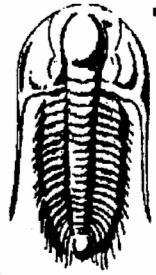


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KCC WICHITA

**DRILL STEM TEST REPORT**

**KCC**

**JAN 02 2003**

**CONFIDENTIAL**

Prepared For: **Lario Oil & Gas**  
301 S. Market  
Wichita Ks 67202

ATTN: Tim Lauer

**11 33s 19w**

**Colter 2-11**

Start Date: 2002.11.15 @ 14:16:08  
End Date: 2002.11.15 @ 14:42:38  
Job Ticket #: 16580      DST #: 1

Lario Oil & Gas  
Colter 2-11  
11 33s 19w  
DST # 1  
Ft. Scott  
2002.11.15

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Lario Oil & Gas

**Colter 2-11**

301 S. Market  
Wichita Ks 67202

**11 33s 19w**

Job Ticket: 16580

DST#: 1

ATTN: Tim Lauer

Test Start: 2002.11.15 @ 14:16:08

**Tool Information**

Drill Pipe:	Length: 4905.00 ft	Diameter: 3.08 inches	Volume: 45.20 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: 301.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 46.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	5200.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5174.00	
S.I. Tool	5.00			5179.00	
HMV	5.00			5184.00	
Jars	5.00			5189.00	
Safety Joint	2.00			5191.00	
Packer	5.00			5196.00	27.00 Bottom Of Top Packer
Packer	4.00			5200.00	
Stubb	1.00			5201.00	
Recorder	0.00	3289	Inside	5201.00	
Perforations	22.00			5223.00	
Recorder	0.00	10242	Outside	5223.00	
Bullnose	2.00			5225.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas  
301 S. Market  
Wichita Ks 67202  
ATTN: Tim Lauer

**Colter 2-11**  
**11 33s 19w**  
Job Ticket: 16580      **DST#: 1**  
Test Start: 2002.11.15 @ 14:16:08

**Mud and Cushion Information**

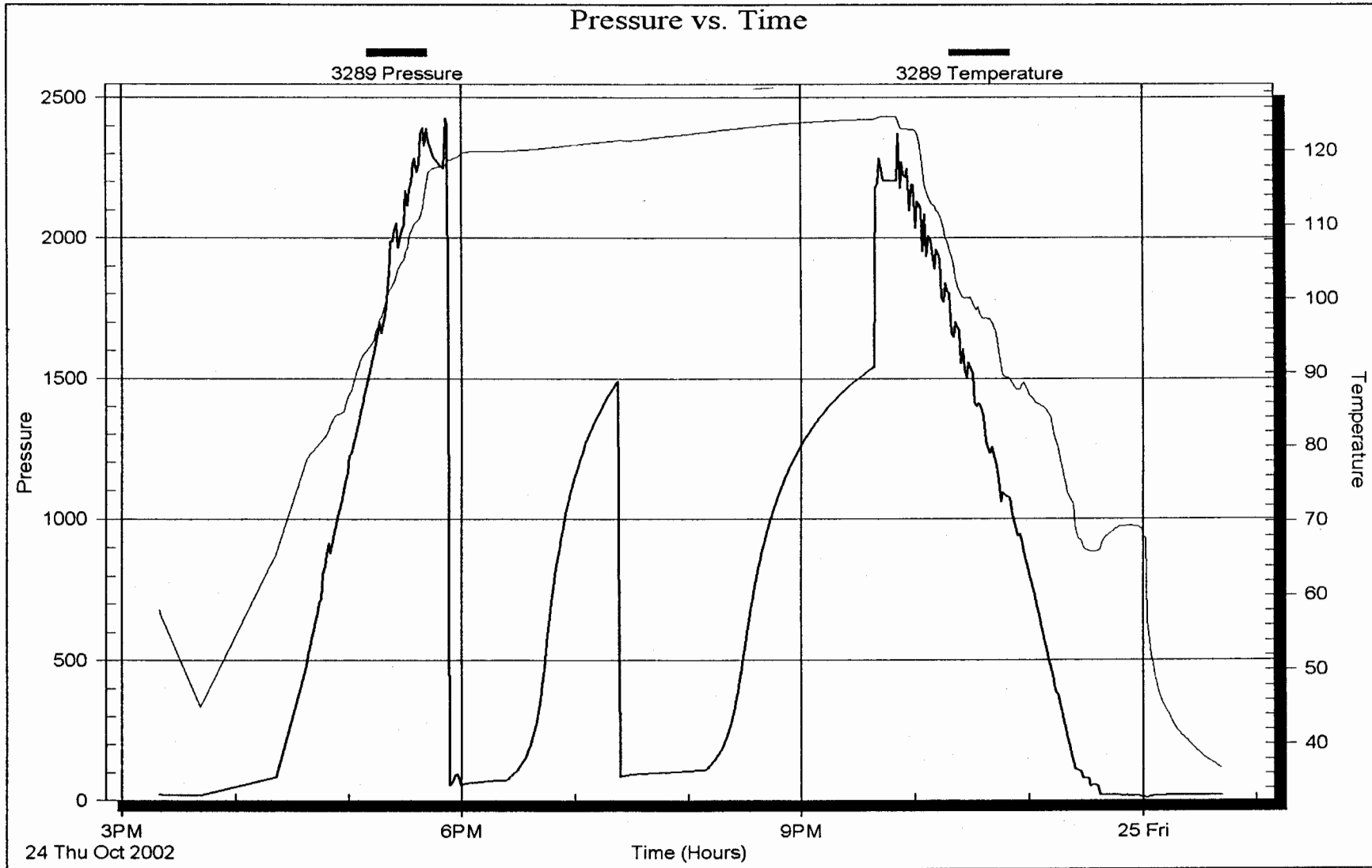
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 0.20 inches			

**Recovery Information**

Recovery Table

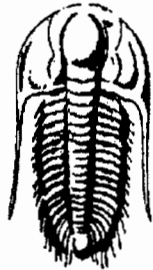
Length ft	Description	Volume bbl

Total Length:                      ft      Total Volume:                      bbl  
Num Fluid Samples: 0                      Num Gas Bombs: 0                      Serial #:  
Laboratory Name:                      Laboratory Location:  
Recovery Comments:



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## DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 S. Market  
Wichita Ks 67202

ATTN: Tim Lauer

**11 33s 19w**

**Colter 2-11**

Start Date: 2002.11.16 @ 03:10:04

End Date: 2002.11.16 @ 13:29:04

Job Ticket #: 16581

DST #: 2

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Lario Oil & Gas

Colter 2-11

11 33s 19w

DST # 2

Miss

2002.11.16

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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas  
301 S. Market  
Wichita Ks 67202  
ATTN: Tim Lauer

