

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

301 S Market
Wichita KS 67202

ATTN: Vern Schrag

4 28 5W Kingman KS

Ramsdale # 2-4

Start Date: 2007.09.04 @ 04:21:52

End Date: 2007.09.04 @ 09:27:22

Job Ticket #: 28432 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Lario Oil & Gas Co

Ramsdale # 2-4

4 28 5W Kingman KS

DST # 1

Indian Cave Sand

2007.09.04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Lario Oil & Gas Co

301 S Market
Wichita KS 67202

ATTN: Vern Schrag

Ramsdale # 2-4

4 28 5W Kingman KS

Job Ticket: 28432

DST#: 1

Test Start: 2007.09.04 @ 04:21:52

GENERAL INFORMATION:

Formation: **Indian Cave Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:05:52
 Time Test Ended: 09:27:22

Test Type: Conventional Bottom Hole
 Tester: Jerry Adams
 Unit No: 36

Interval: **1744.00 ft (KB) To 1767.00 ft (KB) (TVD)**
 Total Depth: 1767.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1432.00 ft (KB)
 1423.00 ft (CF)
 KB to GR/CF: 9.00 ft

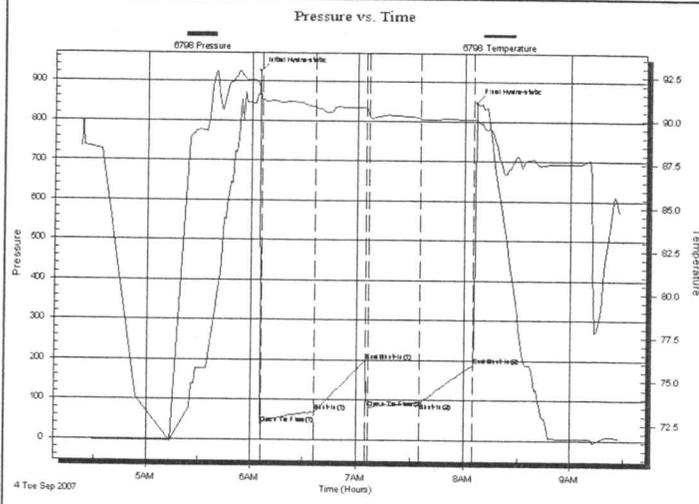
Serial #: 6798

Inside

Press@RunDepth: 92.93 psig @ 1745.00 ft (KB)
 Start Date: 2007.09.04 End Date: 2007.09.04
 Start Time: 04:21:57 End Time: 09:27:21

Capacity: 7000.00 psig
 Last Calib.: 2007.09.04
 Time On Btm: 2007.09.04 @ 06:04:52
 Time Off Btm: 2007.09.04 @ 08:06:22

TEST COMMENT: IF Fair blow BOB in 19 mins.
 ISI No blow
 FF Fair blow BOB in 22 mins.
 FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	923.45	91.70	Initial Hydro-static
1	39.11	91.19	Open To Flow (1)
32	69.16	90.75	Shut-In(1)
60	198.23	90.75	End Shut-In(1)
62	79.86	90.23	Open To Flow (2)
90	92.93	90.11	Shut-In(2)
120	187.59	90.05	End Shut-In(2)
122	847.62	90.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	VSWCM 2%W 98%M	0.64
0.00		0.00

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co

Ramsdale # 2-4

301 S Market
Wichita KS 67202

4 28 5W Kingman KS

ATTN: Vern Schrag

Job Ticket: 28432

DST#: 1

Test Start: 2007.09.04 @ 04:21:52

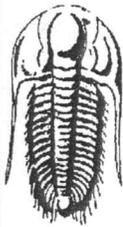
Tool Information

Drill Pipe:	Length: 1372.00 ft	Diameter: 3.80 inches	Volume: 19.25 bbl	Tool Weight: 25000.00 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: 355.00 ft	Diameter: 2.25 inches	Volume: 1.75 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 21.00 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	1744.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			1721.00	
Hydraulic tool	5.00			1726.00	
Jars	5.00			1731.00	
Safety Joint	3.00			1734.00	
Packer	5.00			1739.00	28.00 Bottom Of Top Packer
Packer	5.00			1744.00	
Stubb	1.00			1745.00	
Recorder	0.00	6798	Inside	1745.00	
Perforations	19.00			1764.00	
Recorder	0.00	13249	Outside	1764.00	
Bullnose	3.00			1767.00	23.00 Bottom Packers & Anchor

