

15-063-21879

4-13s-31w


TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Lario Oil& Gas

301 S. Market St
Wichita, KS 67202

ATTN: Larry Friend

Ottley A 1-4

4-13-31 Gove, KS

Job Ticket: 040500

DST#: 1

Test Start: 2011.01.01 @ 06:41:23

GENERAL INFORMATION:

Formation: H-I-J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:39:33

Time Test Ended: 14:38:02

Interval: 4132.00 ft (KB) To 4216.00 ft (KB) (TVD)

Total Depth: 4216.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2949.00 ft (KB)

2939.00 ft (CF)

KB to GRVCF: 10.00 ft

Serial #: 8373

Inside

Press@RunDepth: 53.62 psig @ 4133.00 ft (KB)

Start Date: 2011.01.01

End Date:

2011.01.01

Start Time: 06:41:23

End Time:

14:38:02

Capacity: 8000.00 psig

Last Calib.: 2011.01.01

Time On Btrc: 2011.01.01 @ 09:34:33

Time Off Btrc: 2011.01.01 @ 12:41:47

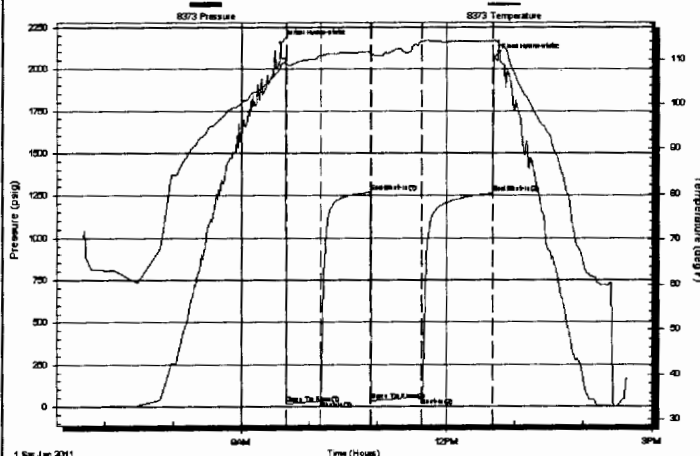
TEST COMMENT: IF: 1/2 blow built to 4 in 30 min.

IS: No return.

FF: Surface blow built to 4 in 45 min.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.07	108.33	Initial Hydro-static
5	15.77	108.79	Open To Flow (1)
36	32.38	110.66	Shut-in(1)
80	1268.90	111.58	End Shut-in(1)
80	33.20	111.02	Open To Flow (2)
124	53.62	113.98	Shut-in(2)
187	1261.80	113.94	End Shut-in(2)
188	2070.30	114.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
82.00	mud some oil spots 100% m	1.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil& Gas

Ottley A 1-4

301 S. Market St
Wichita, KS 67202

4-13-31 Gove, KS

Job Ticket: 040500

DST#: 1

ATTN: Larry Friend

Test Start: 2011.01.01 @ 06:41:23

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
82.00	mud some oil spots 100% m	1.150