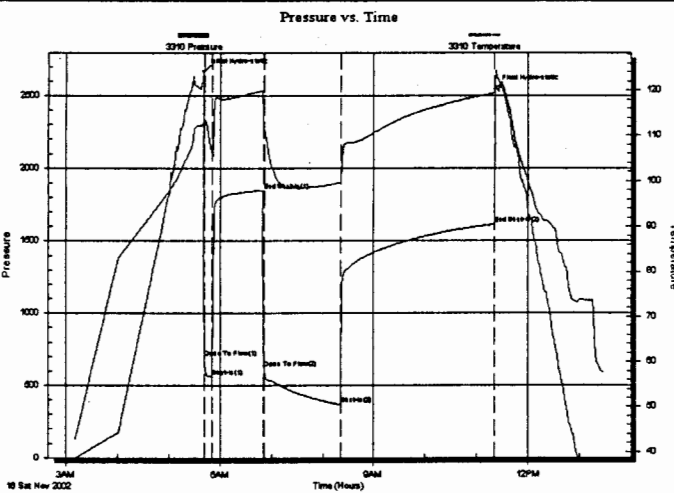
**Colter 2-11**  
**11 33s 19w**  
Job Ticket: 16581      DST#: 2  
Test Start: 2002.11.16 @ 03:10:04

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 05:42:04  
Time Test Ended: 13:29:04  
Interval: **5310.00 ft (KB) To 5345.00 ft (KB) (TVD)**  
Total Depth: **5225.00 ft (KB) (TVD)**  
Hole Diameter: **7.79 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Wenrich**  
Unit No: **14**  
Reference Elevations: **2079.00 ft (KB)**  
**2066.00 ft (CF)**  
KB to GR/CF: **13.00 ft**

**Serial #: 3310**      **Inside**  
Press@RunDepth: **365.97 psig @ 5311.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2002.11.16**      End Date: **2002.11.16**      Last Calib.: **1899.12.30**  
Start Time: **03:10:09**      End Time: **13:29:04**      Time On Btrm: **2002.11.16 @ 05:40:34**  
Time Off Btrm: **2002.11.16 @ 11:21:19**

**TEST COMMENT:** IF: Strong blow .BOB in 15 secs. GTS in 3 mins. (see gas report).  
IS: No blow.  
FF: Strong blow .BOB immediately. (see gas report).  
FS: No blow.



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2665.84	112.73	Initial Hydro-static
2	694.88	113.71	Open To Flow (1)
10	557.95	105.90	Shut-In(1)
70	1849.15	119.92	End Shut-In(1)
71	619.53	111.83	Open To Flow (2)
161	365.97	99.60	Shut-In(2)
341	1616.05	119.36	End Shut-In(2)
341	2544.89	120.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	140.00	2411.71
Last Gas Rate	0.75	96.00	1724.43
Max. Gas Rate	0.75	140.00	2411.71



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Colter 2-11

301 S. Market  
Wichita Ks 67202

11 33s 19w

Job Ticket: 16581

DST#: 2

ATTN: Tim Lauer

Test Start: 2002.11.16 @ 03:10:04

### Tool Information

Drill Pipe:	Length: 4997.00 ft	Diameter: 3.08 inches	Volume: 46.05 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: 301.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 47.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	5310.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

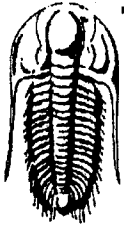
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### Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5284.00	
S.I. Tool	5.00			5289.00	
HMV	5.00			5294.00	
Jars	5.00			5299.00	
Safety Joint	2.00			5301.00	
Packer	5.00			5306.00	27.00 Bottom Of Top Packer
Packer	4.00			5310.00	
Stubb	1.00			5311.00	
Recorder	0.00	3310	Inside	5311.00	
Perforations	32.00			5343.00	
Recorder	0.00	10242	Outside	5343.00	
Bullnose	2.00			5345.00	35.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas

Colter 2-11

301 S. Market  
Wichita Ks 67202

11 33s 19w

Job Ticket: 16581

DST#: 2

ATTN: Tim Lauer

Test Start: 2002.11.16 @ 03:10:04

**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: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 0.20 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf

Total Length:

ft

Total Volume:

bbf

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: Wenrich

Laboratory Name: Caraway

Laboratory Location: Liberal, Ks

Recovery Comments:



**TRILOBITE  
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## DRILL STEM TEST REPORT

**GAS RATES**

Lario Oil & Gas

**Colter 2-11**

301 S. Market  
Wichita Ks 67202

**11 33s 19w**

Job Ticket: 16581

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2002.11.16 @ 03:10:04

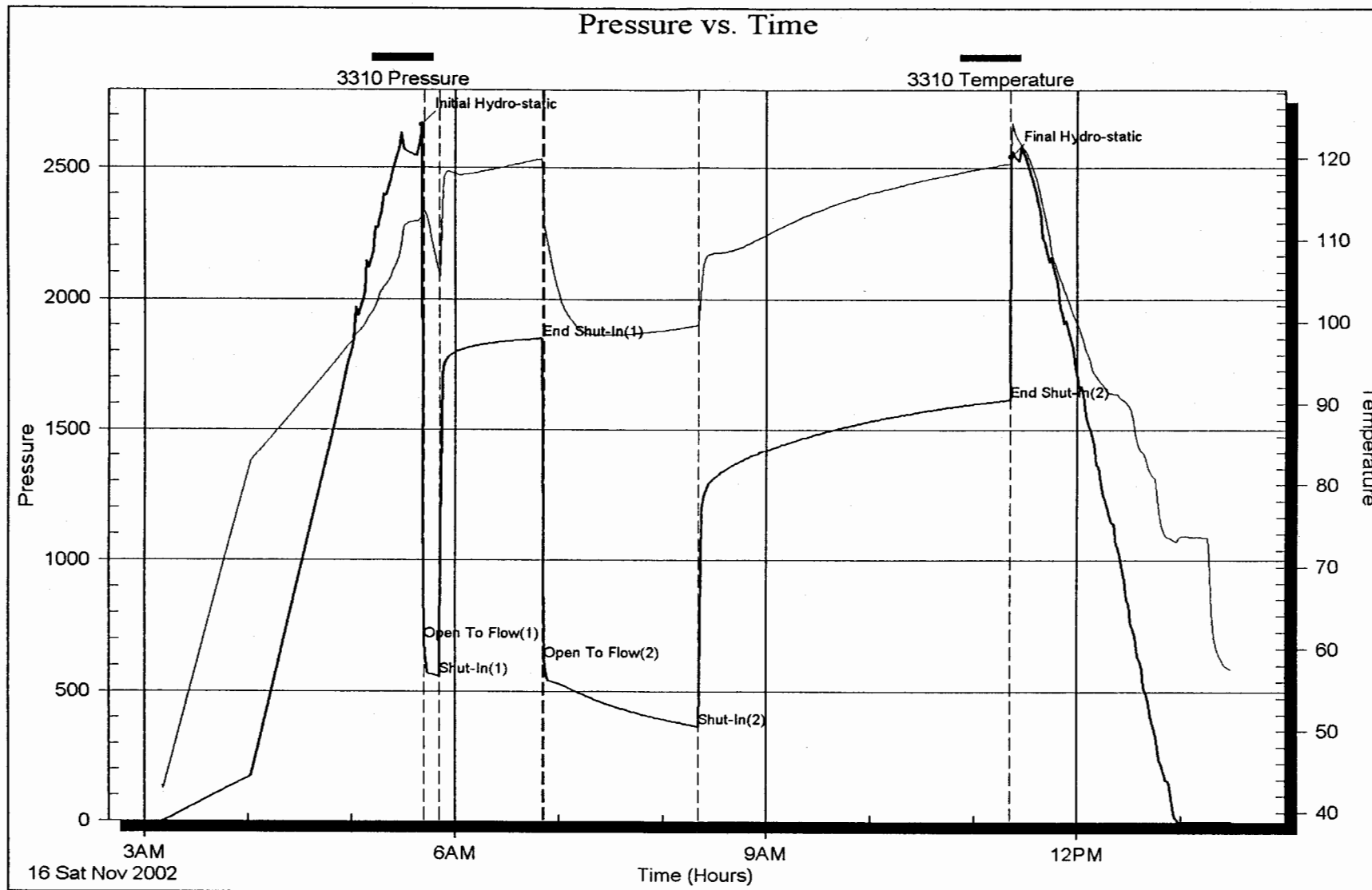
### Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

