



DRILL STEM TEST REPORT

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

301 S Market St
Wichita KS 67202

ATTN: Vern Schrag

12 28S 6W Kingman KS

Hilger A 1-12

Start Date: 2007.08.23 @ 03:20:44

End Date: 2007.08.23 @ 08:03:44

Job Ticket #: 28392 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 Co

301 S Market St
Wichita KS 67202

ATTN: Vern Schrag

Hilger A 1-12

12 28S 6W Kingman KS

Job Ticket: 28392

DST#: 1

Test Start: 2007.08.23 @ 03:20:44

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:31:29

Time Test Ended: 08:03:44

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Interval: **3472.00 ft (KB) To 3493.00 ft (KB) (TVD)**

Total Depth: 3493.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1473.00 ft (KB)

1463.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press@RunDepth: 522.50 psig @ 3473.00 ft (KB)

Start Date: 2007.08.23

End Date:

2007.08.23

Start Time: 03:20:49

End Time:

08:03:43

Capacity: 7000.00 psig

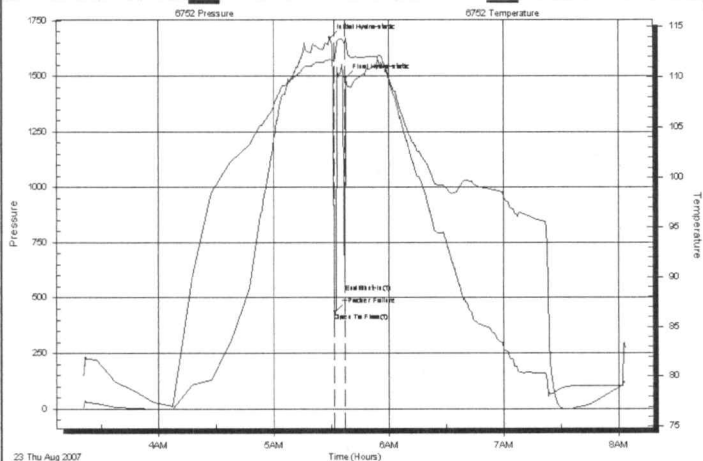
Last Calib.: 2007.08.23

Time On Btm: 2007.08.23 @ 05:29:29

Time Off Btm: 2007.08.23 @ 05:37:29

TEST COMMENT: IF Packer Failure

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.80	111.71	Initial Hydro-static
2	393.63	111.54	Open To Flow (1)
3	437.51	112.00	--Packer Failure
8	522.50	113.30	End Shut-In (1)
8	1493.86	113.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	Drig Mud	5.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co

301 S Market St
Wichita KS 67202

ATTN: Vern Schrag

Hilger A 1-12

12 28S 6W Kingman KS

Job Ticket: 28392

DST#: 1

Test Start: 2007.08.23 @ 03:20:44

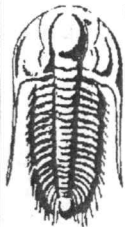
Tool Information

Drill Pipe:	Length: 3452.00 ft	Diameter: 3.80 inches	Volume: 48.42 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: 35000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 36000.00 lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3472.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	50.00 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			3444.00	
Change Over Sub	1.00			3445.00	
Shut In Tool	5.00			3450.00	
Hydraulic tool	5.00			3455.00	
Jars	5.00			3460.00	
Safety Joint	3.00			3463.00	
Packer	5.00			3468.00	29.00 Bottom Of Top Packer
Packer	4.00			3472.00	
Stubb	1.00			3473.00	
Recorder	0.00	6752	Inside	3473.00	
Perforations	17.00			3490.00	
Recorder	0.00	6704	Outside	3490.00	
Bullnose	3.00			3493.00	21.00 Bottom Packers & Anchor

Total Tool Length: 50.00



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FLUID SUMMARY

Lario Oil & Gas Co

Hilger A 1-12

301 S Market St
Wichita KS 67202

12 28S 6W Kingman KS

Job Ticket: 28392

DST#: 1

ATTN: Vern Schrag

Test Start: 2007.08.23 @ 03:20:44

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 40.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 8000.00 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
360.00	Drig Mud	5.050

