

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas CO**

301 S Main
Wichita KS 67202

ATTN: Vern Schrag

14 28S 6W Kingman KS

Hirt B#1-14

Start Date: 2007.01.03 @ 07:00:08

End Date: 2007.01.03 @ 14:57:08

Job Ticket #: 26400

DST #: 1

Trilobite Testing, Inc

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 CO

301 S Main
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ATTN: Vern Schrag

Hirt B#1-14

14 28S 6W Kingman KS

Job Ticket: 26400

DST#: 1

Test Start: 2007.01.03 @ 07:00:08

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 09:05:08

Time Test Ended: 14:57:08

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **3860.00 ft (KB) To 3880.00 ft (KB) (TVD)**

Total Depth: 3880.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1508.00 ft (KB)

1500.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8167

Inside

Press@RunDepth: 98.18 psig @ 3861.00 ft (KB)

Start Date: 2007.01.03

End Date:

2007.01.03

Start Time: 07:00:13

End Time:

14:57:07

Capacity: 7000.00 psig

Last Calib.: 2007.01.03

Time On Btm: 2007.01.03 @ 09:04:23

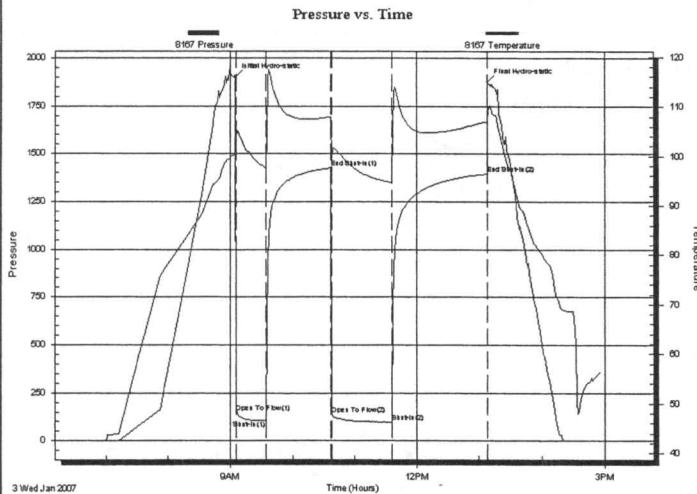
Time Off Btm: 2007.01.03 @ 13:08:07

TEST COMMENT: IF Strong blow GTS in 4 mins. (see gas flow report)

ISI Weak blow 1/4 - 1/2 "

FF Strong blow (see gas flow report)

FSI Weak blow 1/4 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.21	100.49	Initial Hydro-static
1	149.25	103.78	Open To Flow (1)
30	106.46	97.45	Shut-In(1)
93	1425.13	107.95	End Shut-In(1)
94	135.64	100.12	Open To Flow (2)
152	98.18	94.66	Shut-In(2)
244	1396.01	107.09	End Shut-In(2)
244	1876.38	107.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MMV 28%M 72%W Rw .17 OHMS@54 de0.84	
30.00	GCM 8%G 92%M	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	19.00	521.70
Last Gas Rate	0.75	13.50	435.79
Max. Gas Rate	0.75	22.00	568.56



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas CO

301 S Main
Wichita KS 67202

ATTN: Vern Schrag

Hirt B#1-14

14 28S 6W Kingman KS

Job Ticket: 26400

DST#: 1

Test Start: 2007.01.03 @ 07:00:08

Tool Information

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.80 inches	Volume: 53.82 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:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	53.82 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3860.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	48.00 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			3833.00	
Shut In Tool	5.00			3838.00	
Hydraulic tool	5.00			3843.00	
Jars	5.00			3848.00	
Safety Joint	3.00			3851.00	
Packer	4.00			3855.00	28.00 Bottom Of Top Packer
Packer	5.00			3860.00	
Stubb	1.00			3861.00	
Recorder	0.00	8167	Inside	3861.00	
Perforations	14.00			3875.00	
Recorder	0.00	11019	Outside	3875.00	
Bullnose	5.00			3880.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



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FLUID SUMMARY

Lario Oil & Gas CO

Hirt B#1-14

301 S Main
Wichita KS 67202

14 28S 6W Kingman KS

Job Ticket: 26400

DST#: 1

ATTN: Vern Schrag

Test Start: 2007.01.03 @ 07:00:08

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:

59000 ppm

Viscosity: 38.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MMV 28%M 72%W Rw .17 OHMS@54 deg	0.842
30.00	GCM 8%G 92%M	0.421