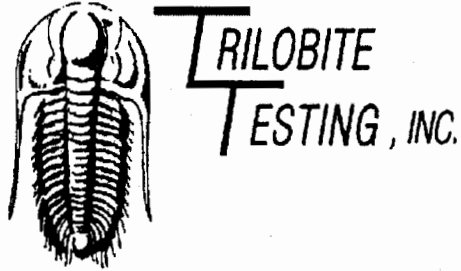
Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.75	140.00	2411.71
2	5	0.75	110.00	1943.11
2	10	0.75	135.00	2333.61
2	15	0.75	137.00	2364.85
2	20	0.75	135.00	2333.61
2	30	0.75	127.00	2208.65
2	40	0.75	120.00	2099.31
2	50	0.75	114.00	2005.59
2	60	0.75	108.00	1911.87
2	70	0.75	104.00	1849.39
2	80	0.75	100.00	1786.91
2	90	0.75	96.00	1724.43

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**DRILL STEM TEST REPORT**

Prepared For: **Lario Oil & Gas**

301 S. Market  
Wichita Ks 67202

ATTN: Tim Lauer

**11 33s 19w**

**Colter 2-11**

Start Date: 2002.11.17 @ 01:40:43

End Date: 2002.11.17 @ 10:15:28

Job Ticket #: 16582                      DST #: 3

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Lario Oil & Gas

Colter 2-11

11 33s 19w

DST # 3

Miss

2002.11.17

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# DRILL STEM TEST REPORT

Lario Oil & Gas  
301 S. Market  
Wichita Ks 67202  
ATTN: Tim Lauer

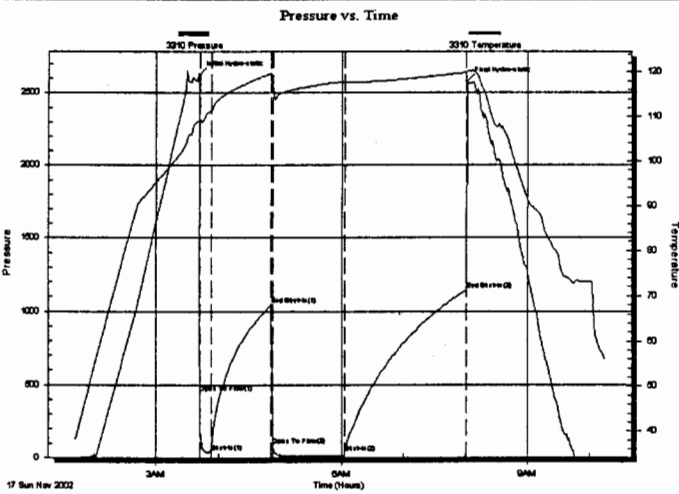
**Colter 2-11**  
**11 33s 19w**  
Job Ticket: 16582      DST#: 3  
Test Start: 2002.11.17 @ 01:40:43

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 03:42:13  
Time Test Ended: 10:15:28  
Interval: **5358.00 ft (KB) To 5389.00 ft (KB) (TVD)**  
Total Depth: **5225.00 ft (KB) (TVD)**  
Hole Diameter: **7.79 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Wenrich**  
Unit No: **14**  
Reference Elevations: **2079.00 ft (KB)**  
**2066.00 ft (CF)**  
KB to GR/CF: **13.00 ft**

**Serial #: 3310**      **Inside**  
Press@RunDepth: **32.31 psig @ 5359.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2002.11.17**      End Date: **2002.11.17**      Last Calib.: **1899.12.30**  
Start Time: **01:40:48**      End Time: **10:15:28**      Time On Btmr: **2002.11.17 @ 03:41:28**  
Time Off Btmr: **2002.11.17 @ 08:01:43**

**TEST COMMENT:** IF: Strong blow .BOB in 15 secs. GTS in 3 mins. (see gas report)  
IS: Weak blow .1/2" in bucket.  
FF: Strong blow .BOB immediately. (see gas report)  
FS: No blow.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2623.46	108.95	Initial Hydro-static
1	442.51	109.18	Open To Flow (1)
12	36.04	111.46	Shut-In(1)
71	1041.99	119.65	End Shut-In(1)
72	84.63	117.02	Open To Flow (2)
142	32.31	117.74	Shut-In(2)
260	1145.03	119.85	End Shut-In(2)
261	2578.18	120.14	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	m 100%	0.02

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	10.00	164.59
Last Gas Rate	0.25	3.00	27.60
Max. Gas Rate	0.50	10.00	164.59



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas  
301 S. Market  
Wichita Ks 67202  
ATTN: Tim Lauer

**Colter 2-11**  
**11 33s 19w**  
Job Ticket: 16582      **DST#: 3**  
Test Start: 2002.11.17 @ 01:40:43

### Tool Information

Drill Pipe:	Length: 5060.00 ft	Diameter: 3.08 inches	Volume: 46.63 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: 301.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: 48.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5358.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

C.O. Sub	1.00			5332.00	
S.I. Tool	5.00			5337.00	
HMV	5.00			5342.00	
Jars	5.00			5347.00	
Safety Joint	2.00			5349.00	
Packer	5.00			5354.00	27.00 Bottom Of Top Packer
Packer	4.00			5358.00	
Stubb	1.00			5359.00	
Recorder	0.00	3310	Inside	5359.00	
Perforations	28.00			5387.00	
Recorder	0.00	10242	Outside	5387.00	
Bullnose	2.00			5389.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Colter 2-11