Total Tool Length: 51.00



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FLUID SUMMARY

Lario Oil & Gas Co

Ramsdale # 2-4

301 S Market
Wichita KS 67202

4 28 5W Kingman KS

ATTN: Vern Schrag

Job Ticket: 28432

DST#: 1

Test Start: 2007.09.04 @ 04:21:52

Mud and Cushion Information

Mud Type: Water	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 34.00 sec/qt	Cushion Volume: bbl		
Water Loss: 0.00 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 90000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	VSWCM 2%W 98%M	0.639
0.00		0.000

Total Length: 130.00 ft Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

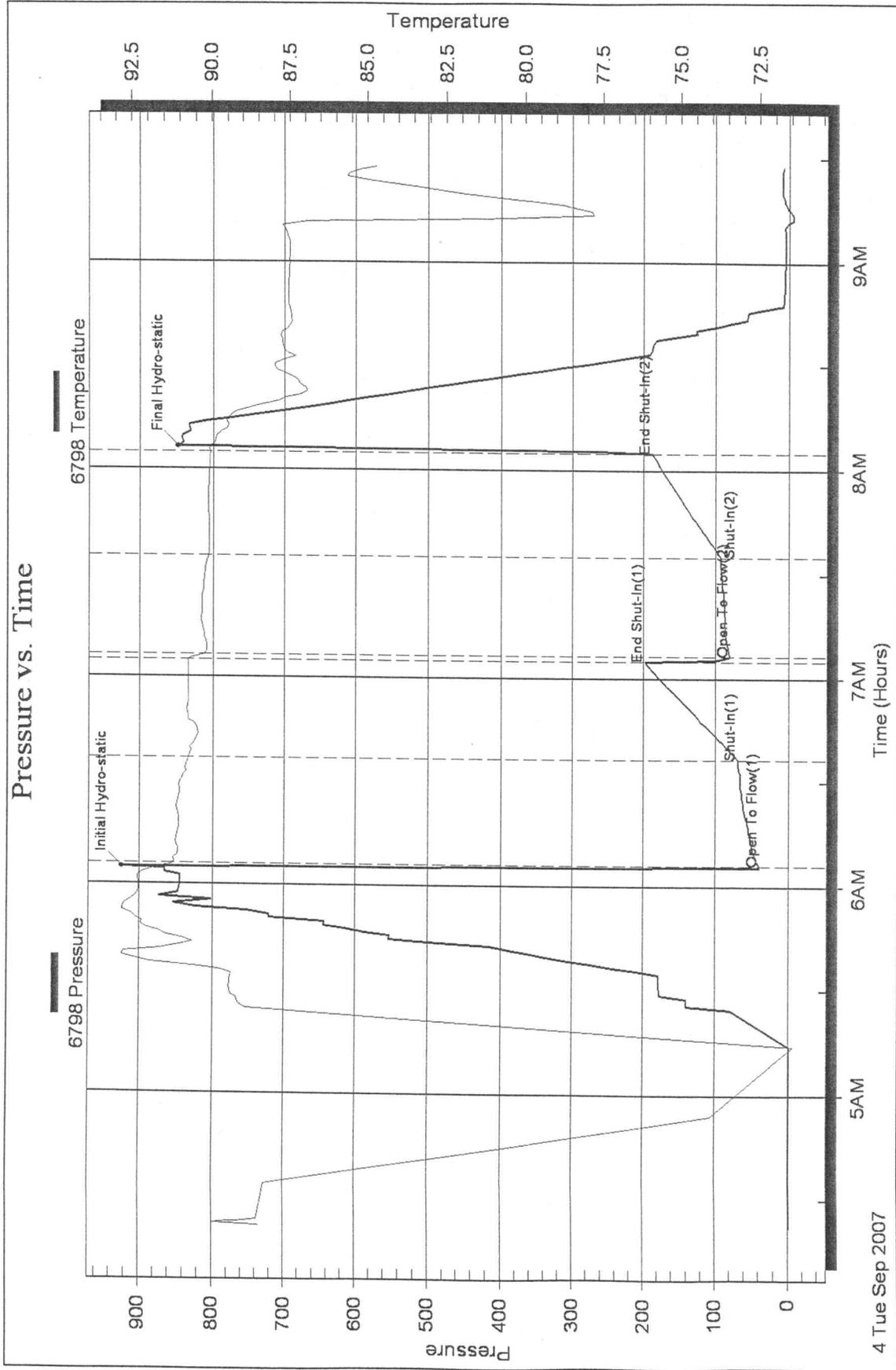
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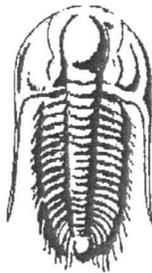
Laboratory Name:

Laboratory Location:

Recovery Comments: Spotted tank of chemical Mud on bottom.