Total Length: 90.00 ft

Total Volume: 1.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

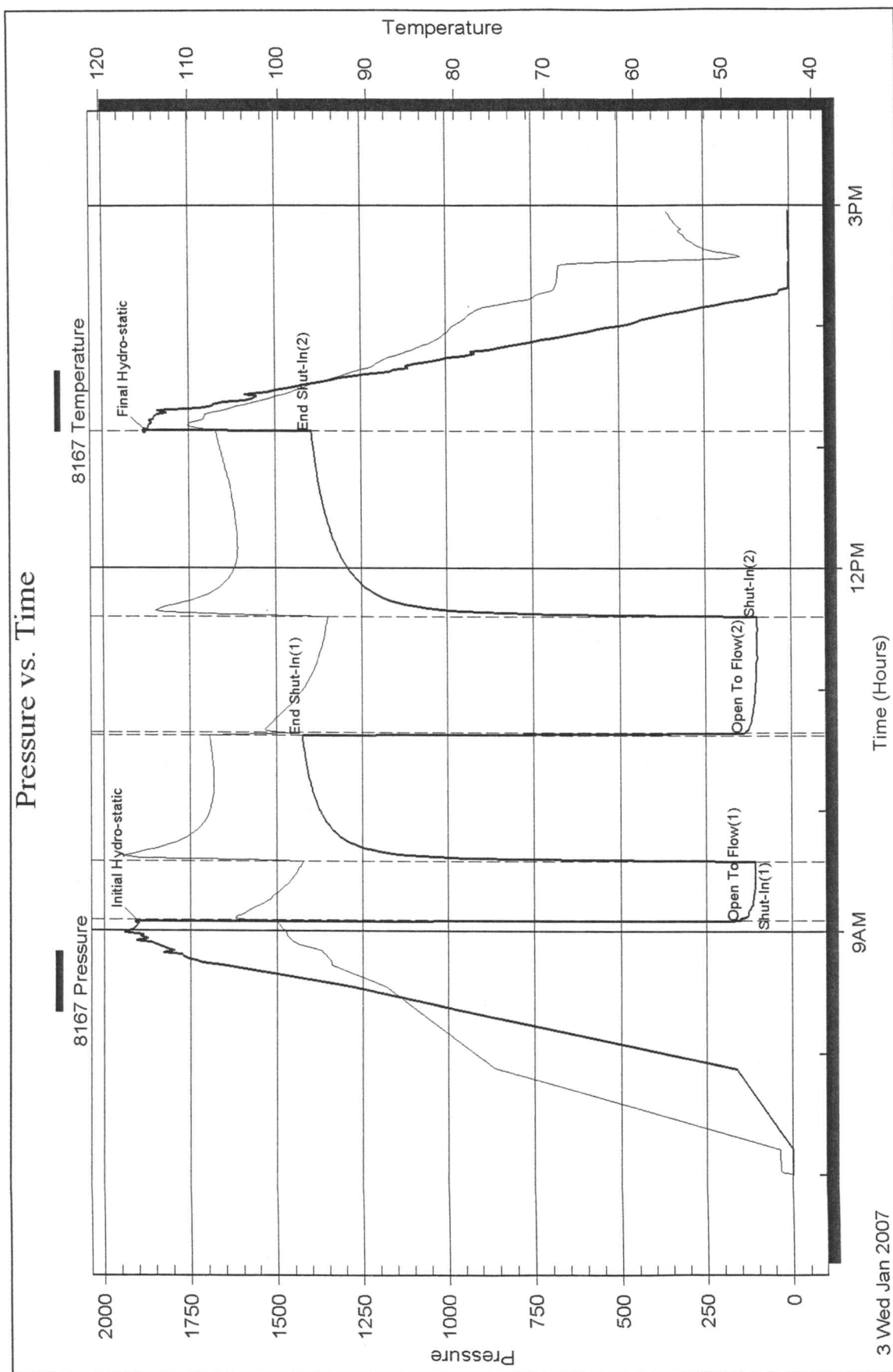
Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas CO**

301 S Main
Wichita KS 67202

ATTN: Vern Schrag

14 28S 6W Kingman KS

Hirt B#1-14

Start Date: 2007.01.03 @ 21:05:47

End Date: 2007.01.04 @ 04:33:47

Job Ticket #: 27051 DST #: 2

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DRILL STEM TEST REPORT

Lario Oil & Gas CO

301 S Main
Wichita KS 67202

ATTN: Vern Schrag

Hirt B#1-14

14 28S 6W Kingman KS

Job Ticket: 27051

DST#: 2

Test Start: 2007.01.03 @ 21:05:47

GENERAL INFORMATION:

Formation: **Miss. Dolomite**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:54:32