301 S. Market  
Wichita Ks 67202

11 33s 19w

Job Ticket: 16582

DST#: 3

ATTN: Tim Lauer

Test Start: 2002.11.17 @ 01:40:43

### 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100%	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #: Wenrich

Laboratory Name:

Laboratory Location:

Recovery Comments:



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

# DRILL STEM TEST REPORT

**GAS RATES**

Lario Oil & Gas  
301 S. Market  
Wichita Ks 67202  
ATTN: Tim Lauer

**Colter 2-11**  
**11 33s 19w**  
Job Ticket: 16582      **DST#: 3**  
Test Start: 2002.11.17 @ 01:40:43

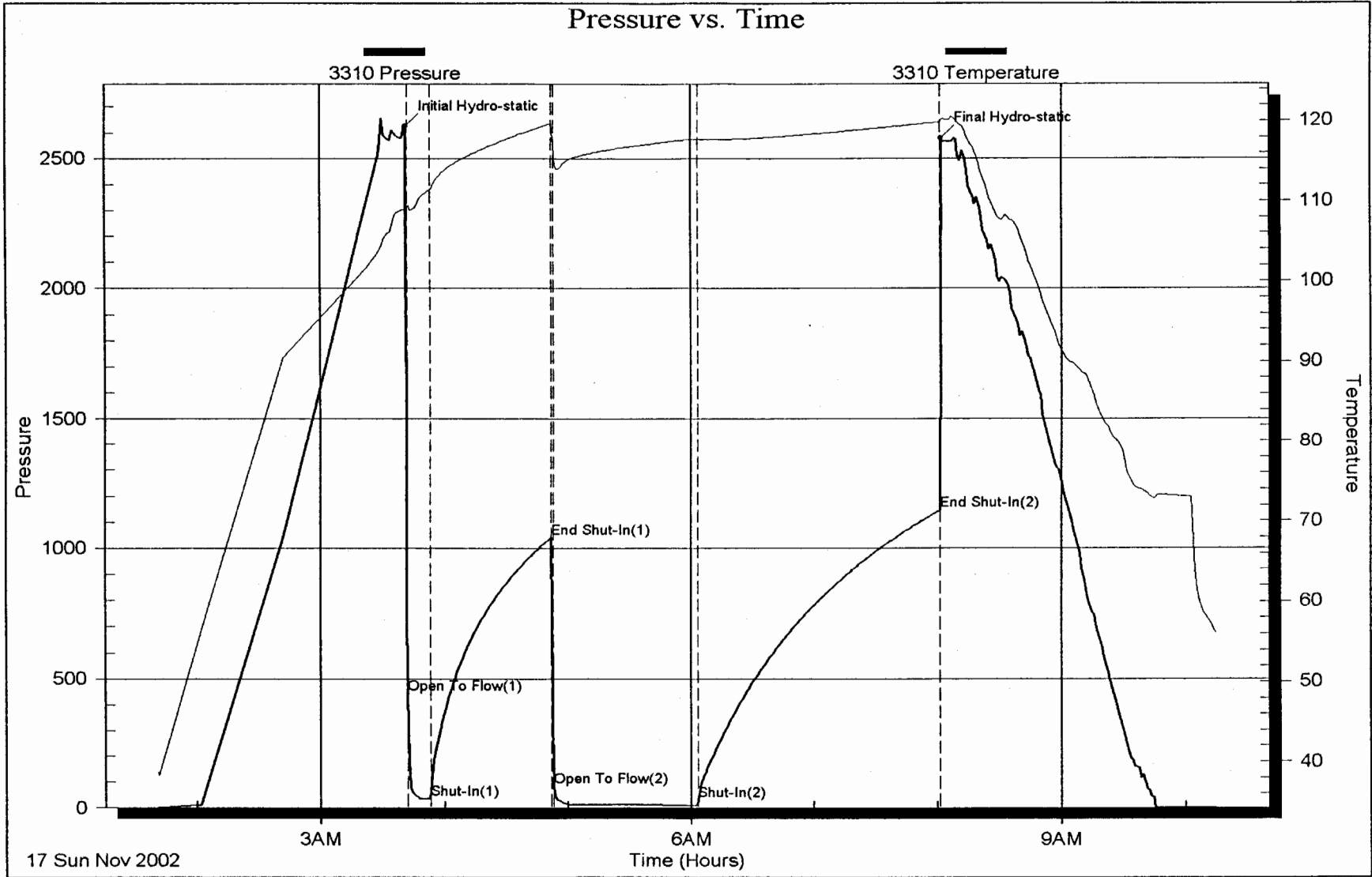
## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

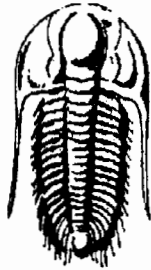
Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.50	10.00	164.59
1	10	0.50	10.00	164.59
2	10	0.50	4.00	124.12
2	20	0.25	8.00	35.54
2	30	0.25	7.00	33.95
2	40	0.25	7.00	33.95
2	50	0.25	3.00	27.60

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**DRILL STEM TEST REPORT**

Prepared For: **Lario Oil & Gas**

301 S. Market  
Wichita Ks 67202

ATTN: Tim Lauer

**11 33s 19w**

**Colter 2-11**

Start Date: 2002.11.21 @ 00:19:12

End Date: 2002.11.21 @ 09:18:27

Job Ticket #: 16528                      DST #: 4

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Colter 2-11

11 33s 19w

DST # 4

Viola

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



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**DRILL STEM TEST REPORT**

Lario Oil & Gas  
 301 S. Market  
 Wichita Ks 67202  
 ATTN: Tim Lauer

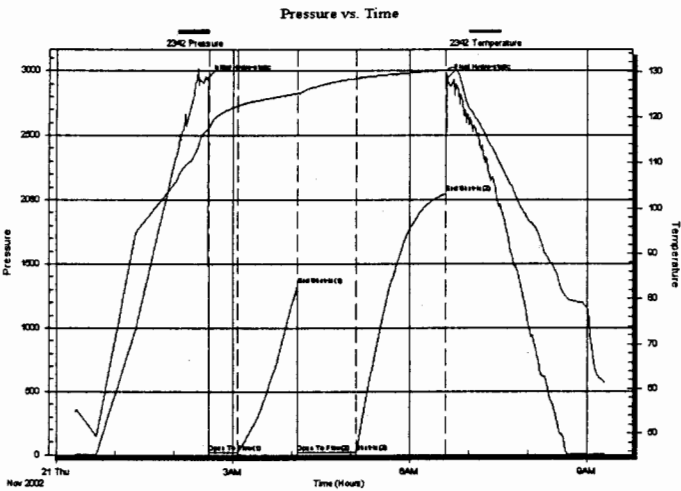
**Colter 2-11**  
**11 33s 19w**  
 Job Ticket: 16528      **DST#: 4**  
 Test Start: 2002.11.21 @ 00:19:12

