

15-033-21263

RELEASED

JAN 04 2005



**TRILOBITE
TESTING, INC.**

FROM CONFIDENTIAL

RECEIVED

DEC 19 2001

KCC WICHITA

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 s Market
Wichita, KS 67202

CONFIDENTIAL **RELEASED** **ORIGINAL**

ATTN: Wes Hansen
JAN 04 2005

9-33-19w

FROM CONFIDENTIAL **KCC**

DEC 17 2001

Jellison A-2

Start Date: 2001.10.28 @ 06:38:48

End Date: 2001.10.28 @ 11:12:18

Job Ticket #: 15332 DST #: 1

CONFIDENTIAL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Lario Oil & Gas

Jellison A-2

9-33s-19w Comanche K

DST # 1

Swope

2001.10.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas
301 s Market
Wichita, KS 67202
ATTN: Wes Hansen

Jellison A-2
9-33s-19w Comanche K
Job Ticket: 15332 **DST#: 1**
Test Start: 2001.10.28 @ 00:58:48

GENERAL INFORMATION:

Formation: **Swope**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:26:18
Time Test Ended: 11:12:18

RELEASED

JAN 04 2005

Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 13

Interval: **4770.00 ft (KB) To 4804.00 ft (KB) (TVD)**
Total Depth: 4804.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

FROM CONFIDENTIAL

Reference Elevations: 1978.00 ft (KB)
1967.00 ft (CF)
KB to GR/CF: 11.00 ft

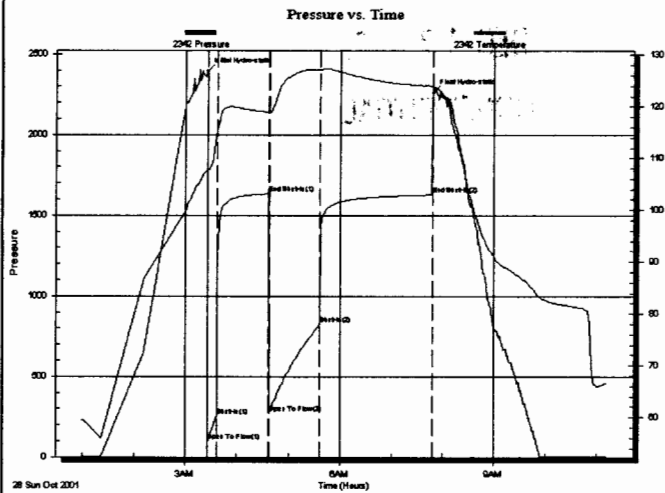
Serial #: 2342

Inside

Press@RunDepth: 827.10 psig @ 4771.00 ft (KB)
Start Date: 2001.10.28 End Date: 2001.10.28
Start Time: 00:58:49 End Time: 11:12:18

Capacity: 7000.00 psig
Last Calib.: 2001.09.17
Time On Btm: 2001.10.28 @ 03:25:18
Time Off Btm: 2001.10.28 @ 07:48:48

TEST COMMENT: IF: Strong blow . B.O.B. in 3.5 mins.
IS: No blow .
FF: Strong blow . B.O.B. in 4.5 mins.
FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2393.95	107.68	Initial Hydro-static
1	97.26	107.79	Open To Flow (1)
12	256.56	115.05	Shut-In(1)
72	1634.04	118.98	End Shut-In(1)
72	272.92	118.95	Open To Flow (2)
132	827.10	127.12	Shut-In(2)
263	1627.77	123.95	End Shut-In(2)
264	2258.49	123.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1580.00	Salt water Rw .095 ohms @ 54 deg F	20.52
120.00	MW 15% m 85% w	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15332 **DST#: 1**

ATTN: Wes Hansen

Test Start: 2001.10.28 @ 00:58:48

Tool Information

Drill Pipe:	Length: 4594.00 ft	Diameter: 3.80 inches	Volume: 64.44 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 65.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4770.00 ft			Final 61500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

CONFIDENTIAL

KCC

DEC 17 2001

ORIGINAL

CONFIDENTIAL

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4744.00	
S.I. Tool	5.00			4749.00	
HMV	5.00			4754.00	
Jars	5.00			4759.00	
Safety Joint	2.00			4761.00	
Packer	4.00			4765.00	27.00 Bottom Of Top Packer
Packer	5.00			4770.00	
Stubb	1.00			4771.00	
Recorder	0.00	2342	inside	4771.00	
Perforations	28.00			4799.00	
Recorder	0.00	10248	Outside	4799.00	
Bullnose	5.00			4804.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00

RELEASED

JAN 04 2005

FROM CONFIDENTIAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15332 **DST#: 1**

ATTN: Wes Hansen

Test Start: 2001.10.28 @ 00:58:48

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:	114000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.34 in ³	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 bbl
1580.00	Saltwater Rw .095 ohms @ 54 deg F	20.524
120.00	MW 15% _m 85% _w	1.683

Total Length: 1700.00 ft Total Volume: 22.207 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 2342

