



DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 S Market
Wichita KS 67202

ATTN: Vern Schrag

3 28 5W Kingman KS

Feary 4-3

Start Date: 2007.11.07 @ 14:28:32

End Date: 2007.11.07 @ 22:57:22

Job Ticket #: 29851 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
Wichita KS 67202

ATTN: Vern Schrag

Feary 4-3

3 28 5W Kingman KS

Job Ticket: 29851

DST#: 1

Test Start: 2007.11.07 @ 14:28:32

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:52:32

Time Test Ended: 22:57:22

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Interval: **3760.00 ft (KB) To 3797.00 ft (KB) (TVD)**

Total Depth: 3797.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1437.00 ft (KB)

1427.00 ft (CF)

KB to GRVCF: 10.00 ft

Serial #: 8166

Inside

Press@RunDepth: 118.08 psig @ 3761.00 ft (KB)

Start Date: 2007.11.07

End Date:

2007.11.07

Start Time: 14:28:37

End Time:

22:57:22

Capacity: 7000.00 psig

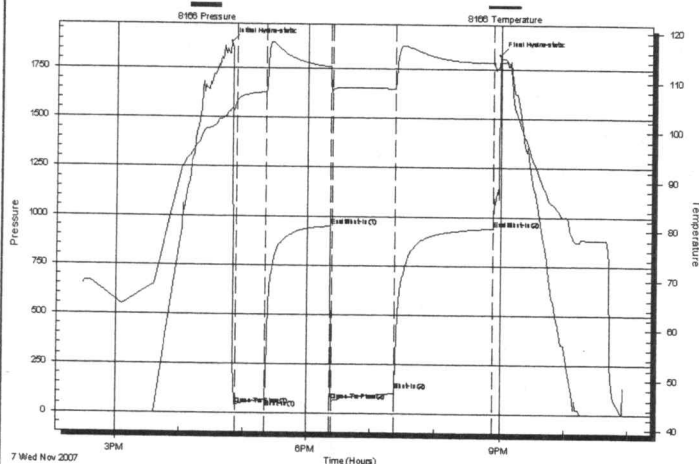
Last Calib.: 2007.11.07

Time On Btm: 2007.11.07 @ 16:47:42

Time Off Btm: 2007.11.07 @ 20:58:41

TEST COMMENT: IF Strong Blow BOB in 45 seconds GTS in 12 minutes Gauged Gas
ISI Bled Off No Blow back
FF Strong Blow BOB and GTS Immediate Gauged Gas
FSI Bled Off No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.29	104.43	Initial Hydro-static
5	38.15	105.93	Open To Flow (1)
33	67.19	107.81	Shut-In(1)
94	948.42	113.00	End Shut-In(1)
96	65.51	108.39	Open To Flow (2)
155	118.08	108.66	Shut-In(2)
245	939.97	113.98	End Shut-In(2)
251	1824.12	114.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	SGCM 2%G 98%M	2.38

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	17.00	115.03
Last Gas Rate	0.38	21.00	129.68
Max. Gas Rate	0.38	25.00	144.33



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Feary 4-3

301 S Market
Wichita KS 67202

3 28 5W Kingman KS

Job Ticket: 29851

DST#: 1

ATTN: Vern Schrag

Test Start: 2007.11.07 @ 14:28:32

Tool Information

Drill Pipe:	Length: 3748.00 ft	Diameter: 3.80 inches	Volume: 52.57 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 52.57 bbl		Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3760.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			3732.00	
Change Over Sub	1.00			3733.00	
Shut In Tool	5.00			3738.00	
Hydraulic tool	5.00			3743.00	
Jars	5.00			3748.00	
Safety Joint	3.00			3751.00	
Packer	5.00			3756.00	29.00 Bottom Of Top Packer
Packer	4.00			3760.00	
Stubb	1.00			3761.00	
Recorder	0.00	8166	Inside	3761.00	
Recorder	0.00	8356	Outside	3761.00	
Perforations	33.00			3794.00	
Bullnose	3.00			3797.00	37.00 Bottom Packers & Anchor
Total Tool Length:	66.00				



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FLUID SUMMARY

Lario Oil & Gas

Feary 4-3

301 S Market
Wichita KS 67202

3 28 5W Kingman KS

Job Ticket: 29851

DST#: 1

ATTN: Vern Schrag

Test Start: 2007.11.07 @ 14:28:32

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 4800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	SGCM 2%G 98%M	2.385