**GENERAL INFORMATION:**

Formation: **Viola**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **02:35:12** Tester: **Gary Pevoteaux**  
 Time Test Ended: **09:18:27** Unit No: **23**  
 Interval: **6012.00 ft (KB) To 6048.00 ft (KB) (TVD)** Reference Elevations: **2079.00 ft (KB)**  
 Total Depth: **6048.00 ft (KB) (TVD)** **2066.00 ft (CF)**  
 Hole Diameter: **7.79 inches** Hole Condition: **Poor** KB to GR/CF: **13.00 ft**

**Serial #: 2342**      **Inside**  
 Press@RunDepth: **22.23 psig @ 6013.00 ft (KB)** Capacity: **7000.00 psig**  
 Start Date: **2002.11.21** End Date: **2002.11.21** Last Calib.: **2002.11.21**  
 Start Time: **00:19:13** End Time: **09:18:27** Time On Btm: **2002.11.21 @ 02:33:12**  
 Time Off Btm: **2002.11.21 @ 06:37:57**

**TEST COMMENT:** IF: Fair to strong blow . B.O.B. in 24 mins.  
 IS: No blow .  
 FF: Strong blow . B.O.B. in 15 seconds.  
 FSI: No blow .



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2940.07	117.28	Initial Hydro-static
2	21.98	117.61	Open To Flow (1)
32	22.99	122.46	Shut-in(1)
93	1334.61	125.20	End Shut-in(1)
93	19.13	125.20	Open To Flow (2)
153	22.23	128.48	Shut-in(2)
244	2049.43	130.17	End Shut-in(2)
245	2943.42	130.29	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
40.00	Drig.mud	0.20
0.00	600 ft. of gas in pipe	0.00

**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  
Wichita Ks 67202  
ATTN: Tim Lauer

**Colter 2-11**  
**11 33s 19w**  
Job Ticket: 16528      **DST#: 4**  
Test Start: 2002.11.21 @ 00:19:12

**Tool Information**

Drill Pipe:	Length: 5712.00 ft	Diameter: 3.80 inches	Volume: 80.12 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: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 100000.0 lb
			<b>Total Volume: 81.60 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	6012.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

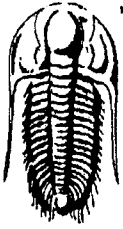
Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5986.00	
S.I. Tool	5.00			5991.00	
HMV	5.00			5996.00	
Jars	5.00			6001.00	
Safety Joint	2.00			6003.00	
Packer	4.00			6007.00	27.00      Bottom Of Top Packer
Packer	5.00			6012.00	
Stubb	1.00			6013.00	
Recorder	0.00	2342	Inside	6013.00	
Perforations	30.00			6043.00	
Recorder	0.00	13222	Outside	6043.00	
Bullnose	5.00			6048.00	36.00      Bottom Packers & Anchor

**Total Tool Length: 63.00**

*RECORDED  
JAN 10  
1000*



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Colter 2-11

301 S. Market  
Wichita Ks 67202

11 33s 19w

Job Ticket: 16528

DST#: 4

ATTN: Tim Lauer

Test Start: 2002.11.21 @ 00:19:12

## 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:

5000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	Drig.mud	0.197
0.00	600 ft. of gas in pipe	0.000

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

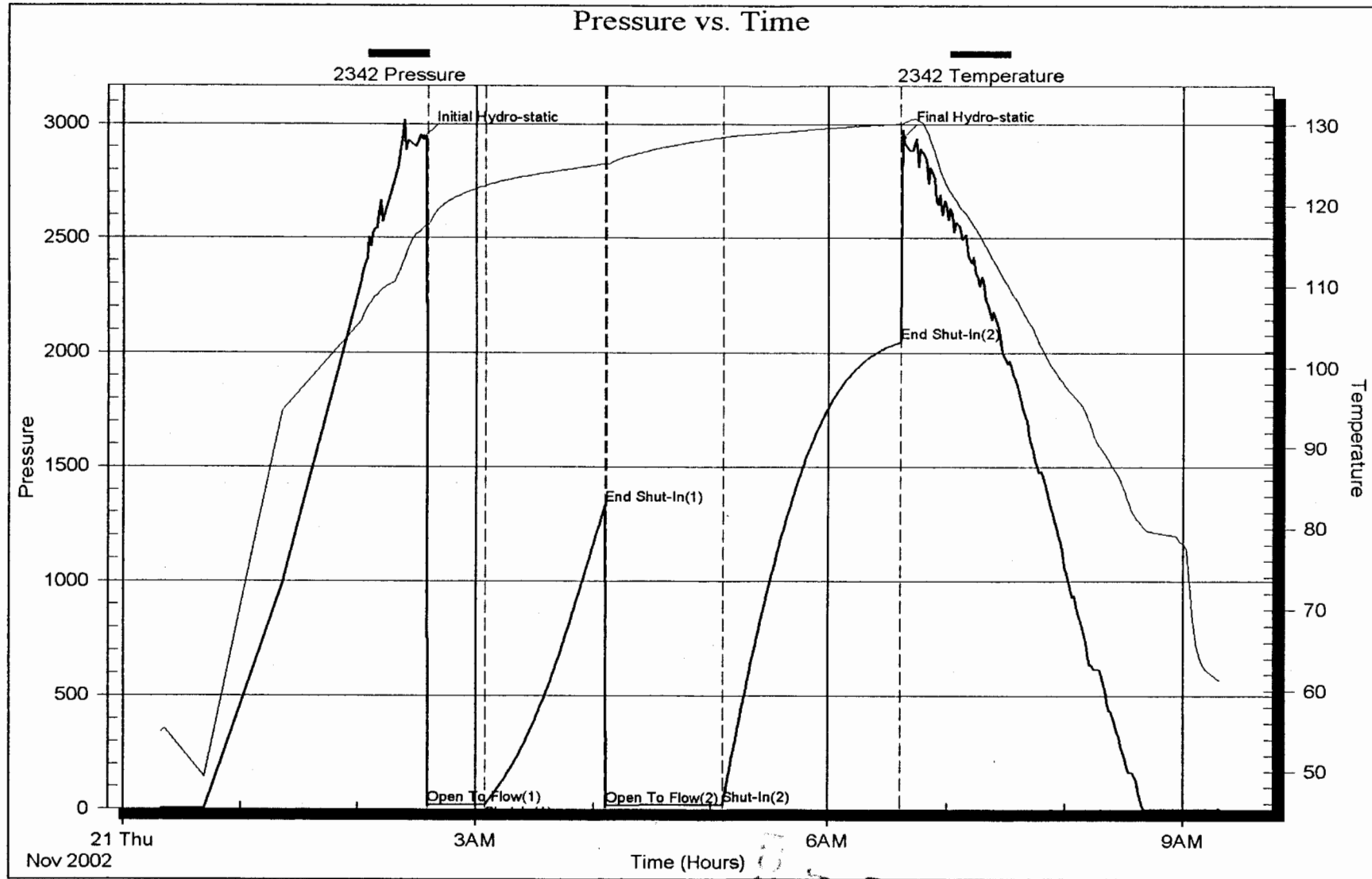
Num Gas Bombs: 0

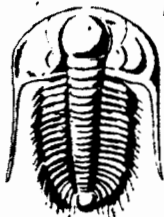
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