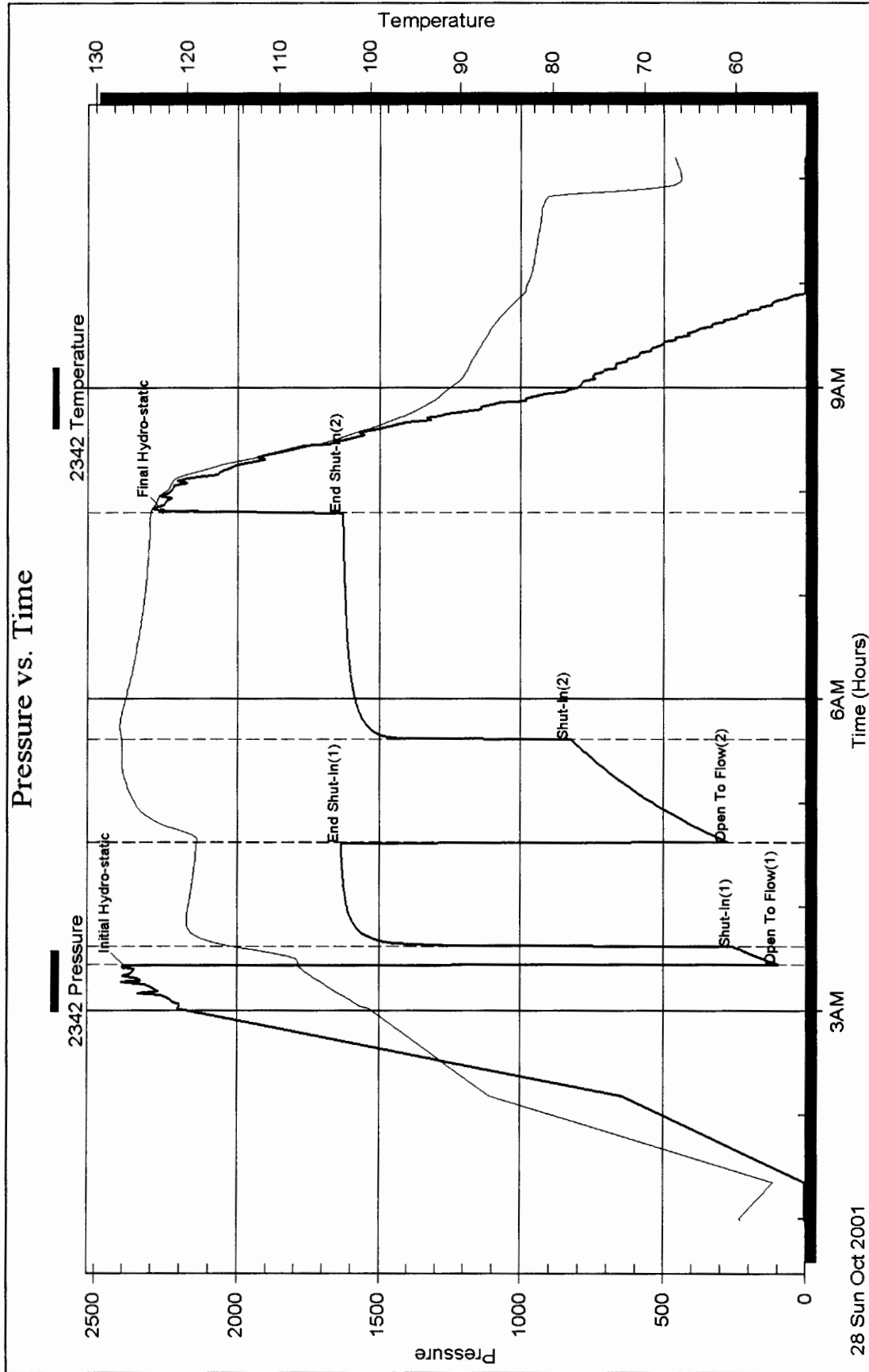
Inside

Lario Oil & Gas

9-33s-19w Comanche K

DST Test Number: 1

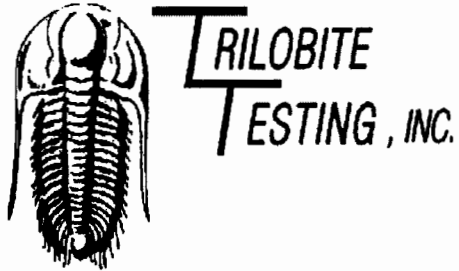
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 15332

Printed: 2001.11.06 @ 14:08:52 Page 5



DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 s Market
Wichita, KS 67202

ATTN: Wes Hansen

9-33s-19w Comanche K

Jellison A-2

Start Date: 2001.10.29 @ 08:51:01

End Date: 2001.10.29 @ 16:20:16

Job Ticket #: 15333 DST #: 2

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
Wichita, KS 67202
ATTN: Wes Hansen