Total Length: 170.00 ft

Total Volume: 2.385 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas

Feary 4-3

301 S Market
Wichita KS 67202

3 28 5W Kingman KS

Job Ticket: 29851

DST#: 1

ATTN: Vern Schrag

Test Start: 2007.11.07 @ 14:28:32

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)
1	15	0.38	17.00	115.03
1	15	0.38	17.00	115.03
1	20	0.38	18.00	118.69
1	25	0.38	18.00	118.69
1	30	0.38	18.00	118.69
2	10	0.38	25.00	144.33
2	20	0.38	25.00	144.33
2	30	0.38	24.00	140.67
2	40	0.38	21.00	129.68
2	50	0.38	21.00	129.68

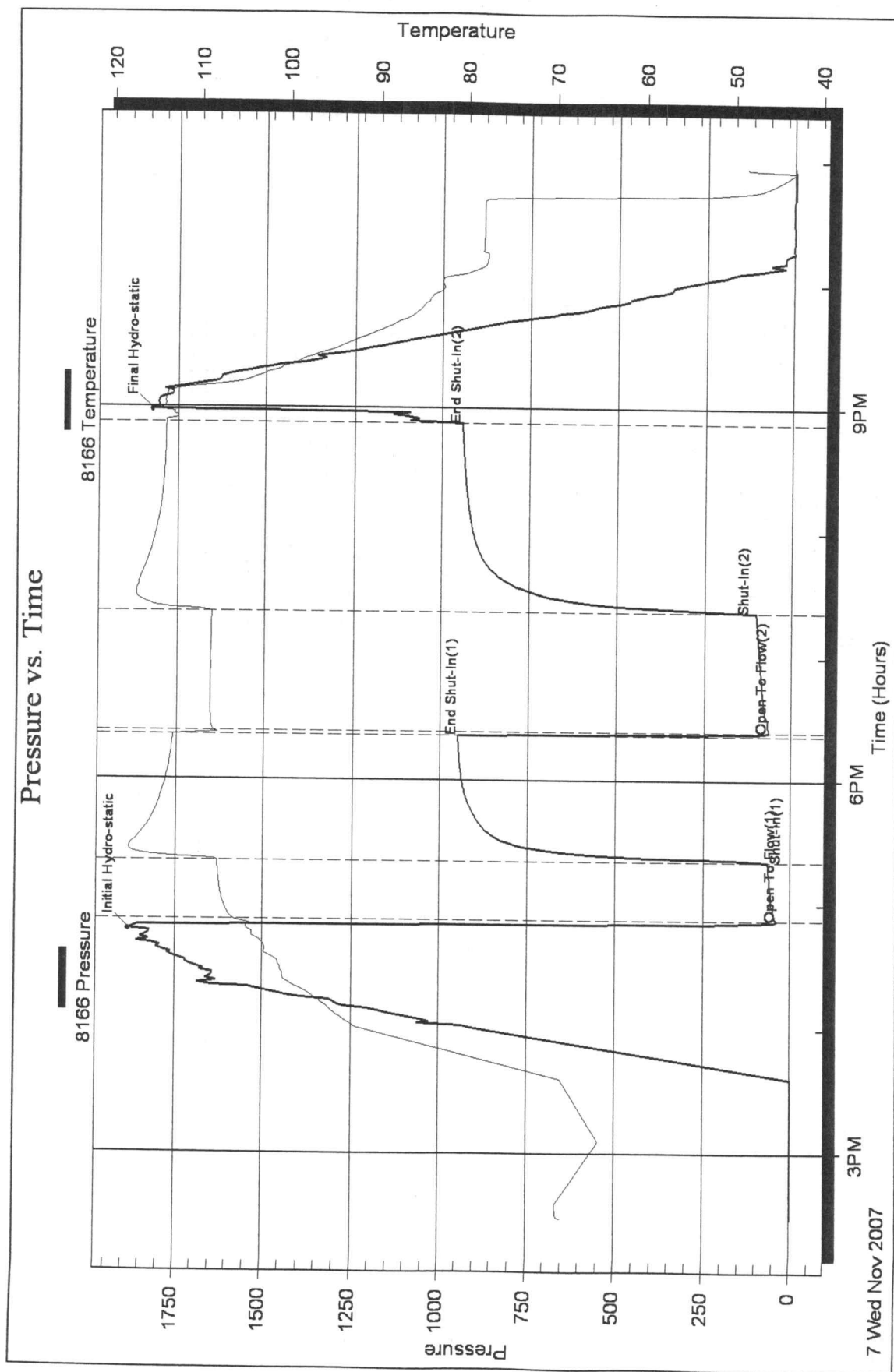
Serial #: 8166

Inside

Lario Oil & Gas

3 28 5W Kingman KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 S Market
Wichita KS 67202