Total Length: 360.00 ft

Total Volume: 5.050 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

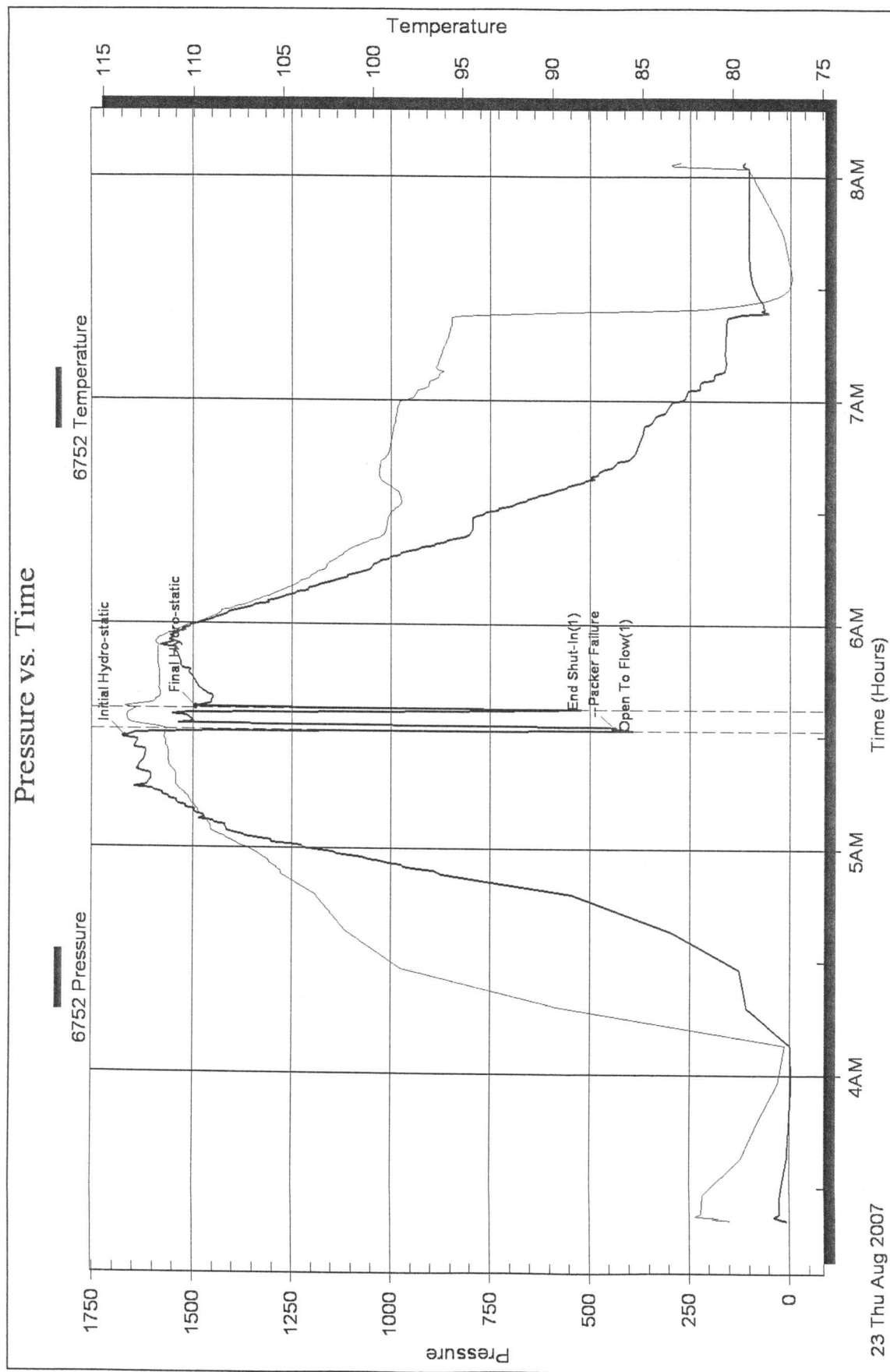
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