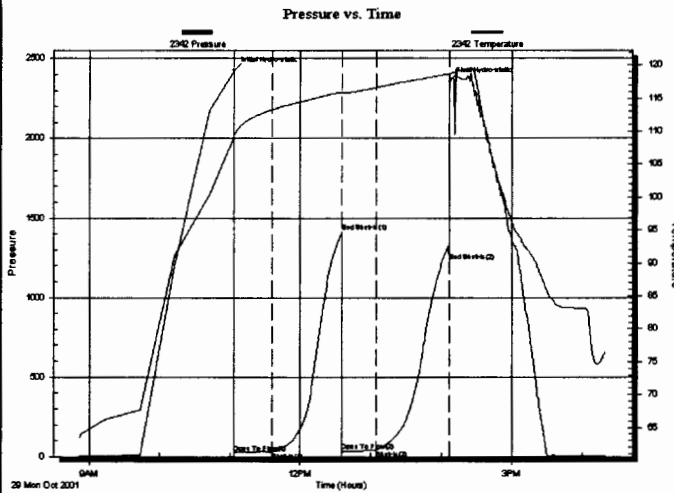
Jellison A-2
9-33s-19w Comanche K
Job Ticket: 15333 **DST#: 2**
Test Start: 2001.10.29 @ 08:51:01

GENERAL INFORMATION:

Formation: **Altamont**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:03:31
Time Test Ended: 16:20:16
Interval: **4989.00 ft (KB) To 5025.00 ft (KB) (TVD)**
Total Depth: 5025.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Reference Elevations: 1978.00 ft (KB)
1967.00 ft (CF)
KB to GR/CF: 11.00 ft
Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 13

Serial #: 2342 **Inside**
Press@RunDepth: 41.28 psig @ 4990.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.10.29 End Date: 2001.10.29 Last Calib.: 2001.09.17
Start Time: 08:51:02 End Time: 16:20:16 Time On Btrm: 2001.10.29 @ 11:03:16
Time Off Btrm: 2001.10.29 @ 14:06:46

TEST COMMENT: F:Weak blow . 1/2 - 1 1/2".
IS:No blow .
FF:Weak blow . 1 - 1 1/2".
FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2425.84	109.11	Initial Hydro-static
1	23.83	109.29	Open To Flow (1)
33	30.71	113.29	Shut-In(1)
92	1410.48	115.91	End Shut-In(1)
93	32.56	115.91	Open To Flow (2)
122	41.28	116.61	Shut-In(2)
184	1228.61	118.67	End Shut-In(2)
184	2356.68	118.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drig. mud	0.20
0.00	80 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

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15333

DST#: 2

ATTN: Wes Hansen

Test Start: 2001.10.29 @ 08:51:01

Tool Information

Drill Pipe:	Length: 4815.00 ft	Diameter: 3.80 inches	Volume: 67.54 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 94000.00 lb
			<u>Total Volume: 68.43 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4989.00 ft			Final 57000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

C.O. Sub	1.00			4963.00	
S.I. Tool	5.00			4968.00	
HMV	5.00			4973.00	
Jars	5.00			4978.00	
Safety Joint	2.00			4980.00	
Packer	4.00			4984.00	27.00 Bottom Of Top Packer
Packer	5.00			4989.00	
Stubb	1.00			4990.00	
Recorder	0.00	2342	Inside	4990.00	
Perforations	30.00			5020.00	
Recorder	0.00	10248	Outside	5020.00	
Bullnose	5.00			5025.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15333 **DST#: 2**

ATTN: Wes Hansen

Test Start: 2001.10.29 @ 08:51:01

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:

8000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.35 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drig. mud	0.197
0.00	80 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:

Serial #: 2342

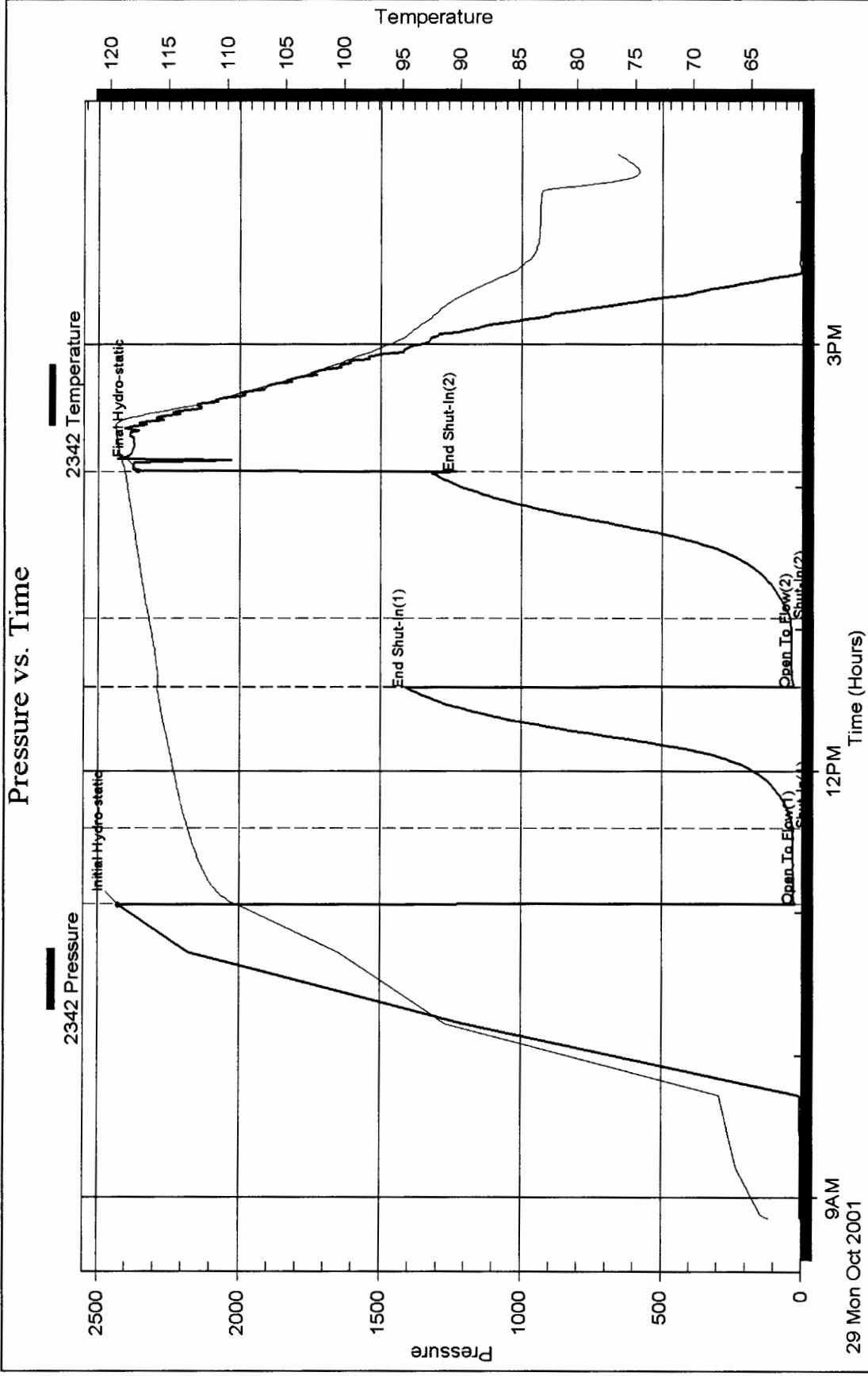
Inside

Lario Oil & Gas

9-33s-19w Comanche K

DST Test Number: 2

Pressure vs. Time



9AM
29 Mon Oct 2001

3PM



DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 s Market
Wichita, KS 67202

ATTN: Wes Hansen

9-33s-19w Comanche K

Jellison A-2

Start Date: 2001.10.30 @ 07:29:42

End Date: 2001.10.30 @ 16:25:27

Job Ticket #: 15334 DST #: 3

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
Wichita, KS 67202
ATTN: Wes Hansen

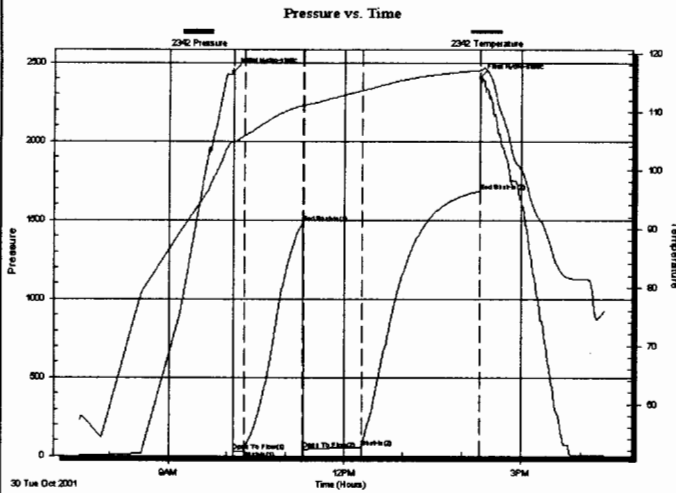
Jellison A-2
9-33s-19w Comanche K
Job Ticket: 15334 **DST#: 3**
Test Start: 2001.10.30 @ 07:29:42

GENERAL INFORMATION:

Formation: **Pawnee/Ft.Scott**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 10:06:57
Time Test Ended: 16:25:27
Test Type: **Conventional Bottom Hole**
Tester: **Gary Pevoteaux**
Unit No: **13**
Interval: **5049.00 ft (KB) To 5120.00 ft (KB) (TVD)**
Total Depth: **5120.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**
Reference Elevations: **1978.00 ft (KB)**
1967.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 2342 **Inside**
Press@RunDepth: **54.38 psig @ 5050.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2001.10.30** End Date: **2001.10.30** Last Calib.: **2001.09.17**
Start Time: **07:29:43** End Time: **16:25:27** Time On Btrr: **2001.10.30 @ 10:06:12**
Time Off Btrr: **2001.10.30 @ 14:18:12**

TEST COMMENT: F:Strong blow . B.O.B. in 5 mins.
IS:Weak blow . 1/2 - 1".
FF:Strong blow . B.O.B. in 40 secs.
FS:Weak blow . 1/2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2444.56	104.97	Initial Hydro-static
1	28.02	104.96	Open To Flow (1)
12	33.14	105.89	Shut-In(1)
72	1481.32	111.14	End Shut-In(1)
72	42.12	111.13	Open To Flow (2)
132	54.38	113.61	Shut-In(2)
252	1684.09	117.15	End Shut-In(2)
252	2404.78	117.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	SGCM	0.34
0.00	800 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