Pressure vs. Time





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DRILL STEM TEST REPORT

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

301 S Market
Wichita KS 67202

ATTN: Vern Schrag

4 28 5W Kingman KS

Ramsdale # 2-4

Start Date: 2007.09.08 @ 12:14:57

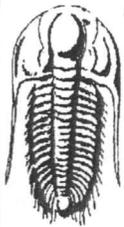
End Date: 2007.09.08 @ 21:12:27

Job Ticket #: 28371 DST #: 2

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DRILL STEM TEST REPORT

Lario Oil & Gas Co

301 S Market
Wichita KS 67202

ATTN: Vern Schrag

Ramsdale # 2-4

4 28 5W Kingman KS

Job Ticket: 28371

DST#: 2

Test Start: 2007.09.08 @ 12:14:57

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:28:12

Time Test Ended: 21:12:27

Test Type: Conventional Bottom Hole

Tester: Travy Cushenbery

Unit No: 30

Interval: **3763.00 ft (KB) To 3785.00 ft (KB) (TVD)**

Total Depth: 3785.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1432.00 ft (KB)

1423.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6668

Inside

Press@RunDepth: 167.82 psig @ 3763.00 ft (KB)

Start Date: 2007.09.08

End Date:

2007.09.08

Start Time: 12:15:02

End Time:

21:12:27

Capacity: 7000.00 psig

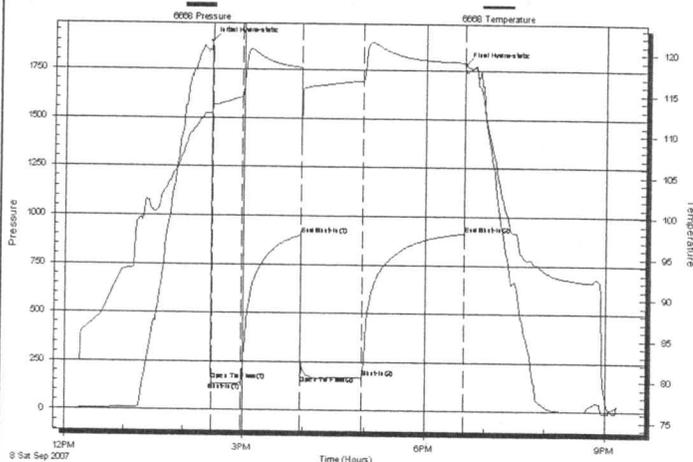
Last Calib.: 2007.09.08

Time On Btm: 2007.09.08 @ 14:27:12

Time Off Btm: 2007.09.08 @ 18:39:12

TEST COMMENT: IF Strong blow BOB in 15 secs. GTS in 30 mins.
ISI Bled off Strong blow back BOB immediately
FF Strong blow BOB immediately GTS TSTM
FSI Bled off No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.69	112.80	Initial Hydro-static
1	150.47	113.69	Open To Flow (1)
32	138.72	114.67	Shut-In(1)
90	898.84	118.29	End Shut-In(1)
90	136.03	109.10	Open To Flow (2)
151	167.82	116.68	Shut-In(2)
252	911.82	119.02	End Shut-In(2)
252	1776.79	119.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GM 4%G 96%M	1.14
60.00	GMM 4%G 82%W 14%M	0.84
60.00	GMM 4%G 86%W 20%M	0.84

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co

Ramsdale # 2-4

301 S Market
Wichita KS 67202

4 28 5W Kingman KS

Job Ticket: 28371

DST#: 2

ATTN: Vern Schrag

Test Start: 2007.09.08 @ 12:14:57

Tool Information

Drill Pipe:	Length: 3698.00 ft	Diameter: 3.80 inches	Volume: 51.87 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	52.17 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3763.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3740.00	
Hydraulic tool	5.00			3745.00	
Jars	5.00			3750.00	
Safety Joint	3.00			3753.00	
Packer	5.00			3758.00	28.00 Bottom Of Top Packer
Packer	5.00			3763.00	
Recorder	0.00	6668	Inside	3763.00	
Perforations	19.00			3782.00	
Recorder	0.00	13266	Outside	3782.00	
Bullnose	3.00			3785.00	22.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



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FLUID SUMMARY

Lario Oil & Gas Co

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301 S Market
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4 28 5W Kingman KS

Job Ticket: 28371

DST#: 2

ATTN: Vern Schrag

Test Start: 2007.09.08 @ 12:14:57

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:

69000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GM 4%G 96%M	1.137
60.00	GMM 4%G 82%W 14%M	0.842
60.00	GMM 4%G 86%W 20%M	0.842

Total Length: 240.00 ft Total Volume: 2.821 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

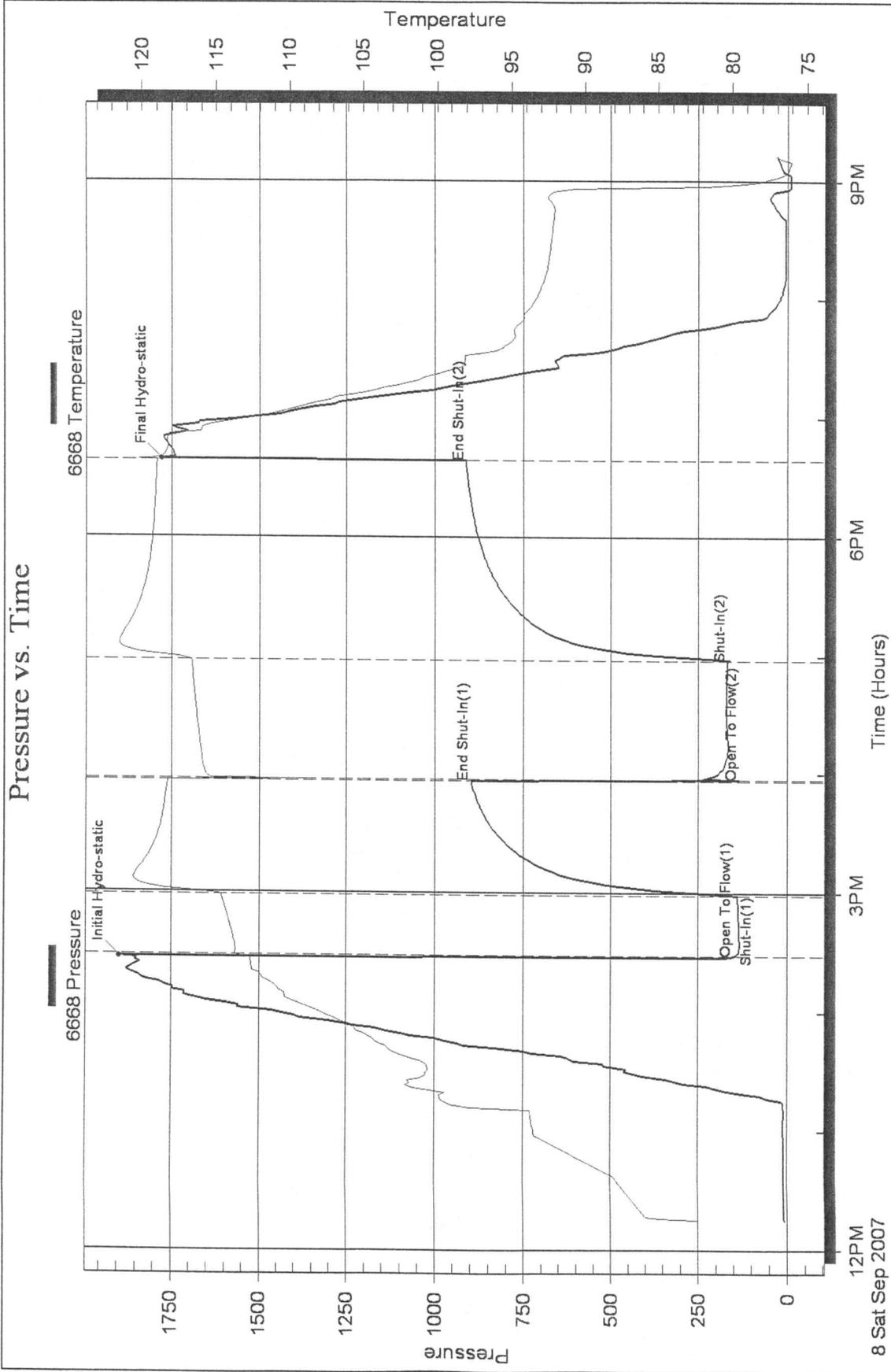
Inside

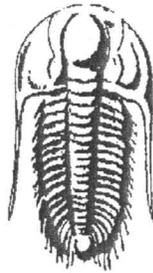
Lario Oil & Gas Co

4 28 5W Kingman KS

DST Test Number: 2

Pressure vs. Time





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DRILL STEM TEST REPORT

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

301 S Market
Wichita KS 67202

ATTN: Vern Schrag

4 28 5W Kingman KS

Ramsdale # 2-4

Start Date: 2007.09.09 @ 03:42:10

End Date: 2007.09.09 @ 12:30:10

Job Ticket #: 28372 DST #: 3

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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 Market
Wichita KS 67202