*INV #5249*

*5715.00*

No 16580

## Test Ticket

Well Name & No. Colker 2-11 Test No. 1 Date 11/15/02  
 Company LARIO OIL & GAS Zone Tested Ft. Scott  
 Address 301 S. MARKET WICHTITA, KS 67202 Elevation 2079 KB 2066 GL  
 Co. Rep / Geo. TIM LAUER Cont. Duke Dalg Rig #7 Est. Ft. of Pay      Por.      %  
 Location: Sec. 11 Twp. 33<sub>s</sub> Rge. 19<sub>w</sub> Co. COMANCHE State KS  
 No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 5200 5225 Initial Str Wt./Lbs. 75,000 Unseated Str Wt./Lbs. 76,000  
 Anchor Length      25 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 85,000  
 Top Packer Depth      5195 Tool Weight 2,100  
 Bottom Packer Depth      5200 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth      5225 Wt. Pipe Run 0 Drill Collar Run 301  
 Mud Wt. 9.1 LCM 4 Vis. 56 WL 8.0 Drill Pipe Size 4 1/2 X H Ft. Run 4905  
 Blow Description IF: Strong blow. B.O.B. in 3 mins. ISI: No blow.  
FF: Strong blow. B.O.B. immediate. PSI: No blow.

*\* Possibly more gas in pipe. Too faint to smell. \**

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>10</u>	<u>1/100</u>	<u>10</u>	<u>0</u>
Rec. <u>10</u> Feet Of <u>CaCM</u>		<u>2% gas</u>	<u>98% mud</u>
Rec. <u>    </u> Feet Of <u>    </u>		<u>% gas</u>	<u>% oil</u>
Rec. <u>    </u> Feet Of <u>    </u>		<u>% gas</u>	<u>% oil</u>
Rec. <u>    </u> Feet Of <u>    </u>		<u>% gas</u>	<u>% oil</u>
Rec. <u>    </u> Feet Of <u>    </u>		<u>% gas</u>	<u>% oil</u>

BHT      °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 3800 ppm System

	AK-1	Alpine
(A) Initial Hydrostatic Mud	<u>2606</u>	
(B) First Initial Flow Pressure	<u>117</u>	
(C) First Final Flow Pressure	<u>117</u>	
(D) Initial Shut-In Pressure	<u>1677</u>	
(E) Second Initial Flow Pressure	<u>117</u>	
(F) Second Final Flow Pressure	<u>105</u>	
(G) Final Shut-in Pressure	<u>1656</u>	
(Q) Final Hydrostatic Mud	<u>2382</u>	

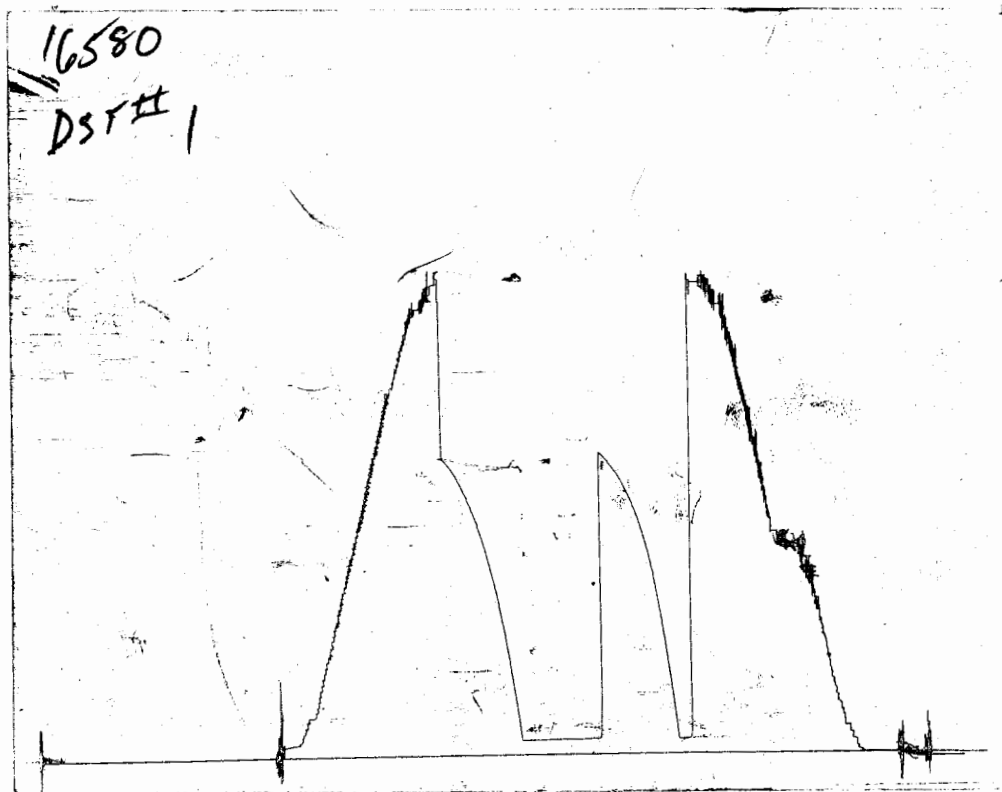
PSI Recorder No. <u>3284</u>	T-On Location <u>0100</u>
PSI (depth) <u>5201</u>	T-Started <u>0200</u>
PSI Recorder No. <u>10242</u>	T-Open <u>0445</u>
PSI (depth) <u>5223</u>	T-Pulled <u>0755</u>
PSI Recorder No. <u>    </u>	T-Out <u>    </u>
PSI (depth) <u>    </u>	T-Off Location <u>    </u>
PSI Initial Opening <u>10</u>	Tes ✓ <u>900</u> <u>900</u>
PSI Initial Shut-in <u>60</u>	Jars ✓ <u>200</u> <u>200</u>
Final Flow <u>60</u>	Safety Joint ✓ <u>50</u> <u>50</u>
Final Shut-in <u>60</u>	Straddle <u>    </u>
	Circ. Sub <u>    </u>
	Sampler <u>    </u>
	Extra Packer <u>    </u>
	Elec. Rec. ✓ <u>150</u> <u>150</u>
	Mileage ✓ <u>70</u> <u>70</u>
	Other <u>    </u>
	TOTAL PRICE \$ <u>    </u> <u>#1370</u>

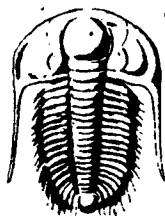
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Approved By *Tim Lauer*  
 Our Representative *Jim Warwick*