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15334

DST#: 3

ATTN: Wes Hansen

Test Start: 2001.10.30 @ 07:29:42

Tool Information

Drill Pipe:	Length: 4848.00 ft	Diameter: 3.80 inches	Volume: 68.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 68.89 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	5049.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5023.00	
S.I. Tool	5.00			5028.00	
HMV	5.00			5033.00	
Jars	5.00			5038.00	
Safety Joint	2.00			5040.00	
Packer	4.00			5044.00	27.00 Bottom Of Top Packer
Packer	5.00			5049.00	
Stubb	1.00			5050.00	
Recorder	0.00	2342	Inside	5050.00	
Perforations	3.00			5053.00	
C.O. Sub	1.00			5054.00	
Blank Spacing	60.00			5114.00	
C.O. Sub	1.00			5115.00	
Recorder	0.00	10248	Outside	5115.00	
Bullnose	5.00			5120.00	71.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15334

DST#: 3

ATTN: Wes Hansen

Test Start: 2001.10.30 @ 07:29:42

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:

8000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	SGCM	0.344
0.00	800 ft. of gas in pipe	0.000

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

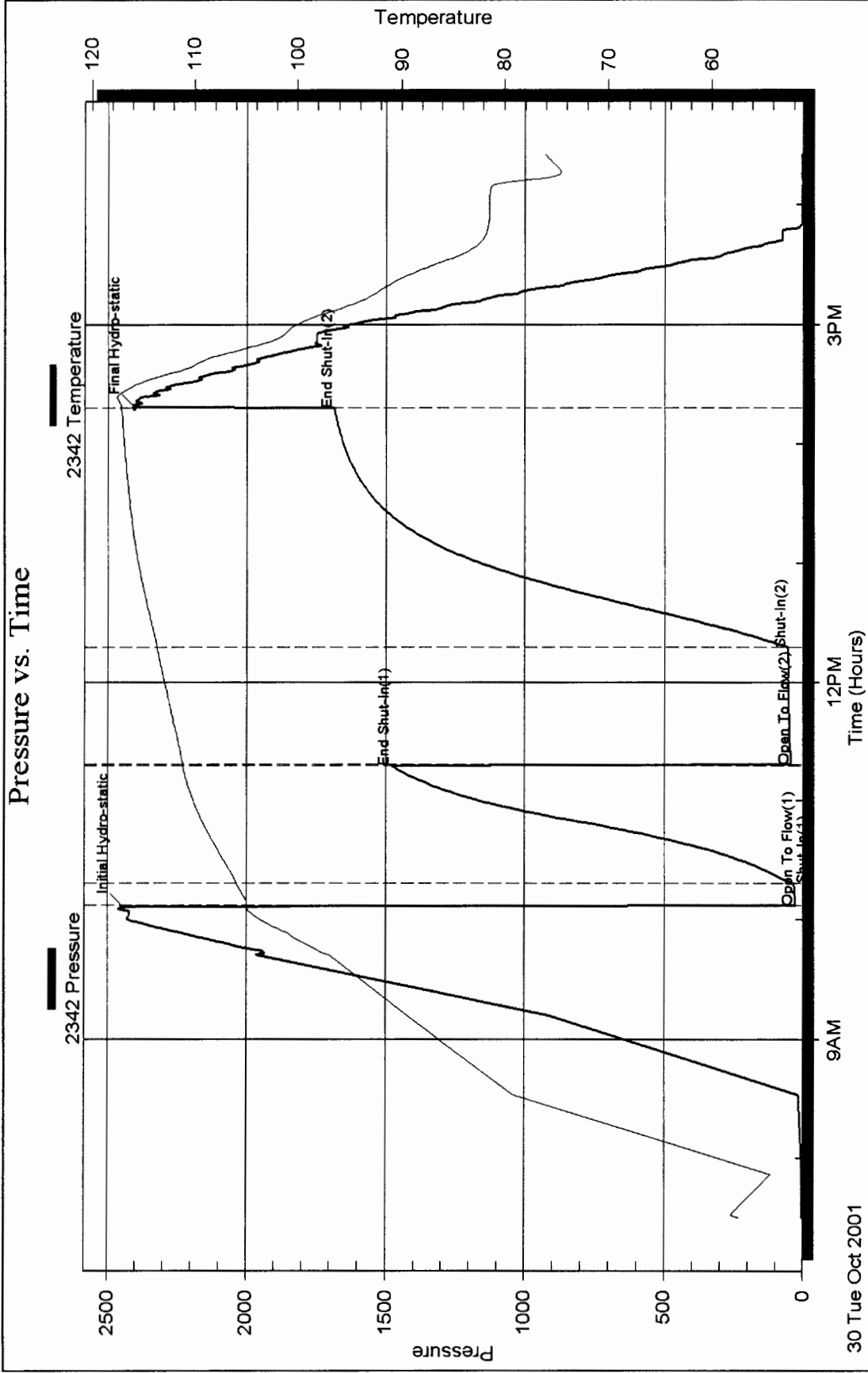
Serial #: none

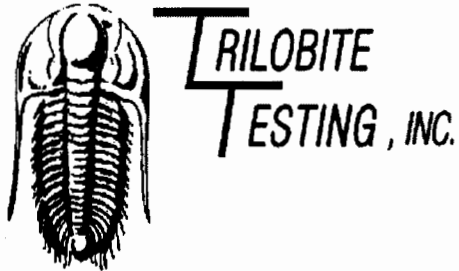
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 s Market
Wichita, KS 67202