Time Test Ended: 04:33:47

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **3881.00 ft (KB) To 3899.00 ft (KB) (TVD)**

Total Depth: 3899.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1508.00 ft (KB)

1500.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8167

Inside

Press@RunDepth: 385.42 psig @ 3882.00 ft (KB)

Start Date: 2007.01.03

End Date:

2007.01.04

Start Time: 21:05:52

End Time:

04:33:46

Capacity: 7000.00 psig

Last Calib.: 2007.01.04

Time On Btm: 2007.01.03 @ 22:54:02

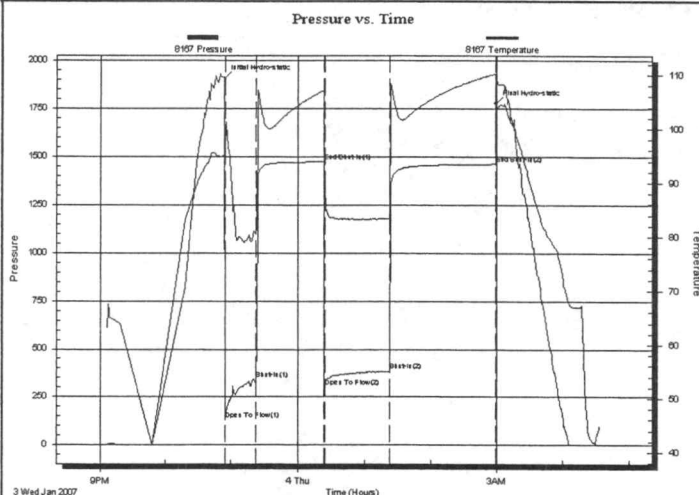
Time Off Btm: 2007.01.04 @ 02:59:01

TEST COMMENT: IF Strong blow GTS in 3 mins. (see gas flow report)

ISI Weak blow 1/4 "

FF Strong blow (see gas flow report)

FSI Weak blow 1/4 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.27	95.06	Initial Hydro-static
1	131.16	96.03	Open To Flow (1)
29	344.46	81.06	Shut-In(1)
90	1472.06	107.09	End Shut-In(1)
90	301.80	90.51	Open To Flow (2)
149	385.42	83.44	Shut-In(2)
245	1461.64	110.19	End Shut-In(2)
245	1775.17	109.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	WM 21%W 79%M	0.77

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	56.00	1099.64
Last Gas Rate	0.75	116.00	2036.83
Max. Gas Rate	0.75	116.00	2036.83



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ATTN: Vern Schrag

Hirt B#1-14

14 28S 6W Kingman KS

Job Ticket: 27051

DST#: 2

Test Start: 2007.01.03 @ 21:05:47

Tool Information

Drill Pipe:	Length: 3869.00 ft	Diameter: 3.80 inches	Volume: 54.27 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:	23000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	66000.00 lb
			Total Volume: 54.27 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3881.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	46.00 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			3854.00	
Shut In Tool	5.00			3859.00	
Hydraulic tool	5.00			3864.00	
Jars	5.00			3869.00	
Safety Joint	3.00			3872.00	
Packer	4.00			3876.00	28.00 Bottom Of Top Packer
Packer	5.00			3881.00	
Stubb	1.00			3882.00	
Recorder	0.00	8167	Inside	3882.00	
Perforations	12.00			3894.00	
Recorder	0.00	11019	Outside	3894.00	
Bullnose	5.00			3899.00	18.00 Bottom Packers & Anchor

Total Tool Length: 46.00



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Job Ticket: 27051

DST#: 2

ATTN: Vern Schrag

Test Start: 2007.01.03 @ 21:05:47

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:

4000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	WM 21%W 79%M	0.772

Total Length: 55.00 ft

Total Volume: 0.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

Sorogot to print/send
Gas Rate sheet



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DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas CO

Hirt B#1-14

301 S Main
Wichita KS 67202

14 28S 6W Kingman KS

Job Ticket: 27051

DST#: 2

ATTN: Vern Schrag

Test Start: 2007.01.03 @ 21:05:47

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 (m³/d)
1	10	0.75	56.00	1099.64
1	20	0.75	81.00	1490.13
1	30	0.75	97.00	1740.05
2	10	0.75	105.00	1865.01
2	20	0.75	111.00	1958.73
2	30	0.75	113.00	1989.97
2	40	0.75	115.00	2021.21
2	50	0.75	116.00	2036.83
2	60	0.75	117.00	2052.45

Serial #: 8167

Inside

Lario Oil & Gas CO

14 28S 6W Kingman KS

DST Test Number: 2

Pressure vs. Time