Total Length: 82.00 ft

Total Volume: 1.150 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

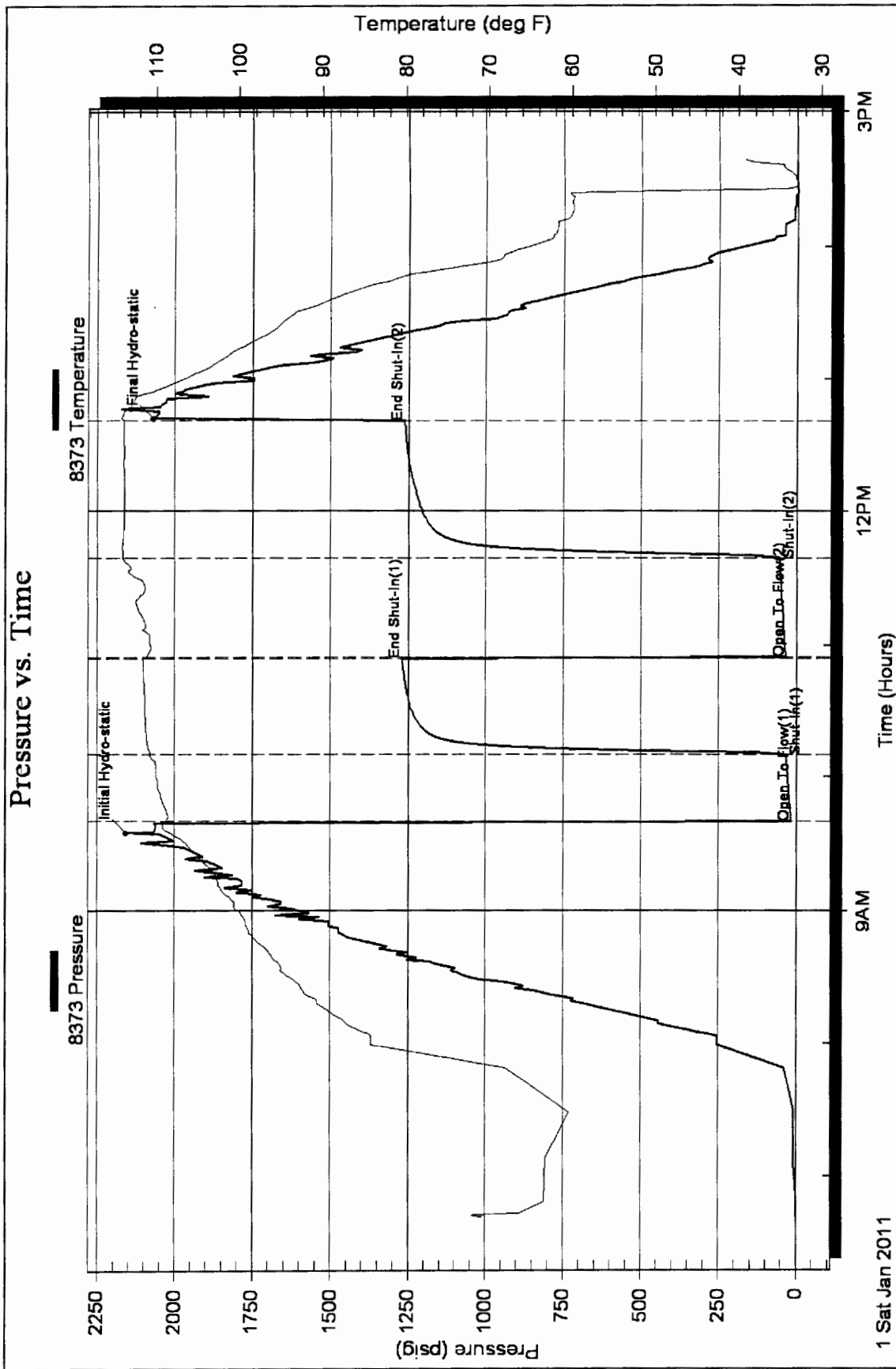
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas

301 S. Market St
Wichita, KS 67202

ATTN: Larry Friend

Ottley A 1-4

4-13-31 Gove, KS

Job Ticket: 040501

DST#: 2

Test Start: 2011.01.02 @ 00:20:55

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:07:35

Time Test Ended: 07:38:19

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4216.00 ft (KB) To 4250.00 ft (KB) (TVD)**

Total Depth: 4250.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2949.00 ft (KB)

2939.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8373

Inside

Press@RunDepth: 191.22 psig @ 4217.00 ft (KB)

Start Date: 2011.01.02

End Date:

2011.01.02

Start Time: 00:20:55

End Time:

07:38:19

Capacity: 8000.00 psig

Last Calib.: 2011.01.02

Time On Btm: 2011.01.02 @ 02:06:35

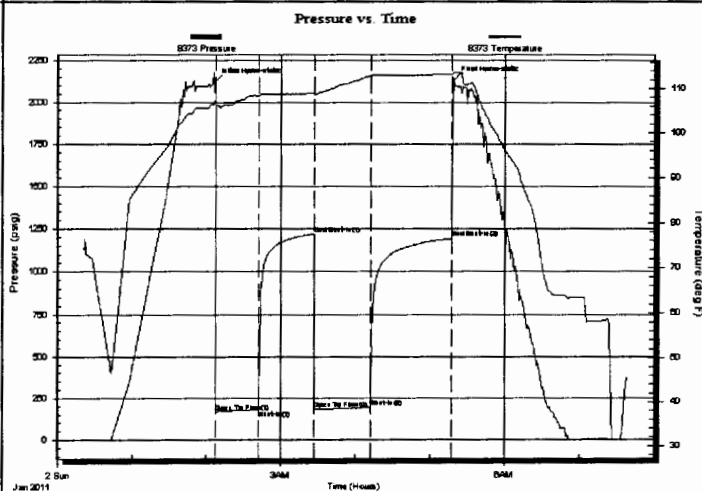
Time Off Btm: 2011.01.02 @ 05:18:49

TEST COMMENT: IF: Open tool the tool slid packers failed reset 1/2 blow built to 1 1/2 in 30 min.