301 S Market St
Wichita KS 67202

ATTN: Vern Schrag

12 28S 6W Kingman KS

Hilger A 1-12

Start Date: 2007.08.23 @ 08:14:04

End Date: 2007.08.23 @ 11:37:34

Job Ticket #: 28393 DST #: 2

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DRILL STEM TEST REPORT

Lario Oil & Gas Co

301 S Market St
Wichita KS 67202

ATTN: Vern Schrag

Hilger A 1-12

12 28S 6W Kingman KS

Job Ticket: 28393

DST#: 2

Test Start: 2007.08.23 @ 08:14:04

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 11:37:34

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Interval: **3464.00 ft (KB) To 3493.00 ft (KB) (TVD)**

Total Depth: 3493.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1473.00 ft (KB)

1463.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press@RunDepth: psig @ 3465.00 ft (KB)

Start Date: 2007.08.23

End Date: 2007.08.23

Start Time: 08:14:09

End Time: 11:37:34

Capacity: 7000.00 psig

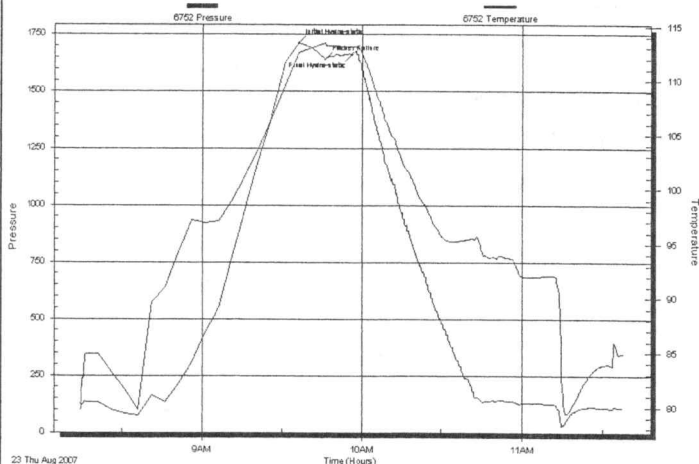
Last Calib.: 2007.08.23

Time On Btm: 2007.08.23 @ 09:36:04

Time Off Btm: 2007.08.23 @ 09:56:19

TEST COMMENT: IF Packer Failure

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.88	112.56	Initial Hydro-static
10	1640.83	113.50	Packer Failure
21	1661.49	113.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Drlg Mud	2.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co

301 S Market St
Wichita KS 67202

ATTN: Vern Schrag

Hilger A 1-12

12 28S 6W Kingman KS

Job Ticket: 28393

DST#: 2

Test Start: 2007.08.23 @ 08:14:04

Tool Information

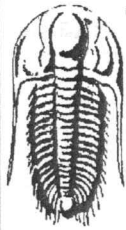
Drill Pipe:	Length: 3452.00 ft	Diameter: 3.80 inches	Volume: 48.42 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 38000.00 lb
		Total Volume: 48.42 bbl		Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3464.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Circulating sub	1.00		3436.00	
Change Over Sub	1.00		3437.00	
Shut In Tool	5.00		3442.00	
Hydraulic tool	5.00		3447.00	
Jars	5.00		3452.00	
Safety Joint	3.00		3455.00	
Packer	5.00		3460.00	29.00 Bottom Of Top Packer
Packer	4.00		3464.00	
Stubb	1.00		3465.00	
Recorder	0.00	6752 Inside	3465.00	
Perforations	25.00		3490.00	
Recorder	0.00	6704 Outside	3490.00	
Bullnose	3.00		3493.00	29.00 Bottom Packers & Anchor

Total Tool Length: 58.00



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12 28S 6W Kingman KS

Job Ticket: 28393

DST#: 2

ATTN: Vern Schrag

Test Start: 2007.08.23 @ 08:14:04

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: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Drig Mud	2.525