ATTN: Vern Schrag

3 28 5W Kingman KS

Feary #4-3

Start Date: 2007.11.08 @ 08:02:09

End Date: 2007.11.08 @ 16:05:39

Job Ticket #: 29852 DST #: 2

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DRILL STEM TEST REPORT

Lario Oil & Gas

301 S Market
Wichita KS 67202

ATTN: Vern Schrag

Feary #4-3

3 28 5W Kingman KS

Job Ticket: 29852

DST#: 2

Test Start: 2007.11.08 @ 08:02:09

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:51:19

Time Test Ended: 16:05:39

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Interval: 3811.00 ft (KB) To 3823.00 ft (KB) (TVD)

Total Depth: 3823.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1437.00 ft (KB)

1427.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8166

Inside

Press@RunDepth: 72.13 psig @ 3812.00 ft (KB)

Start Date: 2007.11.08

End Date:

2007.11.08

Start Time: 08:02:14

End Time:

16:05:38

Capacity: 7000.00 psig

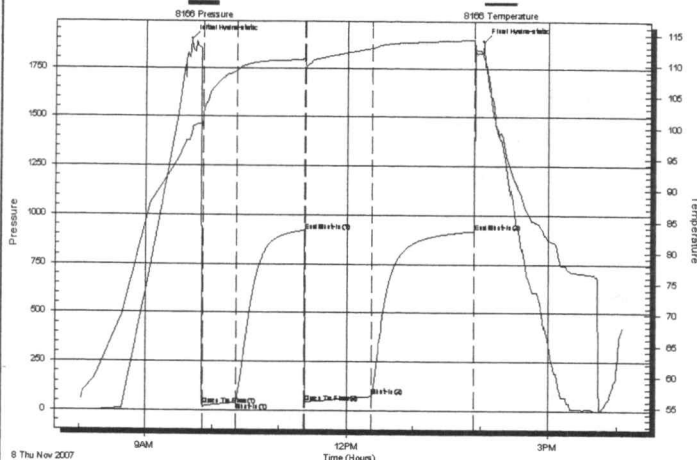
Last Calib.: 2007.11.08

Time On Btm: 2007.11.08 @ 09:41:29

Time Off Btm: 2007.11.08 @ 14:02:18

TEST COMMENT: IF Strong Blow BOB in 3 minutes
ISI Bled Off No Blow back
FF Strong Blow BOB Immediate
FSI Bled Off No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.86	98.95	Initial Hydro-static
10	23.37	101.61	Open To Flow (1)
40	40.50	109.17	Shut-In(1)
101	918.48	111.03	End Shut-In(1)
102	39.09	110.17	Open To Flow(2)
162	72.13	112.80	Shut-In(2)
253	916.10	114.22	End Shut-In(2)
261	1886.52	111.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 3311 Feet	0.00
120.00	OMCW 4%O 20%M 76%W	1.68
20.00	GOWCM 5%G 8%O 20%W 67%M	0.28

Gas Rates

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

Lario Oil & Gas

Feary #4-3

301 S Market
Wichita KS 67202

3 28 5W Kingman KS

Job Ticket: 29852

DST#: 2

ATTN: Vern Schrag

Test Start: 2007.11.08 @ 08:02:09

Tool Information

Drill Pipe:	Length: 3811.00 ft	Diameter: 3.80 inches	Volume: 53.46 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
		Total Volume:	53.46 bbl	Tool Chased	ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3811.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			3783.00	
Change Over Sub	1.00			3784.00	
Shut In Tool	5.00			3789.00	
Hydraulic tool	5.00			3794.00	
Jars	5.00			3799.00	
Safety Joint	3.00			3802.00	
Packer	5.00			3807.00	29.00 Bottom Of Top Packer
Packer	4.00			3811.00	
Stubb	1.00			3812.00	
Recorder	0.00	8166	Inside	3812.00	
Recorder	0.00	8356	Outside	3812.00	
Perforations	8.00			3820.00	
Bullnose	3.00			3823.00	12.00 Bottom Packers & Anchor

Total Tool Length: 41.00



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Job Ticket: 29852

DST#: 2

ATTN: Vern Schrag

Test Start: 2007.11.08 @ 08:02:09

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 4800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 3311 Feet	0.000
120.00	OMCW 4%O 20%M 76%W	1.683
20.00	GOWCM 5%G 8%O 20%W 67%M	0.281

Total Length: 140.00 ft

Total Volume: 1.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