IS: No return.

FF: Surface blow built to 2 in 45 min.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.62	107.28	Initial Hydro-static
1	166.43	106.34	Open To Flow (1)
36	178.62	108.25	Shut-In(1)
80	1218.63	108.95	End Shut-In(1)
81	180.46	108.48	Open To Flow (2)
126	191.22	112.88	Shut-In(2)
191	1192.52	113.27	End Shut-In(2)
193	2136.45	113.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
352.00	mud 100% m	4.94

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil& Gas

Ottley A 1-4

301 S. Market St
Wichita, KS 67202

4-13-31 Gove, KS

Job Ticket: 040501

DST#: 2

ATTN: Larry Friend

Test Start: 2011.01.02 @ 00:20:55

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
352.00	mud 100%m	4.938

Total Length: 352.00 ft

Total Volume: 4.938 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

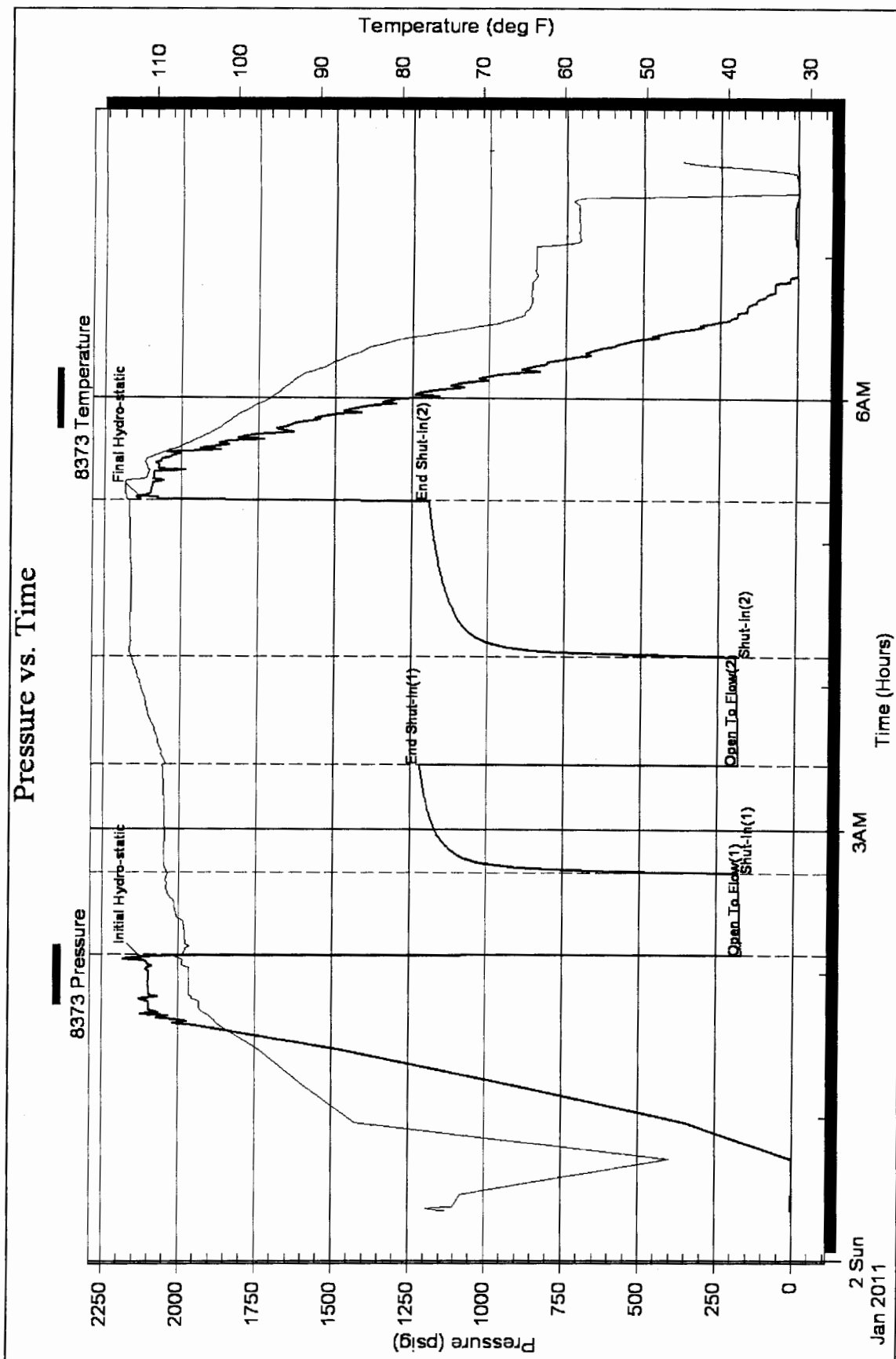
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas

