flow Pressure		<u>233</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>420</u> PSI (depth)	Recorder No. _____	Straddle _____
(G) Final Shut-In Pressure		<u>914</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2177</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____

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Approved By [Signature]  
 Our Representative Chuck Smith

Final Flow 60 Ruined Packer X 200  
 Final Shut-In 90 Mileage 28 RT 35"  
**T-On Location** 05:15 Sub Total: \_\_\_\_\_  
 T-Started 05:43 Std. By 1.5 75  
 T-Open 08:34 Acc. Chg: \_\_\_\_\_  
 T-Pulled 12:35pm Other: \_\_\_\_\_  
 T-Out 15:28 Total: \_\_\_\_\_  
3.5 in

**CHART PAGE**

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