ATTN: Wes Hansen

9-33s-19w Comanche K

Jellison A-2

Start Date: 2001.10.31 @ 09:39:30

End Date: 2001.10.31 @ 18:39:00

Job Ticket #: 15335 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Lario Oil & Gas

Jellison A-2

9-33s-19w Comanche K

DST # 4

Mississippian

2001.10.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas
301 s Market
Wichita, KS 67202
ATTN: Wes Hansen

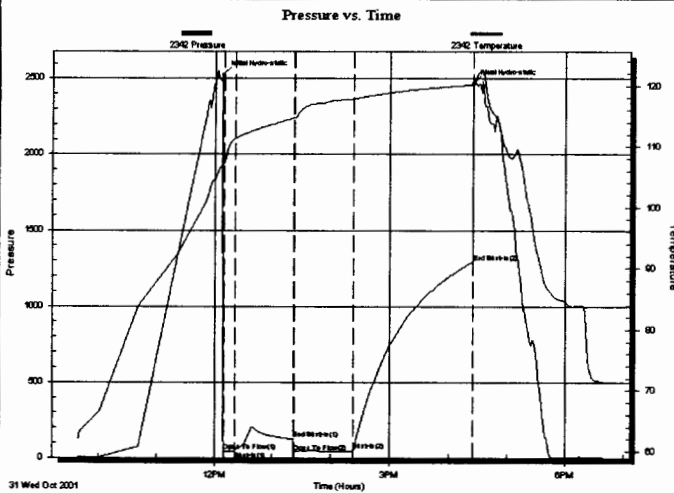
Jellison A-2
9-33s-19w Comanche K
Job Ticket: 15335 **DST#: 4**
Test Start: 2001.10.31 @ 09:39:30

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: **No** Whipstock: ft (KB) Test Type: **Conventional Bottom Hole**
Time Tool Opened: 12:10:00 Tester: **Gary Pevoteaux**
Time Test Ended: 18:39:00 Unit No: **13**
Interval: 5152.00 ft (KB) To 5262.00 ft (KB) (TVD) Reference Elevations: 1978.00 ft (KB)
Total Depth: **5262.00 ft (KB) (TVD)** 1967.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Poor** KB to GR/CF: **11.00 ft**

Serial #: 2342 **Inside**
Press@RunDepth: **47.83 psig @ 5153.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2001.10.31** End Date: **2001.10.31** Last Calib.: **2001.09.17**
Start Time: **09:39:31** End Time: **18:39:00** Time On Btm: **2001.10.31 @ 12:08:30**
Time Off Btm: **2001.10.31 @ 16:24:15**

TEST COMMENT: F:Strong blow . B.O.B. in 50 secs.
IS:Strong blow . B.O.B. throughout. GTS 25 mins. in to ISIP.
FF:Strong blow . (see gas volume report)
FS:Weak blow . 1/4".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2526.30	106.99	Initial Hydro-static
2	42.04	107.16	Open To Flow (1)
13	44.22	111.32	Shut-in(1)
74	122.53	114.71	End Shut-in(1)
74	34.65	114.74	Open To Flow (2)
135	47.83	117.85	Shut-in(2)
256	1290.72	120.12	End Shut-in(2)
256	2468.48	120.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drig.mud	0.34
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate	0.13	2.00	6.14
Max. Gas Rate	0.13	2.00	6.14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15335

DST#: 4

ATTN: Wes Hansen

Test Start: 2001.10.31 @ 09:39:30

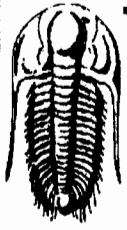
Tool Information

Drill Pipe:	Length: 4969.00 ft	Diameter: 3.80 inches	Volume: 69.70 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 70.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	5152.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	137.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Probable tool leak on initial shut-in

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5126.00	
S.I. Tool	5.00			5131.00	
HMV	5.00			5136.00	
Jars	5.00			5141.00	
Safety Joint	2.00			5143.00	
Packer	4.00			5147.00	27.00 Bottom Of Top Packer
Packer	5.00			5152.00	
Stubb	1.00			5153.00	
Recorder	0.00	2342	Inside	5153.00	
Perforations	3.00			5156.00	
C.O. Sub	1.00			5157.00	
Blank Spacing	95.00			5252.00	
C.O. Sub	1.00			5253.00	
Perforations	4.00			5257.00	
Recorder	0.00	10248	Outside	5257.00	
Bullnose	5.00			5262.00	110.00 Bottom Packers & Anchor
Total Tool Length:	137.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15335

DST#: 4

ATTN: Wes Hansen

Test Start: 2001.10.31 @ 09:39:30

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:	8000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