Total Length: 180.00 ft

Total Volume: 2.525 bbl

Num Fluid Samples: 0

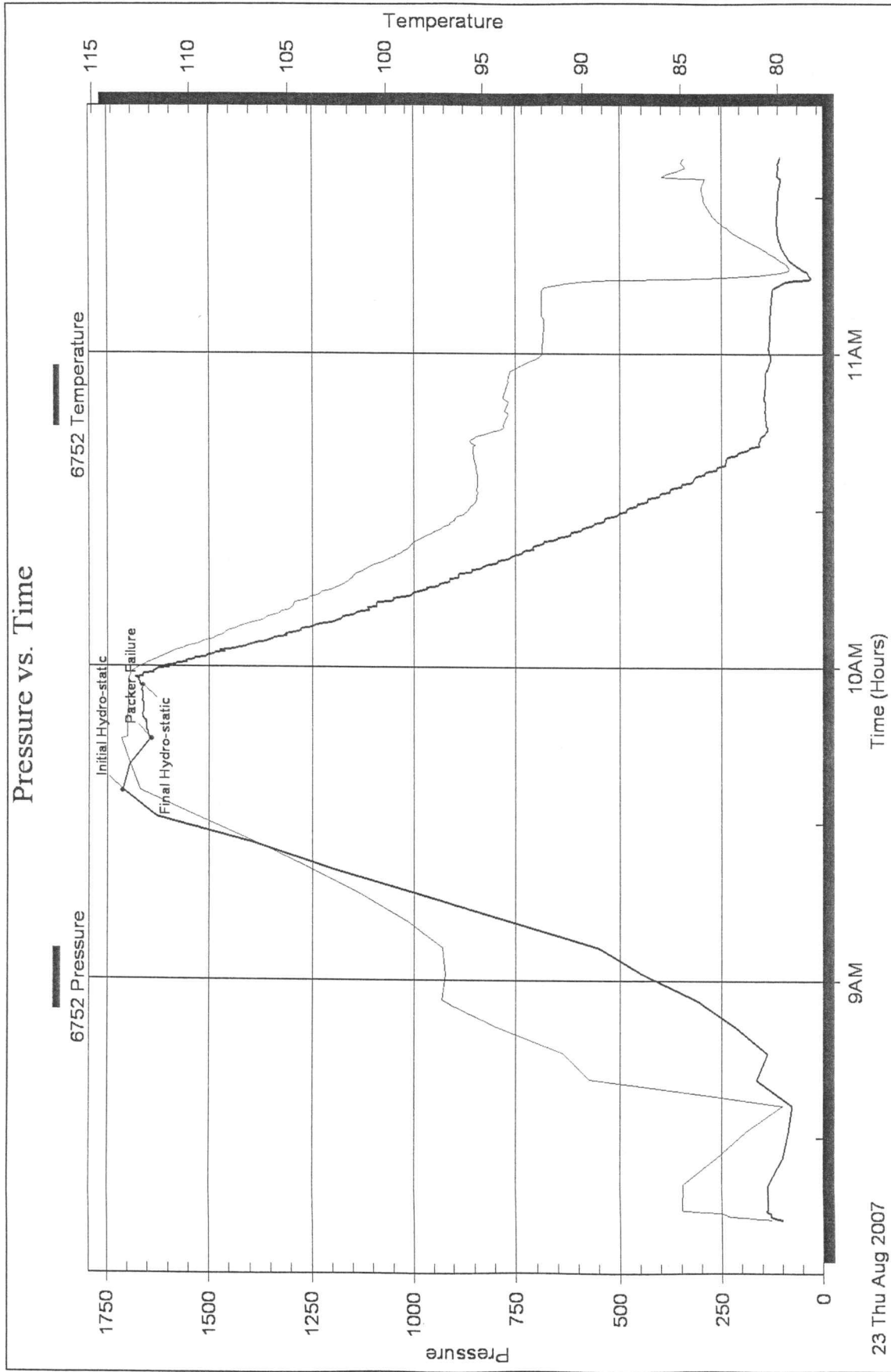
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

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Hilger A 1-12

Start Date: 2007.08.24 @ 22:55:00

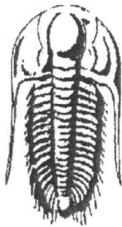
End Date: 2007.08.25 @ 06:45:00

Job Ticket #: 28394 DST #: 3

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DRILL STEM TEST REPORT

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301 S Market St
Wichita KS 67202