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16581

## Test Ticket

Well Name & No. Coker 2-11 Test No. 2 Date 11/16/02  
 Company LARIO OIL & GAS Zone Tested Miss  
 Address 301 S. MARKET WICHITA, KS 67202 Elevation 2079 KB 2066 GL  
 Co. Rep / Geo. Tim Lauer Cont. Duke Dalg Rig #7 Est. Ft. of Pay      Por.      %  
 Location: Sec. 11 Twp. 33s Rge. 19w Co. Comanche State KS  
 No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 5300 5345 Initial Str Wt./Lbs. 76,000 Unseated Str Wt./Lbs. 77,000  
 Anchor Length      95 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 85,000  
 Top Packer Depth      5295 Tool Weight 2100  
 Bottom Packer Depth      5300 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth      5345 Wt. Pipe Run 0 Drill Collar Run 301  
 Mud Wt. 9.2 LCM 6 Vis. 53 WL 8.4 Drill Pipe Size 4 1/2" X 11 Ft. Run       
 Blow Description IF: Strong blow. B.O.B. in 15 sec, GTS in 3 mins. (see gas report)  
FSI: No blow. FF: Strong blow. B.O.B. immediately (see gas report)  
ESI: No blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>0</u>	<u>GTS</u>	<u>0</u>	<u>0</u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u> %mud <u>    </u>		
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u> %mud <u>    </u>		
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u> %mud <u>    </u>		
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u> %mud <u>    </u>		
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u> %mud <u>    </u>		

BHT 119 °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 4500 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2666</u>			<u>3310</u>	<u>0145</u>
(B) First Initial Flow Pressure	<u>695</u>			<u>5301</u>	<u>0310</u>
(C) First Final Flow Pressure	<u>558</u>			<u>10242</u>	<u>0540</u>
(D) Initial Shut-In Pressure	<u>1849</u>			<u>5343</u>	<u>1121</u>
(E) Second Initial Flow Pressure	<u>620</u>				<u>1328</u>
(F) Second Final Flow Pressure	<u>365</u>				
(G) Final Shut-in Pressure	<u>1616</u>				
(Q) Final Hydrostatic Mud	<u>2545</u>				
				Initial Opening <u>10</u>	Test <u>✓ 900</u> <u>900</u>
				Initial Shut-in <u>60</u>	Jars <u>✓ 200</u> <u>200</u>
				Final Flow <u>90</u>	Safety Joint <u>✓ 50</u> <u>50</u>
				Final Shut-in <u>180</u>	Straddle <u>    </u>
					Circ. Sub <u>    </u>
					Sampler <u>    </u>
					Extra Packer <u>    </u> <u>150</u>
					Elec. Rec. <u>✓ 150</u> <u>20</u>
					Mileage <u>✓ 70</u> <u>1370</u>
					Other <u>STANBY 3.5 hrs</u> <u>105</u>
					TOTAL PRICE \$ <u>    </u> <u>\$1475</u>

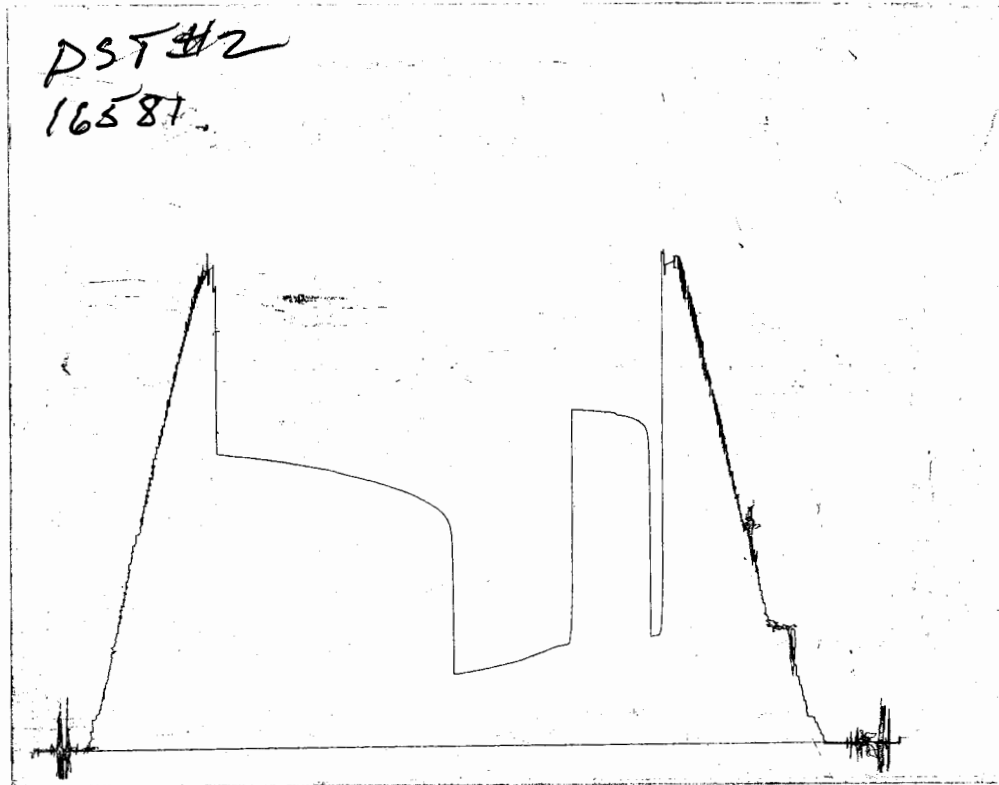
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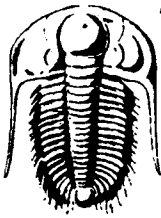
Approved By Tim Lauer  
 Our Representative Tim Lauer



# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16582

## Test Ticket

Well Name & No. Coller 2-11 Test No. 3 Date 11/17/00  
 Company LARIO OIL GAS Zone Tested Miss  
 Address 301 S. MARKET WICHITA KS 67202 Elevation 2079 KB 2066 GL  
 Co. Rep / Geo. BARRY GENSEK Cont. Duke Dak Right 2 Est. Ft. of Pay      Por.      %  
 Location: Sec. 11 Twp. 39 Rge. 19W Co. COMANCHE State KS  
 No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 5358 5389 Initial Str Wt./Lbs. 78,000 Unseated Str Wt./Lbs. 78,000  
 Anchor Length      31 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 81,000  
 Top Packer Depth      5353 Tool Weight 2100  
 Bottom Packer Depth      5358 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth      5389 Wt. Pipe Run 0 Drill Collar Run 301  
 Mud Wt. 9.1 LCM 4# Vis. 56 WL 6.0 Drill Pipe Size 4 1/2 XH Ft. Run 5060

Blow Description IF: Strong blow. BOB in 15 secs. GTS in 4 mins. (see gas report)  
ISI: Weak blow. 1/2" in bucket. FF: Strong blow. BOB immediately (see gas report)  
FST: No blow.