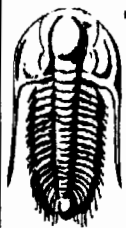
Length ft	Description	Volume bbl
70.00	Drig.mud	0.344
0.00		0.000

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0 Num Gas Bombs: 1 Serial #: gp

Laboratory Name: Caraway Laboratory Location: Liberal KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15335

DST#: 4

ATTN: Wes Hansen

Test Start: 2001.10.31 @ 09:39:30

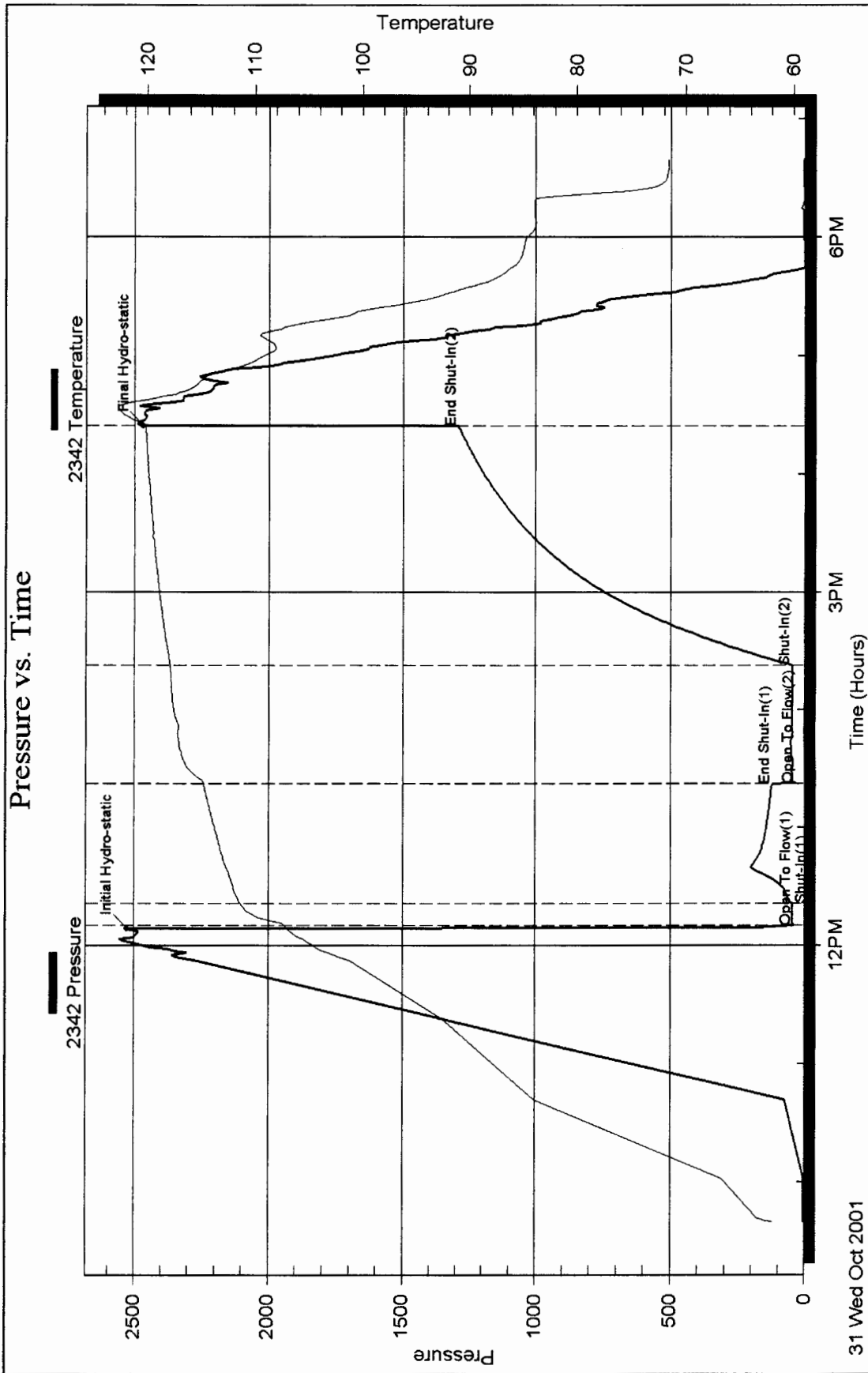
Gas Rates Information

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

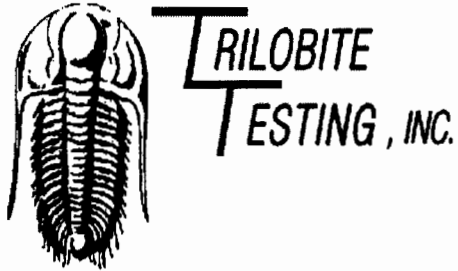
Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	20	0.13	1.00	5.76
2	20	0.13	1.00	5.76
2	30	0.13	1.50	5.95
2	40	0.13	1.50	5.95
2	50	0.13	2.00	6.14

Pressure vs. Time



31 Wed Oct 2001



DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 s Market
Wichita, KS 67202