ATTN: Vern Schrag

Hilger A 1-12

12 28S 6W Kingman KS

Job Ticket: 28394

DST#: 3

Test Start: 2007.08.24 @ 22:55:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:36:45

Time Test Ended: 06:45:00

Interval: **3852.00 ft (KB) To 3875.00 ft (KB) (TVD)**

Total Depth: 3875.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Reference Elevations: 1473.00 ft (KB)

1463.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6752

Inside

Press@RunDepth: 209.98 psig @ 3853.00 ft (KB)

Start Date: 2007.08.24

End Date: 2007.08.25

Start Time: 22:55:05

End Time: 06:44:59

Capacity: 7000.00 psig

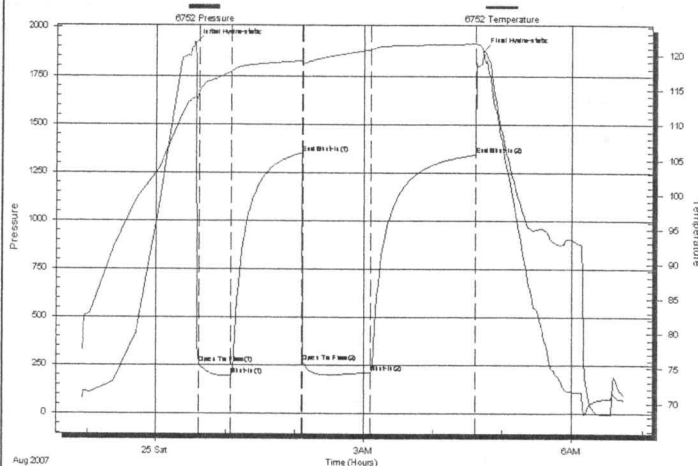
Last Calib.: 2007.08.25

Time On Btm: 2007.08.25 @ 00:33:45

Time Off Btm: 2007.08.25 @ 04:43:45

TEST COMMENT: IF Strong Blow BOB in 1 minute
ISI Bled Off 1/2 inch Blow ack
FF Strong Blow BOB in 30 seconds GTS in 6 minutes (TSTM)
FSI Bled Off 1/2 inch Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1918.14	113.97	Initial Hydro-static
3	255.65	114.80	Open To Flow (1)
31	193.47	117.62	Shut-In(1)
92	1348.23	119.20	End Shut-In(1)
93	266.12	118.55	Open To Flow (2)
152	209.98	120.76	Shut-In(2)
243	1342.62	121.63	End Shut-In(2)
250	1875.90	120.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3643 Feet GIP	0.00
120.00	MCW 5%M 95%W	1.68
65.00	GWCM 30%G 20%W 50%M	0.91

Gas Rates

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

Lario Oil & Gas Co

301 S Market St
Wichita KS 67202

ATTN: Vern Schrag

Hilger A 1-12

12 28S 6W Kingman KS

Job Ticket: 28394

DST#: 3

Test Start: 2007.08.24 @ 22:55:00

Tool Information

Drill Pipe:	Length: 3828.00 ft	Diameter: 3.80 inches	Volume: 53.70 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 43000.00 lb
			<u>Total Volume: 53.70 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3852.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	52.00 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			3824.00	
Change Over Sub	1.00			3825.00	
Shut In Tool	5.00			3830.00	
Hydraulic tool	5.00			3835.00	
Jars	5.00			3840.00	
Safety Joint	3.00			3843.00	
Packer	5.00			3848.00	29.00 Bottom Of Top Packer
Packer	4.00			3852.00	
Stubb	1.00			3853.00	
Recorder	0.00	6752	Inside	3853.00	
Perforations	19.00			3872.00	
Recorder	0.00	6704	Outside	3872.00	
Bullnose	3.00			3875.00	23.00 Bottom Packers & Anchor

Total Tool Length: 52.00



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12 28S 6W Kingman KS

Job Ticket: 28394

DST#: 3

ATTN: Vern Schrag

Test Start: 2007.08.24 @ 22:55:00

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:

39000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3643 Feet GIP	0.000
120.00	MCW 5%M 95%W	1.683
65.00	GWCM 30%G 20%W 50%M	0.912

Total Length: 185.00 ft

Total Volume: 2.595 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