Recovery — Total Feet 5 GIP GTS Ft. in DC 5 Ft. in DP 0  
 Rec. 5 Feet Of M %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 120 °F Gravity °API D@ °F Corrected Gravity °API  
 RW @ °F Chlorides ppm Recovery Chlorides 4800 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2623</u>		<u>3310</u>	<u>0100</u>
(B) First Initial Flow Pressure		<u>443</u>		(depth) <u>5359</u>	T-Started <u>0150</u>
(C) First Final Flow Pressure		<u>36</u>		Recorder No. <u>10242</u>	T-Open <u>0342</u>
(D) Initial Shut-In Pressure		<u>1042</u>		(depth) <u>5387</u>	T-Pulled <u>0802</u>
(E) Second Initial Flow Pressure		<u>85</u>		Recorder No. <u>    </u>	T-Out <u>1015</u>
(F) Second Final Flow Pressure		<u>32</u>		(depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure		<u>1146</u>		Initial Opening <u>10</u>	Test ✓ <u>900</u> 900
(Q) Final Hydrostatic Mud		<u>2578</u>		Initial Shut-in <u>60</u>	Jars ✓ <u>200</u> 200
				Final Flow <u>70</u>	Safety Joint ✓ <u>150</u> 150
				Final Shut-in <u>120</u>	Straddle <u>    </u>

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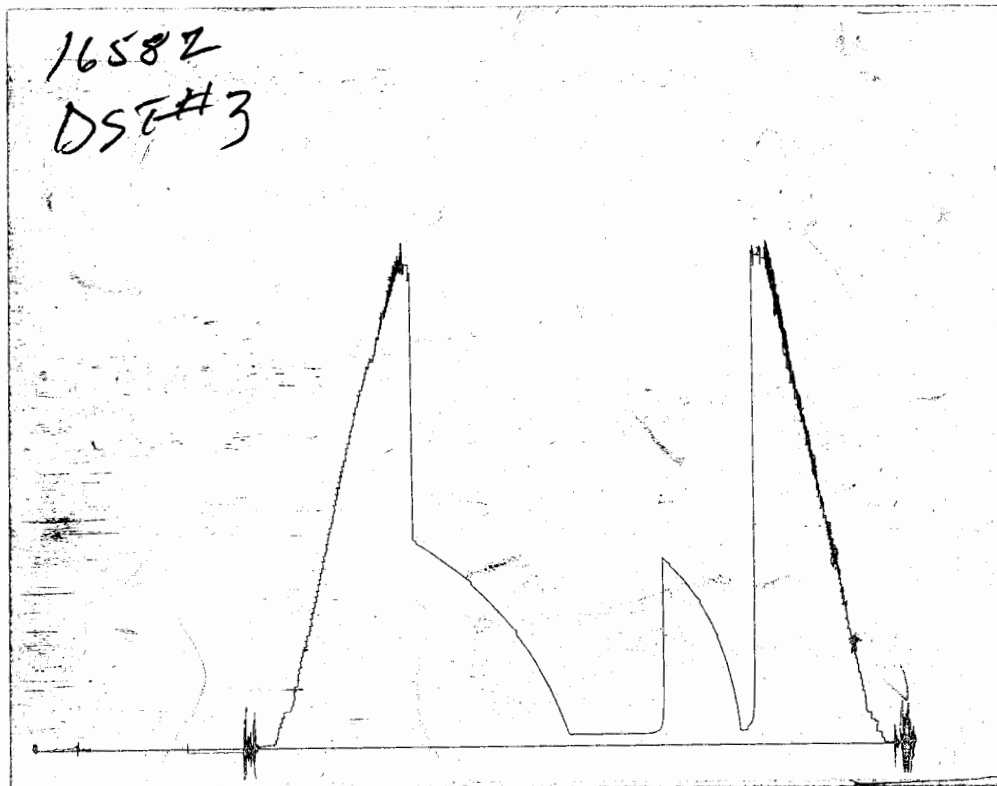
Approved By Barry Gensek  
 Our Representative Jim Heinrich

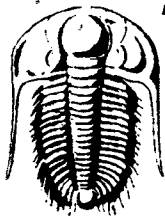
Extra Packer       
 Elec. Rec. 150 150  
 Mileage 10 70  
 Other STANDBY LTR. 1370  
 TOTAL PRICE \$ 1490



# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

311253 1275

No 16528

## Test Ticket

Well Name & No. Cotton # 2-11 Test No. 4 Date 11-21-2002  
 Company Lario Oil & Gas Zone Tested Viala  
 Address 301 S. Market, Wichita, Ks. 67202 Elevation 2079 KB 2046 GL  
 Co. Rep / Geo. Tim Lauer Cont. Duba Dely #7 Est. Ft. of Pay      Por.      %  
 Location: Sec. 11 Twp. 33S Rge. 19W Co. Comanche State Ks.  
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 6012 - 6048' Initial Str Wt./Lbs. 85,000 Unseated Str Wt./Lbs. 85,000  
 Anchor Length 36' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 100,000  
 Top Packer Depth 6007' Tool Weight 2100 #  
 Bottom Packer Depth 6012' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth 6048' Wt. Pipe Run None Drill Collar Run 390'  
 Mud Wt. 12.2 LCM 6# Vis. 54 WL 8.4cc. Drill Pipe Size 4 1/2" x 4. Ft. Run 5712  
 Blow Description IF: Fair to strong below. B.O.B. in 24 mins.  
ISI: No below.  
FF: Strong below. B.O.B. in 15 secs. FSI: No below.

Recovery — Total Feet 40 GIP 600 Ft. in DC 40 Ft. in DP 0  
 Rec. 40 Feet Of Drly. Mud. %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 130 °F Gravity N/A °API D@      °F Corrected Gravity N/A °API  
 RW N.C. @      °F Chlorides 5,000 ppm Recovery Chlorides 5,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		2940		2342	2330
(B) First Initial Flow Pressure		22		(depth) 6013'	T-Started 0019
(C) First Final Flow Pressure		23		13222	T-Open 0235
(D) Initial Shut-In Pressure		1335		(depth) 6043'	T-Pulled 0635
(E) Second Initial Flow Pressure		19		Recorder No. ~	T-Out 0918
(F) Second Final Flow Pressure		22		(depth) ~	T-Off Location 1009
(G) Final Shut-in Pressure		2049		Initial Opening 30	Test ✓ 1000 <sup>00</sup> 1000
(Q) Final Hydrostatic Mud		2943		Initial Shut-in 60	Jars ✓ 200 <sup>00</sup> 200
				Final Flow 60	Safety Joint ✓ 50 <sup>00</sup> 50
				Final Shut-in 90	Straddle
					Circ. Sub
					Sampler

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Approved By Tim J. Lauer  
 Our Representative Conny P... ..

Extra Packer       
 Elec. Rec. ✓ 150<sup>00</sup> 150  
 Mileage ✓ 70<sup>00</sup> 70  
 Other      #1470  
 TOTAL PRICE \$ ✓ 1470

# CHART PAGE

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