301 S. Market St
Wichita, KS 67202

ATTN: Larry Friend

Ottley A 1-4

4-13-31 Gove, KS

Job Ticket: 040502

DST#: 3

Test Start: 2011.01.03 @ 16:55:41

GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 19:09:51

Time Test Ended: 00:54:50

Interval: **4495.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Total Depth: **4565.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Reference Elevations: **2949.00 ft (KB)**

2939.00 ft (CF)

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

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JAN 19 2011
CONFIDENTIAL

Serial #: 8373

Inside

Press@RunDepth: **227.07 psig @ 4496.00 ft (KB)**

Start Date: **2011.01.03**

End Date:

2011.01.04

Capacity: **8000.00 psig**

Last Calib.: **2011.01.04**

Start Time: **16:55:41**

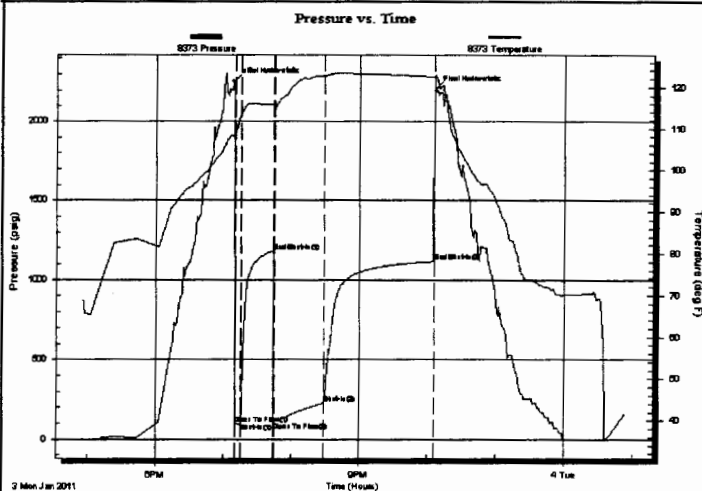
End Time:

00:54:50

Time On Btm: **2011.01.03 @ 19:08:06**

Time Off Btm: **2011.01.03 @ 22:06:35**

TEST COMMENT: IF: BOB in 3 min.
IS: Surface blow built to 1 in 30 min.
FF: BOB in 3 min.
FS: BOB in 11 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.57	108.13	Initial Hydro-static
2	95.58	107.93	Open To Flow (1)
7	96.69	113.46	Shut-In(1)
36	1182.27	115.81	End Shut-In(1)
37	106.58	115.03	Open To Flow (2)
81	227.07	122.65	Shut-In(2)
178	1117.46	122.46	End Shut-In(2)
179	2207.16	122.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcgo 20%g 70%o 10%m	2.61
62.00	gocm 30%g 20%o 50%m	0.87
186.00	gocm 40%g 10%o 50%m	2.61
102.00	gocm 5%g 45%o 50%m	1.43
0.00	930 GP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil& Gas

Ottley A 1-4

301 S. Market St
Wichita, KS 67202

4-13-31 Gove, KS

Job Ticket: 040502

DST#: 3

ATTN: Larry Friend

Test Start: 2011.01.03 @ 16:55:41

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	mcgo 20%g 70%o 10%m	2.609
62.00	gocm 30%g 20%o 50%m	0.870
186.00	gocm 40%g 10%o 50%m	2.609
102.00	gocm 5%g 45%o 50%m	1.431
0.00	930 GIP	0.000

Total Length: 536.00 ft

Total Volume: 7.519 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 19@20=23

Serial #: 8373

Inside

Lario Oil & Gas

4-13-31 Gove, KS

DST Test Number: 3