ATTN: Wes Hansen

9-33s-19w Comanche K

Jellison A-2

Start Date: 2001.11.01 @ 08:49:12

End Date: 2001.11.01 @ 17:51:12

Job Ticket #: 15336 DST #: 5

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
Wichita, KS 67202

ATTN: Wes Hansen

Jellison A-2

9-33s-19w Comanche K

Job Ticket: 15336

DST#: 5

Test Start: 2001.11.01 @ 08:49:12

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:24:57

Time Test Ended: 17:51:12

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 13

Interval: **5266.00 ft (KB) To 5325.00 ft (KB) (TVD)**

Total Depth: 5325.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1978.00 ft (KB)

1967.00 ft (CF)

KB to GRV/CF: 11.00 ft

Serial #: 2342

Inside

Press@RunDepth: 87.95 psig @ 5267.00 ft (KB)

Start Date: 2001.11.01

End Date:

2001.11.01

Start Time: 08:49:13

End Time:

17:51:12

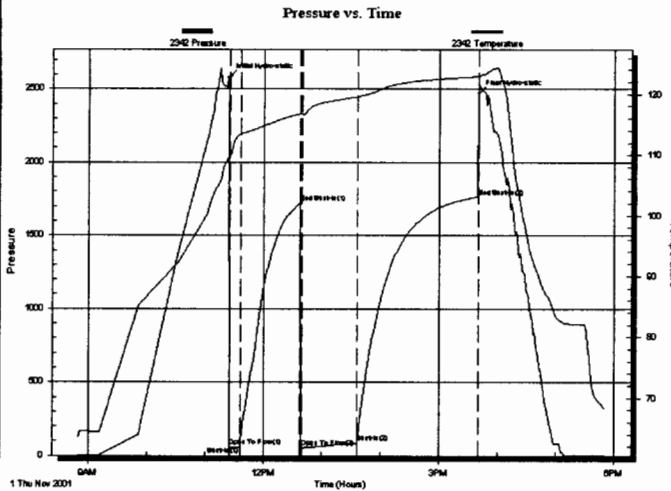
Capacity: 7000.00 psig

Last Calib.: 2001.09.17

Time On Btm: 2001.11.01 @ 11:23:42

Time Off Btm: 2001.11.01 @ 15:40:42

TEST COMMENT: F:Strong blow . B.O.B. in 20 secs.
SI:Fair blow after 10 mins. Bled off again. No blow back.
FF:Strong blow . GTS in 9.5 mins. (see gas volume report)
FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2576.74	109.70	Initial Hydro-static
2	63.11	109.85	Open To Flow (1)
13	62.60	113.42	Shut-in(1)
75	1721.18	116.81	End Shut-in(1)
76	57.06	116.75	Open To Flow (2)
132	87.95	119.57	Shut-in(2)
257	1764.41	122.96	End Shut-in(2)
257	2469.65	122.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCWM 1%o 19%w 80%m Rw .09 ohms 0.3070 deg	
105.00	SOCGM 1%o 30%g 69%m	0.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	4.00	29.19
Last Gas Rate	0.13	6.00	7.63
Max. Gas Rate	0.13	6.00	7.63



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15336

DST#: 5

ATTN: Wes Hansen

Test Start: 2001.11.01 @ 08:49:12

Tool Information

Drill Pipe:	Length: 5092.00 ft	Diameter: 3.80 inches	Volume: 71.43 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 72.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	5266.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5240.00	
S.I. Tool	5.00			5245.00	
HMV	5.00			5250.00	
Jars	5.00			5255.00	
Safety Joint	2.00			5257.00	
Packer	4.00			5261.00	27.00 Bottom Of Top Packer
Packer	5.00			5266.00	
Stubb	1.00			5267.00	
Recorder	0.00	2342	Inside	5267.00	
Perforations	3.00			5270.00	
C.O. Sub	1.00			5271.00	
Blank Spacing	31.00			5302.00	
C.O. Sub	1.00			5303.00	
Perforations	17.00			5320.00	
Recorder	0.00	10248	Outside	5320.00	
Bullnose	5.00			5325.00	59.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15336 **DST#: 5**

ATTN: Wes Hansen

Test Start: 2001.11.01 @ 08:49:12

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:	89000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCWM 1%o 19%w 80% <i>m</i> Rw .09 ohms @	0.295
105.00	SOCGM 1%o 30%g 69% <i>m</i>	0.516

Total Length: 165.00 ft Total Volume: 0.811 bbl

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

Laboratory Name: Caraway Laboratory Location: Liberal KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas

Jellison A-2

301 s Market
Wichita, KS 67202

9-33s-19w Comanche K

Job Ticket: 15336

DST#: 5

ATTN: Wes Hansen

Test Start: 2001.11.01 @ 08:49:12

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 ³ /d)
2	10	0.25	4.00	29.19
2	10	0.25	4.00	29.19
2	20	0.25	1.00	24.43
2	30	0.13	3.00	6.51
2	40	0.13	5.00	7.26
2	50	0.13	6.00	7.63

Serial #: 2342

Inside

Lario Oil & Gas

9-33s-19w Comanche K

DST Test Number: 5

Pressure vs. Time