ATTN: Vern Schrag

Ramsdale # 2-4

4 28 5W Kingman KS

Job Ticket: 28372

DST#: 3

Test Start: 2007.09.09 @ 03:42:10

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 05:39:40

Time Test Ended: 12:30:10

Test Type: Conventional Bottom Hole

Tester: Travy Cushenbery

Unit No: 30

Interval: **3787.00 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: **1432.00 ft (KB)**

1423.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 6668

Inside

Press@RunDepth: **230.16 psig @ 3787.00 ft (KB)**

Start Date: **2007.09.09**

End Date: **2007.09.09**

Start Time: **03:42:15**

End Time: **12:30:10**

Capacity: **7000.00 psig**

Last Calib.: **2007.09.09**

Time On Btm: **2007.09.09 @ 05:37:25**

Time Off Btm: **2007.09.09 @ 09:40:40**

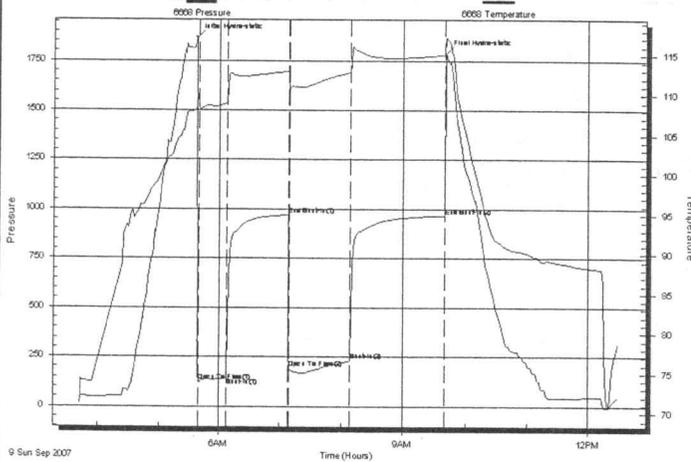
TEST COMMENT: IF Strong blow BOB in 15 secs. GTS in 15 mins. See gas report

ISI Weak blow back Building to 2" in 60 mins.

FF Strong blow BOB immediately GTS See gas report

FSI Bled off Weak blow back Building t

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.95	108.59	Initial Hydro-static
3	125.44	108.72	Open To Flow (1)
31	145.13	109.00	Shut-In(1)
91	969.41	112.98	End Shut-In(1)
92	191.75	110.65	Open To Flow (2)
152	230.16	112.82	Shut-In(2)
243	966.77	115.02	End Shut-In(2)
244	1785.23	117.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GO 26%G 74%O	1.14
360.00	WGMO 10%G 44%O 6%W 40%M	5.05
60.00	GMW 2%G 94%W 4%M	0.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	2.00	63.75
Last Gas Rate	0.13	12.00	10.49
Max. Gas Rate	0.13	12.00	10.49



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co

301 S Market
Wichita KS 67202

ATTN: Vern Schrag

Ramsdale # 2-4

4 28 5W Kingman KS

Job Ticket: 28372

DST#: 3

Test Start: 2007.09.09 @ 03:42:10

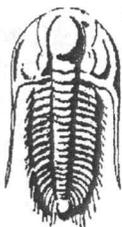
Tool Information

Drill Pipe:	Length: 3732.00 ft	Diameter: 3.80 inches	Volume: 52.35 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 52.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3787.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3764.00	
Hydraulic tool	5.00			3769.00	
Jars	5.00			3774.00	
Safety Joint	3.00			3777.00	
Packer	5.00			3782.00	28.00 Bottom Of Top Packer
Packer	5.00			3787.00	
Recorder	0.00	6668	Inside	3787.00	
Perforations	7.00			3794.00	
Recorder	0.00	13266	Outside	3794.00	
Bullnose	3.00			3797.00	10.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



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Ramsdale # 2-4

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Job Ticket: 28372

DST#: 3

ATTN: Vern Schrag

Test Start: 2007.09.09 @ 03:42:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

80000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GO 26%G 74%O	1.137
360.00	WGMO 10%G 44%O 6%W 40%M	5.050
60.00	GMW 2%G 94%W 4%M	0.842

Total Length: 540.00 ft

Total Volume: 7.029 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

